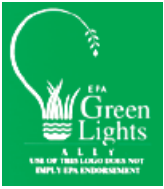




Lamp Products Catalog 2006



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EPA does not endorse any product or service.

This latest edition of the GE product catalog has been updated to help you more easily select the GE lighting products that best meet your needs.

Technical data in this catalog (life, lumens, wattage, etc.) are nominal values, subject to manufacturer's tolerances. All technical data in this catalog is based on laboratory tests conducted under controlled conditions. Performance of individual lamps may vary. Because of frequent design improvements, the values listed may not be current ratings. Technical bulletins may be issued from time to time if changes in ratings occur prior to the next catalog printing.

Technical Support
1-800-GE LAMPS

For the most up-to-date, comprehensive product information, visit the GE Lighting website at www.gelighting.com.

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GE Consumer & Industrial
Lighting

ecomaginationSM

The future can seem pretty intimidating: Our known reserves of oil and natural gas are expected to be depleted by 2045, the climate is changing, and more than a billion people lack clean water. At GE, we believe some of the world's most pressing challenges present an opportunity to do what we do best: **imagine and build innovative solutions that benefit our customers and society at large.**

As a global leader in energy, technology, manufacturing, and infrastructure, GE is uniquely suited to help solve environmental challenges, today and for generations to come. Our customers want a more prosperous, cleaner future. By harnessing our most abundant renewable resource - the imagination of our people - we can create that future with them. We are taking a new approach to solving some of our customers' toughest environmental problems.

We call it ecomagination.

Impact of ecomagination:

*If every household in the U.S. replaced one 100-watt incandescent light bulb with a GE compact fluorescent bulb equivalent in light output, over the bulb's life, we would save enough energy to power more than **1 million U.S. homes for an entire year.***

Our Heritage, Our Future

We believe that better technology is the answer to our customers' environmental challenges. And we are confident we can find tomorrow's solutions to those challenges just as we have since the days of our founder, Thomas Edison.

Throughout our 127-year history, we have invented solutions to meet our customers' greatest needs. Over many years, we have developed one of the broadest ranges of environmentally advanced technologies. We will build on this legacy of success by researching and developing next-generation clean technologies. Our goal is to be a leader in bringing clean energy, air, and water and improved quality of life to all of the world's citizens.



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Producing Efficiency

ecomagination
Products

All Screw-in CFLs
Ultra T8 Lamps
T5 Lamps
UltraMax[®] Ballasts
UltraStart[™] Ballasts
Halogen-IR
Diamond Precise[®]

On the way to certification
CMH[®] Lamps



ecomaginationSM

Products
Benefits

ecomagination
Benefits

Additional
Benefits

All ENERGY STAR CFLs

Starting on page 5-10

All Screw-in products

Energy Savings up to \$108* per lamp

Up to 13x longer life

when using a 42 watt CFL to replace a 150W a-line



Ultra T8 Lamps

Starting on page 4-9

- F28
- Watt-Miser®
- Hi Lumen

Energy Savings up to \$148* per 4-lamp Fixture

All products Ecolux®, Available in CVG

when using a F28 & UltraMax® ballast to replace a Std. T12 system



T5 Lamps

Starting on page 4-7

- High Efficiency
- High Output

Energy Savings up to \$132* per 6-lamp Fixture

All products Ecolux®, Available in CVG

when using a T5 fixture to replace a Std. 400 Metal Halide system



UltraMax® Ballasts

Starting on page 4-37

T8 Ballasts

Energy Savings up to \$148* per 4-lamp Fixture

Multi-Voltage

when using a F28 & UltraMax® ballast to replace a Std. T12 system



UltraMax® Ballasts

Starting on page 4-38

T5 & T8 Ballasts

Energy Savings up to \$148* per 4-lamp Fixture

Programmed Start Multi-Voltage

when using a F28 & UltraStart™ ballast to replace a Std. T12 system



Halogen-IR

Starting on page 2-5

- PAR38 HIR & XL
- PAR30 HIR & XL

Energy Savings up to \$13.20* per lamp

Up to 6000 hour life

when using a Retail HIR™ to replace a Std. Halogen



Diamond Precise®

Starting on page 2-9

Q21EMR16

Energy Savings up to \$14.50* per lamp

Up to 2x Longer Life

when using a 21 watt Diamond Precise® to replace a 50R20



On the way to certification

CMH® Lamps

Starting on page 3-9

- 400 Watt
- 350 Watt
- 250 Watt

Energy Savings up to \$160.00* per lamp

SPXX color – CRI 90+

when using a 350W & e-HID UltraMax™ ballast to replace a Std. 400 watt MH system



* @ 10¢per kWh over life of lamps. Actual savings depends on specific lamps compared.

We've got the fastest way to slow this down.

Saving energy is good business. Energy-efficient lighting from GE may be the fastest, easiest way to slow your meter down and add dollars to your bottom line.

That's why GE has more than increased our product development investment with a clear goal to be the industry's energy-saving leader.

The result is a whole new line of leadership products, like the F28 UltraMax® system. Combining our 28-watt T-8 lamp with a high-efficiency UltraMax® ballast delivers up to 44% energy savings over T-12 systems. In some cases, pay back is less than a year.

The GE 42-watt compact fluorescent equals the light output of a 150-watt incandescent. That's a savings of 108 watts.

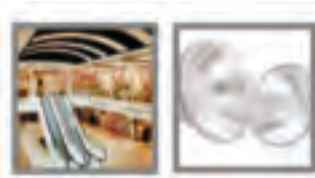
The new Retail HIR™ Halogen uses 27% less energy, with double the life of a standard halogen PAR.

Think your meter is spinning too fast?

GE Lighting: Your #1 energy-saving choice



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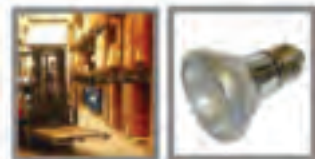
27% Savings replacing standard halogen PARs with the Retail HIR™ for accent, merchandising and general lighting.



72% Savings when you replace 150-watt incandescent lamps with our 42-watt CFL.



44% Savings when you replace T12 System with GE's Ultra Lamps and UltraMax® Ballast.



50%+ Savings when you replace standard PARs with GE ConstantColor® CMH® lamps.



GE Consumer & Industrial Lighting

The newly expanded GE Lighting and Electrical Institute

World famous training and lighting education center now also offers curriculum for electrical distribution systems!

Impressive, full-scale lighting demonstration spaces.

Comprehensive electrical distribution product center, complete with "control room" simulations.

Variety of scheduled conferences offered throughout the year, led by experienced lighting and electrical distribution professionals.

And e-tools from the Institute:

Mondays @ noon - Live, on-line training offered each week to sharpen your product and market knowledge

Value*Light – GE's award-winning cost of light analysis program

The Lighting Toolkit – a collection of 7 simple estimating tools including a Simple Energy Calculator, Lighting Layout Estimator, and the Watts Per Square Foot Estimator.

The Lighting Assistant™ - a set of 26 user-friendly tools including Value*Light, the Lighting Toolkit, 2005 Energy Policy Act Tax Incentive Calculator and much, much more!

Call 1-800-255-1200, or visit
www.gelighting.com



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See What's Available Online!



Focus on Products

- Completely redesigned online catalog
- Improved search capability
- More product details
- Highlight energy saving products
- Ballast and product specifications



Segment Driven Value & Applications

- Hospitality
- Restaurant
- Healthcare
- Retail
- Property management
- Residential builders
- Automotive
- Oil and gas
- Lighting designers



More Tools & Resources

- Online product catalog
- Literature library
- Conferences
- Environmental information
- MSDS sheets
- TCLP test results
- IES photometric downloads
- Lamp and ballast recycling
- Simple energy estimator
- Lighting layout estimator
- Cost of waiting estimator

For more information, visit
www.gelighting.com



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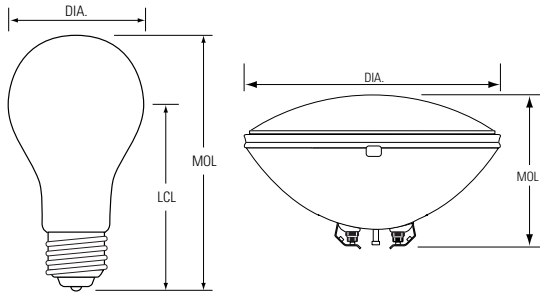
PORTABLE LIGHTING PRODUCTS 1-26

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Incandescent Lamps

BULB IDENTIFICATION



DIA: Diameter of bulb at widest point.

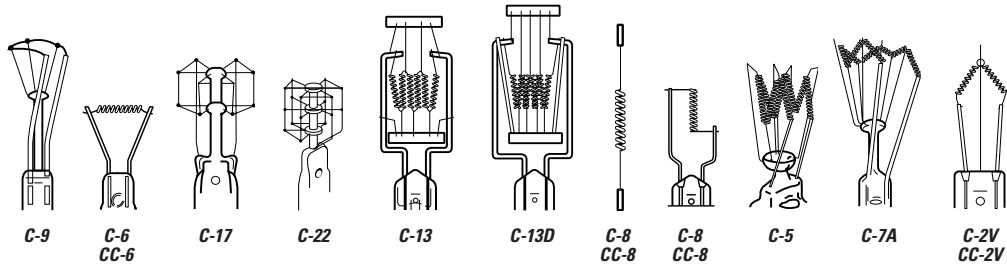
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

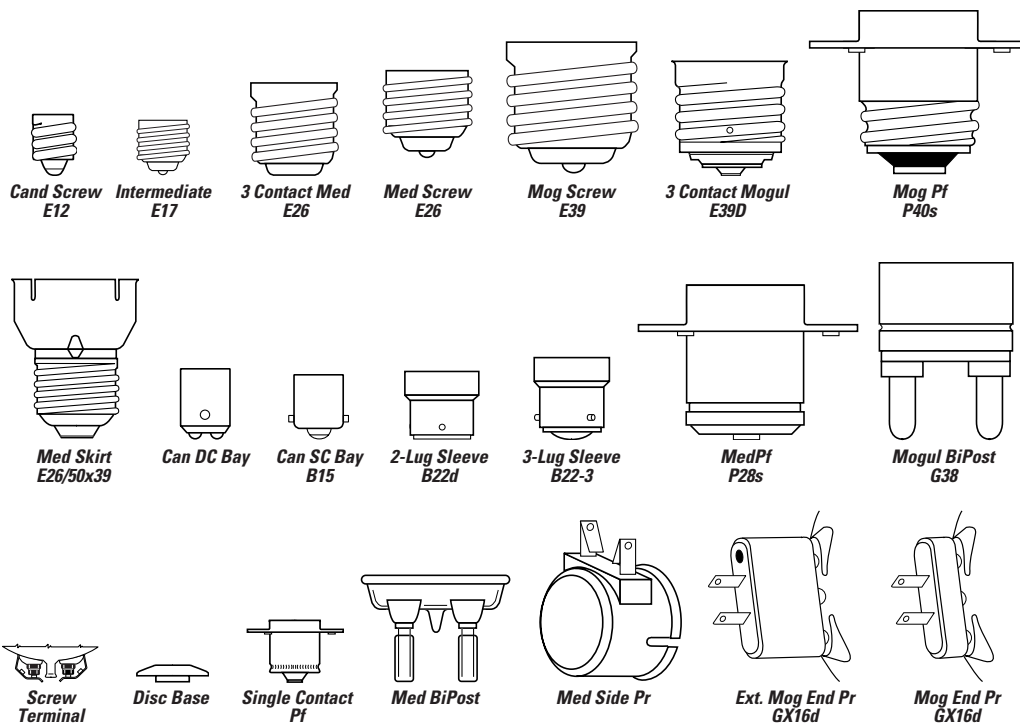
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

FILAMENT IDENTIFICATION

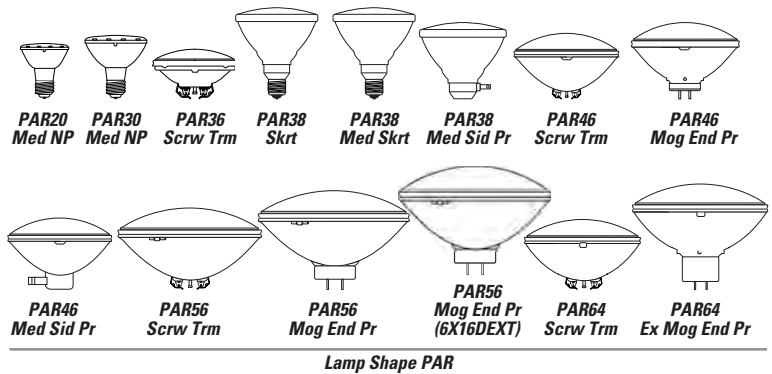
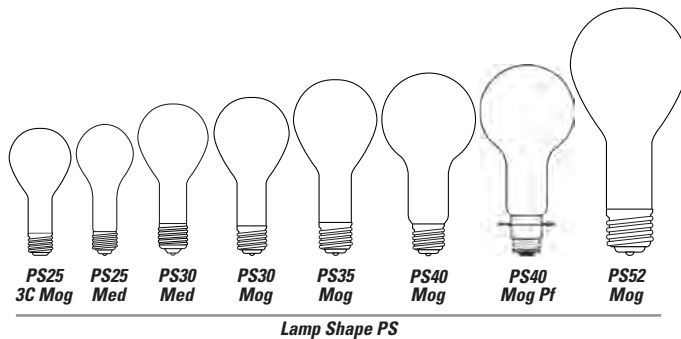
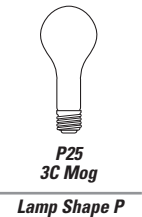
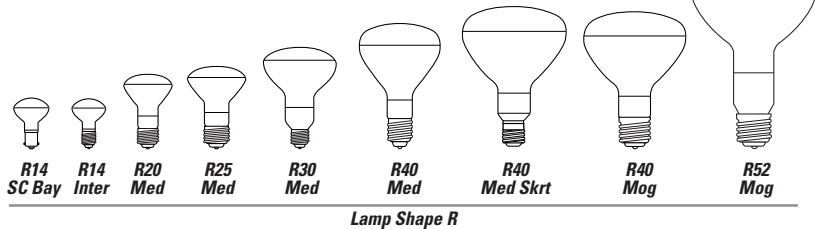
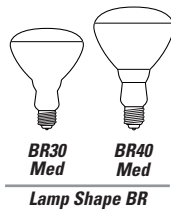
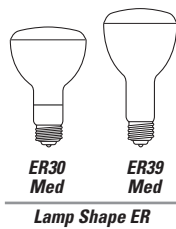
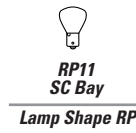
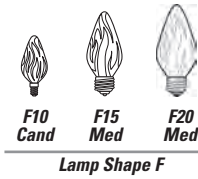
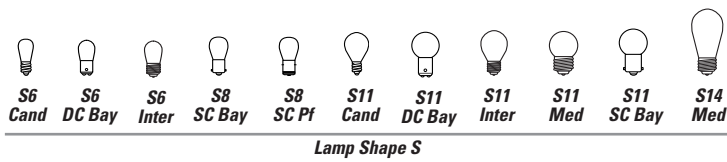
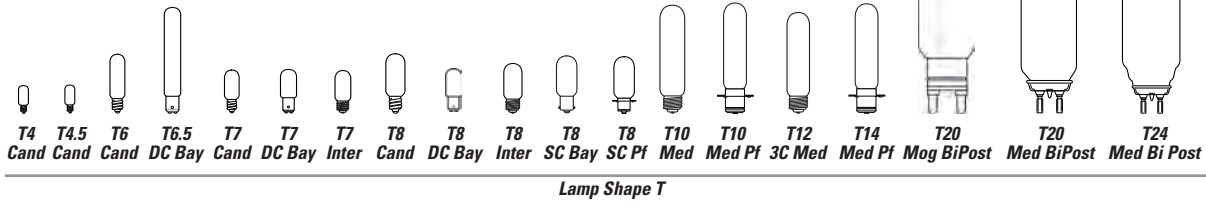
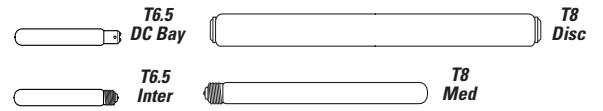
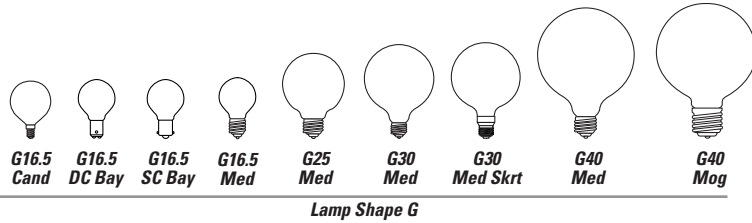
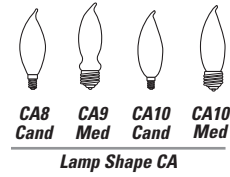
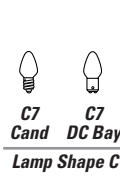
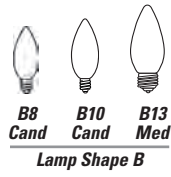
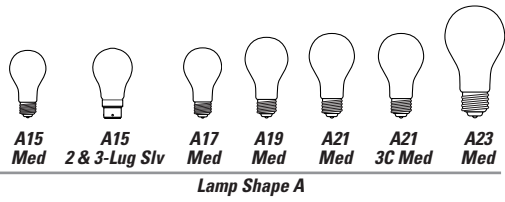


BASE IDENTIFICATION





LAMP LOCATOR





INTRODUCTION

GE's incandescent lamps trace their ancestry to the world's first practical electric bulb, invented by Thomas Alva Edison, founder in 1879, of the company that became General Electric Company.

More than a century of research and development later, the present range of GE incandescent lamps represents the state of the art of lamps for residential and commercial use, as well as special purpose lamps for decorative or display applications.

In an incandescent lamp, light is generated by heating the filament to incandescence. The hotter the filament, the more efficient it is in converting electricity to light. However, when the filament operates hotter, its life is shortened so the design of each lamp is a balance between efficiency and life. This is why lamps of equal wattage may have different lumen ratings and different life ratings.

Incandescent lamps of similar size are commonly available with different wattage ratings. The fixture wattage limit should not be exceeded.

PROTECTION FROM MOISTURE

When **HRG** (Hard Glass) appears in the Lamp Description column, the outer bulbs are made of special thermal-shock-resistant glass. However, sometimes external protection of the lamps is also needed to eliminate the chance of bulb breakage due to contact with water during operation. Footnotes will indicate when external protection is needed. Where **HRG** is not shown, the bulb glass is such that the lamps require protection from exposure to mist or condensation as well as direct contact with water during operation.

RATED LIFE

Values are based on a large number of representative lamps under controlled conditions. Individual lamps or groups of lamps may vary from the Rated Life shown. Rated Life is a median value of life expectancy - the total operating time at which under normal conditions 50% of any large group of initially installed lamps are expected to be still burning.

| GE | Osram/Sylvania | Phillips |
|--|-------------------------|------------------------|
| INCANDESCENT BRAND NAME CROSS-REFERENCE | | |
| Reveal® | — | — |
| Bug-Lite | Bug Lite | Bug-A-Way |
| Cool Beam | Cool-Lux | Cool Beam |
| covRguard® | Safeline | Silicone Coated |
| Saf-T-Gard® | — | — |
| Soft Pink | Soft Pink | Softone Pastels |
| Soft White Miser® | Energy Saver Soft White | Energy Saving |
| Extended Service | Excel-Line® | Extended Service |
| Plant Light | Spot-GRO | Agro-Lite |
| Long Life Soft White | Double Life™ Soft White | Longer Life Soft White |
| Lumiline | Lumiline | Philinea |
| Party Light | — | — |
| Survivor™ | — | Industrial Service |
| Watt-Miser® | Super Saver® | Econ-o-Watt |
| Watt-Miser® PAR | Super Saver Par® | Econ-o-Par |
| Watt-Miser® Plus | Super Saver Excel® | Extended Service |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE brands. Individual lamp manufacturers' product offerings and performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or auxiliary equipment.



Survivor™



covRguard®



*Long Life
BR30 Reflector
Floodlight or
Spotlight*

GE REVEAL® LIGHT BULBS

Superior light quality over regular incandescent that:

- Produces “clean, beautiful light™” for more vibrant colors
- Contains Neodymium glass that filters out dulling yellow rays
- Is available in 40-100 watt A-Line
- Also available for nearly every application from candle shapes to flood lights
- A color enhanced full spectrum light bulb

GE SURVIVOR™ A-LINE BULBS

Built to last, even under many “rough” service conditions...

- Five filament support design protects against early burnouts caused by bumps, jars and vibration
- Longer life... lasts 3000 hours. 3-4 times longer than standard bulbs*
- Popular wattages available
- Economically priced
- Best A-line choice for general commercial/industrial use

* Survivor bulbs provide a 300%-400% increase in life with 68%-75% of the light of ordinary bulbs.

GE COVRGUARD® BULBS

- Teflon®* coating is shatter and weather-resistant
- Resists breakage from heat and thermal shock that can occur from water, sleet, snow, molten solder, and weld spatter
- Wide choice of wattages and voltages
- Rough service version available for extra tough conditions

Uses:

Construction sites, loading docks, string lighting, elevators, trouble light, metal fabricating, food processing areas, farms.

* Teflon is a registered trademark of DuPont.

GE LONG LIFE FLOODLIGHT OR SPOTLIGHT

- 25% longer life than standard reflectors. Ideal for use in high ceilings and hard to reach track lighting.
- Easy replacement – same length and width as standard R bulbs
- Some lumen loss from standard reflectors (See listing for lumen values)
- Available in 45w floodlight and 65w floodlight and spotlight

Uses:


Down lighting, display lighting, accent lighting, wall washing. Wherever standard reflector bulbs are used.



Incandescent Lamps

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Incandescent lamp specifications and when ordering products. Within this product line, lamps are divided by wattage. Within wattage, lamps are listed alphabetically by bulb shape.

| | | | |
|--|--|---|---|
| Order Code: It is important to use this five-digit code when ordering to ensure that you receive the exact product you require. | LCL in.: Distance between the center of the filament and the Light Center Length reference plane, in inches. | MOL in.: Maximum Overall Length in inches. | Life-Hours: Life (as defined by FTC Lamp Label Rules) is rated life in hours. (see page 1-26). |
| Energy Used-Nominal Watts: Energy Used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000. | Filament Design: Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement. | Light Output-Lumens: Light output (as defined by FTC Lamp Label Rules) is rated average lumens. | Color Temperature - Kelvins (K): "Warmth" or "Coolness" of the lamp, measured in Kelvins (K). The higher the temperature, the cooler the appearance of the light. |
| Shape: Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch). | Description: The lamp's identification code. | Approximate CBCP (Center Beam Candlepower): For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. | Approximate Beam Spread: For reflector type lamps. The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% of the maximum value. |
| Base: The type of base. | Case Quantity: Number of product units packed in a case. | Additional Information: Typical application and/or other important information. |  Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs. |
| Volts: Lamp data is based on operation at rated voltage. | | | |

| Shape | Base | Order Watts Code | Description | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|-------|------|------------------|-------------|-----------|-----------------|-----|-----|------------------|----------------|---------------|------|-------------|-----------|------------------------|
|-------|------|------------------|-------------|-----------|-----------------|-----|-----|------------------|----------------|---------------|------|-------------|-----------|------------------------|

INCANDESCENT LAMPS 65 WATTS

| | | | | | | | | | | | | | |
|------|-----|----------|------------------------|-----|----|--|--|--|--|--|--|------------|-------------------|
| BR30 | Med | 65 26640 | 75R30/FL/65WM/A | 120 | 30 | | | | | | | 2A, 5E, 9K | Reflector - Amber |
|------|-----|----------|------------------------|-----|----|--|--|--|--|--|--|------------|-------------------|



75 R30 / FL / 65WM / A

- Identifies the lamp's wattage.
- Identifies the lamp's shape.
- Identifies the lamp as a floodlight.
- Identifies the lamp as a Watt-Miser[®]
- Identifies this lamp as amber colored.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify the lamp wattage.
2. Measure bulb diameter using ruler in appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 1-2.
4. Find your lamp in the table containing the bulb wattage, then match the shape, size and base, which are all listed alphabetically.



Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|---------------------------|------|------------------|-------------------------|-------|-----------|-----------------|------|------|------------------|----------------|---------------|------|-------------|-----------|-------------------------------|
| INCANDESCENT LAMPS | | | | | | | | | | | | | | | |
| 3 WATTS | | | | | | | | | | | | | | | |
| | S6 | Cand | 3 11098 3S6/5 24PK | 130 | 24 | C-7A | 1.87 | 1.37 | 3000 | 11 | | | | | Clear-Indicator |
| 4 WATTS | | | | | | | | | | | | | | | |
| | C7 | Cand | 4 16001 4C7/W CD/2 | 120 | 240 | C-7A | 2.12 | | 3000 | | | | 2E | | White-Long Life Night Light |
| | | | 20572 4C7/S CD/4 | 120 | 120 | C-7A | 2.12 | | 2000 | | | | 2E | | Standard Clear Night Light |
| | | | 20573 4C7/W/S CD/4 | 120 | 120 | C-7A | 2.12 | | 2000 | | | | 2E | | Standard White Night Light |
| | | | 26222 4C7/PK-CD2 6PK | 120 | 240 | C-7A | 2.12 | | 3000 | | | | 2E | | Long Life Pink Night Light |
| | | | 26223 4C7/BL-CD2 6PK | 120 | 240 | C-7A | 2.12 | | 3000 | | | | 2E | | Long Life Blue Night Light |
| | | | 43050 4C7 CD/2 | 120 | 240 | C-7A | 2.12 | | 3000 | | | | 2E | | Long Life Clear Night Light |
| 6 WATTS | | | | | | | | | | | | | | | |
| | S6 | Cand | 6 11316 6S6 24PK | 12 | 24 | C-2V | 1.87 | 1.37 | 1500 | 50 | | | | | Clear-Indicator |
| | | | 11329 6S6 | 24 | 240 | C-2V | 1.87 | 1.37 | 1500 | 50 | | | | | Clear-Indicator |
| | | | 11331 6S6 24PK | 30 | 24 | C-2V | 1.87 | 1.37 | 1500 | 50 | | | | | Clear-Train |
| | | | 43397 6S6 BB | 32 | 24 | C-2V | 1.87 | 1.37 | 1500 | 45 | | | | | Clear-Train |
| | | | 11367 6S6 TRAY | 120 | 240 | C-7A | 1.87 | 1.37 | 1500 | 41 | | | | | Clear-Indicator. 12-Lamp Tray |
| | | | 11577 6S6/3 | 120 | 240 | C-7A | 1.87 | 1.37 | 5000 | 23 | | | | | Clear-Signal Light |
| | | | 15820 6S6 CARD2 | 120 | 240 | C-7A | 1.87 | 1.37 | 1500 | 41 | | | | | Clear-Indicator |
| | | | 11369 6S6 TRAY | 130 | 240 | C-7A | 1.87 | 1.37 | 1500 | 41 | | | | | Clear-Indicator. 12-Lamp Tray |
| | | | 11372 6S6 | 145 | 240 | C-7A | 1.87 | 1.37 | 1500 | 41 | | | | | Clear-Indicator |
| | | | 11374 6S6 | 155 | 240 | C-7A | 1.87 | 1.37 | 1500 | 41 | | | | | Clear-Indicator |
| | | DC Bay | 6 11357 6S6DC 24PK | 75 | 24 | C-7A | 1.81 | 1.43 | 1500 | 45 | | | | | Clear-Indicator |
| | | | 11592 6S6DC TRAY | 120 | 240 | C-7A | 1.81 | 1.43 | 1500 | 41 | | | | | Clear-Indicator. 12-Lamp Tray |
| | | | 11594 6S6/DC TRAY | 130 | 240 | C-7A | 1.81 | 1.43 | 1500 | 41 | | | | | Clear-Indicator. 12-Lamp Tray |
| | | | 11609 6S6DC 24PK | 145 | 24 | C-7A | 1.81 | 1.43 | 1500 | 41 | | | | | Clear-Indicator. 12-Lamp Tray |
| | | Inter | 6 11660 6S6/7 TRAY 24PK | 120 | 24 | C-7A | 1.81 | 1.06 | 1500 | 41 | | | | | Clear-Indicator. 12-Lamp Tray |
| | T4.5 | Cand | 6 11764 6T41/2/1 | 130 | 100 | C-7A | 1.87 | 1.31 | 1500 | 42 | | | | | Clear-Indicator |
| 7 WATTS | | | | | | | | | | | | | | | |
| | C7 | Cand | 7 11779 7C7 TRAY | 120 | 240 | C-7A | 2.12 | | 3000 | 46 | | | | | Clear-Indicator. 12-Lamp Tray |
| | | | 11815 7C7/W TRAY | 120 | 240 | C-7A | 2.12 | | 3000 | 36 | | | | | White-Indicator. 12-Lamp Tray |
| | | | 11792 7C7 TRAY | 130 | 240 | C-7A | 2.12 | | 3000 | 46 | | | | | Clear-Indicator. 12-Lamp Tray |
| 7.5 WATTS | | | | | | | | | | | | | | | |
| | S11 | Med | 7.5 11847 7 1/2S TRAY | 120 | 240 | C-9 | 2.25 | | 1400 | 53 | | | | | Clear-12-Lamp Tray |
| | | | 41267 7 1/2S/CW CARD | 120 | 240 | C-9 | 2.25 | | 1400 | 39 | | | 2E | | White |
| | | | 11848 7 1/2S TRAY | 130 | 240 | C-9 | 2.25 | | 1400 | 53 | | | | | Clear-12-Lamp Tray |
| | | | 11922 7 1/2S/CW TRAY | 130 | 240 | C-9 | 2.25 | | 1400 | 39 | | | | | White-12-Lamp Tray |
| 10 WATTS | | | | | | | | | | | | | | | |
| | S6 | Cand | 10 12041 10S6/10 | 230 | 24 | C-7A | 1.87 | 1.37 | 1500 | 66 | | | | | Clear-Indicator |
| | | | 12050 10S6/10 24PK | 250 | 24 | C-7A | 1.87 | 1.37 | 1500 | 66 | | | | | Clear-Indicator |
| | | DC Bay | 10 12060 10S6/10DC 24PK | 230 | 24 | C-7A | 1.87 | 1.87 | 1500 | 66 | | | | | Clear-Indicator |
| | S11 | Cand | 10 12249 10S11/79 | 120 | 120 | C-7A | 2.25 | 1.56 | 1000 | 80 | | | | | Clear-Indicator |
| | | Inter | 10 12188 10S11N/F | 120 | 120 | C-7A | 2.31 | 1.62 | 1000 | 79 | | | | | Frost-Appliance |
| | | | 12185 10S11N | 130 | 120 | C-7A | 2.31 | 1.62 | 1000 | 80 | | | | | Clear-Sign |



Incandescent Lamps

| Shape | Base | Order Watts | Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information | | |
|---------------------------------------|------|-------------|------|-----------------------------------|--------|-------------------------|--------------------------|------|------|------------------|----------------|---------------|------|-------------|------------|--|---|-------------------------------|
| INCANDESCENT LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | |
| 11 WATTS | | | | | | | | | | | | | | | | | | |
| | S14 | Med | 11 | 12575 11S14 | 130 | 120 | C-9 | 3.5 | 2.5 | 3000 | 76 | | | | | Clear-Sign | | |
| | | | | 12589 11S14/IF | 130 | 120 | C-9 | 3.5 | 2.5 | 3000 | 76 | | | | | I.F.-Sign | | |
| | | | | 12621 11S14/R | 130 | 120 | C-9 | 3.5 | 2.5 | 3000 | | | | | | Red-Sign | | |
| | | | | 12632 11S14/Y | 130 | 120 | C-9 | 3.5 | 2.5 | 3000 | | | | | | Yellow-Sign | | |
| 12-13.5 WATTS | | | | | | | | | | | | | | | | | | |
| | S8 | SC Bay | 12 | 10690 12S8/93T-6PK CD/2 | 12 | 240 | C-2R | 2 | 1.25 | 1000 | 200 | | | | 2G | Low Voltage, High Intensity | | |
| | S11 | SC Bay | 13.5 | 12649 13/3 1/2 S11/95 | 10 | 120 | CC-6 C-12 | 2.37 | 1.25 | 1000 | 180 | | | | | Clear-Railway Signal Light, Filament in Multiple | | |
| 15 WATTS | | | | | | | | | | | | | | | | | | |
| | A15 | Med | 15 | 12784 15A | 34 | 120 | C-9 | 3.56 | 2.37 | 1000 | 180 | | | | 5A | I.F.-Train | | |
| | | | | 41270 15A/W 24PK | 120 | 120 | C-9 | 3.5 | 2.37 | 2500 | 110 | | | | | | Soft White | |
| | | | | 12658 15A15 | 130 | 120 | C-9 | 3.5 | 2.37 | 2500 | 115 | | | | | | Inside Frost | |
| | | | | 16215 15A15/CL/BB | 130 | 120 | C-9 | 3.5 | 2.37 | 3000 | 110 | | | | | | Clear-Sign | |
| | R14 | SC Bay | 15 | 33404 15R14SC/SP | 12 | 120 | CC-8 | 2.62 | | 2000 | 120 | | | | | Reflector Spot | | |
| | S11 | Cand | 15 | 13210 15S11/13 | 120 | 120 | C-7A | 2.25 | 1.56 | 750 | 115 | | | | | Clear | | |
| | | | | DC Bay | 15 | 13188 15S11/3DC | 75 | 120 | C-9 | 2.37 | 1.25 | 1000 | 138 | | | | Clear-Train | |
| | | | | Med | 15 | 13291 15S11/102 | 120 | 240 | C-7A | 2.25 | | 400 | 120 | | | | Clear-Refrigerator, 12-Lamp Tray | |
| | S14 | Med | 15 | 42590 15S14/FBB | 34 | 120 | C-9 | 3.5 | 2.5 | 1000 | 144 | | | | | Frost-Locomotive Cab | | |
| | | | | 11137 15S14/GR/CL/8 | 130 | 120 | C-9 | 3.5 | 2.5 | 8000 | 90 | | | | | Clear-Sign. Group Replacement | | |
| | | | | T6 | Cand | 15 | 13390 15T6 | 120 | 60 | C-7A | 3.06 | 1.56 | 2000 | 107 | | | | Clear-Exit |
| | T6 | Cand | 15 | 13402 15T6 | 145 | 60 | C-7A | 3.06 | 1.56 | 1500 | 102 | | | | | Clear-Exit | | |
| | | | | 22114 15T6C-CD | 145 | 120 | C-7A | 3.06 | 1.56 | 1500 | 102 | | | | | Clear-Exit. Blister Card | | |
| | | | | T7 | Cand | 17 | 13494 15T7C | 120 | 120 | C-7A | 2.25 | 1.5 | 3000 | 100 | | | | Clear-Signal Light. Appliance |
| | T7 | DC Bay | 17 | 35154 15T7DC CARD | 120 | 240 | C-7A | 2.25 | 1.31 | | 100 | | | | | Clear-Appliance, 12-Pack | | |
| | | | | Inter | 17 | 35153 15T7N CARD | 120 | 240 | C-7A | 2.25 | 1.56 | | 100 | | | | Clear-Appliance | |
| | T10 | Med | 15 | 34407 15T10 24PK | 120 | 24 | C-8 | 5.62 | | 2500 | 120 | | | | | Clear-Aquarium | | |
| 15/135/150 WATTS | | | | | | | | | | | | | | | | | | |
| | A21 | 3C Med | 15 | 23068 15/150/SECURITY 12PK | 120 | 60 | C-2R | 5.25 | 3.87 | 1200 | 75 | | | | 2B, 9C, 9J | Security 3-Way, Soft White | | |
| | | | | 135 | | | | 120 | CC-8 | | | | | | | | | |
| | | | | 150 | | | | 120 | | | | | | | | | | |
| 18 WATTS | | | | | | | | | | | | | | | | | | |
| | S11 | SC Bay | 18 | 13655 18S11/1SC | 10 | 120 | CC-6 | 2.37 | 1.25 | 2000 | 200 | | | | | Clear-Railway Signal Light | | |
| | | | | 13659 18/3 1/2S11SC | 10 | 120 | CC-6 | 2.37 | 1.25 | 1000 | 300 | | | | | | Clear-Railway Signal Light. C-12 Filament in multiple | |
| 20 WATTS | | | | | | | | | | | | | | | | | | |
| | S11 | SC Bay | 20 | 19549 20S11/1SC | 10 | 120 | CC-6 | 2.37 | 1.25 | 3000 | | | | | | Railway Signal Light | | |
| | | | | T6.5 | DC Bay | 20 | 34241 20T61/2DC/F | 120 | 60 | C-8 | 5.56 | | 5000 | 90 | | | | Frost-Exit Light |
| | | | | Inter | 20 | 34272 20T61/2/F | 120 | 60 | C-8 | 5.5 | | 7000 | 90 | | | | | Frost-Exit Light |
| 21.5 WATTS | | | | | | | | | | | | | | | | | | |
| | A15 | 2-Lug Slv | 21.5 | 13644 18/3 5A15/5 | 10 | 120 | CC-6 | 3.75 | 2.21 | 1500 | 235 | | | | | Clear-Railway Signal Light CC-6 Filament in multiple, 2-Lug Base | | |
| 25 WATTS | | | | | | | | | | | | | | | | | | |
| | A15 | Med | 25 | 13744 25A15/RS | 75 | 120 | C-9 | 3.46 | 2.5 | 1000 | 250 | | | | 5A | I.F.-Train. Rough Service | | |












Incandescent Lamps

| Shape | Base | Order Watts | Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information | | |
|---------------------------------------|---------------|-------------|-------|-----------------|---------|--------------|-----------------|------|------|------------------|----------------|---------------|-------|-------------|-----------|------------------------------------|----------------------------------|----------------------------|
| INCANDESCENT LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | |
| 25 WATTS (CONTINUED) | | | | | | | | | | | | | | | | | | |
| | Med | 25 | 13769 | 25A | 12 | 120 | C-6 | 3.87 | 2.56 | 1000 | 378 | | | | 5A | Inside Frost | | |
| | | | 13784 | 25A | 34 | 120 | C-9 | 3.87 | 2.56 | 1000 | 390 | | | | | 5A | I.F.-Train | |
| | | | 15064 | 25A/CL 24PK | 120 | 120 | CC-6 | 4.25 | 2.5 | 2500 | 215 | | | | | | | Clear |
| | | | 16553 | 25A/TG-CD1 3PK | 120 | 12 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Green-Party Light |
| | | | 16555 | 25A/TR-CD1 3PK | 120 | 12 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Red-Party Light |
| | | | 47625 | 25A/TB-CD1 3PK | 120 | 12 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Blue-Party Light |
| | | | 16333 | 25A/TP-CD 6PK | 120 | 24 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Purple-Party Light |
| | | | 47627 | 25A/TPK-CD1 3PK | 120 | 12 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Pink-Party Light |
| | | | 16335 | 25A/TY-CD 6PK | 120 | 24 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Yellow-Party Light |
| | | | 22730 | 25A/TPK 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Pink-Party Light |
| | | | 22731 | 25A/TP 6 PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Purple-Party Light |
| | | | 22732 | 25A/TE 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Teal-Party Light |
| | | | 33486 | 25A/RS 24PK | 120 | 24 | C-17 | 3.87 | 2.56 | 1000 | 190 | | | | | | 2A, 5E | I.F.-Rough Service |
| | | | 37577 | 25A/B 24PK | 120 | 24 | C-9 | 3.87 | 2.37 | 2500 | | | | | | | | Blue |
| | | | 37578 | 25A/G 24PK | 120 | 24 | C-9 | 3.87 | 2.37 | 2500 | | | | | | | | Green |
| | | | 37579 | 25A/R 24PK | 120 | 24 | C-9 | 3.87 | 2.37 | 2500 | | | | | | | | Red |
| | | | 37793 | 25A/Y 24PK | 120 | 24 | C-9 | 3.87 | 2.37 | 2500 | | | | | | | | Yellow |
| | | | 40320 | 25A/O-24PK | 120 | 24 | C-9 | 3.87 | 2.37 | 2500 | | | | | | | | Orange |
| | | | 41272 | 25A/W 24PK | 120 | 120 | CC-6 | 4.25 | 2.5 | 2500 | 210 | | | | | | | Soft White |
| | | | 46645 | 25A/SG CD/PQ1/5 | 120 | 25 | CC-6 | 4.25 | 2.5 | 1500 | | | | | | | | Stained Glass |
| | | | 49724 | 25A/TB 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Blue-Party Light |
| | | | 49725 | 25A/TG 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Green-Party Light |
| | | | 49727 | 25A/TR 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Red-Party Light |
| | | | 49728 | 25A/TY 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | | | | Transp. Yellow-Party Light |
| | | | 13992 | 25A/CL | 130 | 120 | CC-6 | 4.25 | 2.5 | 2500 | 215 | | | | | | | Clear |
| | | | 35613 | 25A | 130 | 120 | CC-6 | 4.25 | 2.5 | 2500 | 215 | | | | | | | Inside Frost |
| | | | 13879 | 25A | 250 | 120 | C-17A | 3.87 | 2.56 | 1000 | 220 | | | | | | 5A | Inside Frost |
| | | | | Scrw Term | 25 | 14553 | 25PAR36 | 6 | 12 | C-6 | 2.75 | | 1000 | 130 | 3000 | 19700 | 5 | |
| 14554 | 25PAR36/NSP | 12 | | | | 12 | C-6 | 2.75 | | 2000 | 150 | | | 2600 | 9 | | Narrow Spot-Filament Shield | |
| 14555 | 25PAR 36WFL | 12 | | | | 12 | C-6 | 2.75 | | 2000 | 150 | | | | 360 | | Wide Flood-Filament Shield | |
| 14556 | 25 PAR36 VWFL | 12 | | | | 12 | C-6 | 2.75 | | 2000 | 150 | | | | 160 | 55 | Very Wide Flood. Filament Shield | |
| | PAR46 | Scrw Term | 25 | 14562 | 25PAR46 | 6 | 12 | C-6 | 3.75 | 1000 | 140 | | 55000 | | | Pin Spot. Filament Shield | | |
| | Inter | 25 | 39156 | 25R14N | 120 | 120 | CC-2V | 2.56 | | 1500 | | | | | 5E | Reflector-Light Inside Frost | | |
| | | | 18230 | 25R14N | 130 | 120 | CC-2V | 2.56 | | 1500 | | | | | | 5E | Reflector-Light Inside Frost | |
| | SC Bay | 25 | 33405 | 25R14SC/SP | 12 | 120 | CC-8 | 2.62 | | 2000 | | | | | | Reflector Spot, Light I.F. | | |
| | Cand | 25 | 14585 | 25S11/2C | 120 | 120 | C-7A | 2.25 | 1.43 | 500 | 260 | | | | | Clear-Medical Spot | | |
| | | | 14594 | 25S11/5C | 120 | 120 | C-7A | 2.25 | 1.56 | 500 | 260 | | | | | | Reprographic-Frost. Printer | |
| | SC Bay | 25 | 14575 | 25S11/4SC | 10 | 120 | CC-6 | 2.37 | 1.25 | 1000 | 360 | | | | | Clear-Railway Signal Light | | |
| | DC Bay | 25 | 14676 | 25T6 1/2DC | 120 | 60 | C-8 | 5.56 | | 1000 | 220 | | | | | Clear-Appliance. Scale Illuminator | | |
| | | | 14678 | 25T61/2/DC | 130 | 60 | C-8 | 5.56 | | 1000 | 244 | | | | | Clear-Appliance. Scale Illuminator | | |
| | | | 14685 | 25T61/2DC/F | 130 | 60 | C-8 | 5.56 | | 1000 | 240 | | | | | Frost-Appliance Scale Illuminator | | |
| | Inter | 25 | 14639 | 25T6 1/2 | 120 | 60 | C-8 | 5.5 | | 1000 | 220 | | | | | Clear-Showcase | | |
| | | | 14641 | 25T61/2 | 130 | 60 | C-8 | 5.5 | | 1000 | 244 | | | | | Clear-Showcase | | |
| | | | 14668 | 25T61/2/F | 130 | 60 | C-8 | 5.5 | | 1000 | 240 | | | | | Frost-Showcase | | |
| | DC Bay | 25 | 14741 | 25T7DC | 120 | 60 | C-7A | 2.25 | 1.31 | 200 | 195 | | | | | Clear-Appliance | | |
| | | | Inter | 25 | 10692 | 25T7N-CD 6PK | 120 | 240 | C-7A | 2.25 | 1.56 | 200 | 195 | | | | Clear-Appliance | |
| | | | | 14791 | 25T7N | 120 | 60 | C-7A | 2.25 | 1.56 | 200 | 195 | | | | Clear-Appliance | | |
| | Cand | 25 | 14809 | 25T8C | 120 | 60 | C-7A | 2.62 | 1.5 | 200 | 195 | | | | | Clear-Microwave | | |
| | | | Med | 25 | 14880 | 25T10 24PK | 120 | 192 | C-8 | 5.62 | | 1000 | 248 | | | | | Clear-Showcase |
| | | | | 14866 | 25T10 | 130 | 120 | C-8 | 5.62 | | 1000 | 248 | | | | Clear-Showcase | | |



Incandescent Lamps

| Shape | Base | Order Watts | Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|---|------|-------------|------|------------------------|------------------------|-----------|-----------------|-------|-------|------------------|----------------|---------------|------|-------------|------------|--|
| INCANDESCENT LAMPS (CONTINUED) | | | | | | | | | | | | | | | | |
| 27 WATTS | | | | | | | | | | | | | | | | |
|  | R20 | Med | 27 | 47681 27R20/SP/LLPQ1-6 | 120 | 30 | CC-6 | 3.93 | | 2500 | | | | | ⚡ | Long Life Reflector - Indoor Spotlight |
| 30 WATTS | | | | | | | | | | | | | | | | |
|  | A15 | Med | 30 | 14129 30A15 | 130 | 120 | C-9 | 3.5 | 2.37 | 5000 | 215 | | | | | I.F. Changing Message Sign |
| | | | | 15291 30A15/CL | 130 | 120 | C-9 | 3.5 | 2.37 | 5000 | 215 | | | | | Clear Changing Message Sign |
| | | | | 19358 30A15/8 | 130 | 120 | C-9 | 3.5 | 2.37 | 8000 | 180 | | | | | I.F. - Sign |
|  | R20 | Med | 30 | 14891 30R20/1-6PK | 120 | 30 | CC-6 | 3.93 | | 2000 | 200 | | | | | Indoor Reflector |
| | | | | 46848 30R20/1 | 130 | 30 | C-9 | 3.93 | | 2000 | 200 | | | | 5B, 9K | Indoor Reflector - Light I.F. |
| | | | | 46849 30R20/6 | 130 | 30 | C-9 | 3.93 | | 6000 | 145 | | | | 9D | Reflector - Light I.F. - Flashing Message Sign |
|  | S11 | DC Bay | 30 | 15012 30S11DC | 75 | 120 | C-7A | 2.37 | 1.25 | 500 | 350 | | | | 9D | Clear-Train Marker Control, BDTH |
| | | | | 17948 30S11DC/RS | 75 | 120 | C-9 | 2.37 | 1.25 | 2000 | 300 | | | | | Clear-Train |
|  | T8 | Disc | 30 | 15029 L30 | 120 | 24 | C-8 | 17.75 | | 1500 | 230 | | | | | Clear-Lumiline |
| | | | | 15071 L30/W | 120 | 24 | C-8 | 17.75 | | 1500 | 210 | | | | | White-Lumiline |
| 30/70/100 WATTS | | | | | | | | | | | | | | | | |
|  | A21 | 3C Med | 30 | 41273 30/100 12PK | 120 | 60 | C-2R | 5.25 | 3.87 | 1200 | 305 | | | | 2B, 9C, 9J | Soft White. 3-Way |
| | | | | 70 | 120 | | CC-8 | | | | 995 | | | | | |
| | | | | 100 | 120 | | | | | | 1300 | | | | | |
| | | | | 30 | 48711 30/100RVL PQ1/12 | 120 | 60 | C-2R | 5.25 | 3.875 | 1200 | 220 | | | 2B, 9C, 9J | Reveal® 3-Way |
| | | | | 70 | 120 | | | | | | 740 | | | | | |
| | | | | 100 | 120 | | | | | | 960 | | | | | |
| 33 WATTS | | | | | | | | | | | | | | | | |
|  | A19 | Med | 33 | 42626 33A19/5 | 130 | 120 | C-9 | 3.87 | | 2500 | 270 | | | | | Clear-Changing Message Sign. Group Replacement |
| 34 WATTS | | | | | | | | | | | | | | | | |
|  | A19 | Med | 34 | 12612 40A/34WM | 120 | 120 | CC-6 | 4.43 | 3.12 | 2000 | 380 | | | | ⚡ | Watt-Miser® - Diffuse Coating |
| | | | | 34 | 12620 40A/34WM | 130 | 120 | CC-6 | 4.43 | 3.12 | 2000 | 365 | | | ⚡ | Watt-Miser® - Diffuse Coating (Ratings @120 volts) |
| | | | | 30 | 120 | | | | | 5400 | 270 | | | | | |
| | | | | 34 | 13009 40A/34WMP/99 | 130 | 120 | CC-6 | 4.43 | 3.12 | 2500 | 360 | | | ⚡ | Watt-Miser® Plus-Diffuse Coating. Long Life, BB (Ratings @120 volts) |
| | | | | 30 | 120 | | | | | 6800 | 265 | | | | | |
| 40 WATTS | | | | | | | | | | | | | | | | |
|  | A15 | Med | 40 | 15199 40A15 | 120 | 120 | C-9 | 3.5 | 2.37 | 1500 | 415 | | | | | Clear-Appliance and Oven Service. Vibration Resistant |
| | | | | 15206 40A15 CARD 12PK | 120 | 60 | C-9 | 3.5 | 2.37 | 1500 | 415 | | | | | Clear-Appliance and Oven Service. Vibration Resistant |
| | | | | 20451 40A15/CF CD2 | 120 | 60 | C-9 | 3.5 | 2.37 | 1500 | 415 | | | | | Clear-Ceiling Fan. Vibration Resistant |
| | | | | 20452 40A15/W/CF CD2 | 120 | 60 | C-9 | 3.5 | 2.37 | 1500 | 355 | | | | | White-Ceiling Fan. Vibration Resistant |
| | | | | 21188 40A15 CD/2 | 120 | 60 | C-9 | 3.5 | 2.37 | 1500 | 415 | | | | | Clear-Appliance and Oven Service. Vibration Resistant |
| | | | | 27451 40A15/F 120PK | 120 | 120 | C-9 | 3.5 | 2.37 | 1500 | 355 | | | | | Frosted-Appliance and Oven Service. Vibration Resistant. |
| | | | | 27495 40A15/F/CD | 120 | 60 | C-9 | 3.5 | 2.37 | 1500 | 355 | | | | | Frosted-Appliance and Oven Service. Vibration Resistant. |
| | | | | 45729 40A15/F CD2 | 120 | 60 | C-9 | 3.5 | 2.37 | 1500 | 355 | | | | | Frosted-Appliance and Oven Service. Vibration Resistant. |
| | | | | 46887 40A15CF/STG CD2 | 120 | 30 | | 3.5 | 2.37 | 1500 | 400 | | | | | Clear, Saf-T-Gard®, Ceiling Fan |
| | | | | 48696 40A15/CF/RVL CD2 | 120 | 30 | C-9 | 3.5 | 2.375 | 1500 | 320 | | | | | Reveal® Clear-Ceiling Fan. Vibration Resistant |
| | | | | 48697 40A15WCF/RVL CD2 | 120 | 30 | C-9 | 3.5 | 2.375 | 1500 | 260 | | | | | Reveal® White-Ceiling Fan. Vibration Resistant |
| | | | | 48706 40A15/RVL CD2 | 120 | 30 | C-9 | 3.5 | 2.375 | 1500 | 320 | | | | | Reveal® Clear-Appliance and Oven Service. Vibration Resistant. |



Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|---------------------------------------|-----------------|------------------|------------------|----------|--------------|-----------------|-------|-------|------------------|----------------|---------------|------|--------------------------------------|---|------------------------|
| INCANDESCENT LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| 40 WATTS (CONTINUED) | | | | | | | | | | | | | | | |
| | Med | 40 12311 | 40A/CL 24PK | 120 | 120 | CC-6 | 4.43 | 3.12 | 1500 | 480 | | | | | Crystal |
| | | 13255 | 40A 48PK | 120 | 144 | CC-6 | 4.43 | 3.12 | 1000 | 505 | | | | | Standard |
| | | 13257 | 40A/W 48PK | 120 | 144 | CC-6 | 4.43 | 3.12 | 1000 | 490 | | | | | Soft White |
| | | 48687 | 40A/RVL 48PK | 120 | 144 | CC-6 | 4.43 | 3.12 | 1000 | 360 | | | | | Reveal® Soft White |
| | | 81869 | 40A/CL/RVL 24PK | 120 | 120 | CC-6 | 4.43 | 3.12 | 1000 | 370 | | | | | Reveal® Clear |
| | | 40 34034 | 40A | 130 | 120 | CC-6 | 4.43 | 3.125 | 1000 | 495 | | | | | Inside Frost |
| | | 36 | | 120 | | | | | 2600 | 365 | | | | | (Ratings @ 120 volts.) |
| 40 34125 | 40A/CL | 130 | 120 | CC-6 | 4.43 | 3.12 | 1500 | 480 | | | | | Clear | | |
| 36 | | 120 | | | | | 4000 | 345 | | | | | (Ratings @ 120 volts.) | | |
| 40 40323 | 40A/S-130V-24PK | 130 | 24 | C-9 | 4.43 | 3.12 | 3000 | 330 | | | | | Survivor™ LongLife, I.F., Vibration | | |
| 36 | | 120 | | | | | 5500 | 245 | | | | | Resistant, BB (Ratings @ 120 volts.) | | |
| A21 | Med | 40 15554 | 40A/TS | 130 | 120 | C-9 | 4.37 | 2.43 | 2000 | 380 | | | 9D | Clear-Traffic Signal, BDTH | |
| R14 | Inter | 40 25777 | 40R14/N/CD | 120 | 30 | CC-2V | 2.68 | | 1500 | | | | | Indoor Reflector | |
| | Med | 40 25776 | 40R14/CD | 120 | 30 | CC-2V | 2.18 | | 1500 | | | | | Indoor Reflector | |
| R16 | Med | 40 25781 | 40R16/CD | 120 | 30 | CC-6 | 3.37 | | 1500 | | | | | Indoor Reflector | |
| S11 | Inter | 40 15734 | 40S11N1/F | 120 | 120 | C-9 | 2.31 | 1.62 | 500 | 440 | | | 2G, 5E | Frost | |
| | | 35156 | 40S11N1/CD 12PK | 120 | 240 | C-9 | 2.31 | 1.62 | 500 | 440 | | | 2G, 5E | Clear-12-Card Pack | |
| T6.5 | Inter | 40 15740 | 40T6 1/2/2 | 120 | 60 | C-8 | 5.5 | | 750 | 420 | | | | Clear-Refrigerator | |
| | | 15742 | 40T6 1/2/2F | 120 | 60 | C-8 | 5.5 | | 750 | 420 | | | | Frost-Appliance | |
| T8 | Disc | 40 15804 | L40 | 120 | 24 | C-8 | 11.75 | | 1500 | 325 | | | | Clear-Lumiline | |
| | | 15839 | L40/W | 120 | 12 | C-8 | 11.75 | | 1500 | 295 | | | | White-Lumiline | |
| | Med | 40 15754 | 40T8 | 120 | 24 | C-23 | 11.75 | | 1000 | 430 | | | | Clear-Showcase | |
| T10 | Med | 40 15852 | 40T10 | 120 | 120 | C-8 | 5.62 | | 1000 | 420 | | | | Clear-Showcase | |
| | | 15892 | 40T10/F | 120 | 120 | C-8 | 5.62 | | 1000 | 415 | | | | Frost-Showcase | |
| | | 15854 | 40T10 | 130 | 120 | C-8 | 5.62 | | 1000 | 420 | | | | Clear-Showcase | |
| 45 WATTS | | | | | | | | | | | | | | | |
| | Med | 45 20330 | 45R/FL/MI/1 6PK | 120 | 30 | CC-6 | 5.37 | | 2000 | 485 | | 300 | ↘ 2A, 5E, 9K | Reflector Flood | |
| | | 26804 | 45R30/FL/LL | 120 | 30 | CC-6 | 5.37 | | 2500 | 450 | | | ↘ 2A, 5E, 9K | Reflector Flood-Long Life | |
| R20 | Med | 45 47682 | 45R20/SP/LLPQ1-6 | 120 | 30 | CC-6 | 3.31 | | 2500 | | | | ↘ 2A, 5E, 9K | Long Life Indoor Spotlight | |
| 50 WATTS | | | | | | | | | | | | | | | |
| | Med | 50 16201 | 50A19/RS | 75 | 120 | C-9 | 3.87 | 2.5 | 1000 | 545 | | | 2A, 5A | I.F.-Rough Service, Train | |
| | | 14727 | 50A/RS/CVG 24PK | 120 | 24 | C-17A | 3.87 | 2.56 | 1000 | 480 | | | 2A, 9L, 9M | Inside Frost-covRguard® Rough Service, BB, Teflon® Coated | |
| | | 33495 | 50A/RS 24PK | 120 | 24 | C-17A | 3.87 | 2.56 | 1000 | 490 | | | 2A, 5E | I.F.-Rough Service | |
| | | 15995 | 50A | 250 | 120 | C-17A | 3.87 | 2.56 | 1000 | 490 | | | | | Inside Frost |
| | | 16147 | 50A/RS | 250 | 120 | C-22 | 3.87 | 2.56 | 1000 | 470 | | | 2A, 5E | I.F.-Rough Service | |
| | | 16317 | 50A19 | 300 | 120 | C-17A | 3.87 | 2.56 | 1000 | 460 | | | | | Inside Frost |
| | | A21 | Med | 50 10686 | 50A21/RV 6PK | 12 | 48 | C-6 | 4.87 | 3.43 | 1000 | 875 | | | 5A |
| | | 16366 | 50A21 | 12 | 120 | C-6 | 4.87 | 3.43 | 1000 | 875 | | | 5A | Inside Frost | |
| | | 16385 | 50A21 | 30 | 120 | C-9 | 4.87 | 3.43 | 1000 | 805 | | | 5A | I.F.-Train | |
| | | 16390 | 50A21 | 34 | 120 | C-9 | 4.87 | 3.43 | 1000 | 805 | | | 5A | I.F.-Train | |
| | Med | 50 44429 | 50ER30 | 120 | 24 | CC-6 | 6.25 | | 2000 | 525 | | 690 | 2A, 2B, 5E | Elliptical Reflector, Light I.F. | |
| | | 47878 | 50ER30/PK | 120 | 24 | CC-6 | 6.25 | | 2000 | 480 | | | 2A, 2B, 5E | Elliptical Reflector-Pink | |
| | | 11823 | 50ER30 | 130 | 24 | CC-6 | 6.25 | | 1500 | 525 | | 690 | 2A, 2B, 5E | Elliptical Reflector, Light I.F. | |
| P25 | 3C Mog | 50 16535 | 50/50P25/28 | 120 | 60 | C-5 C-9 | 5.06 | 3.31 | 750 | 400 | | | | Clear-2-filament Marine Running Light, BB | |



Incandescent Lamps

| Shape | Base | Order Watts | Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|-------|------|-------------|------|-------------|-------|-----------|-----------------|-----|-----|------------------|----------------|---------------|------|-------------|-----------|------------------------|
|-------|------|-------------|------|-------------|-------|-----------|-----------------|-----|-----|------------------|----------------|---------------|------|-------------|-----------|------------------------|

INCANDESCENT LAMPS (CONTINUED)

50 WATTS (CONTINUED)

| | | | | | | | | | | | | | | | | | | |
|--|-------|------|------|----------|-----------------|-----|----|------------|------|------|-----|-----|-------|----|------------|---|-----------------------------------|--|
| | PAR36 | Scrw | Term | 50 11468 | 50PAR36WFL/4 | 12 | 12 | C-6 | 2.75 | 4000 | 300 | | 720 | | | Wide Flood, Filament Shield | | |
| | | | | 12892 | 50PAR36VNSP | 12 | 12 | C-6 | 2.75 | 2000 | 330 | | 19000 | 6 | | | Very Narrow Spot, Filament Shield | |
| | | | | 16540 | 50PAR36/NSP | 12 | 12 | C-6 | 2.75 | 2000 | 330 | | 11000 | 10 | | | Narrow Spot, Filament Shield | |
| | | | | 16541 | 50 PAR 36 WFL | 12 | 12 | C-6 | 2.75 | 2000 | 330 | | 900 | | | | Wide Flood, Filament Shield | |
| | | | | 16542 | 50 PAR 36 VWFL | 12 | 12 | C-6 | 2.75 | 2000 | 330 | | 600 | 55 | | | Very Wide Flood, Filament Shield | |
| | R20 | Med | 50 | 14888 | 50R20/PL/1 6PK | 120 | 30 | CC-6 | 3.93 | 2000 | | | | | 2A, 5E, 9K | Reflector Plant Light | | |
| | | | | 14896 | 50R20/1 6PK | 120 | 30 | CC-6 | 3.93 | 2000 | 410 | | 510 | | | 2A, 5E, 9K | Reflector-I.F. | |
| | | | | 20368 | 50R20/TWIN | 120 | 30 | CC-6 | 3.93 | 2000 | 410 | | 510 | | | 2A, 5E, 9K | Reflector Twin Pk. | |
| | | | | 22752 | 50R20/BLB 6PK | 120 | 6 | CC-6 | 3.93 | 1000 | | | | | | 2A, 2F, 5B, 7A, 7C, 9K | Blacklight Reflector | |
| | | | | 46854 | 50R20/HP/1 | 120 | | CC-6 | 3.93 | 2000 | | | | | | | | Reflector, Hot Pink |
| | | | | 48691 | 50R20/RVL PQ1/6 | 120 | 30 | CC-6 | 3.93 | 2000 | | | | | | | | Reveal® |
| | | | | 46851 | 50R20/1 | 130 | 30 | CC-6 | 3.93 | 2000 | 410 | | 510 | | | | | Indoor Reflector - Light I.F. |
| | | | | 46852 | 50R20/6 | 130 | 30 | C-9 | 3.93 | 6000 | 400 | | | | | | | Reflector - Light I.F. - Flashing Message Sign |
| | | | | 46853 | 50R20/PK/1 | 130 | 30 | CC-6 | 3.93 | 2000 | | | | | | | | Indoor Reflector - Pink |
| | | | | 48038 | 50R20/FUS | 130 | 30 | CC-6 | 3.93 | 2000 | | | | | | | | Reflector, Fusia |
| | T12 | 3C | Med | 50 16726 | 50/50T12 | 115 | 24 | C-5 C-9 | 5.31 | 3 | 750 | 400 | | | | Clear-2-filament Marine Running Light, BB | | |

50/100/150 WATTS

| | | | | | | | | | | | | | | | | | | |
|----------|------------------|-----|-----|----------|------------------|-------|------|------|------|------|------|-----|------------|---------------|------------|-------------------------|------------|--------------------------------|
| | A21 | 3C | Med | 50 14057 | 50/150/SSW 12PK | 120 | 60 | CC-8 | 5.25 | 3.87 | 1200 | 650 | | | 2B, 9C, 9J | Super Soft White, 3-Way | | |
| | | | | 100 | | | | | | | | | 1550 | | | | | |
| | | | | 150 | | | | | | | | | | 2200 | | | | |
| | | | | 50 22886 | 50/150A/RL/SW6PK | 120 | 30 | CC-8 | 5.25 | 3.87 | 1000 | 495 | | | | | 2B, 9C, 9J | Soft White-Reader Light™ 3-Way |
| | | | | 100 | | | | | | | | | | 1425 | | | | |
| | | | | 150 | | | | | | | | | | 1920 | | | | |
| | | | | 50 41280 | 50/150 12PK | 120 | 60 | CC-8 | 5.25 | 3.87 | 1200 | 615 | | | | | 2B, 9C, 9J | Soft White, 3-Way |
| | | | | 100 | | | | | | | | | | 1540 | | | | |
| | | | | 150 | | | | | | | | | | 2155 | | | | |
| | | | | 50 41362 | 50/150 TWIN 6PK | 120 | 30 | CC-8 | 5.25 | 3.87 | 1200 | 615 | | | | | 2B, 9C, 9J | |
| | | | | 100 | | | | | | | | | | 1540 | | | | |
| | | | | 150 | | | | | | | | | | 2155 | | | | |
| 50 48712 | 50/150RVL PQ1/12 | 120 | 60 | CC-8 | 5.25 | 3.875 | 1200 | 450 | | | | | 2B, 9C, 9J | Reveal® 3-Way | | | | |
| 100 | | | | | | | | | | 1150 | | | | | | | | |
| 150 | | | | | | | | | | 1600 | | | | | | | | |

50/200/250 WATTS

| | | | | | | | | | | | | | | | | |
|--|-----|----|-----|----------|---------------|-----|----|------|------|------|------|-----|------|--|------------|-------------------|
| | A21 | 3C | Med | 50 19445 | 50/250/1 12PK | 120 | 60 | CC-8 | 5.25 | 3.87 | 1200 | 620 | | | 2B, 9C, 9J | Soft White, 3-Way |
| | | | | 200 | | | | | | | | | 3335 | | | |
| | | | | 250 | | | | | | | | | 3955 | | | |

52 WATTS









| | | | | | | | | | | | | | | | | | |
|----------|--------------|-----|----------|--------------|------|------|------|------|------|------|-----|------|-----|--|------------------------|-----------------------------|--|
| | A19 | Med | 52 12615 | 60A/52WWM | 120 | 120 | CC-8 | 4.43 | 3.12 | 1330 | 730 | | | | | Watt-Miser®-Diffuse Coating | |
| | | | 52 12623 | 60A/52WWM | 130 | 120 | CC-8 | 4.43 | 3.12 | 1000 | 710 | | | | | | Watt-Miser®-Diffuse Coating |
| | | | 46 | | 120 | | | | | | | 2600 | 530 | | | | (Ratings @ 120 volts.) |
| | | | 52 13012 | 60A/52WMP/99 | 130 | 120 | CC-8 | 4.43 | 3.12 | 2500 | 640 | | | | | | Watt-Miser® Plus, Diffuse Coating, LongLife, BB (Ratings @ 120 volts.) |
| 46 | | 120 | | | | | | | 6800 | 480 | | | | | | | |
| 52 13555 | 60A/52WWM/CL | 130 | 120 | CC-8 | 4.43 | 3.12 | 1000 | 720 | | | | | | | Watt-Miser®-Clear | | |
| 46 | | 120 | | | | | | | 2600 | 540 | | | | | (Ratings @ 120 volts.) | | |

54 WATTS

| | | | | | | | | | | | | | | | | |
|--|-----|-----|----------|----------------|-----|-------|------|------|------|-----|--|--|--|--|--|---|
| | A21 | Med | 54 17960 | 60A21/54WWM/TS | 120 | C-11V | 4.37 | 2.43 | 8000 | 530 | | | | | | Watt-Miser®, Clear-Traffic Signal, Burn BDTH, BB, Krypton |
| | | | 17961 | 60A21/54WWM/TS | 120 | C-11V | 4.37 | 2.43 | 8000 | 530 | | | | | | |



Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|--|------|------------------|--------------------------|-------|-----------|-----------------|-------|-------|------------------|----------------|---------------|------|------------------------|-----------|---|
| INCANDESCENT LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| 55 WATTS | | | | | | | | | | | | | | | |
|  | A19 | Med | 55 11904 55A/SW/MI 48PK | 120 | 144 | CC-8 | 4.43 | 3.12 | 1000 | 800 | | | | | Soft White, Miser® |
| 60 WATTS | | | | | | | | | | | | | | | |
|  | A15 | Med | 60 14029 60A15/W/CF-CD2 | 120 | 60 | C-9 | 3.5 | 2.37 | 1500 | 650 | | | | | White, Ceiling-Fan, Vibration-Resistant |
| | | | 17759 60A15/CF CD2 | 120 | 60 | C-9 | 3.5 | 2.37 | 1500 | 650 | | | | | Clear-Ceiling Fan and Appliance, Vibration Resistant |
| | | | 46888 60A15CF/STGPQ2/6 | 120 | 30 | C-9 | 3.5 | 2.37 | 1500 | 650 | | | | | Ceiling Fan Saf-T-Gard® |
| | | | 48698 60A15/CF/RVL CD2 | 120 | 30 | C-9 | 3.5 | 2.375 | 1500 | 480 | | | | | Reveal® Clear-Ceiling Fan, Vibration Resistant |
|  | A19 | Med | 60 14052 60A/SSW-24PK | 120 | 120 | CC-8 | 4.43 | 3.12 | 1000 | 840 | | | | | Super Soft - Soft White |
| | | | 14414 60A/CSVG 24PK | 120 | 24 | CC-6 | 4.43 | 3.12 | 1000 | 850 | | | | | Inside Frost-covRguard®, Teflon® Coated |
| | | | 16364 60A/BLB-CD | 120 | 24 | C-9 | 4.43 | | 1000 | | | | | | Black Light; Carded |
| | | | 20326 60A/SPK 24PK | 120 | 120 | CC-6 | 4.43 | 3.12 | 1000 | 675 | | | | | Soft Pink |
| | | | 22361 60A/COMM 24PK | 120 | 24 | CC-6 | 4.43 | 3.12 | 1000 | 855 | | | | | Inside Frost |
| | | | 22384 60A/GD 24PK | 120 | 24 | C-9 | 4.43 | 3.12 | 3000 | 635 | | | | | Light I.F.-Garage Door, Vibration Resistant |
| | | | 23097 60A/GD CD | 120 | 24 | C-9 | 4.43 | 3.12 | 3000 | 635 | | | | | Light I.F. Garage Door, Vibration Resistant, Carded |
| | | | 25905 60A/BLB 6PK | 120 | 30 | C-9 | 4.43 | | 1000 | | | | 2A, 2F, 5B, 7A, 7C, 9K | | Black Light |
| | | | 39322 60A/CL 24PK | 120 | 120 | CC-6 | 4.43 | 3.12 | 1000 | 870 | | | | | Clear |
| | | | 40324 60A/S-120V-24PK | 120 | 24 | C-9 | 4.43 | 3.12 | 3000 | 600 | | | | | Survivor™ LongLife I.F., Vibration Resistant, BB |
| | | | 41026 60A 48PK | 120 | 144 | CC-6 | 4.43 | 3.12 | 1000 | 865 | | | | | Standard |
| | | | 41028 60A/W 48PK | 120 | 144 | CC-6 | 4.43 | 3.12 | 1000 | 840 | | | | | Soft White |
| | | | 41284 60A/Y 24PK | 120 | 120 | CC-6 | 4.43 | 3.12 | 1000 | 550 | | | | | Yellow Bug-Lite |
| | | | 41285 60A/W/LL 24PK | 120 | 120 | CC-6 | 4.43 | 3.12 | 1500 | 820 | | | | | Soft White-LongLife |
| | | | 41624 60A/PL 6PK | 120 | 30 | CC-6 | 4.43 | 3.12 | 1000 | 630 | | | 5E | | Plant Light |
| | | | 46845 60A/W/STG PQ2/10 | 120 | 100 | CC-6 | 4.43 | 3.12 | 1000 | 812 | | | | | Soft White Saf-T-Gard® |
| | | | 48688 60A/RVL 48PK | 120 | 144 | CC-8 | 4.43 | 3.12 | 1000 | 630 | | | | | Reveal® Soft White |
| | | | 81639 60A/CL/RVL 24PK | 120 | 120 | CC-6 | 4.43 | 3.12 | 1000 | 650 | | | | | Reveal® Clear |
| | | | 60 16783 60A | 130 | 120 | CC-6 | 4.43 | 3.12 | 1000 | 850 | | | | | Inside Frost |
| | | | 53 | 120 | | | | | 2600 | 640 | | | | | (Ratings @ 120 volts.) |
| | | | 60 40325 60A/S-130V-24PK | 130 | 24 | C-9 | 4.43 | 3.12 | 3000 | 600 | | | | | Survivor™ LongLife I.F., Vibration Resistant, BB (Ratings @ 120 volts.) |
| | | | 53 | 120 | | | | | 8300 | 460 | | | | | |
|  | A21 | Med | 60 17122 60A21 | 230 | 120 | C-17A | 4.37 | 2.75 | 1000 | 585 | | | | | Inside Frost |
| | | | 16997 60A21/B | 120 | 120 | C-9 | 4.87 | | 1000 | | | | 2B | | Blue |
| | | | 17027 60A21/R | 120 | 120 | C-9 | 4.87 | | 1000 | | | | 2B | | Red |
| | | | 17968 69A21/60WM/TS | | 120 | C-11V | 4.37 | 2.43 | 8000 | 610 | | | | | Watt-Miser®-Clear, Traffic Signal, Burn BDTH, BB |
| | | | 17969 69A21/60WM/TS | | 120 | C-11V | 4.37 | 2.43 | 8000 | 610 | | | | | Watt-Miser®-Clear, Traffic Signal, Burn BDTH, BB |
|  | R46 | Scrw Term | 60 17212 60PAR/2R | 38 | 12 | CC-2V | 3.75 | | 800 | | | | | | Red Lens-Train Warning |
|  | T8 | Disc | 60 17226 L60 | 120 | 24 | C-8 | 17.75 | | 1500 | 480 | | | | | Clear-Lumiline |
| | | | 17266 L60/W | 120 | 12 | C-8 | 17.75 | | 1500 | 450 | | | | | White-Lumiline |
|  | T10 | Med | 60 17292 60T10/64 24PK | 120 | 192 | C-8 | 5.62 | | 1000 | 740 | | | | | Clear-Showcase, BDTH |
| 65 WATTS | | | | | | | | | | | | | | | |
|  | BR30 | Med | 65 18011 65R/FL/MI/TWIN | 120 | 6 | CC-6 | 5.37 | | 2000 | 755 | | | 2A, 5E, 9K | | Reflector Flood Twin Pack |
| | | | 20331 65R/FL/MI/1 6PK | 120 | 30 | CC-6 | 5.37 | | 2000 | 755 | | | 2A, 5E, 9K | | Reflector Flood |
| | | | 20332 65R/SP/MI/1 6PK | 120 | 30 | CC-6 | 5.37 | | 2000 | 755 | | | 2A, 5E, 9K | | Reflector |
| | | | 20996 65R30/PL/1 6PK | 120 | 30 | CC-6 | 5.37 | | 2000 | | | | 2A, 5E, 9K | | Reflector -Plant Light, BB |
| | | | 22714 65R30/FL/COMM 12PK | 120 | 12 | CC-6 | 5.37 | | 2000 | 755 | | | 2A, 5E, 9K | | Reflector Flood 12 Pack |
| | | | 26641 65R30/FL/B | 120 | 30 | CC-6 | 5.37 | | 2000 | | | | 2A, 5E, 9K | | Reflector - Blue |



















Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information | | |
|---------------------------------------|-------|------------------|----------------------------|-------|-----------|-----------------|------|------|------------------|----------------|---------------|------|-------------|--------------------------------|---|----------------------------------|--|
| INCANDESCENT LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | |
| 65 WATTS (CONTINUED) | | | | | | | | | | | | | | | | | |
| | BR30 | Med | 65 26642 65R30/FL/G | 120 | 30 | CC-6 | 5.37 | | 2000 | | | | | 2A, 5E, 9K | Reflector - Green | | |
| | | | 26645 65R30/FL/Y | 120 | 30 | CC-6 | 5.37 | | | 2000 | | | | | 2A, 5E, 9K | Reflector - Yellow | |
| | | | 26803 65R30/FL/PK | 120 | 30 | CC-6 | 5.37 | | | 2000 | | | | | 2A, 5E, 9K | Reflector - Pink | |
| | | | 26805 65R30/FL/LL | 120 | 30 | CC-6 | 5.37 | | | 2500 | 725 | | | | 2A, 5E, 9K | Long Life Reflector - Flood | |
| | | | 26806 65R30/SP/LL | 120 | 30 | CC-6 | 5.37 | | | 2500 | 725 | | | | 2A, 5E, 9K | Long Life Reflector | |
| | | | 41837 65R30/SP/HP | 120 | 30 | CC-6 | 5.37 | | | 2000 | | | | | | | Indoor Reflector, Hot Pink |
| | | | 46858 65R30/FL/CVG | 120 | 30 | CC-6 | 5.37 | | | 2000 | | | | | | | Reflector - covRguard® Teflon® Coated |
| | | | 47723 65R30FL/STGPO1/6 | 120 | 30 | CC-6 | 5.37 | | | 2000 | | | | | | | Indoor Floodlight - Saf-T-Gard® |
| | | | 48692 65R/FL/RVL PQ1/6 | 120 | 30 | CC-6 | 5.37 | | | 2000 | | | | | | | Reveal® |
| | | | 46855 65R30/FL | 130 | 30 | CC-6 | 5.37 | | | 2000 | 725 | | | | | | Watt-Miser® - Reflector |
| 46856 65R30/SP | 130 | 30 | CC-6 | 5.37 | | | 2000 | 725 | | | | | | Watt-Miser® - Reflector | | | |
| 46857 65R30/FL/PK | 130 | 30 | CC-6 | 5.37 | | | 2000 | | | | | | | Watt-Miser® - Reflector - Pink | | | |
| 48039 65R30SP/FUS | 130 | 30 | CC-6 | 5.37 | | | 2000 | | | | | | | Indoor Reflector, Fusia | | | |
| | BR40 | Med | 65 14016 65R40/FL/MI 6PK | 120 | 30 | CC-6 | 6.56 | | 2000 | 730 | | | | 2A, 2B, 5E, 9K | Reflector Flood | | |
| | | | 47683 65R40/FL/LLPQ1-6 | 120 | 30 | CC-6 | 6.56 | | 2500 | | | | | 2A, 2B, 5E, 9K | Long Life Reflector - Indoor Floodlight | | |
| | | | 46861 65R40/FL | 130 | 30 | CC-6 | 6.56 | | 2000 | 700 | | | | | 2A, 2B, 5E, 9K | Watt-Miser® - Reflector - I.F. | |
| | | | 87904 65R40FL/RVL-TP6 | 120 | 30 | CC-6 | 6.56 | | 2000 | | | | | | 2A, 2B, 5E, 9K | Reveal® Reflector Flood | |
| | PAR38 | Med Sid Pr | 65 80314 75PAR/3FL/65WM | 120 | 12 | CC-6 | 4.3 | | 2000 | 675 | 2675 | 1750 | 30 | 1A, 2A, 2B | Compact Flood | | |
| | | | 80320 75PAR/3SP/65WM | 120 | 12 | CC-6 | 4.3 | | 2000 | 675 | 2675 | 5900 | 14 | 1A, 2A, 2B | Compact Reflector | | |
| 67 WATTS | | | | | | | | | | | | | | | | | |
| | A19 | Med | 67 12617 75A/67WM | 120 | 120 | CC-8 | 4.43 | 3.12 | 1000 | 1030 | | | | | Watt-Miser® - Diffuse Coating | | |
| | | | 67 12624 75A/67WM | 130 | 120 | CC-8 | 4.43 | 3.12 | 1000 | 1000 | | | | | Watt-Miser® - Diffuse Coating | | |
| | | | 60 | 120 | | | | | 2600 | 755 | | | | | | (Ratings @ 120 volts.) | |
| | | | 67 13018 75A/67WMP/99 | 130 | 120 | CC-8 | 4.43 | 3.12 | 2500 | 910 | | | | | | Watt-Miser® Plus-Diffuse Coating | |
| | A21 | Med | 60 | 120 | | | | 6800 | 685 | | | | | (Ratings @ 120 volts.) | | | |
| | | | 67 38551 67A21/TS | 120 | 120 | C-9 | 4.37 | 2.43 | 8000 | 635 | | | | | Clear-Traffic Signal, BDTH | | |
| | | | 38553 67A21/TS | 130 | 120 | C-9 | 4.37 | 2.43 | 8000 | 635 | | | | Clear-Traffic Signal, BDTH | | | |
| 69 WATTS | | | | | | | | | | | | | | | | | |
| | A21 | Med | 69 17323 69A21/TS | 120 | 120 | C-9 | 4.37 | 2.43 | 8000 | 675 | | | | | Clear-Traffic Signal, BDTH | | |
| | | | 17325 69A21/TS | 130 | 120 | C-9 | 4.37 | 2.43 | 8000 | 675 | | | | | Clear-Traffic Signal, BDTH | | |
| 70 WATTS | | | | | | | | | | | | | | | | | |
| | A19 | Med | 70 11905 70A/SW/MI 48PK | 120 | 144 | CC-8 | 4.43 | 3.12 | 750 | 1125 | | | | | Soft White, Miser® | | |
| 70/170/240 WATTS | | | | | | | | | | | | | | | | | |
| | A21 | 3C Med | 70 15846 80/250A/RL/SW 6PK | 120 | 30 | C-2R | 5.75 | 4.31 | 1000 | 800 | | | | 2B, 2I, 9J | Soft White- Reader Light™ 3-Way | | |
| | | | 170 | 120 | CC-8 | | | | 1000 | 2800 | | | | | | | |
| | | | 240 | 120 | | | | | 1000 | 3600 | | | | | | | |
| 75 WATTS | | | | | | | | | | | | | | | | | |
| | A19 | Med | 75 10428 75A/CL 24PK | 120 | 120 | CC-6 | 4.43 | 3.12 | 750 | 1200 | | | | | Clear | | |
| | | | 22364 75A/COMM 24PK | 120 | 24 | CC-6 | 4.43 | 3.12 | 750 | 1180 | | | | | | Inside Frost | |
| | | | 41030 75A 48PK | 120 | 144 | CC-6 | 4.43 | 3.12 | 750 | 1190 | | | | | | Standard | |
| | | | 41032 75A/W 48PK | 120 | 144 | CC-6 | 4.43 | 3.12 | 750 | 1170 | | | | | | Soft White | |
| | | | 41287 75A/W/LL 24PK | 120 | 120 | CC-6 | 4.43 | 3.12 | 1125 | 1125 | | | | | | Soft White-LongLife | |
| | | | 48689 75A/RVL 48PK | 120 | 144 | CC-8 | 4.43 | 3.12 | 750 | 830 | | | | | | Reveal® Soft White | |
| | | | 81870 75A/CL/RVL 24PK | 120 | 120 | CC-6 | 4.43 | 3.12 | 750 | 885 | | | | | | Reveal® Clear | |
| | | | 75 17347 75A | 130 | 120 | CC-6 | 4.43 | 3.12 | 750 | 1170 | | | | | | Inside Frost | |
| | | | 67 | 120 | | | | | 1950 | 885 | | | | | | | (Ratings @ 120 volts.) |
| | | | 75 40328 75A/S-130V-24PK | 130 | 24 | C-9 | 4.43 | 3.12 | 3000 | 815 | | | | | | | Survivor™ LongLife I.F. Vibration Resistant (Ratings @ 120 volts.) |
| 67 | 120 | | | | | 8300 | 615 | | | | | | | | | | |



Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|--|------------|--------------------------|-------------|-------|-----------|-----------------|-------|------|------------------|----------------|---------------|------|-------------|------------------------|---|
| INCANDESCENT LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| 75 WATTS (CONTINUED) | | | | | | | | | | | | | | | |
|  | Med | 75 17482 75A21 | | 12 | 120 | C-6 | 5.25 | 3.81 | 1000 | 1500 | | | | 5A | Inside Frost |
| | | 18274 75A/RS 12PK | | 120 | 60 | C-17 | 5.25 | 3.81 | 1000 | 750 | | | | 2A, 5E | I.F. Rough Service |
| | | 46895 75A/RS/STG PQ1/6 | | 120 | 30 | C-17 | 5.25 | 3.81 | 1000 | 740 | | | | | Rough Service, Saf-T-Gard® |
| | | 47263 75A/RS/CVG-6PK | | 120 | 30 | C-17 | 5.25 | 3.81 | 1000 | 740 | | | | | Inside Frost - covRguard® Rough Service, Teflon® Coated |
|  | Med | 75 17527 75A/RS 60PK | | 130 | 60 | C-17 | 5.25 | 3.81 | 1000 | 740 | | | | 2A, 5E | I.F. Rough Service |
| | | 67 | | 120 | | | | | 2600 | 560 | | | | 2A, 5E | (Ratings @ 120 volts) |
|  | Med Sid Pr | 75 37044 75ER30 | | 120 | 24 | CC-6 | 6.25 | | 2000 | 850 | | 1200 | | 2A, 2B, 5E | ER-Elliptical Reflector, Light I.F. |
| | | 42850 75ER30 | | 130 | 24 | CC-6 | 6.25 | | 2000 | 850 | | 1200 | | 2A, 2B, 5E | ER-Elliptical Reflector, Light I.F. |
|  | 3 Prong | 75 80319 75PAR/3SP/MINE | | 120 | 12 | CC-6 | 4.3 | | 2000 | 765 | 2725 | | | 1A, 2A, 2B, 9N | Mine Reflector |
| | | 80316 75PAR/3FL/MINE | | 120 | 12 | CC-6 | 4.3 | | 2000 | 765 | 2725 | 1750 | 33 | 1A, 2A, 2B, 9N | Mine Flood |
|  | Med | 75 36473 75PAR46/TS | | 120 | 12 | CC-6 | 3.87 | | 6000 | 700 | | | | | Traffic Signal |
|  | Med | 75 11320 75R20 6PK | | 120 | 60 | CC-6 | 3.93 | | 2000 | 650 | | | | 2A, 5E, 9K | Reflector , I.F. |
|  | Med | 75 22748 75R30/BLB 6PK | | 120 | 6 | C-9 | 5.37 | | 1000 | | | | | 2A, 2F, 5B, 7A, 7C, 9K | Reflector Black Light |
|  | Med | 75 17749 75T10/1 | | 120 | 24 | C-23 | 11.87 | | 1000 | 800 | | | | | Frost-Showcase |
| | | 17754 75T10/45 | | 120 | 24 | C-23 | 11.87 | | 1000 | 800 | | | | | Clear-Showcase |
| 85 WATTS | | | | | | | | | | | | | | | |
|  | Med Skirt | 85 20945 85PAR/FL/BG 6PK | | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | 1A, 2A, 2B | Yellow-Bug-Lite, BB |
| | | 13465 100PAR/B/85WM 6PK | | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | ↗ 1A, 2A, 2B | Powder Coated - Blue, BB |
| | | 13472 100PAR/R/85WM 6PK | | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | ↗ 1A, 2A, 2B | Powder Coated - Red, BB |
| | | 13473 100PAR/Y/85WM 6PK | | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | ↗ 1A, 2A, 2B | Powder Coated - Yellow, BB |
| | | 13474 100PAR/G/85WM 6PK | | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | ↗ 1A, 2A, 2B | Powder Coated - Green, BB |
| 88 WATTS | | | | | | | | | | | | | | | |
|  | Scrw Term | 88 39817 88PAR36/FL | | 75 | 12 | CC-6 | 2.75 | | 1500 | 810 | | | | | Projector-Train Warning |
| 90 WATTS | | | | | | | | | | | | | | | |
|  | Med | 90 12618 100A/90WVM | | 120 | 120 | CC-8 | 4.43 | 3.12 | 1000 | 1465 | | | | ↗ | Watt-Miser®-Diffuse Coating |
| | | 90 12625 100A/90WVM | | 130 | 120 | CC-8 | 4.43 | 3.12 | 1000 | 1440 | | | | ↗ | Watt-Miser®-Diffuse Coating |
| | | 80 | | 120 | | | | | 2600 | 1095 | | | | | (Ratings @ 120 volts.) |
|  | Med | 90 13023 100A/90WMP/99 | | 130 | 120 | CC-8 | 4.43 | 3.12 | 2500 | 1260 | | | | ↗ | Watt-Miser® Plus-Diffuse Coating. |
| | | 80 | | 120 | | | | | 6800 | 960 | | | | | LongLife, (Ratings @ 120 volts.) |
|  | Med | 90 17972 100A21/90WVM/TS | | 125 | 120 | C-11V | 4.37 | 2.43 | 8000 | 1040 | | | | ↗ | Watt-Miser®-Clear. Traffic Signal. Burn BDTH, Krypton |
|  | Med | 90 46870 90R40/FL | | 130 | 30 | CC-6 | 6.563 | | 2000 | 1050 | | | | ↗ | Watt-Miser® - Reflector - I.F. |
| | | 14017 90R40/FL/MI 6PK | | 120 | 30 | CC-6 | 6.56 | | 2000 | 1100 | | | | ↗ 2A, 2B, 5E, 9K | Reflector Flood |
| 95 WATTS | | | | | | | | | | | | | | | |
|  | Med | 95 11906 95A/SW/MI 48PK | | 120 | 144 | CC-8 | 4.43 | 3.12 | 750 | 1610 | | | | ↗ | Soft White Miser® |
| 100 WATTS | | | | | | | | | | | | | | | |
|  | Med | 100 14056 100A/SSW-24PK | | 120 | 120 | CC-8 | 4.43 | 3.12 | 750 | 1690 | | | | | Super Soft - Soft White |
| | | 17995 100A/LHT/IF | | 120 | 120 | CC-8 | 4.43 | 3.12 | 750 | 1710 | | | | | Inside Frost, Left-Hand Medium Base |
| | | 20328 100A/SPK 24PK | | 120 | 120 | CC-8 | 4.43 | 3.12 | 1000 | 1330 | | | | 2B | Soft Pink |
| | | 22366 100A/COMM 24PK | | 120 | 24 | CC-8 | 4.43 | 3.12 | 750 | 1690 | | | | | Inside Frost |
| | | 39321 100A/CL 24PK | | 120 | 120 | CC-8 | 4.43 | 3.12 | 750 | 1730 | | | | | Clear |
| | | 40329 100A/S-120V-24PK | | 120 | 24 | C-9 | 4.43 | 3.12 | 3000 | 1190 | | | | 2B | Survivor™-I.F., Long Life, Vibration Resistant BB |
| | | 41034 100A 48PK | | 120 | 144 | CC-8 | 4.43 | 3.12 | 750 | 1710 | | | | | Standard |
| | | 41036 100A/W 48PK | | 120 | 144 | CC-8 | 4.43 | 3.12 | 750 | 1690 | | | | | Soft White |
| | | 41289 100A/W/LL 24PK | | 120 | 120 | CC-8 | 4.43 | 3.12 | 1125 | 1600 | | | | | Soft White-Long Life |



Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information | | |
|---------------------------------------|--------|--|-------------|-------|-----------|-----------------|-------|------|------------------|----------------|---------------|------|-------------|----------------|---|---|------------------------|
| INCANDESCENT LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | |
| 100 WATTS (CONTINUED) | | | | | | | | | | | | | | | | | |
| | Med | 100 41291 100A/Y 24PK | | 120 | 120 | CC-8 | 4.43 | 3.12 | 1000 | 900 | | | | 2B | Bug-Lite | | |
| | | 46846 100A/W/STGPO2/10 | | 120 | 100 | CC-8 | 4.43 | 3.12 | 750 | 1624 | | | | | | Soft White Saf-T-Gard® | |
| | | 48690 100A/RVL 48PK | | 120 | 144 | CC-8 | 4.43 | 3.12 | 750 | 1260 | | | | | | Reveal® Soft White | |
| | | 81871 100A/CL/RVL 24PK | | 120 | 120 | CC-8 | 4.43 | 3.12 | 750 | 1300 | | | | | | Reveal® Clear | |
| | | 100 17933 100A | | 130 | 120 | CC-8 | 4.43 | 3.12 | 750 | 1680 | | | | | | Inside Frost | |
| | | 89 | | 120 | | | | 1950 | 1275 | | | | | | (Ratings @ 120 volts.) | | |
| | | 100 40330 100A/S-130V-24PK | | 130 | 24 | C-9 | 4.43 | 3.12 | 3000 | 1170 | | | | 2B | Survivor™-I.F., Long Life, Vibration | | |
| | | 89 | | 120 | | | | 8300 | 880 | | | | | 2B | Resistant, BB (Ratings @ 120 volts.) | | |
| | Med | 100 17525 100A21/SBIF 60PK | | 120 | 60 | CC-6 | 5.25 | 3.87 | 1000 | 1400 | | | | 2B | I.F. Silvered Bowl | | |
| | | 18275 100A/RS 12PK-5 | | 120 | 60 | C-17 | 5.25 | 3.81 | 1000 | 1160 | | | | 2A, 5E | I.F. Rough Service | | |
| | | 47261 100A/RS/STGPQ1/6 | | 120 | 30 | C-17 | 5.25 | 3.81 | 1000 | 1230 | | | | | | Rough Service - Saf-T-Gard® | |
| | | 47262 100A/RS/CVG-6PK | | 120 | 30 | C-17 | 5.25 | 3.81 | 1000 | 1230 | | | | | | I.F.-covrGuard® Rough Service, Teflon® Coated | |
| | | 18365 100A21/TS | | 130 | 120 | C-9 | 4.37 | 2.43 | 3000 | 1280 | | | | | | Clear-Traffic Signal. Rated Watts: 98. BDTH | |
| | | 100 17522 100A/RS 60PK | | 130 | 60 | C-17 | 5.25 | 3.81 | 1000 | 1060 | | | | | 2A, 5E | I.F. Rough Service | |
| | | | | 89 | | 120 | | | | 2600 | 800 | | | | | | (Ratings @ 120 volts.) |
| | | 100 18221 100A21 | | 130 | 60 | CC-6 | 5.25 | 3.87 | 750 | 1690 | | | | | | Inside Frost | |
| | | | | 89 | | 120 | | | | 1950 | 1285 | | | | | | (Ratings @ 120 volts.) |
| | | 100 21315 100A21/99 60PK | | 130 | 60 | CC-6 | 5.25 | 3.87 | 2500 | 1420 | | | | | | Diffuse Coating-Extended Service | |
| | | 89 | | 120 | | | | 6800 | 1080 | | | | | | (Ratings @ 120 volts.) | | |
| | Med | 100 18512 100A23 | | 12 | 120 | C-6 | 5.93 | 4.43 | 1000 | 1750 | | | | 5A | Inside Frost | | |
| | | 17904 100A | | 34 | 120 | C-9 | 5.93 | 4.43 | 1000 | 2160 | | | | 5A | I.F.-Train | | |
| | | 18449 100A23/IF | | 120 | 120 | CC-6 | 5.93 | 4.43 | 750 | 1600 | | | | | | Inside Frost | |
| | | 18542 100A23/20 | | 120 | 120 | CC-6 | 5.93 | 4.43 | 1000 | 1530 | | | | | | Clear-Commercial Oven | |
| | | 100 33456 100A23/VS | | 130 | 24 | C-9 | 5.93 | 4.43 | 1000 | 1340 | | | | | | I.F.-Vibration Service | |
| | | | | 89 | | 120 | | | | 2600 | 1020 | | | | | | (Ratings @ 120 volts.) |
| | DC Bay | 100 18721 100G16.5/29DC | | 120 | 60 | CC-13 | 3 | 1.37 | 120 | 1660 | | | | 5E, 9D | Clear Reflector. BDTH, BB | | |
| | | PAR38 Med Sid Pr 100 80323 100PAR38/FL | | 12 | 12 | C-6 | 4.3 | | 1000 | 1400 | | 2200 | 60 | 1A, 2A, 2B, 9N | PAR-Mine Flood | | |
| | Med | 100 39503 100R30/CL | | 12 | 24 | C-6 | 5.37 | | 2000 | 1200 | | | | 2B, 5A, 5E | Reflector-Clear, Swimming Pool, BB | | |
| 100/200/300 WATTS | | | | | | | | | | | | | | | | | |
| | 3C Mog | 100 41459 100/300 6PK | | 120 | 30 | CC-6 | 6.68 | 4.43 | 1200 | 1320 | | | | 2B, 9C, 9J | Soft White - 3-Way | | |
| | | 200 | | 120 | | CC-6 | | | 1500 | 3300 | | | | | | | |
| | | 100 | | 120 | | | | | | 4620 | | | | | | | |
| 110 WATTS | | | | | | | | | | | | | | | | | |
| | Med | 110 18980 110R30/FL/RS | | 120 | 24 | | | | | | | | | 2A, 5E, 9K | Reflector Flood. I.F. Rough Service, BB | | |
| | | 46859 110R30/FL/RS/1 | | 120 | 30 | C-17 | 5.375 | | 2000 | 1080 | | | | | | Reflector Flood. I.F. Rough Service | |
| 116 WATTS | | | | | | | | | | | | | | | | | |
| | Med | 116 19008 116A21/TS | | 120 | 120 | C-9 | 4.37 | 2.43 | 8000 | 1280 | | | | | Clear-Traffic Signal, BDTH | | |
| | | 19009 116A21/TS | | 125 | 120 | C-9 | 4.37 | 2.43 | 8000 | 1280 | | | | | Clear-Traffic Signal, BDTH | | |
| | | 19010 116A21/TS | | 130 | 120 | C-9 | 4.37 | 2.43 | 8000 | 1280 | | | | | Clear-Traffic Signal, BDTH | | |
| 120 WATTS | | | | | | | | | | | | | | | | | |
| | Med | 120 16241 120R40/FL-RVL | | 120 | 30 | CC-6 | 6.56 | | 2000 | | | | | | Indoor Floodlight: Reveal | | |
| | | 46875 120R40/FL/B | | 120 | 30 | CC-6 | 6.563 | | 2000 | | | 1450 | | | Watt-Miser® - Reflector - Blue | | |












Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information | |
|---------------------------------------|------------------|------------------|-------------------|-------|-----------|-----------------|-------|------|------------------|----------------|---------------|------|-------------|--|--|---------------------------------------|
| INCANDESCENT LAMPS (CONTINUED) | | | | | | | | | | | | | | | | |
| 120 WATTS (CONTINUED) | | | | | | | | | | | | | | | | |
| | Med | 120 46876 | 120R40/FL/PK | 120 | 30 | CC-6 | 6.563 | | 2000 | | | | 1450 | | Watt-Miser® - Reflector - Pink | |
| | | 20333 | 120R/FL/MI/1 6PK | 120 | 30 | CC-6 | 6.56 | | 2000 | 1600 | | | | 2A, 2B, 5E, 9K | Miser®-Reflector Flood | |
| | | 20334 | 120R/SP/MI/1 6PK | 120 | 30 | CC-6 | 6.56 | | 2000 | 1600 | | | | 2A, 2B, 5E, 9K | Reflector | |
| | | 20824 | 120R/FLMI/TWIN | 120 | 3 | CC-6 | 6.56 | | 2000 | 1600 | | | | 2A, 2B, 5E, 9K | Reflector Flood - Twin Pack | |
| | | 21000 | 120R40/PL-1 6PK | 120 | 30 | CC-6 | 6.56 | | 2000 | | | | | 2A, 2B, 5E, 9K | Reflector Plant Light, BB | |
| | | 22715 | 120R/FL/COMM 6PK | 120 | 30 | CC-6 | 6.56 | | 2000 | 1600 | | | | 2A, 2B, 5E, 9K | Watt-Miser® Reflector Flood IF | |
| | | 47684 | 120R40/FLLPQ1-6 | 120 | 30 | CC-6 | 6.56 | | 2500 | 1300 | | | | | | Indoor Floodlight - Long Life |
| | | 46871 | 120R40/FL | 130 | 30 | CC-6 | 6.563 | | 2000 | 1600 | | | | 1450 | | Watt-Miser® - Reflector - I.F. |
| | | 46872 | 120R40/SP | 130 | 30 | CC-6 | 6.563 | | 2000 | | | | | | | Reflector |
| | | 46877 | 120R/40/FL/COVG | 130 | 30 | CC-6 | 6.56 | | 1700 | 1550 | | | | 1200 | | Reflector - covRguard® Teflon® Coated |
| 47725 | 120R40FL/STG PQ6 | 130 | 30 | CC-6 | 6.56 | | 1700 | 1550 | | | | 1200 | | Reflector - Saf-T-Gard® Teflon® Coated | | |
| ER39 | Med | 120 41607 | 120ER39 | 120 | 24 | CC-6 | 7.37 | | 2000 | 1425 | | | 1700 | 2A, 2B, 5E | ER-Elliptical Reflector, Light I.F. | |
| | Med Sid Pr | 120 80313 | 150PAR/3FL/120WWM | 120 | 12 | CC-6 | 4.3 | | 2000 | 1370 | 2725 | 3600 | 30 ↗ | 1A, 2A, 2B, 9N | Watt-Miser®-Flood | |
| | | 80322 | 150PAR/3SP/120WWM | 120 | 12 | CC-6 | 4.3 | | 2000 | 1370 | 2725 | 9200 | 18 ↗ | 1A, 2A, 2B, 9N | Watt-Miser® Reflector | |
| 135 WATTS | | | | | | | | | | | | | | | | |
| | Med | 135 17973 | 150A21/135WWM/TS | 120 | C-11V | | 4.68 | 3 | 7000 | 1750 | | | | ↗ | Watt-Miser®-Clear, Traffic Signal, Burn BDTH, BB, Krypton | |
| | | 17974 | 150A21/135WWM/TS | 120 | C-11V | | 4.68 | 3 | 7000 | 1750 | | | | ↗ | Watt-Miser®-Clear, Traffic Signal, Burn BDTH, BB, Krypton | |
| | | 12619 | 150A/135WWM | 120 | 60 | CC-8 | 5.37 | 4.06 | 1000 | 2380 | | | | ↗ | Watt-Miser®-Diffuse Coating | |
| | | 135 12627 | 150A/135WWM | 130 | 60 | CC-8 | 5.37 | 4.06 | 1000 | 2340 | | | | ↗ | Watt-Miser®-Diffuse Coating | |
| | | 120 | | 120 | | | | | 2600 | 1790 | | | | | | (Ratings @ 120 volts.) |
| | | 135 13025 | 150A/135WMP/99 | 130 | 60 | CC-8 | 5.37 | 4.06 | 2500 | 2060 | | | | ↗ | Watt-Miser®-Plus-Diffuse Coating, LongLife (Ratings @ 120 volts.) | |
| 120 | | 120 | | | | | 6800 | 1580 | | | | | | | | |
| 150 WATTS | | | | | | | | | | | | | | | | |
| | Med | 150 10429 | 150A/W 12PK | 120 | 12 | CC-8 | 5.37 | 4.06 | 750 | 2780 | | | | | Soft White | |
| | | 16703 | 150A/RVL | 120 | 30 | CC-8 | 5.37 | 4.06 | 750 | 1950 | | | | | Reveal® | |
| | | 22881 | 150A/RL/SW 6PK | 120 | 30 | CC-8 | 5.75 | 4.31 | 750 | 2650 | | | | | Soft White-Reader Light™ | |
| | | 22889 | 150A/GAR 12PK | 120 | 12 | CC-8 | 5.37 | 4.16 | 1125 | 2600 | | | | | I.F. - Garage | |
| | | 41294 | 150A 24PK | 120 | 24 | CC-8 | 5.37 | 4.06 | 750 | 2850 | | | | | Standard | |
| | | 150 15818 | 150A/S | 130 | 60 | C-9 | 4.93 | 3.37 | 2000 | 1925 | | | | 2B | Survivor™-I.F. Long Life. Vibration Resistant, BB (Ratings @ 120 volts.) | |
| | | 133 | | 120 | | | | | 5500 | 1470 | | | | | | |
| | | 150 17625 | 150A21/RS | 130 | 60 | C-17 | 5.25 | 3.81 | 1000 | 2065 | | | | 2A, 5E | I.F.-Rough Service (Ratings @ 120 volts.) | |
| | | 133 | | 120 | | | | | 2600 | 1580 | | | | | | |
| | | 150 25929 | 150A21/99/IF | 130 | 60 | CC-8 | 5.37 | 4.06 | 2500 | 2310 | | | | | I.F.-Extended Service, BB (Ratings @ 120 volts.) | |
| 133 | | 120 | | | | | 6800 | 1765 | | | | | | | | |
| | Med | 150 33009 | 150A | 130 | 60 | CC-8 | 5.37 | 4.06 | 750 | 2800 | | | | | Inside Frost (Ratings @ 120 volts.) | |
| | | 133 | | 120 | | | | 1950 | 2140 | | | | | | | |
| | Med Sid Pr | 150 19334 | 150P25/2SB | 120 | 60 | C-7A | 4.75 | | 200 | 2100 | | | | | Clear Reflector. Silvered Bowl. Hard glass button, BB | |
| | | 19372 | 150P25/10 | 120 | 60 | C-7A | 4.75 | 3 | 200 | 2100 | | | | | Light I.F.-Spot. Hard glass button, BB | |
| | | 80321 | 150PAR/3SP/MINE | 120 | 12 | CC-6 | 4.3 | | 2000 | 1740 | | | 12000 | 16 | 1A, 2A, 2B, 9N | Mine Reflector |
| | Med Sid Pr | 80315 | 150PAR/3FL/MINE | 120 | 12 | CC-6 | 4.3 | | 2000 | 1740 | 2775 | 3100 | 36 | 1A, 2A, 2B, 9N | Mine-Flood | |
| | | 19489 | 150PAR/3SP/MINE | 130 | 12 | CC-6 | 4.3 | | 2000 | 1740 | | | 12000 | 16 | 1A, 2A, 2B, 9N | Mine Reflector |
| | | 80317 | 150PAR/3FL/MINE | 130 | 12 | CC-6 | 4.3 | | 2000 | 1740 | | | 3100 | 36 | 1A, 2A, 2B, 9N | Mine-Flood |
| | | 150 19464 | 150PAR/FL/A | 120 | 12 | CC-6 | 5.31 | | 2000 | | | | | 1A, 2A, 2B | Flood. Dichro Amber | |
| | Med Skirt | 19465 | 150PAR/FL/B | 120 | 12 | CC-6 | 5.31 | | 2000 | | | | 1A, 2A, 2B | Flood. Dichro Blue | | |
| | | 19467 | 150PAR/FL/G | 120 | 12 | CC-6 | 5.31 | | 2000 | | | | 1A, 2A, 2B | Flood. Dichro Green | | |
| | | 19468 | 150PAR/FL/R | 120 | 12 | CC-6 | 5.31 | | 2000 | | | | 1A, 2A, 2B | Flood. Dichro Red | | |



Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information | |
|--|----------------------|------------------|------------------|-------|-----------|-----------------|------|------|------------------|----------------|---------------|--------|--|--------------------|---|---------------------------------------|
| INCANDESCENT LAMPS (CONTINUED) | | | | | | | | | | | | | | | | |
| 150 WATTS (CONTINUED) | | | | | | | | | | | | | | | | |
|  | Med Skirt | 150 26370 | 150PAR/FL/CVG | 120 | 12 | CC-6 | 5.31 | | 2000 | 1700 | | | | 1A, 2A, 2B, 9L, 9M | covRguard® Flood, BB, Teflon® Coated | |
| | | 26371 | 150PAR/SP/CVG | 120 | 12 | CC-6 | 5.31 | | 2000 | 1700 | | | | | | covRguard® Spot, BB, Teflon® Coated |
| | | 48037 | 150PAR/FL/STGP06 | 120 | 6 | CC-6 | 5.31 | | 2000 | 1700 | | | | | | Saf-T-Gard® Flood, BB, Teflon® Coated |
|  | 3 Prong Scrw Term | 150 35327 | 150PAR46/TS | 115 | 12 | CC-6 | 4 | | 6000 | 1750 | | | | | Traffic Signal - Burn Horiz. | |
| | | 150 19512 | 150PAR46/1 | 32 | 12 | CC-8 | 3.75 | | 800 | 1950 | | 100000 | | | Mine Locomotive Headlight | |
| | | 150 19517 | 150PAR46 | 125 | 12 | C-13 | 3.75 | | 1000 | 1250 | | | | | Mine Locomotive Headlight | |
|  | Med | 150 14635 | 150PS25/CVG | 120 | 60 | C-9 | 6.93 | | 1000 | 2630 | | | | 2A, 9L, 9M | Inside Frost-covRguard®, BB, Teflon® Coated | |
| | | 14716 | 150/RS/CVG | 120 | 60 | C-17 | 6.93 | 5.18 | 1000 | 2120 | | | | 2A, 9L, 9M | Inside Frost-covRguard® Rough Service, BB, Teflon® Coated | |
| | | 19597 | 150/SBIF | 120 | 60 | C-9 | 6.93 | 5.18 | 1000 | 2370 | | | | | I.F.-Silver Bowl | |
| | | 150 19530 | 150/IF | 130 | 60 | C-9 | 6.93 | 5.18 | 750 | 2520 | | | | | Inside Frost | |
| | | 133 | | 120 | | | | | 1950 | 1930 | | | | | (Ratings @ 120 volts.) Vibration Resistant | |
| | | 150 19618 | 150/RS | 130 | 60 | C-17 | 6.93 | 5.18 | 1000 | 2160 | | | | 2A, 5E | I.F.-Rough Service | |
| | | 133 | | 120 | | | | | 2600 | 1650 | | | | | (Ratings @ 120 volts.) | |
| | | 150 19658 | 150/99/IF | 130 | 60 | C-9 | 6.93 | 5.18 | 2500 | 2200 | | | | | I.F.-Extended Service | |
| | | 133 | | 120 | | | | | 6800 | 1680 | | | | | (Ratings @ 120 volts.) Vibration Resistant | |
| | | 150 19668 | 150/99CL | 130 | 60 | C-9 | 6.93 | 5.18 | 2500 | 2200 | | | | | Clear-Extended Service | |
| 133 | | 120 | | | | | 6800 | 1680 | | | | | (Ratings @ 120 volts.) Vibration Resistant | | | |
|  | Med | 150 33465 | 150/VS | 130 | 24 | C-9 | 6.93 | 5.18 | 1000 | 2270 | | | | | I.F.-Vibration Service | |
| | | 133 | | 120 | | | | | 2600 | 1735 | | | | | (Ratings @ 120 volts.) | |
|  | Med | 150 19756 | 150PS30 | 230 | 60 | C-9 | 8.06 | 6 | 750 | 1950 | | | | | Clear-Reflector. Silvered Neck | |
| | Med | 120 43231 | 120ER40 | 130 | 24 | CC-6 | 7.37 | | 2000 | 1425 | | 1700 | | 2A, 2B, 5E | ER-Elliptical Reflector, Light I.F. | |
| 175 WATTS | | | | | | | | | | | | | | | | |
|  | Med Skirt | 175 13643 | 175PAR38/HEAT | 120 | 12 | CC-6 | 5.31 | 4.31 | 5000 | 3100 | | | | 1A, 2A, 2B, 3B | Infrared-Clear | |
| 200 WATTS | | | | | | | | | | | | | | | | |
|  | Med | 200 11585 | 200A/W-1 12PK | 120 | 12 | CC-8 | 5.37 | 4.06 | 750 | 3910 | | | | | Soft White | |
| | | 16069 | 200A/CL-1 12PK | 120 | 12 | CC-8 | 5.37 | 4.06 | 750 | 3980 | | | | | Crystal | |
| | | 25925 | 200A21/IF/12PK | 120 | 12 | CC-8 | 5.37 | 4.06 | 750 | 3920 | | | | | Inside Frost | |
| | | 200 25930 | 200A21/IF 130 | 130 | 60 | CC-8 | 5.37 | 4.06 | 750 | 3850 | | | | | Inside Frost | |
| | | 177 | | 120 | | | | | 1950 | 2965 | | | | | (Ratings @ 120 volts.) | |
| | | 200 25932 | 200A21/CL | 130 | 60 | CC-8 | 5.37 | 4.06 | 750 | 3850 | | | | | Clear | |
| | | 177 | | 120 | | | | | 1950 | 2965 | | | | | (Ratings @ 120 volts.) | |
| 200 25936 | 200A21/99/IF | 130 | 60 | CC-8 | 5.37 | 4.06 | 2500 | 3250 | | | | | I.F.-Extended Service | | | |
| 177 | | 120 | | | | | 6800 | 2500 | | | | | (Ratings @ 120 volts.) | | | |
| 200 25937 | 200A21/99/CL 130 | 130 | 60 | CC-8 | 5.37 | 4.06 | 2500 | 3250 | | | | | Clear-Extended Service | | | |
| 177 | | 120 | | | | | 6800 | 2500 | | | | | (Ratings @ 120 volts.) | | | |
|  | Med Sid Pr | 200 20115 | 200PAR46/3NSP | 120 | 12 | CC-13 | 4 | | 2000 | 2270 | 2750 | 31000 | | 1A, 2A, 5B, 5C, 9N | Narrow Reflector | |
| | | 20138 | 200PAR46/3MFL | 120 | 12 | CC-13 | 4 | | 2000 | 2270 | 2750 | 11500 | | 1A, 2A, 5B, 5C, 9N | Medium Flood | |
| | | 20117 | 200PAR46/3NSP | 130 | 12 | CC-13 | 4 | | 2000 | 2270 | 2750 | 31000 | | 1A, 2A, 5B, 5C, 9N | Narrow Reflector | |
| | | 20140 | 200PAR46/3MFL | 130 | 12 | CC-13 | 4 | | 2000 | 2270 | 2750 | 11500 | | 1A, 2A, 5B, 5C, 9N | Medium Flood | |
|  | Scrw Term | 200 20122 | 200PAR | 30 | 12 | CC-8 | 4.5 | | 350 | | | 230000 | | | Locomotive Headlight | |
| | | 200 49889 | 200PAR56/MFL | 120 | 12 | CC-13 | 5 | | 2000 | 2270 | 2750 | 15000 | | 1A, 2A, 5B, 5C, 9N | Medium Flood | |



Incandescent Lamps

| Shape | Base | Order Watts | Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information | |
|---------------------------------------|-------|---------------|-------|-----------------|----------------|-----------|-----------------|-------|------|------------------|----------------|---------------|------|-------------|------------------------|---|---|
| INCANDESCENT LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | |
| 200 WATTS (CONTINUED) | | | | | | | | | | | | | | | | | |
| | PS30 | Med | 200 | 14636 | 200PS30/CVG | 120 | 60 | C-9 | 8.06 | 6 | 1000 | 3480 | | | 2A, 9L, 9M | Inside Frost-covRguard® , BB, Teflon® Coated | |
| | | | | 14637 | 200PS30/RS/CVG | 120 | 60 | C-9 | 8.06 | 6 | 1000 | 3330 | | | 2A, 9L, 9M | Inside Frost-covRguard® Rough Service, BB, Teflon® Coated | |
| | | | | 20316 | 200/SBIF | 120 | 60 | C-9 | 8.06 | 6 | 1000 | 3320 | | | | | I.F.-Silvered Bowl |
| | | | 200 | 20172 | 200 | 130 | 60 | C-9 | 8.06 | 6 | 750 | 3540 | | | | | Clear |
| | | | 177 | | | 120 | | | | | 1950 | 2725 | | | | | (Ratings @ 120 volts.) |
| | | | 200 | 20252 | 200/IF | 130 | 60 | C-9 | 8.06 | 6 | 750 | 3540 | | | | | Inside Frost |
| | | | 177 | | | 120 | | | | | 1950 | 2725 | | | | | (Ratings @ 120 volts.) |
| | | | 200 | 20354 | 200/99IF | 130 | 60 | C-9 | 8.06 | 6 | 2500 | 3000 | | | | | I.F.-Extended Service, BB |
| | | | 177 | | | 120 | | | | | 6800 | 2310 | | | | | (Ratings @ 120 volts.) |
| | | 200 | 20403 | 200PS30/24 | 130 | 60 | C-9 | 8.06 | 6 | 1000 | 3240 | | | | 2A, 5E | Clear-Rough Service | |
| | | 177 | | | 120 | | | | | 2600 | 2495 | | | | 2A, 5E | (Ratings @ 120 volts.) | |
| | | 200 | 33468 | 200PS30/23 24PK | 130 | 24 | C-9 | 8.06 | 6 | 1000 | 3240 | | | | 2A, 5E | I.F.-Rough Service | |
| | | 177 | | | 120 | | | | | 2600 | 2495 | | | | | (Ratings @ 120 volts.) | |
| | | 200 | 20192 | 200 | 250 | 60 | C-9 | 8.06 | 6 | 1000 | 2980 | | | | | | Clear |
| 240 WATTS | | | | | | | | | | | | | | | | | |
| | A21 | Med | 240 | 15843 | 240A/RL/SW 6PK | 120 | 30 | CC-8 | 5.75 | 4.31 | 750 | 4300 | | | | | Soft White-Reader Light™ |
| | PAR56 | Scrw Term | 240 | 20575 | 240PAR56/VNSP | 12 | 12 | C-6 | 4.5 | | 2000 | | 2800 | 140000 | 1A, 2A, 5B, 5C, 9N | Very Narrow Reflector | |
| | | | | 20576 | 240PAR56/MFL | 12 | 12 | C-6 | 4.5 | | 2000 | | 2800 | 46000 | 1A, 2A, 5B, 5C, 9N | Medium Flood | |
| | | | | 20577 | 240PAR56/WFL | 12 | 12 | C-6 | 4.5 | | 2000 | | 2800 | 13000 | 1A, 2A, 5B, 5C, 9N | Wide Flood | |
| 250 WATTS | | | | | | | | | | | | | | | | | |
| | R40 | Med | 250 | 37770 | 250R40/1 6PK | 120 | 30 | C-9 | 6.56 | | 5000 | 2200 | | | 2A, 2B, 3B, 5E, 6A | Reflector-Warm Up Infrared Heat Lamp - Clear Face | |
| | | | | 37771 | 250R40/10 6PK | 120 | 30 | C-9 | 6.56 | | 5000 | | | | 2A, 2B, 3B, 5E, 6A | Reflector-Chill Chaser Infrared Heat Lamp. Red, HRG | |
| | | | | 46881 | 250R40/1/CVG | 120 | 30 | C-9 | 6.56 | | 5000 | 2150 | | | | | Clear-covRguard® Teflon® Coated. Food Warming, Reflector-Infrared |
| | | Med Skirt | 250 | 20724 | 250R40/4 | 120 | 24 | C-9 | 7.43 | | 5000 | | | | 2A, 2B, 3B, 5E, 6A | Reflector Infrared Industrial-Light I.F., BB | |
| 300 WATTS | | | | | | | | | | | | | | | | | |
| | PAR56 | Scrw Term | 300 | 23427 | 300PAR56/WFL | 12 | 12 | C-6 | 4.5 | | 1000 | 6000 | | | 2B, 9F, 9N | PAR-Wide Flood. Swimming | |
| | PAR56 | Mog End Pr300 | 300 | 20803 | 300PAR56/NSP | 120 | 12 | CC-13 | 5 | | 2000 | 3840 | 2750 | 68000 | 1A, 2A, 5B, 5C, 9N | Narrow Reflector | |
| | | | | 20836 | 300PAR56/MFL | 120 | 12 | CC-13 | 5 | | 2000 | 3840 | 2750 | 24000 | 1A, 2A, 5B, 5C, 9N | Medium Flood | |
| | | | | 20849 | 300PAR56/WFL | 120 | 12 | CC-13 | 5 | | 2000 | 3840 | 2750 | 11000 | 1A, 2A, 5B, 5C, 9N | Wide Flood | |
| | | | | 20838 | 300PAR56/MFL | 130 | 12 | CC-13 | 5 | | 2000 | 3840 | 2750 | 24000 | 1A, 2A, 5B, 5C, 9N | Medium Flood | |
| | | | | 20851 | 300PAR56/WFL | 130 | 12 | CC-13 | 5 | | 2000 | 3840 | 2750 | 11000 | 1A, 2A, 5B, 5C, 9N | Wide Flood | |
| | PS25 | Med | 300 | 20861 | 300M | 120 | 60 | CC-8 | 6.93 | 5.18 | 750 | 6200 | | | | Clear | |
| | | | | 25919 | 300M/IF 6PK | 120 | 30 | CC-8 | 6.93 | 5.18 | 750 | 6200 | | | | Inside Frost | |
| | | | 300 | 20863 | 300M | 130 | 60 | CC-8 | 6.93 | 5.18 | 750 | 6120 | | | | Clear | |
| | | | 266 | | | 120 | | | | | 1950 | 4170 | | | | (Ratings @ 120 volts.) | |
| | | | 300 | 20917 | 300M/IF | 130 | 60 | CC-8 | 6.93 | 5.18 | 750 | 6120 | | | | Inside Frost | |
| | | 266 | | | 120 | | | | | 1950 | 4170 | | | | (Ratings @ 120 volts.) | | |










Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|-------|------|------------------|-------------|-------|-----------|-----------------|-----|-----|------------------|----------------|---------------|------|-------------|-----------|------------------------|
|-------|------|------------------|-------------|-------|-----------|-----------------|-----|-----|------------------|----------------|---------------|------|-------------|-----------|------------------------|

INCANDESCENT LAMPS (CONTINUED)


300 WATTS (CONTINUED)

| | | | | | | | | | | | | | | | |
|---|------------|---------------------|--|-----|----|-------|------|---|------|------|--|------|----------------|------------------------------|---|
|  | Med | 300 20887 300M/99 | | 130 | 60 | C-9 | 8.06 | 6 | 2500 | 5110 | | | | | Clear-Extended Service (Ratings @ 120 volts.) |
| | | 266 | | 120 | | | | | 6800 | 3935 | | | | | |
|  | Med | 300 20894 300M/99IF | | 130 | 60 | C-9 | 8.06 | 6 | 2500 | 5110 | | | | | I.F.-Extended Service (Ratings @ 120 volts.) |
| | | 266 | | 120 | | | | | 6800 | 3935 | | | | | |
|  | Mog | 300 21025 300 | | 130 | 24 | C-9 | 9.37 | 7 | 1000 | 5820 | | | | | Clear |
| | | 21079 300/IF | | 130 | 24 | C-9 | 9.37 | 7 | 1000 | 5820 | | | | | Inside Frost |
| | | 21139 300/SBIF | | 130 | 24 | C-9 | 9.37 | 7 | 1000 | 5410 | | | | | I.F.-Silver Bowl. Burn base up |
| | | 21167 300/99 | | 130 | 24 | C-9 | 9.37 | 7 | 2500 | 5190 | | | | | Clear-Extended Service |
| | | 21177 300/99IF | | 130 | 24 | C-9 | 9.37 | 7 | 2500 | 5190 | | | | | I.F.-Extended Service |
|  | Med | 300 21197 300R/SP | | 120 | 24 | CC-2V | 6.56 | | 2000 | 3700 | | 9000 | 2A, 2B, 5B, 9E | Reflector -Light I.F. HORIZ | |
| | | 21213 300R/FL | | 120 | 24 | CC-2V | 6.56 | | 2000 | 3700 | | 2500 | 2A, 2B, 5B, 9E | Reflector Flood-I.F. HORIZ | |
| | | 21229 300R/FL/1 | | 120 | 24 | CC-2V | 6.75 | | 2000 | 3700 | | 1900 | 2A, 2B, 5B, 9E | Reflector Flood-I.F. BB, HRG | |
|  | Med | 300 21215 300R/FL | | 130 | 24 | CC-2V | 6.56 | | 2000 | 3465 | | 2500 | 2A, 2B, 5B, 9E | Reflector Flood-I.F. HORIZ | |
| | | 266 | | 120 | | | | | 5400 | 2670 | | | | (Ratings @ 120 volts.) | |
| | | | | | | | | | | | | | | | |
|  | Mog | 300 21254 300R/3FL | | 120 | 24 | CC-2V | 7.25 | | 2000 | 3750 | | | 2A, 2B, 5B, 9E | Reflector Flood-I.F. BB | |
| | | 21256 300R/3FL | | 130 | 24 | CC-2V | 7.25 | | 2000 | 3750 | | | | 2A, 2B, 5B, 9E | Reflector Flood-I.F. BB |
| | | 21263 300R/3FL | | 250 | 24 | C-7A | 7.25 | | 2000 | 3300 | | | | 2A, 2B, 5B, 9E | Reflector Flood-I.F. BB |
|  | Med BiPost | 300 21280 300T20/1 | | 120 | 12 | C-13 | 6.5 | 4 | 1000 | 5500 | | | 8A, 9G | Inside Frost, HRG | |



350 WATTS

| | | | | | | | | | | | | | | |
|---|-----------|-----------------------|--|----|----|------|-----|--|-----|------|--|--|--------------------|------------------------|
|  | Scrw Term | 350 19866 350PAR56/SP | | 75 | 12 | CC-8 | 4.5 | | 500 | 6200 | | | 1A, 2A, 5B, 5C, 9N | Ditch Light-Locomotive |
|---|-----------|-----------------------|--|----|----|------|-----|--|-----|------|--|--|--------------------|------------------------|






375 WATTS

| | | | | | | | | | | | | | | |
|---|-----------|------------------|--|-----|----|-----|------|--|------|--|--|--|--------------------|---|
|  | Med Skirt | 375 21331 375R40 | | 115 | 24 | C-9 | 7.37 | | 5000 | | | | 2A, 2B, 3B, 5E, 6A | Reflector Infrared Industrial-Light I.F., BB |
| | | 21334 375R40/1 | | 115 | 24 | C-9 | 7.5 | | 5000 | | | | 2A, 2B, 3B, 5E, 6A | Reflector Infrared Industrial-Clear Face, HRG, BB |

400 WATTS

| | | | | | | | | | | | | | | |
|---|-----|---------------------|--|-----|----|-------|------|---|------|------|--|--|----------------|---|
|  | Med | 400 21363 400G/FL | | 120 | 60 | C-5 | 5.12 | 3 | 800 | 6800 | | | 2A, 2B, 2D, 5B | Clear Flood, BDTH, BB |
|  | Med | 400 17542 400R40/FL | | 120 | 24 | CC-2V | 6.75 | | 2000 | 5000 | | | 5B, 5C, 9B | Reflector Flood. Swimming Pool, BB, HRG |
| | | | | 120 | | | | | | | | | | |

500 WATTS

| | | | | | | | | | | | | | | |
|---|------------|------------------------|--|-----|----|-------|------|---|------|-------|------|--------|--------------------|----------------------------|
|  | MogEndPr | 500 39411 500PAR64/MFL | | 230 | 12 | CC-13 | 6 | | 2000 | 5500 | 2700 | | 1A, 2A, 5B, 5C, 9N | Medium Flood |
| | | 39414 500PAR64/WFL | | 230 | 12 | CC-13 | 6 | | 2000 | 5500 | 2700 | | 1A, 2A, 5B, 5C, 9N | Wide Flood |
|  | ExMogEndPr | 500 39406 500PAR64/NSP | | 120 | 12 | CC-13 | 6 | | 2000 | 6500 | 2800 | 110000 | 1A, 2A, 5B, 5C, 9N | Narrow Reflector |
| | | 39409 500PAR64/MFL | | 120 | 12 | CC-13 | 6 | | 2000 | 6500 | 2800 | 37000 | 1A, 2A, 5B, 5C, 9N | Medium Flood |
|  | Mog | 500 39412 500PAR64/WFL | | 120 | 12 | CC-13 | 6 | | 2000 | 6500 | 2800 | 13000 | 1A, 2A, 5B, 5C, 9N | Wide Flood |
| | | | | | | | | | | | | | | |
|  | Mog | 500 21530 500 | | 120 | 24 | CC-8 | 9.37 | 7 | 1000 | 10850 | | | | Clear, BB |
| | | 21532 500 | | 130 | 24 | CC-8 | 9.37 | 7 | 1000 | 10850 | | | | Clear, BB |
| | | 21581 500/IF | | 130 | 24 | CC-8 | 9.37 | 7 | 1000 | 10850 | | | | Inside Frost, BB |
| | | 21651 500/99IF | | 130 | 24 | C-9 | 9.75 | 7 | 2000 | 9070 | | | | I.F.-Extended Service, BB |
|  | Mog | 500 21643 500/99 | | 130 | 24 | C-9 | 9.75 | 7 | 2000 | 9070 | | | | Clear-Extended Service, BB |
| | | 21687 500PS40 | | 120 | 24 | C-9 | 9.75 | 7 | 1000 | 9900 | | | | Clear, BB |



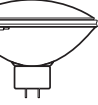






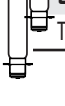


Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|---------------------------------------|-----------------|------------------------------|-------------|-------|-----------|-----------------|-------|------|------------------|----------------|---------------|-------|-------------|----------------|---|
| INCANDESCENT LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| 500 WATTS (CONTINUED) | | | | | | | | | | | | | | | |
| R40 | Mog | 500 21734 500R/3FL | | 120 | 24 | CC-2V | 7.25 | | 2000 | 6500 | | | | 2A, 2B, 5B, 9E | Reflector Flood-I.F. BB, HRG |
| | | 21736 500R/3FL | | 130 | 24 | CC-2V | 7.25 | | 2000 | 6500 | | | | 2A, 2B, 5B, 9E | Reflector Flood-I.F. BB, HRG |
| R52 | Mog | 500 21761 500R52 | | 130 | 12 | C-7A | 11.75 | | 2000 | 7600 | | | | | Reflector High Bay-Light I.F. BB |
| T20 | Med BiPost 500 | 21872 500T20/50 | | 130 | 12 | C-13 | 6.5 | 4 | 1000 | 9800 | | | | 8A, 9G | I.F. HRG |
| 750 WATTS | | | | | | | | | | | | | | | |
| PS52 | Mog | 750 22000 750 | | 130 | 12 | CC-8 | 13 | 9.5 | 1000 | 17040 | | | | 5D, 5E | Clear, BB |
| T24 | Med BiPost 750 | 22117 750T24 | | 130 | 24 | C-13 | 9.18 | 5.5 | 1000 | 14800 | | | | 8A, 9G | Inside Frost, HRG |
| 1000 WATTS | | | | | | | | | | | | | | | |
| PS52 | Mog | 1000 22260 1000 | | 130 | 12 | CC-8 | 13 | 9.5 | 1000 | 23740 | | | | 5D, 5E | Clear, BB |
| | | 22301 1000/99 | | 130 | 12 | C-7A | 13 | 9.5 | 2500 | 19800 | | | | 5D, 5E | Clear-Extended Service, BB |
| | | 22280 1000 | | 250 | 12 | C-7A | 13 | 9.5 | 2000 | 17700 | | | | 5D, 5E | Clear, BB |
| | | 22284 1000 | | 277 | 12 | C-7A | 13 | 9.5 | 2000 | 17700 | | | | 5D, 5E | Clear, BB |
| T24 | Med BiPost 1000 | 22479 1M/T24 | | 120 | 24 | C-13 | 9.18 | 5.5 | 1000 | 21200 | | | | 8A, 9G | Inside Frost, HRG |
| MISC. INCANDESCENT LAMP TYPES | | | | | | | | | | | | | | | |
| R40 | Med | 23423 21A/R40/FL | | 12 | 24 | C-2V | 6.68 | | 1000 | | | | | 2C, 5A, 5E | Reflector Flood-I.F. Swimming pool. BDTH, HORIZ, HRG, BB |
| T8 | SC Bay | 23326 7.5A/T8/92SC | | 10 | 24 | C-8Z | 3.12 | 1.75 | 100 | 1620 | | | | | Clear-Sound Reproduction Optical Comparator. Source WxH: 1.8 x 4.6mm. ANSI: BXE, BB |
| EXPORT-ONLY | | | | | | | | | | | | | | | |
| 65 WATTS | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 65 14505 75PAR/SP/65/WM/EX | | 130 | 12 | CC-6 | 5.31 | | 2000 | 675 | 2675 | 5900 | 14 | 1A, 2A, 2B | Watt-Miser®, Reflector |
| | | 14506 75PAR/FL/65WM/EX | | 130 | 12 | CC-6 | 5.31 | | 2000 | 675 | 2675 | 1750 | 30 | 1A, 2A, 2B | Watt-Miser®, Flood |
| 75 WATTS | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 75 14510 75PAR/FL/EX | | 120 | 12 | CC-6 | 5.31 | | 2000 | 765 | 2700 | 1750 | 33 | 1A, 2A, 2B | Flood |
| 85 WATTS | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 85 14509 100PAR/FL/85WM/EX | | 120 | 6 | CC-6 | 5.31 | | 2000 | 930 | 2700 | 2000 | 37 | 1A, 2A, 2B | Miser® Flood |
| 120 WATTS | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 120 14501 150PAR/FL/120WM/EX | | 120 | 12 | CC-6 | 5.31 | | 2000 | 1370 | 2725 | 3600 | 30 | 1A, 2A, 2B | Watt-Miser®, Flood |
| | | 14502 150PAR/SP/120WM/EX | | 120 | 12 | CC-6 | 5.31 | | 2000 | 1370 | 2725 | 9200 | 18 | 1A, 2A, 2B | Watt-Miser®, Reflector |
| | | 14503 150PAR/FL/120WM/EX | | 130 | 12 | CC-6 | 5.31 | | 2000 | 1370 | 2725 | 3600 | 30 | 1A, 2A, 2B | Watt-Miser®, Flood |
| 150 WATTS | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 150 14531 150PAR/FL/EX | | 120 | 12 | CC-6 | 5.31 | | 2000 | 1740 | 2775 | 3100 | 36 | 1A, 2A, 2B | Flood |
| | | 14535 150PAR/SP/EX | | 120 | 12 | CC-6 | 5.31 | | 2000 | 1740 | 2775 | 12000 | 16 | 1A, 2A, 2B | Reflector |
| E27 BASE-EXPORT | | | | | | | | | | | | | | | |
| 80 WATTS | | | | | | | | | | | | | | | |
| PAR38 | Skirted (E27) | 80 18180 80PAR/SP/27 | | 220/0 | 12 | | | | | | | | | 1A, 2A, 2B | Clear Reflector |
| 100 WATTS | | | | | | | | | | | | | | | |
| PAR38 | Skirted (E27) | 100 38854 100PAR/FL/27 | | 220/0 | 12 | CC-6 | 5.5 | | 2000 | 800 | 2600 | 1500 | 35 | 1A, 2A, 2B | Clear Flood |
| | | 42711 100PAR/FL/27 | | 240/0 | 12 | CC-6 | 5.5 | | 2000 | 800 | 2600 | 1500 | 35 | 1A, 2A, 2B | Clear Flood |



Incandescent Lamps

| Shape | Base | Order Watts | Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|--|-------|-------------|------|---------------------------|-------|-----------|-----------------|------|------|------------------|----------------|---------------|--------|-------------|--------------------|---|
| E27 BASE-EXPORT (CONTINUED) | | | | | | | | | | | | | | | | |
| 120 WATTS | | | | | | | | | | | | | | | | |
|  | PAR38 | Skirted | 120 | 18172 120PAR/FL/27 | 220/0 | 12 | CC-6 | 5.5 | | 2000 | 1150 | 2675 | 2300 | 35 | 1A, 2A, 2B | Clear Flood |
| | | | | 18173 120PAR/FL/27 | 240/0 | 12 | CC-6 | 5.5 | | 2000 | 1050 | 2675 | 2300 | 35 | 1A, 2A, 2B | Clear Flood |
| | PAR56 | Scrw Term | 120 | 19023 120PAR56VNSP | 12 | 12 | C-6 | 4.5 | | 2000 | 1050 | 2750 | 60000 | | 1A, 2A, 5B, 5C, 9N | Very Narrow Reflector |
| | | | | 19024 120PAR56/MFL | 12 | 12 | C-6 | 4.5 | | 2000 | 1050 | 2750 | 19000 | | 1A, 2A, 5B, 5C, 9N | Medium Flood |
| | | | | 19025 120PAR56/WFL | 12 | 12 | C-6 | 4.5 | | 2000 | 1050 | 2750 | 5625 | | 1A, 2A, 5B, 5C, 9N | Wide Flood |
| 150 WATTS | | | | | | | | | | | | | | | | |
|  | PAR38 | Skirted | 150 | 40033 150PAR/FL/27 | 220/0 | 12 | CC-6 | 5.5 | | 2000 | 1350 | 2650 | 2450 | 35 | 1A, 2A, 2B | Clear Flood |
| | | | | 40035 150PAR/FL/27 | 240/0 | 12 | CC-6 | 5.5 | | 2000 | 1350 | 2650 | 2450 | 35 | 1A, 2A, 2B | Clear Flood |
| EXPORT PAR | | | | | | | | | | | | | | | | |
| 300 WATTS | | | | | | | | | | | | | | | | |
|  | PAR56 | GX16DEXT | 300 | 20852 300PAR56/MFL | 230 | 12 | CC-13 | 5 | | 2000 | 3450 | | | | 1A, 2A, 5B, 5C, 9N | Medium Flood |
| | | | | 20853 300PAR56/NSP | 230 | 12 | CC-13 | 5 | | 2000 | 3450 | | | | 1A, 2A, 5B, 5C, 9N | Narrow Reflector |
| | | | | 20854 300PAR56/WFL | 230 | 12 | CC-13 | 5 | | 2000 | 3450 | | | | 1A, 2A, 5B, 5C, 9N | Wide Flood |
| | | | | 18676 300PAR56/NSP | 240/0 | 12 | CC-13 | 5 | | 2000 | 3450 | | | | 1A, 2A, 5B, 5C, 9N | Narrow Reflector |
| | | | | 18677 300PAR56/MFL | 240/0 | 12 | CC-13 | 5 | | 2000 | 3450 | | | | 1A, 2A, 5B, 5C, 9N | Medium Flood |
| | | | | 18678 300PAR56/WFL | 240/0 | 12 | CC-13 | 5 | | 2000 | 3450 | | | | 1A, 2A, 5B, 5C, 9N | Wide Flood |
| LUMEN RATED TRAFFIC SIGNAL | | | | | | | | | | | | | | | | |
| 165 WATTS | | | | | | | | | | | | | | | | |
|  | P25 | Med | 165 | 20094 1950L/P25/TS | 120 | 60 | C-9 | 4.75 | 3 | 8000 | 1950 | | | | | Clear-Traffic Signal (BDTH), BB |
| | | | | 20097 1950L/P25/TS | 130 | 60 | C-9 | 4.75 | 3 | 8000 | 1950 | | | | | Clear-Traffic Signal (BDTH), BB |
| AIRPORT | | | | | | | | | | | | | | | | |
| 30 WATTS | | | | | | | | | | | | | | | | |
|  | T10 | Med Pf | 30 | 23294 6.6A/T10/1P | | 60 | C-2V | 3.93 | 1.5 | 1000 | 400 | | | | | Clear |
| 40 WATTS | | | | | | | | | | | | | | | | |
|  | T10 | Med Pf | 40 | 15921 40T10P | 120 | 60 | CC-2V | 3.93 | 1.5 | 1000 | 400 | | | | | Clear |
| 45 WATTS | | | | | | | | | | | | | | | | |
|  | PAR56 | Scrw Term | 45 | 23310 6.6A/PAR56/5 | | 12 | C-8 | 4.5 | | 1000 | 700 | | | | | Stippled cover |
| | T10 | Med Pf | 45 | 23295 6.6A/T10P | | 60 | C-2V | 3.93 | 1.5 | 1000 | 675 | | | | | Clear |
| 120 WATTS | | | | | | | | | | | | | | | | |
|  | PAR64 | Scrw Term | 120 | 39395 120PAR | 6 | 12 | C-6 | 4 | | 3000 | 780 | | 180000 | | | Transmissometer. Filament Shielded. Very Narrow Reflector |
| 200 WATTS | | | | | | | | | | | | | | | | |
|  | T14 | Med Pf | 200 | 23298 6.6A/T14P | | 24 | C-13 | 5.75 | 2.18 | | 4900 | | | | | Clear |
| 204 WATTS | | | | | | | | | | | | | | | | |
|  | T14 | Med Pf | 204 | 23300 6.6A/T14/2P | | 24 | C-13 | 5.75 | 2.18 | 500 | 4220 | | | | | Clear |



| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|---------------------------------|----------------|---------------------------|-------------|-------|-----------|-----------------|-------|-----------|------------------|----------------|---------------|------|-------------|-----------|---|
| AIRPORT (CONTINUED) | | | | | | | | | | | | | | | |
| 620 WATTS | | | | | | | | | | | | | | | |
| PS40 | Mog Pf | 620 21950 620PS40P | | 120 | 24 | C-9 | | 10.065.68 | 3000 | 11200 | | | | | Clear |
| | | 21952 620PS40P | | 130 | 24 | C-9 | | 10.065.68 | 3000 | 11200 | | | | | Clear |
| 1000 WATTS | | | | | | | | | | | | | | | |
| T20 | Mog BiPost1000 | 22429 1M/T20BP | | 120 | 12 | C-13 | 9.5 | 4 | 500 | 22000 | | | | | Clear-Beacon, HRG |
| 1200 WATTS | | | | | | | | | | | | | | | |
| T20 | Mog BiPost1200 | 22524 1200T20 | | 115 | 12 | CC-8 | 9.5 | 4 | 750 | 29600 | | | | | Clear-Beacon, HRG |
| MULTIPLE STREET LIGHTING | | | | | | | | | | | | | | | |
| A23 | Med | 105 42392 105A23/12 | | 125 | 120 | C-9 | 5.93 | 4.43 | 12000 | | | | | | Clear, BB |
| PS25 | Med | 189 19939 189PS25/64 | | 130 | 60 | C-9 | 6.93 | 5.25 | 3000 | | | | | | Clear, BB |
| | | 205 42663 205PS25/12 | | 125 | 60 | C-9 | 6.93 | 5.25 | 12000 | | | | | | Clear, BB |
| PS35 | Mog | 295 20772 295PS35/58 | | 125 | 24 | C-9 | 9.37 | 7 | 3000 | | | | | | Clear, BB |
| | | 327 21307 327PS35 | | 125 | 24 | C-9 | 9.37 | 7 | 6000 | | | | | | Clear, BB |
| PS40 | Mog | 405 21408 405PS40/54 | | 120 | 24 | C-9 | 9.75 | 7 | 3000 | 6850 | | | | | Clear, BB |
| DECORATIVE | | | | | | | | | | | | | | | |
| 3 WATTS | | | | | | | | | | | | | | | |
| CA10 | Cand | 3 81167 3CAC/FF/CD1-6PK | | 120 | 30 | | 4.125 | | 2000 | | | | | | Flicker Flame |
| CA10 | Med | 3 81168 3CAM/FF/CD1-6PK | | 120 | 30 | | 4.125 | | 2000 | | | | | | Flicker Flame |
| 15 WATTS | | | | | | | | | | | | | | | |
| B8 | Cand | 15 81559 15BC/CF/CD2-TRAY | | 120 | 30 | C-7A | 3.19 | | 1500 | | | | | | Blunt Tip, Ceiling Fan, Vibration Resistant |
| | | 48400 15BC CD2 6PK | | 120 | 30 | C-7A | 3.87 | | 1500 | | | | | | Clear-Blunt Tip |
| B10 | Cand | 15 46678 15 BFC PQ2/5 | | 120 | 25 | C-7A | 3.87 | | 1500 | | | | | | Faceted-Blunt Tip |
| CA8 | Cand | 15 41524 15CAC/L | | 120 | 120 | C-7A | 4.12 | | 4000 | | | | | | Clear-Bent Tip, LL |
| | | 48403 15CAC/F CD2 6PK | | 120 | 30 | C-7A | 4.12 | | 1500 | | | | | | Frost-Bent Tip |
| G16.5 | Cand | 15 12578 15GC/L | | 120 | 60 | C-7A | 3 | | 4000 | | | | | | Clear-Globe, LL |
| 25 WATTS | | | | | | | | | | | | | | | |
| B8 | Cand | 25 81560 25BC/CF/CD2-TRAY | | 120 | 30 | C-7A | 3.19 | | 1500 | | | | 5E, 9D | | Blunt Tip, Ceiling Fan, Vibration Resistant, BDTH |
| B10 | Cand | 25 15787 25BC 25PK | | 120 | 200 | C-7A | 3.75 | | 1500 | | | | | | Clear-Blunt Tip |
| | | 46679 25BFC PQ2/5 | | 120 | 25 | CC-2V | 3.75 | | 1500 | | | | | | Faceted-Blunt Tip |
| | | 48700 25BC/RVL CD2 | | 120 | 30 | CC-2V | 3.75 | | 1500 | | | | | | Reveal® Clear-Blunt Tip |
| B13 | Med | 25 22756 25BM CD2 | | 120 | 60 | C-9 | 4.62 | | 1500 | | | | | | Clear-Blunt Tip |
| CA10 | Cand | 25 15777 25CAC 25PK | | 120 | 200 | CC-2V | 4.12 | | 1500 | | | | | | Clear-Bent Tip |
| | | 16045 25CAC CARD4 | | 120 | 30 | CC-2V | 4.12 | | 1500 | | | | | | Clear-Bent Tip |
| | | 16046 25CAC/F CARD4 | | 120 | 30 | CC-2V | 4.12 | | 1500 | | | | | | Frost-Bent Tip |
| | | 16365 25CAC/L-CD4 | | 120 | 120 | CC-2V | 4.12 | | 4000 | | | | | | Clear-Bent Tip, LL |
| | | 40045 25CAC/L | | 120 | 120 | CC-2V | 4.12 | | 4000 | | | | | | Clear-Bent Tip, LL |
| | | 47933 25CAC CARD 2 | | 120 | 30 | CC-2V | 4.12 | | 1500 | | | | | | Clear-Bent Tip |
| F15 | Med | 25 18890 25FM CD2 6PK | | 120 | 30 | C-6 | 4.37 | | 1500 | | | | | | Clear-Flame |
| | | 18891 25FM/A CD2 6PK | | 120 | 30 | C-6 | 4.37 | | 1500 | | | | | | Amber-Flame |
| | | 18894 25FM/AU CD2 6PK | | 120 | 30 | C-6 | 4.37 | | 1500 | | | | | | Auradescent-Flame |
| | | 18895 25FM/W CD2 6PK | | 120 | 30 | C-6 | 4.37 | | 1500 | | | | | | White-Flame |
| G16.5 | Cand | 25 11303 25GC 12PK | | 120 | 120 | CC-2V | 3 | | 1500 | | | | | | Clear-Globe |
| | | 15790 25GC 25PK | | 120 | 100 | CC-2V | 3 | | 1500 | | | | | | Clear-Globe |
| | | 17722 25GC CD2 | | 120 | 60 | CC-2V | 3 | | 1500 | | | | | | Clear-Globe |



Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|---|------|---------------------------|---|-------|--|---|-----|-----|------------------|----------------|---------------|------|-------------|-----------|------------------------|
| DECORATIVE (CONTINUED) | | | | | | | | | | | | | | | |
| 25 WATTS (CONTINUED) | | | | | | | | | | | | | | | |
| | Cand | 23510 25GC/AU-CD2 | 120 60 CC-2V 3 | 1500 | Auradescent - Globe | | | | | | | | | | |
| | | | | | 27301 25GC CD4 120 30 CC-2V 3 1500 Clear-Globe | | | | | | | | | | |
| | | | | | 27302 25GC/W CD4 120 30 CC-2V 3 1500 White-Globe | | | | | | | | | | |
| | | | | | 39679 25GC/W 12PK 120 120 CC-2V 3 1500 White-Globe | | | | | | | | | | |
| | | | | | 43158 25GC-L 120 60 CC-2V 3 4000 Clear-Globe, LL | | | | | | | | | | |
| | | | | | 48703 25GC/RVL CD2 120 30 CC-2V 3 1500 Reveal® Clear-Globe | | | | | | | | | | |
| | Med | 25 31106 25GM/CL-PQ2/6 | 120 30 CC-2V 3 1500 Clear-Globe, Medium Base | | | | | | | | | | | | |
| | | | 31107 25GM/W-PQ2/6 120 30 CC-2V 3 1500 White-Globe, Medium Base | | | | | | | | | | | | |
| | | | 31108 25GM/AU-PQ2/6 120 30 CC-2V 3 1500 Auradescent-Globe, Medium Base | | | | | | | | | | | | |
| | Med | 25 12982 25G25/W 6PK | 120 6 C-9 4.5 1500 White-Globe | | | | | | | | | | | | |
| | | | 12983 25G25 6PK 120 6 C-9 4.5 1500 Clear-Globe | | | | | | | | | | | | |
| | | | 20408 25G25/L/24 120 24 C-9 4.5 3000 Clear-Globe, LL | | | | | | | | | | | | |
| | | | 20410 25G25/W/L/24 120 24 C-9 4.5 3000 White-Globe, LL | | | | | | | | | | | | |
| | | | 25545 25G25 CPK 120 24 C-9 4.5 1500 Clear-Globe | | | | | | | | | | | | |
| | | | 25546 25G25/W CPK 120 24 C-9 4.5 1500 White-Globe | | | | | | | | | | | | |
| 40 WATTS | | | | | | | | | | | | | | | |
| | Cand | 40 81561 40BC/CF/CD2-Tray | 120 30 C-7A 3.19 | 1500 | 5E, 9D | Clear-Blunt Tip, Ceiling Fan, Vibration Resistant, BDTH | | | | | | | | | |
| | Cand | 40 15788 40BC 25PK | 120 200 CC-2V 3.75 1500 Clear-Blunt Tip | | | | | | | | | | | | |
| | | | 19110 40BC CD2 6PK 120 30 CC-2V 3.75 1500 Clear-Blunt Tip | | | | | | | | | | | | |
| | | | 19981 40BC CARD4 120 30 CC-2V 3.75 1500 Clear-Blunt Tip | | | | | | | | | | | | |
| | | | 27292 40BFC CD2 6PK 120 30 CC-2V 3.75 1500 Faceted-Blunt Tip | | | | | | | | | | | | |
| | | | 48701 40BC/RVL CD2 120 30 CC-2V 3.75 1500 Reveal® Clear-Blunt Tip | | | | | | | | | | | | |
| | | | 48702 40BC/RVL CD4 120 30 CC-2V 3.75 1500 Reveal® Clear-Blunt Tip | | | | | | | | | | | | |
| | Med | 40 12993 40BM CD2 | 120 60 C-9 4.62 1500 Clear-Blunt Tip | | | | | | | | | | | | |
| | | | 27310 40BM/CD4 120 6 C-9 4.62 1500 Clear-Blunt Tip | | | | | | | | | | | | |
| | | | 40891 40BFM PQ2/6 120 30 C-9 4.62 1500 Faceted-Blunt Tip | | | | | | | | | | | | |
| | | | 48699 40BM/RVL CD2 120 30 C-9 4.625 1500 Reveal® Clear-Blunt Tip | | | | | | | | | | | | |
| | Med | 40 48391 40CAM/F CD2 6PK | 120 30 CC-2V 4.56 1500 Frost-Bent Tip | | | | | | | | | | | | |
| | | | 16049 40CAM CARD4 120 30 CC-2V 4.56 1500 Clear-Bent Tip | | | | | | | | | | | | |
| | | | 22813 40CAM/LL/BB CD2 120 30 CC-2V 4.56 3000 Clear-Bent Tip, LL, Post Light | | | | | | | | | | | | |
| | Cand | 40 15778 40CAC 25PK | 120 200 CC-2V 4.12 1500 Clear-Bent Tip | | | | | | | | | | | | |
| | | | 16047 40CAC CARD4 120 30 CC-2V 4.12 1500 Clear-Bent Tip | | | | | | | | | | | | |
| | | | 16048 40CAC/F CARD4 120 30 CC-2V 4.12 1500 Frost-Bent Tip | | | | | | | | | | | | |
| | | | 19107 40CAC CD2 6PK 120 30 CC-2V 4.12 1500 Clear-Bent Tip | | | | | | | | | | | | |
| | | | 22812 40CAC/LL/BB CD2 120 30 CC-2V 4.12 3000 Clear-Bent Tip, LL, Post Light | | | | | | | | | | | | |
| | | | 40050 40CAC/L 120 120 CC-2V 4.12 3000 Clear-Bent Tip, LL | | | | | | | | | | | | |
| | Med | 40 18896 40FM CD2 6PK | 120 30 C-6 4.37 1500 Clear-Flame | | | | | | | | | | | | |
| | | | 18897 40FM/AU CD2 6PK 120 30 C-6 4.37 1500 Auradescent-Flame | | | | | | | | | | | | |
| | | | 18899 40FM/W CD2 6PK 120 30 C-6 4.37 1500 White-Flame | | | | | | | | | | | | |
| | Cand | 40 14958 40GC 12PK | 120 120 CC-2V 3 1500 5E, 9D Clear-Globe, BDTH | | | | | | | | | | | | |
| | | | 17730 40GC CD/2 120 60 CC-2V 3 1500 5E, 9D Clear-Globe, BDTH | | | | | | | | | | | | |
| | | | 23511 40GC/AU CD/2 120 60 CC-2V 3 1500 5E, 9D Auradescent - Globe, BDTH | | | | | | | | | | | | |
| | | | 27303 40GC CD4 120 30 CC-2V 3 1500 5E, 9D Clear-Globe, BDTH | | | | | | | | | | | | |
| | | | 27304 40GC/W CD4 120 30 CC-2V 3 1500 5E, 9D White-Globe, BDTH | | | | | | | | | | | | |
| | | | 48704 40GC/RVL CD2 120 30 CC-2V 3 1500 5E, 9D Reveal® Clear-Globe, BDTH | | | | | | | | | | | | |
| | | | 48705 40GC/W/RVL CD2 120 30 CC-2V 3 1500 5E, 9D Reveal® White-Globe, BDTH | | | | | | | | | | | | |
| | | | | Med | 40 31109 40GM/CL-PQ2/6 | 120 30 CC-2V 3 1500 5E, 9D Clear-Globe, Medium Base, BDTH | | | | | | | | | |
| 31110 40GM/W-PQ2/6 120 30 CC-2V 3 1500 5E, 9D White-Globe, Medium Base, BDTH | | | | | | | | | | | | | | | |
| 31113 40GM/AU-PQ2/6 120 30 CC-2V 3 1500 5E, 9D Auradescent-Globe, Medium Base, BDTH | | | | | | | | | | | | | | | |



Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information | |
|-------------------------------|------|------------------|------------------|------------------|-----------|-----------------|-------|-------|------------------|----------------|---------------|------|-------------|--------------------------|--|--------------------------------|
| DECORATIVE (CONTINUED) | | | | | | | | | | | | | | | | |
| 40 WATTS (CONTINUED) | | | | | | | | | | | | | | | | |
| | Med | 40 12979 | 40G25/W 6PK | 120 | 6 | C-9 | 4.5 | | 1500 | | | | | | White-Globe | |
| | | | 12980 | 40G25 6PK | 120 | 6 | C-9 | 4.5 | | 1500 | | | | | | Clear-Globe |
| | | | 20419 | 40G25/L/24 | 120 | 24 | C-9 | 4.5 | | 3000 | | | | | | Clear-Globe, LL |
| | | | 20420 | 40G25/W/L/24 | 120 | 24 | C-9 | 4.5 | | 3000 | | | | | | White-Globe, LL |
| | | | 25547 | 40G25/W CPK | 120 | 24 | C-9 | 4.5 | | 1500 | | | | | | White-Globe |
| | | | 25548 | 40G25 CPK | 120 | 24 | C-9 | 4.5 | | 1500 | | | | | | Clear-Globe |
| | | | 46675 | 40DG25/F PQ1/6 | 120 | 30 | C-9 | 4.5 | | 1500 | | | | | | Designer-Frosted Swirl Top |
| | | | 48694 | 40G25C/RVL PQ1/6 | 120 | 6 | C-9 | 4.5 | | 1500 | | | | | | Reveal® |
| | | | 48695 | 40G25W/RVL PQ1/6 | 120 | 6 | C-9 | 4.5 | | 1500 | | | | | | Reveal® |
| | Med | 40 27499 | 40G30/W | 120 | 24 | CC-6 | 5 | | 2500 | | | | | | White-Globe | |
| | | Med | 40 36191 | 40G40/W 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | | | | | White-Globe | |
| | | | 37914 | 40G40/CL | 120 | 24 | CC-6 | 6.93 | | 2500 | | | | | Clear-Globe | |
| | Med | 40 48707 | 40T10/RVL CD1 | 120 | 25 | C-8 | 5.625 | | 1000 | | | | | | Reveal® Clear-Showcase | |
| | | | 48709 | 40T10/F/RVL CD1 | 120 | 25 | C-8 | 5.625 | | 1000 | | | | | Reveal® Frost-Showcase | |
| | Med | 40 46680 | 40M14/F/CF PQ2/6 | 120 | 30 | C-9 | 3.25 | | 1500 | | | | | | Frost-Swirl Top | |
| 60 WATTS | | | | | | | | | | | | | | | | |
| | Cand | 60 27298 | 60BC/CD4 | 120 | 30 | CC-2V | 3.75 | | 1500 | | | | | | Clear-Blunt Tip | |
| | | | 48714 | 60BC/RVL CD2 | 120 | 30 | CC-2V | 3.75 | | 1500 | | | | | Reveal® Clear-Blunt Tip | |
| | | | 48715 | 60BC/RVL CD4 | 120 | 30 | CC-2V | 3.75 | | 1500 | | | | | Reveal® Clear-Blunt Tip | |
| | Med | 60 22757 | 60BM CD/2 | 120 | 60 | | | | | | | | | | Clear-Blunt Tip | |
| | | | 27497 | 60BM/CD4 | 120 | 6 | C-9 | 4.62 | | 1500 | | | | | Clear-Blunt Tip | |
| | | | 48713 | 60BM/RVL CD2 | 120 | 30 | C-9 | 4.625 | | 1500 | | | | 2C, 9I | Reveal® Clear-Blunt Tip | |
| | Med | 60 21009 | 60CAM CARD4 | 120 | 30 | CC-2V | 4.56 | | 1500 | | | | | | Clear-Bent Tip, BDTH | |
| | | | 48401 | 60CAM CD2 6PK | 120 | 30 | CC-2V | 4.56 | | 1500 | | | | | Clear-Bent Tip | |
| | Cand | 60 15781 | 60CAC 25PK | 120 | 200 | CC-2V | 4.12 | | 1500 | | | | | | Clear-Bent Tip | |
| | | | 16050 | 60CAC CARD4 | 120 | 30 | CC-2V | 4.12 | | 1500 | | | | | Clear-Bent Tip | |
| | | | 16051 | 60CAC/F CARD4 | 120 | 30 | CC-2V | 4.12 | | 1500 | | | | | Frost-Bent Tip | |
| | | | 19153 | 60CAC CD/2 6PK | 120 | 30 | CC-2V | 4.12 | | 1500 | | | | | Clear-Bent Tip | |
| | | | 48404 | 60CAC/F CD2 6PK | 120 | 30 | CC-2V | 4.12 | | 1500 | | | | | Frost-Bent Tip | |
| | Cand | 60 23091 | 60GC CD/2 | 120 | 60 | CC-2V | 3 | | 1500 | | | | 5E, 9D | | Clear-Globe, BDTH | |
| | | | 40388 | 60GC CD4 | 120 | 30 | CC-2V | 3 | | 1500 | | | | 5E, 9D | | Clear-Globe, BDTH |
| | | | 40389 | 60GC/W CD4 | 120 | 30 | CC-2V | 3 | | 1500 | | | | 5E, 9D | | White-Globe, BDTH |
| | Med | 60 31114 | 60GM/CL-PQ2/6 | 120 | 30 | CC-2V | 3 | | 1500 | | | | 5E, 9D | | Clear-Globe, Medium Base, BDTH | |
| | | | 31115 | 60GM/W-PQ2/6 | 120 | 30 | CC-2V | 3 | | 1500 | | | | 5E, 9D | | White-Globe, Medium Base, BDTH |
| | Med | 60 14846 | 60G25 6PK | 120 | 6 | C-9 | 4.5 | | 1500 | | | | | | Clear-Globe | |
| | | | 14848 | 60G25/W 6PK | 120 | 6 | C-9 | 4.5 | | 1500 | | | | | White-Globe | |
| | | | 20427 | 60G25/24 | 120 | 24 | C-9 | 4.5 | | 1500 | | | | | Clear-Globe | |
| | | | 20428 | 60G25/W/24 | 120 | 24 | C-9 | 4.5 | | 1500 | | | | | White-Globe | |
| | Med | 60 14850 | 60G30/W 6PK | 120 | 24 | CC-9 | 5 | | 2500 | | | | | White-Globe. Retail Pack | | |
| | Med | 60 14187 | 60G40 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | | | | | | Clear-Globe | |
| | | | 16741 | 60G40/W CPK | 120 | 24 | CC-6 | 6.93 | | 2500 | | | | | White-Globe | |
| | | | 49780 | 60G40/W 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | | | | | White-Globe | |
| | Med | 60 48710 | 60T10/RVL CD1 | 120 | 25 | C-8 | 5.625 | | 1000 | | | | | | Reveal® Clear-Showcase | |
| 75 WATTS | | | | | | | | | | | | | | | | |
| | Med | 75 28917 | 75E17/TF-PQ1/4 | 120 | 20 | CC-6 | 5 | | 4000 | | | | | | Post Light, Teflon® Coated, Saf-T-Gard® BB | |
| | Med | 75 36193 | 75G40/W 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | | | | | | White-Globe | |



Incandescent Lamps

| Shape | Base | Order Watts Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information |
|-----------------------------------|------|------------------|-----------------|-------|-----------|-----------------|------|-----|------------------|----------------|---------------|------|-------------|-----------|---|
| DECORATIVE (CONTINUED) | | | | | | | | | | | | | | | |
| 100 WATTS | | | | | | | | | | | | | | | |
| F20 | Med | 100 44540 | 100F20/TF-PQ1/6 | 120 | 30 | CC-9 | 5 | | 3000 | | | | | | Post Light, Teflon® Coated, Saf-T-Gard® BB |
| G40 | Med | 100 16742 | 100G40/W CPK | 120 | 24 | CC-6 | 6.93 | | 2500 | | | | | | White-Globe |
| | | 49781 | 100G40/W 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | | | | | | White-Globe |
| 150 WATTS | | | | | | | | | | | | | | | |
| G40 | Med | 150 16585 | 150G40/W | 120 | 24 | CC-6 | 6.93 | | 2500 | | | | | | White-Globe |
| PORTABLE LIGHTING PRODUCTS | | | | | | | | | | | | | | | |
| R30 | Med | 75 44848 | PLK-1 | 120 | 4 | CC-6 | | | | | | | 2A, 5E, 9K | | Plant Light Kit includes one 75R30/PL Plant Light lamp, UL listed holder and information booklet. |

GENERAL INFORMATION

1

▲ WARNING

Risk of electric shock

- a. Turn off power before inspection, installation or removal

2

▲ WARNING

Risk of fire

- a. Keep combustible materials away from lamp
- b. Use in fixture rated for this product
- c. Use in fixture rated for this product – see instructions
- d. Operate base down to horizontal only
- e. Keep away from bed coverings, drapes and other combustible materials
- f. Do not use in enclosed fixture or with lamp shade
- g. Use in a high intensity fixture rated for this product
- h. Do not use as a night light
- i. Burning position base down only

3

▲ WARNING

Lamp emits IR radiation which may cause eye injury

- a. Use in fixture approved for this product
- b. Do not use on infant, disabled, sleeping, or unconscious person/animal unable to avoid potential injury

4

▲ WARNING

Pressurized lamp-unexpected rupture may cause injury, fire, or property damage

- a. Use eye protection when handling lamp
- b. Avoid direct water/liquid contact
- c. Use in enclosed fixture rated for this product
- d. Operate lamp only in specified position

5

▲ WARNING

Unexpected lamp rupture may cause injury, fire, or property damage

- a. Do not exceed rated voltage
- b. Avoid direct water/liquid contact
- c. Use in enclosed fixture rated for this product
- d. Do not use lamp if outer glass is scratched or broken
- e. Avoid direct water, liquid, or metal contact

6

▲ WARNING

Risk of burn

- a. Do not touch operating lamp

7

▲ CAUTION

Risk of burn

- a. Allow lamp to cool before handling
- b. Allow lamp/fixture to cool before handling
- c. Do not touch operating lamp

8

▲ CAUTION

Lamp may shatter and cause injury if broken

- a. Do not use excessive force when installing lamp

9

OPERATING INSTRUCTIONS

- a. Burning position – base up
- b. Burning position – horizontal
- c. Burn base down only
- d. Burn base down to horizontal
- e. For best performance burn lamp within 45 degrees of vertical base up
- f. For best performance burn within 45 degree of base down to horizontal
- g. For best performance operate base up within 30° of vertical
- h. For best performance burn base down
- i. Do not burn in base up position
- j. To produce all three levels of light, this lamp should be tightened firmly, but not forcibly, in the socket to assure that all contacts are connected
- k. Should not be used in equipment where the base lamp will exceed 550°F (260°C)
- l. Will operate in any burning position, but fixed-socket usage other than base up, or continuous burning in any position in ambient temperatures above 150°F (66°C), may result in some loss of protective coating
- m. Reflectors and accessories may raise bulb temperature
- n. For use with heat-resistant connector supported by bulb rim or metal shell of base
- o. For best performance replace lamp if it blisters or darkens



INCANDESCENT LAMPS CROSS REFERENCE

| <i>GE Description</i> | <i>Osram/Sylvania Description</i> | <i>Philips Description</i> |
|---------------------------|---|----------------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | |
| INCANDESCENT LAMPS | | |
| 3S6/5 24PK 130V | 3S6/5 130V | 3S6/5 120-130V |
| 4C7 CARD 2 | 4C7/BL/2PK | BC-4C7 |
| 4C7/W CD2 | 4C7/W/2PK 120V | BC4C7/W |
| 10S11N | 10S11N/CL | 10S11N |
| 10S11N/F | 10S11/F | 10S11N/IF |
| 15S14/GR/CL 130V | 15S14/CL 130V | — |
| 15CAC/F-CD/2 | — | — |
| 25BC (120) | 25B10C/T/BL/2PK | 25B101/2 (120) |
| 25CAC (120) | 25B10C/BL/2PK | 25BA9C (120) |
| 25CAC/F (120) | 25B10C/W/BL/2PK | 25BA9C/F (120) |
| 25CAC/L (120) | 25B10C/DL/BL | 25BA9C/4M |
| 25FM CD2 (120) | 25F (120-125) | 25F15 (120) |
| 25GC (120) | — | 25G161/2C (120) |
| 40A15 | 40A15 120V | 40A15-SPB-130 |
| 40A 130V | 40A-130V | 40A-130V |
| 40A/CL 130V | 40R/CL-130V | 40A/CL-120-130 |
| 40R14/N/CD | 40R14N/RP | 40R14/N |
| 40S11N/1/F | 40S11N/CF 120V | 40S11N/IF 120V |
| 40T61/2/2 | 40T6.5/CL/BL/6PK | 40T6-1/2/2 120V |
| 40T8 | 40T8 120-130V | 40T8 115-125V |
| 40T10 | 40T10-120V | 40T10-120-130V |
| 40A/34/WMP/99 (120, 130) | 40A/99/XL (120,130) | 40A/99 (120,130) |
| 40BC (120) | 40C91/2C/BL (120-125) | 40B101/2 (120) |
| 40BC/W (120) | 40C91/2C/W/BL (120-125) | 40B101/2/W (120) |
| 40CAC (120) | 40B10C/BL (120-125) | 40BA9C (120) |
| 40CAC/F (120) | — | 40BA9C/F (120) |
| 40CAM (120) | 40C11/BL (120) | 40BA91/2 (120) |
| 40CAM/F (120) | — | 40BA91/2/(120) |
| 40FM (120) | 40F (120-125) | 40F15 (120) |
| 40S11N/1/F | 40S11N/CF | 40S11N/IF (120) |
| 50A21 (12, 30, 34) | 50A21 | 50A (12,34) |
| 50A/RS 24 PK | 50A/RS-120V | — |
| 50A/RS/CVG | 50A/RS/SL | 50A/RS/TF (120) |
| 50/150 | 50/150A/W | 50/150T/SW (120) |
| 60A 48 PK | 60A/CVP-130V | 60A19/35-130V |
| 60A/CVG (120) | 60A/SL (120) | 60A/TF (120) |
| 60BC (120) | 60B10C/ST/BL (120-125) | 60B101/2 (120) |
| 60CAC (120) | 60B10C/BL (120-125) | 60BA9C (120) |

| <i>GE Description</i> | <i>Osram/Sylvania Description</i> | <i>Philips Description</i> |
|---------------------------------------|---|-------------------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | |
| INCANDESCENT LAMPS (CONTINUED) | | |
| 60CAC/F (120) | — | 60BA9C/F (120) |
| 60CAM (120) | — | 60BA91/2 (120) |
| 60A/PL | 60A/GRO | 60A/AGRO (120) |
| 60T10F/CD (120) | 60T10/CF (120) | 60T10/64IF (120) |
| 65R30/FL/LL | — | 65BR30/FL/LL551 |
| 65R30/SP/LL | — | 65BR30/SP/LL20/1 |
| 75A 48PK | 75A/RP 120V | 75A-120V |
| 75 A/S (120, 130) | 75A/99/XL (120,130) | 75A/99 (120,130) |
| 65R30/PL-1 6PK | 65BR30/GRO/RP 120V | — |
| 75A/CL 24PK | 75A/CL/RP 120V | 75A/CL-130V |
| 75A/RS 12PK | 75A/RS/RP 120V | 75A/RS/VS 120V |
| 75ER30 | 75ER30 120V | 75ER30 120V |
| 65R30/FL/B | 65BR30/BV/RP 120V | 75BR30/B 120V |
| 65R30/FL/G | 65BR30/G/RP 120V | 75BR30/G 120V |
| 65R30/FL/Y | 65BR30/Y/RP 120V | 75BR30/Y 120V |
| 65R30/FL/PK | 65BR30/PK/RP 120V | 75BR30/PK 120V |
| 100A 130V | 100A/CVP 130V | 100A 130V |
| 100A/S 130V | 100A/RS/XL | 100A/RS/VS 125-130V |
| 100A/CL 24 PK | 100A/CL-120V | 100A/CL 120V |
| 100A/90WWM | 100/90/W/ES/4PK | 100-90/EW/48PK |
| 100A/RS | 100A/RS/RP 130V | 100A/RS/VS 125-130V |
| 100A23/VS 24PK | — | — |
| 100A23 | — | 100A (12) |
| 100A21/99 (120, 130) | 100A/99/XL (120,130) | 100A/99 (120,130) |
| 100A21/SBIF (120) | — | 100A/SBIF (120) |
| 100A/RS (120,130) | 100A/RS | 100A/RS/VS (120,130) |
| 100A23/VS (120,130) | 100A/VS (120,125,130) | 100A/RS/VS(2) |
| 100A/RS/CVG (120) | 100A21/RS/SL | 100A/RS/TF (120) |
| 150A21/99/IF (120,130) | — | 150A21/RS/VS/BR 120-130V LAMP |
| 200A21/99CL (120-130) | — | 200A/99CL (130) |
| 200PS30/CVG (120) | 200PS30/SL | 200/TF (120) |
| 200PS30/RS/CVG (120) | 200PS30/23/SL | 200PS30/RS/TF (120) |
| 250R40/10 | 250R40/10 | 250R40/HR (120) |
| 300M 120V | 300M/CL 120V | 300M 120V |
| 300M (120, 130V) | 300M/CL 130V | 300-120V CLR PS30 |
| 300M/IF 130V | 300M/IF 130V | 300M/PS30IF 130V |
| 300M/99 (120, 130V) | 300M/CL/99/XL 130V | 300M/99 130V |



HALOGEN PAR38 LAMPS

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HALOGEN COMPACT PAR LAMPS

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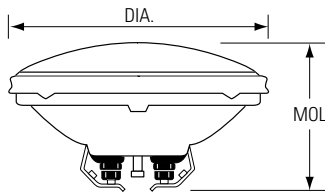
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BULB IDENTIFICATION



DIA. in.: Diameter of bulb at widest point.

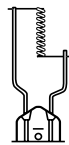
MOL in.: Maximum Overall Length including base or pins.

LCL in.: Distance between the center of the filament and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

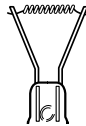
FILAMENT IDENTIFICATION



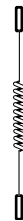
C-8
CC-8



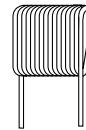
C-2V
CC-2V



C-6
CC-6



C-8
CC-8



C-6
Oval

BASE IDENTIFICATION



2-Pin (Round)
GX5.3



Can DC Bay



2-Pin
GY6.35



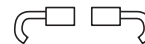
Recessed Single Contact
R7s



Screw Terminals



4" Leads



1" Ribbon Leads



6" Flex Leads



2-Pin
GU4



2-Pin
GU5.3



2-Pin
G4



Turn & Lock
GU7



GU10



G8



G9



2-Pin Pf



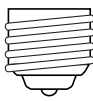
Min Screw
E10



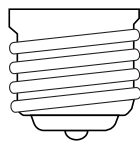
DC Bay
BA15d



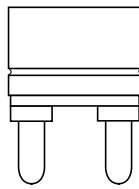
Min Cand
E11



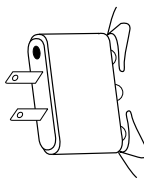
Med Screw
E26



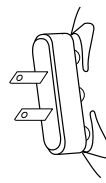
Mog Screw
E39



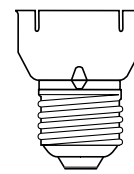
Mogul BiPost
G38



Ext. Mog End Pr
GX16d



Mog End PR
GX16d



Med Skirted
E26/50x39



INTRODUCTION

Halogen lamps provide a small, white light source with excellent color rendering. Unlike standard incandescent lamps, halogen lamps use a halogen gas which allows the bulbs to burn longer without sacrificing light output.

Compared to incandescent lamps, halogen lamps provide:

- Crisp, white light
- Excellent beam control
- Compact size
- High lumen maintenance
- Long life

PRODUCT INFORMATION

PAR38* VS. STANDARD HALOGEN

Retail HIR™ (PAR38) (pg 2-5)

- Up to 42% more efficient
- Up to 27% energy savings
- Up to 60% longer life – 4000 hours

HIR XL® UltraLong Life (PAR38) (pg 2-5)

- Up to 13% energy savings
- Ultra long life – 6000 hours

HIR™ (PAR38) (pgs 2-5 to 2-6)

- Up to 28% more efficient
- Up to 22% energy savings
- Up to 20% longer life – 3000 hours

Silver Saver™ (PAR38) (pg 2-6)

- Up to 14% more efficient
- Up to 12% energy savings
- Up to 20% longer life – 3000 hours

Halogen Plus (PAR38) (pgs 2-6 to 2-7)

- Longer life than standard halogen – 2500 hours
- Wide variety of wattages and beam spreads

Standard Halogen (PAR38) (pg 2-7)

- Crisp, white light
- Life – 2000 hours

Quartzline® (PAR38) (pg 2-7)

- High light output for long throws (250 watt)
- Long life – 4200 hours

COMPACT PAR

Compact HIR™ (PAR30) (pg 2-7)

- Most efficient PAR30
- Long life – 4000 hours

Long Neck PAR30 Halogen (PAR30L) (pgs 2-7 to 2-8)

- Energy efficient replacement for R30 lamps
- Ideal for recessed fixtures

Compact PAR Halogen (PAR20/PAR30) (pg 2-8)

- Small size for “low profile” fixture
- Energy efficient replacement for R20/R30 lamps
- Long life – 3000 hours

Diamond Precise® Electronic (MR16)° (pg 2-9)

- 58% energy savings vs 50PAR20/50R20
- 2X longer life than 50PAR20/50R20 – 5000 hours
- Precise beam control, 90% lumen maintenance
- 120V Edison base, fully dimmable

MR

Turn & Lock (TAL) ConstantColor® (MR16) (pg 2-11)

- User-friendly base... easy to install and remove
- Over 90% maintained light over life
- Virtually no color shift
- Suitable for use in open fixtures

ConstantColor® Precise™ Cover Glass (MR16) (pgs 2-11 to 2-12)

- Cover glass lens protects bulb from dust and dirt
- Suitable for use in open fixtures

ConstantColor® Precise™ (MR16) (pg 2-12)

- Precise beam control
- No color shift
- Over 90% maintained light output over life
- Long life – up to 6000 hours (50-watt)

Precise™ Cover Glass IR (MR16) (pg 2-13)

- Energy saving MR16
- 4000 hour lamp life

Standard MR (MR16/MR11) (pgs 2-13 to 2-14)

- Small size for “low profile” look
- Crisp, white light

LINEAR QUARTZ

Linear Quartzline® HIR™ (pgs 2-14 to 2-15)

- 30%-40% energy cost savings vs. standard quartz lamps
- 95% maintained light output over life
- Cooler operation increases fixture life

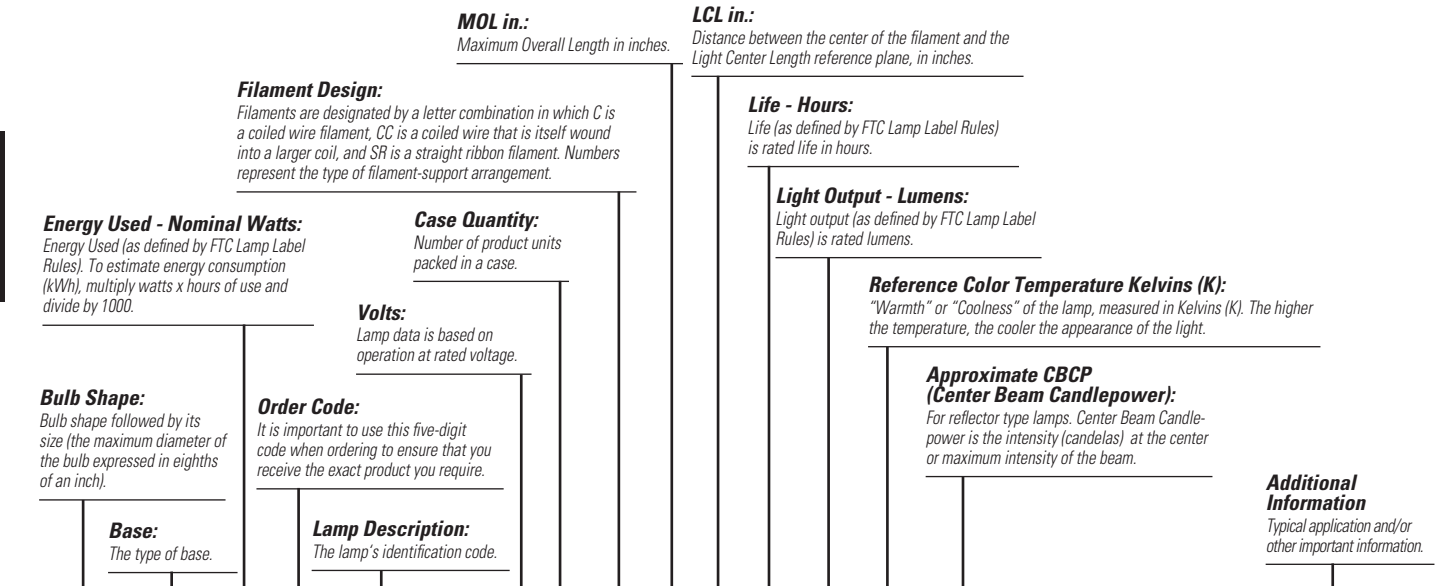
* All comparisons made against standard and Halogen Plus at same/similar lumen output.

° Although face lumens are 53% less, the multi-faceted reflector concentrates lumens on target, diminishing extraneous light.



HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Halogen lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these groups, lamps are listed alphabetically by bulb shape.



| Bulb Shape | Base Type | Order Watts | Order Code | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information |
|----------------------------|-----------|-------------|------------|----------------------|------------|---------------|------|------|-----|------------------|----------------|---------------------|-------|-----------------------|------------------------|
| HALOGEN PAR38 LAMPS | | | | | | | | | | | | | | | |
| HIR™ | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 50 | 12396 | 50PAR/HIR/SP9 | 120 | 12 | CC-8 | 5.31 | | 3000 | 800 | 2810 | 16000 | ➔ 1a, 2a, 4f, 9a, 10c | Spotlight |

50 PAR / HIR / SP 9

- Identifies the lamp's wattage.
- Identifies the lamp shape and the bulb diameter in eighths of an inch.
- Identifies the lamp type.
- Identifies as Spotlight.
- Identifies beam angle, code may also include packaging information.

HALOGEN BRAND NAME CROSS-REFERENCE




| GE | OSRAM/SYLVANIA | PHILIPS |
|----------------------------------|------------------------------|--------------------|
| Retail HIR™ | — | — |
| HIR/XL™ PAR | — | — |
| HIR™ PAR | Capsylite® PAR IR™ | Masterline™ IRC |
| Silver Saver™ | — | — |
| Edison™ | — | — |
| Halogen Plus PAR | Capsylite® PAR | Masterline™ 2500 |
| Standard Halogen PAR | — | Masterline™ 2000 |
| Compact PAR | Capsylite® PAR | Masterline™ PAR |
| Diamond Precise® | — | — |
| Turn & Lock (TAL) ConstantColor® | — | — |
| ConstantColor® Precise™ | Tru-Aim Titan® | Continuum Color® |
| Precise™ IR | Tru-Aim® IR™ | Masterline™ ES IRC |
| Standard MR16 | Tru-Aim® | Continuum® |
| Halogen A-Line | Capsylite® A-Line (Midbreak) | Halogena® |

ATTENTION: This brand-name cross reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or other auxiliary equipment.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION





1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 2-2.
4. Find your lamp in the table containing the bulb shape, size and base, which are all listed by wattage.



| Bulb Shape | Base Type | Order Watts | Code | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information | |
|--|---|-----------------|------------------|------------------|------------------|---------------|------|------|------|------------------|----------------|---------------------|-------|-----------------------|------------------------|----------------------------------|
| HALOGEN PAR38 LAMPS | | | | | | | | | | | | | | | | |
| RETAIL HIR™ & SILV-IR | | | | | | | | | | | | | | | | |
|  | PAR38 Med Skirt | 45 | 16344 | 45PAR/HIR/R/SP10 | 120 | 12 | | 5.31 | | | 4000 | 800 | 2750 | 14000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | | 16345 | 45PAR/HIR/R/FL25 | 120 | 12 | | 5.31 | | | 4000 | 800 | 2750 | 3400 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 50 | 46168 | 50PAR/HIR/S/SP10 | 120 | 12 | | 5.31 | | | 4000 | 800 | 2750 | 14000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight - Heavy Duty Filament |
| | | | 46167 | 50PAR/HIR/S/FL25 | 120 | 12 | | 5.31 | | | 4000 | 800 | 2750 | 3400 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight - Heavy Duty Filament |
| | | 55 | 16346 | 55PAR/HIR/R/SP10 | 120 | 12 | | 5.31 | | | 4000 | 1050 | 2800 | 17000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | | 16347 | 55PAR/HIR/R/FL25 | 120 | 12 | | 5.31 | | | 4000 | 1050 | 2800 | 4000 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 60 | 46165 | 60PAR/HIR/S/SP10 | 120 | 12 | | 5.31 | | | 4000 | 1050 | 2800 | 17000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight - Heavy Duty Filament |
| | | | 46166 | 60PAR/HIR/S/FL30 | 120 | 12 | | 5.31 | | | 4000 | 1050 | 2800 | 2800 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight - Heavy Duty Filament |
| | | 90 | 16348 | 90PAR/HIR/R/SP10 | 120 | 12 | | 5.31 | | | 4000 | 2030 | 2850 | 30000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | | 16349 | 90PAR/HIR/R/FL25 | 120 | 12 | | 5.31 | | | 4000 | 2030 | 2850 | 7000 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | HIR XL® (ULTRALONG LIFE) PAR38 | | | | | | | | | | | | | | | |
| |  | PAR38 Med Skirt | 45 | 40793 | 45PAR/HIR/SP12XL | 120 | 6 | CC-8 | 5.31 | | | 6000 | 600 | 2680 | 7000 | ↘ 1a, 2a, 4f, 9a, 10c |
| | | | 40790 | 45PAR/HIR/FL40XL | 120 | 6 | CC-8 | 5.31 | | | 6000 | 600 | 2680 | 1300 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 55 | 40794 | 55PAR/HIR/SP12XL | 120 | 6 | CC-8 | 5.31 | | | 6000 | 800 | 2680 | 9000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | | 40792 | 55PAR/HIR/FL40XL | 120 | 6 | CC-8 | 5.31 | | | 6000 | 800 | 2680 | 2000 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 90 | 40795 | 90PAR/HIR/SP12XL | 120 | 6 | CC-8 | 5.31 | | | 6000 | 1470 | 2800 | 17000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | | 40791 | 90PAR/HIR/FL40XL | 120 | 6 | CC-8 | 5.31 | | | 6000 | 1470 | 2800 | 2800 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| HIR™ | | | | | | | | | | | | | | | | |
|  | PAR38 Med Skirt | 50 | 40937 | 50PAR/HIR/SP6 | 120 | 12 | CC-8 | 5.31 | | | 3000 | 800 | 2810 | 20000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | | 12396 | 50PAR/HIR/SP9 | 120 | 12 | CC-8 | 5.31 | | | 3000 | 800 | 2810 | 16000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | | 12397 | 50PAR/HIR/FL25 | 120 | 12 | CC-8 | 5.31 | | | 3000 | 800 | 2810 | 3400 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 50 | 22850 | 50PAR/HIR/FL25 | 130 | 12 | CC-8 | 5.31 | | | 3000 | 800 | 2810 | 3400 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 46 | | | 120 | | | | | 6000 | 600 | | | | | |
| | | 60 | 11881 | 60PAR/HIR/SP10 | 120 | 6 | CC-8 | 5.31 | | | 3000 | 1050 | 2850 | 17000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | | 18627 | 60PAR/HIR/SP10 | 120 | 12 | CC-8 | 5.31 | | | 3000 | 1050 | 2850 | 17000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | 60 | 18629 | 60PAR/HIR/SP10 | 130 | 12 | CC-8 | 5.31 | | | 3000 | 1050 | 2850 | 17000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | 54 | | | 120 | | | | | 6000 | 800 | | | | | |
| | | 60 | 11878 | 60PAR/HIR/FL30 | 120 | 6 | CC-8 | 5.31 | | | 3000 | 1050 | 2850 | 2800 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | | 18626 | 60PAR/HIR/FL30 | 120 | 12 | CC-8 | 5.31 | | | 3000 | 1050 | 2850 | 2800 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 60 | 18628 | 60PAR/HIR/FL30 | 130 | 12 | CC-8 | 5.31 | | | 3000 | 1050 | 2850 | 2800 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 54 | | | 120 | | | | | 6000 | 800 | | | | | |
| | | 60 | 10467 | 60PAR/HIR/FL40 | 120 | 12 | CC-8 | 5.31 | | | 3000 | 1050 | 2850 | 1700 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | | 20947 | 60PAR/HIR/WFL | 120 | 12 | CC-8 | 5.31 | | | 3000 | 1050 | 2850 | | ↘ 1a, 2a, 4f, 9a, 10c | Wide Floodlight |
| | | 60 | 20948 | 60PAR/HIR/WFL | 130 | 12 | CC-8 | 5.31 | | | 3000 | 1050 | 2850 | | ↘ 1a, 2a, 4f, 9a, 10c | Wide Floodlight |
| | | 54 | | | 120 | | | | | 6000 | 800 | | | | | |
| | | 70 | 46367 | 70PAR/HIR/SP10 | 120 | 12 | CC-8 | 5.31 | | | 3000 | 1260 | 2900 | 19000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | 70 | 46369 | 70PAR/HIR/SP10 | 130 | 12 | CC-8 | 5.31 | | | 3000 | 1260 | 2900 | 19000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | 64 | | | 120 | | | | | 6000 | 950 | | | | | |
| | | 70 | 46368 | 70PAR/HIR/FL25 | 120 | 12 | CC-8 | 5.31 | | | 3000 | 1260 | 2900 | 4700 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | 70 | 46370 | 70PAR/HIR/FL25 | 130 | 12 | CC-8 | 5.31 | | | 3000 | 1260 | 2900 | 4700 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | 64 | | | 120 | | | | | 6000 | 950 | | | | | | |
| | 70 | 16239 | 70PAR/HIR/FL/CON | 120 | 6 | CC-8 | 5.31 | | | 3000 | 1260 | 2900 | 4700 | 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | 80 | 27216 | 80PAR/HIR/SP10 | 120 | 12 | CC-8 | 5.31 | | | 3000 | 1500 | 2900 | 22000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | 27217 | 80PAR/HIR/SP12 | 120 | 12 | CC-8 | 5.31 | | | 3000 | 1500 | 2900 | 17500 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | 27218 | 80PAR/HIR/FL25 | 120 | 12 | CC-8 | 5.31 | | | 3000 | 1500 | 2900 | 5000 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |



Halogen Lamps

| Bulb Shape | Base Type | Order Watts | Code | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information | |
|--|--|-----------------|-----------------------|-------------------------|---------------------|---------------|------|------|------|------------------|----------------|---------------------|-----------------------|-----------------------|------------------------|-----------|
| HALOGEN PAR38 LAMPS (CONTINUED) | | | | | | | | | | | | | | | | |
| HIR™ (CONTINUED) | | | | | | | | | | | | | | | | |
|  | PAR38 Med Skirt | 100 | 18635 | 100PAR/HIR/SP10 | 120 | 12 | CC-8 | 5.31 | | 3000 | 2030 | 2900 | 30000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | | 11885 | 100PAR/HIR/SP10 | 120 | 6 | CC-8 | 5.31 | | 3000 | 2030 | 2900 | 30000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | 100 | 18636 | 100PAR/HIR/SP10 | 130 | 12 | CC-8 | 5.31 | | 3000 | 2030 | 2900 | 30000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | 88 | | | 120 | | | | | 6000 | 1470 | | | | | |
| | | 100 | 11883 | 100PAR/HIR/FL25 | 120 | 6 | CC-8 | 5.31 | | 3000 | 2030 | 2900 | 7000 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | | 18631 | 100PAR/HIR/FL25 | 120 | 12 | CC-8 | 5.31 | | 3000 | 2030 | 2900 | 7000 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | 100 | 18633 | 100PAR/HIR/FL25 | 130 | 12 | CC-8 | 5.31 | | 3000 | 2030 | 2900 | 7000 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | 88 | | | 120 | | | | | 6000 | 1470 | | | | | |
| | | 100 | 10473 | 100PAR/HIR/FL40 | 120 | 12 | CC-8 | 5.31 | | 3000 | 2030 | 2900 | 3400 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | SILVER SAVER™ | | | | | | | | | | | | | | | |
|  | PAR38 Med Skirt | 53 | 16338 | 53PAR/H/SS/SP10 | 120 | 12 | CC-8 | 5.31 | | 3000 | 800 | 2800 | 14000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | | 16339 | 53PAR/H/SS/FL25 | 120 | 12 | CC-8 | 5.31 | | 3000 | 800 | 2800 | 2900 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | 53 | 27989 | 53/PAR/HSS/SP10 | 130 | 12 | CC-8 | 5.31 | | 3000 | 800 | 2800 | 14000 | 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | 47 | | | 120 | | | | | 6000 | 608 | | | | | |
| | | 53 | 27991 | 53/PAR/HSS/FL25 | 130 | 12 | CC-8 | 5.31 | | 3000 | 800 | 2800 | 2900 | 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | 47 | | | 120 | | | | | 6000 | 608 | | | | | |
| | | 66 | 16340 | 66PAR/H/SS/SP10 | 120 | 12 | CC-8 | 5.31 | | 3000 | 1050 | 2850 | 18000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | | 16341 | 66PAR/H/SS/FL25 | 120 | 12 | CC-8 | 5.31 | | 3000 | 1050 | 2850 | 4000 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | 66 | 28263 | 66/PAR/HSS/SP10 | 130 | 12 | CC-8 | 5.31 | | 3000 | 1050 | 2850 | 18000 | 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | 58 | | | 120 | | | | | 6000 | 800 | | | | | |
| | | 66 | 28265 | 66PAR/HSS/FL25 | 130 | 12 | CC-8 | 5.31 | | 3000 | 1050 | 2850 | 4000 | 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | 58 | | | 120 | | | | | 6000 | 800 | | | | | |
| | | 79 | 16342 | 79PAR/H/SS/SP10 | 120 | 12 | CC-8 | 5.31 | | 3000 | 1310 | 2850 | 20000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | | 16343 | 79PAR/H/SS/FL25 | 120 | 12 | CC-8 | 5.31 | | 3000 | 1310 | 2850 | 4700 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | 79 | 28267 | 79PAR/HSS/SP10 | 130 | 12 | CC-8 | 5.31 | | 3000 | 1310 | 2850 | 20000 | 1a, 2a, 4f, 9a, 10c | Spotlight | | |
| | 70 | | | 120 | | | | | 6000 | 1000 | | | | | | |
| | 79 | 28268 | 79PAR/HSS/FL25 | 130 | 12 | CC-8 | 5.31 | | 3000 | 1310 | 2850 | 4700 | 1a, 2a, 4f, 9a, 10c | Floodlight | | |
| | 70 | | | 120 | | | | | 6000 | 1000 | | | | | | |
| LONG LIFE PAR38 | | | | | | | | | | | | | | | | |
|  | PAR38 Med Skirt | 45 | 16354 | 45PAR/SP10 XL-EG | 120 | 6 | CC-8 | 5.31 | | 6000 | 520 | 2700 | 8000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | | 16355 | 45PAR/FL25 XL-EG | 120 | 6 | CC-8 | 5.31 | | 6000 | 520 | 2700 | 2000 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | 90 | 16357 | 90PAR/SP10 XL-EG | 120 | 6 | CC-8 | 5.31 | | 6000 | 1310 | 2800 | 20000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | | 16358 | 90PAR/FL25 XL-EG | 120 | 6 | CC-8 | 5.31 | | 6000 | 1310 | 2800 | 4700 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | 45 | 20757 | 45PAR/SP10XL-OD | 120 | 6 | CC-8 | 5.31 | | 6000 | 520 | 2700 | 8000 | 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | | 20758 | 45PAR/FL25XL-OD | 120 | 6 | CC-8 | 5.31 | | 6000 | 520 | 2700 | 2000 | 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | 90 | 20759 | 90PAR/SP10XL-OD | 120 | 6 | CC-8 | 5.31 | | 6000 | 1310 | 2800 | 20000 | 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | | 20763 | 90PAR/FL25XL-OD | 120 | 6 | CC-8 | 5.31 | | 6000 | 1310 | 2800 | 4700 | 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | HALOGEN PLUS | | | | | | | | | | | | | | | |
| |  | PAR38 Med Skirt | 45 | 17470 | 45PAR/H/SP10 | 120 | 6 | CC-8 | 5.31 | | 2500 | 540 | 2750 | 8000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight |
| 45 | | | 16229 | 45PAR/H/SP10 | 130 | 12 | CC-8 | 5.31 | | 2500 | 540 | 2750 | 8000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | 40 | | | 120 | | | | | 5000 | 410 | | | | | |
| | | 45 | 17471 | 45PAR/H/FL25 6PK | 120 | 6 | CC-8 | 5.31 | | 2500 | 540 | 2750 | 2000 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | 45 | 16231 | 45PAR/H/FL25 | 130 | 12 | CC-8 | 5.31 | | 2500 | 540 | 2750 | 2000 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | 40 | | | 120 | | | | | 5000 | 410 | | | | | |
| | | 60 | 25266 | 60PAR/H/SP10 | 120 | 12 | CC-8 | 5.31 | | 3000 | 800 | 2800 | 13000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | 60 | 25270 | 60PAR/H/SP10 | 130 | 12 | CC-8 | 5.31 | | 3000 | 800 | 2800 | 13000 | ↘ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | 54 | | | 120 | | | | | 6000 | 608 | | | | | |
| | | 60 | 25269 | 60PAR/H/FL25 | 120 | 12 | CC-8 | 5.31 | | 3000 | 800 | 2800 | 3200 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | 60 | 25271 | 60PAR/H/FL25 | 130 | 12 | CC-8 | 5.31 | | 3000 | 800 | 2800 | 3200 | ↘ 1a, 2a, 4f, 9a, 10c | Floodlight | | |
| | 54 | | | 120 | | | | | 6000 | 608 | | | | | | |



| Bulb Shape | Base Type | Order Watts | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information |
|------------|-----------|-------------|-------------|------------|---------------|------|-----|-----|------------------|----------------|---------------------|------|-----------|------------------------|
|------------|-----------|-------------|-------------|------------|---------------|------|-----|-----|------------------|----------------|---------------------|------|-----------|------------------------|

HALOGEN PAR38 LAMPS (CONTINUED)

HALOGEN PLUS (CONTINUED)

| | | | | | | | | | | | | | | | |
|--|-----------------|---------------------------------|----------------------------------|-----|------|------|------|------|------|------|-------|-------|-----------------------|-----------------------|------------|
| | PAR38 Med Skirt | 75 | 14751 75PAR/H/SP9-6PK | 120 | 6 | CC-8 | 5.31 | | 2500 | 1050 | 2850 | 18000 | ↗ 1a, 2a, 4f, 9a, 10c | Spotlight | |
| | | | 14748 75PAR/H/FL25-6PK | 120 | 6 | CC-8 | 5.31 | | 2500 | 1050 | 2850 | 4000 | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | | 81864 75PAR38HFL25/RVL | 120 | 6 | CC-8 | 5.31 | | 2500 | 950 | | | ↗ 1a, 2a, 4f, 9a, 10c | Reveal®, Floodlight | |
| | | | 26564 75PAR/H/FL-TWIN | 120 | 3 | CC-8 | 5.31 | | 2500 | 1050 | 2850 | 4000 | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | | 75 21389 75PAR/H/FL25 | 130 | 12 | CC-8 | 5.31 | | 2500 | 1050 | 2850 | 4000 | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | | 66 | | 120 | | | | 5000 | 800 | | | | | |
| | | | 90 17450 90PAR/H/SP10-6PK | 120 | 6 | CC-8 | 5.31 | | 2500 | 1310 | 2900 | 20000 | | ↗ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | | 90 13311 90PAR/H/SP10 | 130 | 12 | CC-8 | 5.31 | | 2500 | 1310 | 2900 | 20000 | | ↗ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | | 79 | | 120 | | | | 5000 | 1000 | | | | | |
| | | | 90 17451 90PAR/H/FL25-6PK | 120 | 6 | CC-8 | 5.31 | | 2500 | 1310 | 2900 | 4700 | | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 90 13308 90PAR/H/FL25 | 130 | 12 | CC-8 | 5.31 | | 2500 | 1310 | 2900 | 4700 | | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | 79 | | 120 | | | | 5000 | 1000 | | | | | | |
| | | 90 22742 90PAR/H/FL-TWIN | 120 | 3 | CC-8 | 5.31 | | 2500 | 1310 | 2900 | 4700 | | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight | |
| | | | 25727 90PAR/H/WFL-120V | 120 | 12 | CC-8 | 5.31 | | 2500 | 1310 | 2900 | | ↗ 1a, 2a, 4f, 9a, 10c | Wide Floodlight | |
| | | 120 41632 120PAR/H/SP9 | 120 | 6 | CC-8 | 5.31 | | 2500 | 1900 | 2950 | 18000 | | ↗ 1a, 2a, 4f, 9a, 10c | Narrow Spot | |
| | | 120 41631 120PAR/H/FL30 | 120 | 6 | CC-8 | 5.31 | | 2500 | 1900 | 2950 | 4000 | | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight | |

STANDARD HALOGEN

| | | | | | | | | | | | | | | |
|--|-----------------|-----|-------------------------------|-----|----|------|------|------|------|------|------|-------|-----------------------|------------|
| | PAR38 Med Skirt | 50 | 17980 50PAR/H/SP10-6PK | 120 | 6 | CC-8 | 5.31 | | 2000 | 600 | 2750 | 9500 | ↗ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | | 17979 50PAR/H/FL25-6PK | 120 | 6 | CC-8 | 5.31 | | 2000 | 600 | 2750 | 2200 | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | | 25948 50PAR/H/FL-TWIN | 120 | 3 | CC-8 | 5.31 | | 2000 | 600 | 2750 | 2200 | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 50 | 17926 50PAR/H/FL | 130 | 12 | CC-8 | 5.31 | | 2000 | 600 | 2750 | 2200 | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 46 | | 120 | | | | | 4000 | 450 | | | | |
| | | 100 | 17992 100PAR/H/SP10 | 120 | 6 | CC-8 | 5.31 | | 2000 | 1500 | 2900 | 22000 | ↗ 1a, 2a, 4f, 9a, 10c | Spotlight |
| | | | 17986 100PAR/H/FL25 | 120 | 6 | CC-8 | 5.31 | | 2000 | 1500 | 2900 | 5000 | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | | 25679 100PAR/H/FL-TWIN | 120 | 3 | CC-8 | 5.31 | | 2000 | 1500 | 2900 | 5000 | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 100 | 17947 100PAR/H/FL25 | 130 | 12 | CC-8 | 5.31 | | 2000 | 1500 | 2900 | 5000 | ↗ 1a, 2a, 4f, 9a, 10c | Floodlight |
| | | 88 | | 120 | | | | 4000 | 1150 | | | | | |

COOL BEAM PAR38

| | | | | | | | | | | | | | | |
|-----------------|----|------------------------------|-----|----|------|------|--|------|------|------|------|--|---------------------------|-----------------|
| PAR38 Med Skirt | 90 | 17691 90PAR/CB/H/FL25 | 120 | 12 | CC-8 | 5.31 | | 2500 | 1260 | 2870 | 4100 | | ↗ 1a, 2a, 2c, 4f, 9a, 10c | Cool Beam Flood |
|-----------------|----|------------------------------|-----|----|------|------|--|------|------|------|------|--|---------------------------|-----------------|

QUARTZLINE®

| | | | | | | | | | | | | | | |
|--|-----------------|-----|---------------------------|-----|----|------|------|--|------|------|------|-------|---------------------------------------|------------|
| | PAR38 Med Skirt | 250 | 23719 Q250PAR/SP10 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3600 | 2880 | 40000 | ↗ 1a, 2a, 2j, 4b, 4f, 4g, 4h, 9a, 10c | Spotlight |
| | | | 23718 Q250PAR/FL30 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3600 | 2880 | 9000 | ↗ 1a, 2a, 2j, 4b, 4f, 4g, 4h, 9a, 10c | Floodlight |

HALOGEN COMPACT PAR LAMPS

COMPACT HIR™





| | | | | | | | | | | | | | | |
|--|-----------|----------------------------------|---------------------------------|-----|------|------|------|------|------|------|------|-------|---------------------------|------------|
| | PAR30 Med | 45 | 41545 45PAR30HIR/SP9XL | 120 | 15 | CC-8 | 3.62 | | 6000 | 620 | 2680 | 9750 | ↗ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight |
| | | | 41547 45PAR30HIR/FL25XL | 120 | 15 | CC-8 | 3.62 | | 6000 | 620 | 2680 | 2025 | ↗ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | | 41550 45PAR30HIR/FL35XL | 120 | 15 | CC-8 | 3.62 | | 6000 | 620 | 2680 | 1125 | ↗ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | | 50 19902 50PAR30/HIR/SP9 | 120 | 15 | CC-8 | 3.62 | | 4000 | 825 | 2810 | 15000 | ↗ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight |
| | | | 19901 50PAR30HIR/FL25 | 120 | 15 | CC-8 | 3.62 | | 4000 | 825 | 2810 | 3200 | ↗ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | | 50 21533 50PAR30HIR/FL25 | 130 | 15 | CC-8 | 3.62 | | 3000 | 825 | 2810 | 3200 | ↗ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | 46 | | 120 | | | | 6000 | 620 | | | | | |
| | | 50 19900 50PAR30/HIR/FL35 | 120 | 15 | CC-8 | 3.62 | | 4000 | 825 | 2810 | 1800 | | ↗ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | 50 19903 50PAR30/HIR/FL35 | 130 | 15 | CC-8 | 3.62 | | 3000 | 825 | 2810 | 1800 | | ↗ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | 46 | | 120 | | | | 6000 | 620 | | | | | |

COMPACT PAR30 LONG NECK









| | | | | | | | | | | | | | | |
|--|------------|----|------------------------------|-----|----|------|------|--|------|-----|------|------|---------------------------|-----------|
| | PAR30L Med | 50 | 14940 50PAR30L/H/SP10 | 130 | 6 | CC-8 | 4.75 | | 3000 | 580 | 2800 | 7500 | ↗ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight |
| | | 46 | | 120 | | | | | 6000 | 460 | | | | |
| | | 50 | 11117 50PAR30L/H/SP10 | 130 | 15 | CC-8 | 4.75 | | 3000 | 580 | 2800 | 7500 | ↗ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight |
| | | 46 | | 120 | | | | | 6000 | 460 | | | | |



Halogen Lamps

| Bulb Shape | Base Type | Order Watts | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information | | |
|--|------------|-------------------------|------------------------|------------|---------------|------|------|------|------------------|----------------|---------------------|-------|---------------------------|---------------------------|----------------------------------|--|
| HALOGEN COMPACT PAR LAMPS (CONTINUED) | | | | | | | | | | | | | | | | |
| COMPACT PAR30 LONG NECK (CONTINUED) | | | | | | | | | | | | | | | | |
|  | PAR30L Med | 50 | 11116 50PAR30L/H/FL40 | 120 | 15 | CC-8 | 4.75 | | 3000 | 580 | 2800 | 1100 | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight | | |
| | | 50 | 11123 50PAR30L/H/FL40 | 130 | 15 | CC-8 | 4.75 | | 3000 | 580 | 2800 | 1100 | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight | | |
| | | 46 | | 120 | | | | | 6000 | 460 | | | | | | |
| | | 50 | 14941 50PAR30L/H/WFL | 120 | 6 | CC-8 | 4.75 | | 3000 | 630 | 2800 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Wide Floodlight | |
| | | 75 | 11124 75PAR30L/H/SP10 | 120 | 15 | CC-8 | 4.75 | | 3000 | 940 | 2830 | 13000 | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight | |
| | | 75 | 11129 75PAR30L/H/SP10 | 130 | 15 | CC-8 | 4.75 | | 3000 | 940 | 2830 | 13000 | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight | |
| | | 66 | | 120 | | | | | 6000 | 751 | | | | | | |
| | | 75 | 14943 75PAR30L/H/FL25 | 120 | 6 | CC-8 | 4.75 | | 3000 | 940 | 2830 | 3800 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | 75 | 11131 75PAR30L/H/FL25 | 130 | 15 | CC-8 | 4.75 | | 3000 | 940 | 2830 | 3800 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | 66 | | 120 | | | | | 6000 | 751 | | | | | | |
| | 75 | 16393 75PAR30L/H/WFL | 120 | 6 | CC-8 | 4.75 | | 3000 | 1050 | 2830 | | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Wide Floodlight | |
| | | 81862 75PAR30LHFL25/RVL | 120 | 6 | CC-8 | 4.75 | | 3000 | 980 | | | | | 1a, 2a, 4f, 4h, 9a, 10c | Reveal [®] , Floodlight | |
| COMPACT PAR30 | | | | | | | | | | | | | | | | |
|  | PAR30 Med | 50 | 14023 50PAR30/H/SP10 | 120 | 6 | CC-8 | 3.62 | | 3000 | 630 | 2800 | 8200 | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight | | |
| | | 50 | 17870 50PAR30/H/SP10 | 130 | 15 | CC-8 | 3.62 | | 3000 | 630 | 2800 | 8200 | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight | | |
| | | 46 | | 120 | | | | | 6000 | 500 | | | | | | |
| | | 50 | 17871 50PAR30/H/FL25 | 120 | 15 | CC-8 | 3.62 | | 3000 | 630 | 2800 | 2300 | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight | |
| | | 50 | 17872 50PAR30/H/FL25 | 130 | 15 | CC-8 | 3.62 | | 3000 | 630 | 2800 | 2300 | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight | |
| | | 46 | | 120 | | | | | 6000 | 500 | | | | | | |
| | | 50 | 14022 50PAR30/H/FL35 | 120 | 6 | CC-8 | 3.62 | | 3000 | 630 | 2800 | 1400 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | 50 | 17874 50PAR30/H/FL35 | 130 | 15 | CC-8 | 3.62 | | 3000 | 630 | 2800 | 1400 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | 46 | | 120 | | | | | 6000 | 500 | | | | | | |
| | | 60 | 27212 60PAR30/H/NSP9 | 120 | 15 | CC-8 | 3.62 | | 3000 | 800 | 2800 | 11000 | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight | |
| | | | 40167 60PAR30/H/FL25 | 120 | 15 | CC-8 | 3.62 | | 3000 | 800 | 2800 | 2900 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | | 27214 60PAR30/H/FL35 | 120 | 15 | CC-8 | 3.62 | | 3000 | 800 | 2800 | 1700 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | 75 | 14802 75PAR30/H/SP10 | 120 | 6 | CC-8 | 3.62 | | 3000 | 1030 | 2830 | 13000 | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight | |
| | | | 81863 75PAR30HFL35/RVL | 120 | 6 | CC-8 | 3.62 | | 3000 | 1010 | | | | | 1a, 2a, 4f, 4h, 9a, 10c | Reveal [®] , Floodlight |
| | | 75 | 18056 75PAR30/H/SP10 | 130 | 15 | CC-8 | 3.62 | | 3000 | 1030 | 2830 | 13000 | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight | |
| | | 66 | | 120 | | | | | 6000 | 790 | | | | | | |
| | 75 | 18057 75PAR30/H/FL25 | 120 | 15 | CC-8 | 3.62 | | 3000 | 1030 | 2830 | 3800 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight | |
| | | 14779 75PAR30/H/FL35 | 120 | 6 | CC-8 | 3.62 | | 3000 | 1030 | 2830 | 2400 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight | |
| | 75 | 18060 75PAR30/H/FL35 | 130 | 15 | CC-8 | 3.62 | | 3000 | 1030 | 2830 | 2400 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight | |
| | 66 | | 120 | | | | | 6000 | 790 | | | | | | | |
| COMPACT PAR20 | | | | | | | | | | | | | | | | |
|  | PAR20 Med | 50 | 14927 50PAR20/H/SP10 | 120 | 6 | CC-8 | 3.13 | | 2500 | 570 | 2800 | 6000 | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight | | |
| | | | 81861 50PAR20HFL25/RVL | 120 | 6 | CC-8 | 3.13 | | 2500 | | | | | 1a, 2a, 4f, 4h, 9a, 10c | Reveal [®] , Floodlight | |
| | | 50 | 17866 50PAR20/H/SP10 | 130 | 15 | CC-8 | 3.13 | | 2500 | 570 | 2800 | 6000 | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight | | |
| | | 46 | | 120 | | | | | 5000 | 498 | | | | | | |
| | | 50 | 14928 50PAR20H/FL25 | 120 | 6 | CC-8 | 3.13 | | 2500 | 570 | 2800 | 1500 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | | 50 | 17868 50PAR20/H/FL25 | 130 | 15 | CC-8 | 3.13 | | 2500 | 570 | 2800 | 1500 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight |
| | 46 | | 120 | | | | | 5000 | 498 | | | | | | | |
| HALOGEN COMPACT PAR16 | | | | | | | | | | | | | | | | |
|  | PAR16 Med | 35 | 82135 35PAR16CURIO-PQ | 120 | 6 | CC-8 | 2.88 | | 3000 | | | | | 1a, 2a, 4f, 4h, 9a, 10c | | |
| | | 60 | 41628 60PAR16/H/SP10 | 120 | 6 | CC-8 | 2.88 | | 2000 | 650 | 2950 | 5400 | | 1a, 2a, 4f, 4h, 9a, 10c | Spotlight | |
| | | | 41623 60PAR16/H/FL30 | 120 | 6 | CC-8 | 2.88 | | 2000 | 650 | 2950 | 1550 | | 1a, 2a, 4f, 4h, 9a, 10c | Floodlight | |
| | | | 82142 60PAR16FL/RVL-CD | 120 | 6 | CC-8 | 2.88 | | 2000 | | | | | | 1a, 2a, 4f, 4h, 9a, 10c | Reveal [®] , Floodlight, Carded |
| | | 75 | 41630 75PAR16/H/SP10 | 120 | 6 | CC-8 | 2.88 | | 2000 | 900 | 2950 | 6200 | | 1a, 2a, 4f, 4h, 9a, 10c | Spotlight | |
| | | 41629 75PAR16/H/FL30 | 120 | 6 | CC-8 | 2.88 | | 2000 | 900 | 2950 | 1600 | | | 1a, 2a, 4f, 4h, 9a, 10c | Floodlight | |








| Bulb Shape | Base Type | Watts | Order Code | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information |
|---|-----------|-----------|------------|----------------------------|------------|---------------|------|------|-----|------------------|----------------|---------------------|-------|--|--------------------------|
| HALOGEN COMPACT PAR LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| DIAMOND PRECISE® ELECTRONIC MR16 | | | | | | | | | | | | | | | |
|  | MR16 | Med | 21 | 48545 Q21EMR16/C/SP12 | 120 | 6 | C-6 | 3.38 | | 5000 | 260 | 2950 | 3900 | ➤ 1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c | Narrow Spot |
| | | | | 48546 Q21EMR16/C/FL25 | 120 | 6 | C-6 | 3.38 | | 5000 | 260 | 2950 | 890 | ➤ 1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c | Narrow Flood |
| | | | | 48547 Q21EMR16/C/SP12CD | 120 | 6 | C-6 | 3.38 | | 5000 | 260 | 2950 | 3900 | ➤ 1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c | Narrow Spot, Carded |
| | | | | 48548 Q21EMR16/C/FL25CD | 120 | 6 | C-6 | 3.38 | | 5000 | 260 | 2950 | 890 | ➤ 1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c | Narrow Flood, Carded |
| PAR36 | | | | | | | | | | | | | | | |
|  | PAR36 | Scrw Term | 35 | 19873 35PAR36/H/SP5 | 12 | 12 | C-6 | 2.75 | | 4000 | 250 | 3050 | 25000 | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c | Spotlight |
| | | | | 19876 35PAR36/H/SP8 | 12 | 12 | C-6 | 2.75 | | 4000 | 250 | 3050 | 8000 | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c | Spotlight |
| | | | | 19877 35PAR36/H/FL30 | 12 | 12 | C-6 | 2.75 | | 4000 | 250 | 3050 | 900 | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c | Floodlight |
| | | | | 42072 35PAR36/H/VWFL | 12 | 12 | C-6 | 2.75 | | 4000 | 250 | 3050 | | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c | Wide Flood |
| | | | 50 | 19878 50PAR36/H/SP5 | 12 | 12 | C-6 | 2.75 | | 4000 | 400 | 3050 | 39000 | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c | Spotlight |
| | | | | 19879 50PAR36/H/SP8 | 12 | 12 | C-6 | 2.75 | | 4000 | 400 | 3050 | 10000 | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c | Spotlight |
| | | | | 19880 50PAR36/H/FL30 | 12 | 12 | C-6 | 2.75 | | 4000 | 400 | 3050 | 1300 | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c | Floodlight |
| A-15 | | | | | | | | | | | | | | | |
|  | A15 | Med | 40 | 82114 40A15CF/CL/H-CD2 | 120 | 6 | CC-8 | 3.50 | | 2250 | | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Ceiling Fan, Halogen |
| | | | | 82115 60A15CF/CL/H-CD2 | 120 | 6 | CC-8 | 3.50 | | 2250 | | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Ceiling Fan, Halogen |
| A-19 | | | | | | | | | | | | | | | |
|  | A19 | Med | 60 | 82137 60A/CL/H/RVL-CD | 120 | 5 | C-8 | 4.43 | | 3000 | 675 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Reveal®, Halogen |
| | | | | 82138 75A/CL/H/RVL-CD | 120 | 5 | C-8 | 4.43 | | 3000 | 850 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Reveal®, Halogen |
| | | | | 100 82139 100A/CL/H/RVL-CD | 120 | 5 | C-8 | 4.43 | | 3000 | 1275 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Reveal®, Halogen |
| A-21 | | | | | | | | | | | | | | | |
|  | A21 | Med | 30 | 24699 30/100-HALOGEN | 120 | 6 | CC-8 | 5.25 | | 2500 | 300 | | | 1a, 2a, 2b, 2c, 4i, 4j, 9a, 10b, 10c | 3-Way |
| | | | 70 | | | | | | | | 1050 | | | | |
| | | | 100 | | | | | | | | 1370 | | | | |
| | | | 50 | 81590 50/150-HALOGEN | 120 | 6 | CC-8 | 5.25 | | 2500 | 700 | | | 1a, 2a, 2b, 2c, 4i, 4j, 9a, 10b, 10c | 3-Way |
| | | | 100 | | | | | | | | 1600 | | | | |
| | | 150 | | | | | | | | 2300 | | | | | |
| HALOGEN REFLECTORS | | | | | | | | | | | | | | | |
|  | BR30 | Med | 60 | 85116 60BR30FL/H-PQ1/6 | 120 | 6 | CC-8 | 5.37 | | 3000 | 700 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Halogen Reflector |
| | | | | 85127 60BR30FL/H-3PK | 120 | 6 | CC-8 | 5.37 | | 3000 | 700 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Halogen Reflector 3-Pack |
|  | BR40 | Med | 60 | 85131 60BR40FL/H-PQ1/6 | 120 | 6 | CC-8 | 6.56 | | 3000 | 790 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Halogen Reflector |
| | | | | 100 85146 100BR40F/H-PQ1/6 | 120 | 6 | CC-8 | 6.56 | | 3000 | 1200 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Halogen Reflector |
| G16.5 GC | | | | | | | | | | | | | | | |
|  | G16.5 | Cand | 40 | 82131 40GC/CL/H-PQ2/3 | 120 | 6 | CC-8 | 3.00 | | 2250 | | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | |
| | | | | 82132 60GC/CL/H-PQ2/3 | 120 | 6 | CC-8 | 3.00 | | 2250 | | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | |



Halogen Lamps

| Bulb Shape | Base Type | Order Watts | Code | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Temp. | CBCP | Footnotes | Additional Information | | |
|--------------------------|-----------|-------------|-------|-----------------|----------------|---------------|------|------|------|------------------|----------------|---------------|------|---|---|---|--|
| G16.5 (CONTINUED) | | | | | | | | | | | | | | | | | |
| GM | | | | | | | | | | | | | | | | | |
| | Med | 40 | 82133 | 40GM/CL/H-PQ2/3 | 120 | 6 | CC-8 | 3.00 | | 2250 | | | | 1a, 1b, 2a, 2b, 2e, 4i 4j, 7a, 10b, 10c | | | |
| | | 60 | 82134 | 60GM/CL/H-PQ2/3 | 120 | 6 | CC-8 | 3.00 | | 2250 | | | | 1a, 1b, 2a, 2b, 2e, 4i 4j, 7a, 10b, 10c | | | |
| A-LINE/DECORATIVE | | | | | | | | | | | | | | | | | |
| | Med | 45 | 45650 | 45BM/HAL/PQ1/6 | 120 | 6 | CC-8 | 4.63 | 2.38 | 3000 | 600 | 2750 | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Frost, Thick Glass | | |
| | | 50 | 16747 | 50TB/H | 130 | 60 | CC-8 | 4.43 | 3.13 | 2000 | 710 | 2800 | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Frost, Thick Glass | | |
| | Med | 46 | | | 120 | | | | | 4000 | 540 | | | | | | |
| | | 50 | 20647 | 50A/HAL/6PK | 120 | 6 | CC-8 | 4.43 | 3.13 | 2000 | 710 | 2800 | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Frost, Thick Glass | | |
| | | 60 | 48105 | 60A/HAL/CD | 120 | 4 | CC-8 | 4.43 | 2.62 | 3000 | 840 | 2800 | | | 1a, 2a, 4f, 4h, 9a, 10c | Frost, Thick Glass | |
| | | | | 48106 | 60A/HAL/CL/CD | 120 | 4 | CC-8 | 4.43 | 2.62 | 3000 | 870 | 2800 | | | 1a, 2a, 4f, 4h, 9a, 10c | Clear, Thick Glass |
| | | 75 | 48107 | 75A/HAL/CD | 120 | 4 | CC-8 | 4.43 | 2.62 | 3000 | 1170 | 2850 | | | 1a, 2a, 4f, 4h, 9a, 10c | Frost, Thick Glass | |
| | | 90 | 16745 | 90TB/H | 130 | 60 | CC-8 | 4.43 | 3.13 | 2000 | 1580 | 2930 | | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Frost, Thick Glass | |
| | | 81 | | | 120 | | | | | | 4000 | 1220 | | | | | |
| | Med | 90 | 20648 | 90A/HAL/6PK | 120 | 6 | CC-8 | 4.43 | 3.13 | 2000 | 1580 | 2930 | | ↘ 1a, 2a, 4f, 4h, 9a, 10c | Frost, Thick Glass | | |
| | | | | 48108 | 90A/HAL/CD | 120 | 4 | CC-8 | 4.43 | 2.62 | 3000 | 1470 | 2930 | | | 1a, 2a, 4f, 4h, 9a, 10c | Frost, Thick Glass |
| | | 60 | 10036 | 60BTT/CL/CD | 120 | 5 | C-8 | 4.75 | 3.00 | 3000 | 900 | 2800 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Clear, Brass Base, Carded | |
| | | | | 11856 | 60BTT/CL/CD/TW | 120 | 5 | C-8 | 4.75 | 3.00 | 3000 | 900 | 2800 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Clear, Brass Base twin pack, Carded |
| | | | | 10038 | 60BTT/SW/CD | 120 | 5 | C-8 | 4.75 | 3.00 | 3000 | 840 | 2800 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | White, Brass Base, Carded |
| | Med | | | 10039 | 60BTT/SW/CD/TW | 120 | 5 | C-8 | 4.75 | 3.00 | 3000 | 840 | 2800 | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | White, Brass Base twin pack, Carded | |
| | | 75 | 10040 | 75BTT/SW/CD | 120 | 5 | C-8 | 4.75 | 3.00 | 3000 | 1070 | 2850 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | White, Brass Base, Carded | |
| | | 100 | 10042 | 100BTT/SW/CD | 120 | 5 | C-8 | 4.75 | 3.00 | 3000 | 1600 | 2900 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | White, Brass Base, Carded | |
| | | 150 | 10043 | 150BTT/SW/CD | 120 | 5 | C-8 | 4.75 | 3.00 | 3000 | 2430 | 2900 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | White, Brass Base, Carded | |
| | Med | 60 | 10044 | 60BTT/POST/CD | 120 | 5 | C-8 | 4.75 | 3.00 | 3000 | 900 | 2800 | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Clear, Brass Base, Carded Postlamp | | |
| | Med | 25 | 16760 | 25BM/H/CD2 | 120 | 5 | CC-8 | 3.4 | 2.22 | 2250 | 280 | 2700 | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Carded Twin Pack | | |
| | | 40 | 16761 | 40BM/H/CD2 | 120 | 5 | CC-8 | 3.4 | 2.22 | 2250 | 485 | 2800 | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Carded Twin Pack | | |
| | Cand | 25 | 16764 | 25BC/H/CD2 | 120 | 5 | CC-8 | 3.4 | 2.22 | 2250 | 280 | 2700 | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Carded Twin Pack | | |
| | | 40 | 16765 | 40BC/H/CD2 | 120 | 5 | CC-8 | 3.4 | 2.22 | 2250 | 485 | 2800 | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Carded Twin Pack | | |
| | Med | 25 | 16766 | 25BFM/H/CD2 | 120 | 5 | CC-8 | 3.4 | 2.22 | 2250 | 280 | 2700 | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Carded Twin Pack | | |
| | | 40 | 16767 | 40/BFM/H/CD2 | 120 | 5 | CC-8 | 3.4 | 2.22 | 2250 | 485 | 2800 | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Carded Twin Pack | | |
| | Med | 40 | 16771 | 40G25/H/CL | 120 | 6 | CC-8 | 4.45 | 2.56 | 2250 | 510 | 2700 | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | | | |
| | | | | 82140 | 40G25/CL/H/RVL | 120 | 6 | C-8 | 4.50 | | 2250 | | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Reveal® Halogen | |
| | | 60 | 16773 | 60G25/H/CL | 120 | 6 | CC-8 | 4.45 | 2.56 | 2250 | 1000 | 2900 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | | |
| | | | | 82141 | 60G25/CL/H/RVL | 120 | 6 | C-8 | 4.50 | | 2250 | | | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Reveal® Halogen | | |



| Bulb Shape | Base Type | Order Watts | Order Code | Description | Case Volts | Flament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information | | | |
|--|-----------|-------------|---------------------------------------|-------------|------------------|--------------|------|------|------|------------------|----------------|---------------------|-------|--|--------------------------------|--|--|--|
| A-LINE/DECORATIVE (CONTINUED) | | | | | | | | | | | | | | | | | | |
|  | G25 | Med | 40 | 16774 | 40G25/H/CRYSTAL | 120 | 6 | CC-8 | 4.45 | 2.56 | 2250 | 500 | 2700 | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | | | | |
| | | | 60 | 16775 | 60G25/H/CRYSTAL | 120 | 6 | CC-8 | 4.45 | 2.56 | 2250 | 960 | 2900 | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | | | | |
|  | T10 | Med | 25 | 16776 | 25T10/H/CD | 120 | 4 | CC-8 | 5.04 | 2.56 | 2250 | 260 | 2700 | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Carded | | | |
| | | | 40 | 16777 | 40T10/H/CD | 120 | 4 | CC-8 | 5.04 | 2.56 | 2250 | 510 | 2700 | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Carded | | | |
| | | | 60 | 16778 | 60T10/H/CD | 120 | 4 | CC-8 | 5.04 | 2.56 | 2250 | 800 | 2900 | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Carded | | | |
| AR111 | | | | | | | | | | | | | | | | | | |
|  | AR111 | G53 | 35 | 97532 | 35AR111/SP8 | 12 | 10 | | 2.64 | | 2000 | 2800 | 14000 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c | Spotlight | | | |
| | | | | 97533 | 35AR111/FL24 | 12 | 10 | | 2.64 | | 2000 | 2800 | 2500 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c | Narrow Floodlight | | | |
| | | | 50 | 97534 | 50AR111/SP8 | 12 | 10 | | 2.64 | | 3000 | 2800 | 17800 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c | Spotlight | | | |
| | | | | 97535 | 50AR111/FL24 | 12 | 10 | | 2.64 | | 3000 | 2800 | 3500 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c | Narrow Floodlight | | | |
| | | | 75 | 97536 | 75AR111/SP8 | 12 | 10 | | 2.64 | | 3000 | 2900 | 23500 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c | Spotlight | | | |
| | | | | 97537 | 75AR111/FL24 | 12 | 10 | | 2.64 | | 3000 | 2900 | 5300 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c | Narrow Floodlight | | | |
| | | | | 97538 | 75AR111/FL45 | 12 | 10 | | 2.64 | | 3000 | 2900 | 1700 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c | Wide Floodlight | | | |
| | | | 100 | 97539 | 100AR111/SP8 | 12 | 10 | | 2.64 | | 3000 | 2950 | 40000 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c | Spotlight | | | |
| | | | | 97540 | 100AR111/FL24 | 12 | 10 | | 2.64 | | 3000 | 2950 | 8000 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c | Narrow Floodlight | | | |
| | | | | 97541 | 100AR111/FL45 | 12 | 10 | | 2.64 | | 3000 | 2950 | 2300 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c | Wide Floodlight | | | |
| | | | MR | | | | | | | | | | | | | | | |
| | | | TURN & LOCK CONSTANTCOLOR® | | | | | | | | | | | | | | | |
|  | MR16 | TAL | 35 | 30932 | 35MR16/Q/8/TL | 12 | 10 | C-6 | 2 | | 3500 | 2900 | 8100 | 2a, 2b, 4f, 7a, 9a, 10b, 10c | Narrow Spot | | | |
| | | | 50 | 30901 | 50MR16/Q/10/TL | 12 | 10 | C-6 | 2 | | 3500 | 3000 | 10800 | 2a, 2b, 4f, 7a, 9a, 10b, 10c | Narrow Spot | | | |
| | | | | 30900 | 50MR16/Q/20/TL | 12 | 10 | C-6 | 2 | | 3500 | 3000 | 3330 | 2a, 2b, 4f, 7a, 9a, 10b, 10c | Narrow Flood | | | |
| | | | | 30899 | 50MR16/Q/40/TL | 12 | 10 | C-6 | 2 | | 3500 | 3000 | 1395 | 2a, 2b, 4f, 7a, 9a, 10b, 10c | Floodlight | | | |
| CONSTANTCOLOR® PRECISE™ COVER GLASS MR16 | | | | | | | | | | | | | | | | | | |
|  | MR16 | 2-Pin GU5.3 | 20 | 20858 | Q20MR16C/CG15 | 12 | 20 | C-6 | 1.88 | | 5000 | 2900 | 3150 | 2a, 2b, 4f, 9a, 10c | Narrow Spot, ANSI: ESX | | | |
| | | | | 20857 | Q20MR16C/CG40 | 12 | 20 | C-6 | 1.88 | | 5000 | 2900 | 475 | 2a, 2b, 4f, 9a, 10c | Flood, ANSI: BAB | | | |
| | | | | 21456 | FAM6Q20MR16NSCCG | 12 | 1 | C-6 | 1.88 | | 5000 | 2900 | 3350 | 2a, 2b, 4f, 9a, 10c | Narrow Spot, Carded, ANSI: ESX | | | |
| | | | | 21455 | FAM6Q20MR16FLCCG | 12 | 1 | C-6 | 1.88 | | 5000 | 2900 | 490 | 2a, 2b, 4f, 9a, 10c | Flood, Carded ANSI: BAB | | | |
| | | | 35 | 20864 | Q35MR16C/CG12 | 12 | 20 | C-6 | 1.88 | | 5000 | 3000 | 7500 | 2a, 2b, 4f, 9a, 10c | Narrow Spot, ANSI: FRB | | | |
| | | | | 20860 | Q35MR16C/CG20 | 12 | 20 | C-6 | 1.88 | | 5000 | 3000 | 3200 | 2a, 2b, 4f, 9a, 10c | Spot, ANSI: FRA | | | |



Halogen Lamps

| Bulb Shape | Base Type | Order Watts | Order Code | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information |
|---|-------------|-------------|------------|------------------|------------|---------------|------|------|-----|------------------|----------------|---------------------|-------|---|---|
| MR (CONTINUED) | | | | | | | | | | | | | | | |
| CONSTANTCOLOR® PRECISE™ COVER GLASS MR16 (CONTINUED) | | | | | | | | | | | | | | | |
| MR16 | 2-Pin GU5.3 | 35 | 20859 | Q35MR16C/CG40 | 12 | 20 | C-6 | 1.88 | | 5000 | | 3000 | 900 | 2a, 2b, 4f, 9a, 10c | Flood, ANSI: FMW |
| | | | 23252 | FAM6Q35MR16SPCCG | 12 | 1 | C-6 | 1.88 | | | 5000 | | 3000 | 3200 | 2a, 2b, 4f, 9a, 10c |
| | | | 23253 | FAM6Q35MR16FLCCG | 12 | 1 | C-6 | 1.88 | | 5000 | | 3000 | 900 | 2a, 2b, 4f, 9a, 10c | Flood, Clear Glass Carded, ANSI: FMW |
| | | | 41487 | Q35MR16/CCG40 | 24 | 20 | C-6 | 1.88 | | 4000 | | 2950 | 920 | 2a, 2b, 4f, 9a, 10c | Flood |
| 50 | | | 20872 | Q50MR16C/CG15 | 12 | 20 | C-6 | 1.88 | | 6000 | | 3050 | 8400 | 2a, 2b, 4f, 9a, 10c | Narrow Spot ANSI: EXT |
| | | | 20871 | Q50MR16C/CG25 | 12 | 20 | C-6 | 1.88 | | | 6000 | | 3050 | 2900 | 2a, 2b, 4f, 9a, 10c |
| | | | 20867 | Q50MR16C/CG40 | 12 | 20 | C-6 | 1.88 | | 6000 | | 3050 | 1500 | 2a, 2b, 4f, 9a, 10c | Flood, ANSI: EXN |
| | | | 20865 | Q50MR16C/CG55 | 12 | 20 | C-6 | 1.88 | | 6000 | | 3050 | 850 | 2a, 2b, 4f, 9a, 10c | Wide Flood, ANSI: FNV |
| | | | 21458 | FAM6Q50MR16NSCCG | 12 | 1 | C-6 | 1.88 | | 6000 | | 3050 | 9500 | 2a, 2b, 4f, 9a, 10c | Narrow Spot, Carded, ANSI: EXT |
| | | | 21457 | FAM6Q50MR16FLCCG | 12 | 1 | C-6 | 1.88 | | 6000 | | 3050 | 1720 | 2a, 2b, 4f, 9a, 10c | Flood, 3050K, Carded, ANSI: EXN |
| | | | 41488 | Q50MR16/CCG15 | 24 | 20 | C-6 | 1.88 | | 4000 | | 2950 | 8400 | 2a, 2b, 4f, 9a, 10c | Narrow Spot |
| | | | 41489 | Q50MR16/CCG40 | 24 | 20 | C-6 | 1.88 | | 4000 | | 2950 | 1570 | 2a, 2b, 4f, 9a, 10c | Flood |
| 71 | | | 20876 | Q71MR16C/CG15 | 12 | 20 | C-6 | 1.88 | | 4000 | | 3050 | 10800 | 2a, 2b, 4f, 9a, 10c | Narrow Spot, ANSI: EYF |
| | | | 20874 | Q71MR16C/CG25 | 12 | 20 | C-6 | 1.88 | | | 4000 | | 3050 | 4550 | 2a, 2b, 4f, 9a, 10c |
| | | | 20873 | Q71MR16C/CG40 | 12 | 20 | C-6 | 1.88 | | 4000 | | 3050 | 2000 | 2a, 2b, 4f, 9a, 10c | Flood, ANSI: EYC |
| CONSTANTCOLOR® PRECISE™ MR16 | | | | | | | | | | | | | | | |
| MR16 | 2-Pin GX5.3 | 20 | 20816 | Q20MR16C/VNSP7 | 12 | 20 | CC-6 | 1.88 | | 3000 | | 2900 | 7400 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Very Narrow Spot, ANSI: EZX |
| | | | 20815 | Q20MR16C/NSP15 | 12 | 20 | C-6 | 1.88 | | | 5000 | | 2900 | 3750 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c |
| | | | 20814 | Q20MR16C/FL40 10 | 12 | 20 | C-6 | 1.88 | | 5000 | | 2900 | 525 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, ANSI: BAB |
| 35 | | | 20826 | Q35MR16C/SP20 | 12 | 20 | C-6 | 1.88 | | 5000 | | 3000 | 3900 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Spot, ANSI: FRA |
| | | | 20825 | Q35MR16C/FL40 | 12 | 20 | C-6 | 1.88 | | | 5000 | | 3000 | 1000 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c |
| 42 | | | 20830 | Q42MR16C/VNSP9 | 12 | 20 | CC-6 | 1.88 | | 3500 | | 3000 | 12300 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Very Narrow Spot, ANSI: EZY |
| 50 | | | 20839 | Q50MR16C/NSP15 | 12 | 20 | C-6 | 1.88 | | 6000 | | 3050 | 9100 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Narrow Spot, ANSI: EXT |
| | | | 20835 | Q50MR16C/NFL25 | 12 | 20 | C-6 | 1.88 | | | 6000 | | 3050 | 3200 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c |
| | | | 20834 | Q50MR16C/NFL30 | 12 | 20 | C-6 | 1.88 | | 6000 | | 3050 | 2500 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Narrow Flood, ANSI: EXK |
| | | | 20833 | Q50MR16C/FL40 | 12 | 20 | C-6 | 1.88 | | 6000 | | 3050 | 1700 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, ANSI: EXN |
| | | | 20832 | Q50MR16C/WFL55 | 12 | 20 | C-6 | 1.88 | | 6000 | | 3050 | 900 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Wide Flood, ANSI: FNV |
| 71 | | | 20843 | Q71MR16C/NSP15 | 12 | 20 | C-6 | 1.88 | | 4000 | | 3050 | 11500 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Narrow Spot, ANSI: EYF |
| | | | 20841 | Q71MR16C/NFL25 | 12 | 20 | C-6 | 1.88 | | | 4000 | | 3050 | 5500 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c |
| | | | 20840 | Q71MR16C/FL40 | 12 | 20 | C-6 | 1.88 | | 4000 | | 3050 | 2200 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, ANSI: EYC |



| Bulb Shape | Base Type | Order Watts | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information | |
|-------------------------------------|-----------|-------------|---------------------------|------------|---------------|-------|------|-----|------------------|----------------|---------------------|------|---|--|-----------------------------|
| MR (CONTINUED) | | | | | | | | | | | | | | | |
| PRECISE™ COVER GLASS IR MR16 | | | | | | | | | | | | | | | |
| | MR16 | 2-Pin GU5.3 | 37 16715 Q37MR16/HIR/CG10 | 12 | 20 | C-8 | 1.8 | | 4000 | 3000 | 12500 | | 2a, 2b, 4f, 9a, 10c | Narrow Spot | |
| | | | 16716 Q37MR16/HIR/CG25 | 12 | 20 | C-8 | 1.8 | | 4000 | 3000 | 4400 | | 2a, 2b, 4f, 9a, 10c | Narrow Flood | |
| | | | 16717 Q37MR16/HIR/CG40 | 12 | 20 | C-8 | 1.8 | | 4000 | 3000 | 2050 | | 2a, 2b, 4f, 9a, 10c | Flood | |
| | | | 50 16718 Q50MR16/HIR/CG10 | 12 | 20 | C-8 | 1.8 | | 4000 | 3000 | 15000 | | 2a, 2b, 4f, 9a, 10c | Narrow Spot | |
| | | | 16719 Q50MR16/HIR/CG25 | 12 | 20 | C-8 | 1.8 | | 4000 | 3000 | 5700 | | 2a, 2b, 4f, 9a, 10c | Narrow Flood | |
| | | | 16720 Q50MR16/HIR/CG40 | 12 | 20 | C-8 | 1.8 | | 4000 | 3000 | 2600 | | | Flood | |
| STANDARD MR16 | | | | | | | | | | | | | | | |
| | MR16 | 2-Pin GX5.3 | 20 25481 Q20MR16/SP | 12 | 20 | C-6 | 1.88 | | 2000 | 2900 | 3500 | | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Spot, ANSI: ESX | |
| | | | 25480 Q20MR16/FL | 12 | 20 | C-6 | 1.88 | | 2000 | 2900 | 500 | | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, ANSI: BAB | |
| | | | 81763 Q20MR16CGFLCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | | | | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, Basic | |
| | | | 81765 Q20MR16CGSPCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | | | | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Spot, Basic | |
| | | | 35 81768 Q35MR16CGFLCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | | | | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, Basic | |
| | | | 81769 Q35MR16CGSPCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | | | | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Spot, Basic | |
| | | | 50 81770 Q50MR16CGFLCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | | | | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, Basic | |
| | | | 81771 Q50MR16CGSPCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | | | | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Spot, Basic | |
| | | | 25483 Q50MR16/SP | 12 | 20 | C-6 | 1.88 | | 2000 | 2900 | 9500 | | | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Spot, ANSI: EXT |
| | | | 25482 Q50MR16/FL | 12 | 20 | C-6 | 1.88 | | 2000 | 2900 | 1500 | | | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, ANSI: EXN |
| | | | 42098 Q50MR16FL/CG/3PK | 12 | 6 | C-6 | 1.88 | | 2000 | 2900 | 1500 | | | 2a, 2b, 4c, 4f, 9a, 10c | Flood, ANSI: EXN |
| | | | 82110 Q50MR16FCCGRV-CD | 12 | 6 | C-6 | 1.88 | | 3000 | | | | | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Reveal®, Floodlight, Carded |
| | | | 82111 Q50MR16SCCGRV-CD | 12 | 6 | C-6 | 1.88 | | 3000 | | | | | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Reveal®, Spotlight, Carded |
| | | | STANDARD MR11 | | | | | | | | | | | | |
| | MR11 | 2-Pin GZ4 | 20 30754 Q20MR11/SP15 | 12 | 10 | C-6 | 1.38 | | 3500 | 2900 | 1760 | | 2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a | Spot, ANSI: FTC | |
| | | | 30773 Q20MR11/NFL30 | 12 | 10 | C-6 | 1.38 | | 3500 | 2900 | 600 | | 2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a | Narrow Flood, ANSI: FTD | |
| | | | 25197 FAM6Q20MR11NF/CD | 12 | 1 | C-6 | 1.38 | | 3500 | 2900 | 600 | | 2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a | Narrow Flood, ANSI: FTD | |
| | | | 35 30774 Q35MR11SP20 | 12 | 10 | C-6 | 1.38 | | 3500 | 2900 | 3000 | | 2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a | Spot, ANSI: FTF | |
| | | | 30890 Q35MR11NFL30 | 12 | 10 | C-6 | 1.38 | | 3500 | 2900 | 1300 | | 2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a | Narrow Flood, ANSI: FTH | |
| | | | 25349 FAM6Q35MR11SP/CD | 12 | 1 | C-6 | 1.38 | | 3500 | 2900 | 4100 | | 2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a | Spot, ANSI: FTF | |
| | | | 41483 Q35MR11/CG12 24 | 24 | 50 | C-6 | 1.38 | | 2000 | 2950 | 4100 | | | 2a, 2b, 4c, 4f, 9a, 10c | Spot |
| | | | 41484 Q35MR11/CG30 24 | 24 | 50 | C-6 | 1.38 | | 2000 | 2950 | 1300 | | | 2a, 2b, 4c, 4f, 9a, 10c | Narrow Flood |
| | | | 120V MR16 | | | | | | | | | | | | |
| | MR16 | GU10 | 20 16753 Q20GU10/FL/CD | 120 | 5 | CC-2V | 2.13 | | 2000 | 2600 | 230 | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | | |
| | | | 35 16752 Q35GU10/FL/CD | 120 | 5 | CC-2V | 2.13 | | 3000 | 2650 | 500 | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | | |



Halogen Lamps

| Bulb Shape | Base Type | Order Watts | Order Code | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information |
|------------------------------|-----------|-------------|------------|------------------|------------|---------------|-------|------|-----|------------------|----------------|---------------------|------|--------------------------------------|--------------------------------------|
| MR (CONTINUED) | | | | | | | | | | | | | | | |
| 120V MR16 (CONTINUED) | | | | | | | | | | | | | | | |
| | GU10 | 50 | 16751 | Q50GU10/FL/CD | 120 | 5 | CC-2V | 2.13 | | 3000 | | 2750 | 1000 | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | |
| | | | 82143 | Q50GU10FL/RVL-CD | 120 | 6 | CC-2V | 2.13 | | 3000 | | | | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c |
| JDR16 | Med | 35 | 20641 | 35PAR16/CURIO | 120 | 3 | CC-6V | 2.05 | | 3000 | | 2700 | 500 | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | |

| QUARTZ HALOGEN | | | | | | | | | | | | | | | |
|-----------------------|----|--------------|-----|-------|-----------------|-----|-----|-------|------|------|------|------|--|--------------------------------------|-------------------|
| | T3 | 2-Pin G4 | 5 | 42959 | Q5T3/CL | 12 | 100 | C-6 | 1.25 | 0.75 | 2000 | 60 | | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Clear |
| | | | 10 | 34674 | Q10T3/CL | 12 | 100 | C-6 | 1.25 | 0.75 | 2000 | 140 | | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Clear |
| | | | | 19371 | Q10T3/CL/CD 5PK | 12 | 25 | C-6 | 1.25 | 0.75 | 2000 | 140 | | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Clear, Carded |
| | | | 20 | 34715 | Q20T2.5/12V/CL | 12 | 100 | C-6 | 1.25 | 0.75 | 2000 | 350 | | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c | |
| | | | | 19375 | Q20T3/CL/CD 5PK | 12 | 25 | C-6 | 1.25 | 0.75 | 2000 | 350 | | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Clear, Carded |
| | T4 | 2-Pin G8 | 25 | 16809 | Q25G8/CD2 | 120 | 5 | CC-2V | 1.59 | 1.04 | 1500 | 240 | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | Twin Pack, Carded |
| | | | 35 | 48428 | Q35G8/CD | 120 | 5 | CC-2V | 1.77 | 1.34 | 1500 | | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | Carded |
| | T3 | 2-Pin GY6.35 | 35 | 34708 | Q35T3/12V/CL | 12 | 100 | C-6 | 1.75 | | 2000 | 550 | | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c | |
| | | | | 48503 | Q35T3/CL/CD 5PK | 12 | 25 | C-8 | 1.75 | | 2000 | | | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Carded |
| | T4 | 2-Pin G8 | 50 | 21941 | Q50G8/CD | 120 | 5 | CC-2V | 1.77 | 1.34 | 1300 | 700 | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | Carded |
| | T3 | 2-Pin GY6.35 | 50 | 34702 | Q50T3/12V/CL | 12 | 100 | C-6 | 1.75 | | 2000 | 900 | | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c | |
| | | | | 19376 | Q50T3/CL/CD 5PK | 12 | 25 | C-6 | 1.75 | 1.16 | 2000 | 900 | | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Clear, Carded |
| | T4 | 2-Pin GY6.35 | 75 | 19377 | Q75T4/CL/CD 5PK | 12 | 25 | C-6 | 1.75 | 1.16 | 2000 | 1600 | | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Clear, Carded |
| | T4 | 2-Pin G8 | 75 | 47801 | Q75G8/CD | 120 | 5 | CC-2V | 1.77 | 1.34 | 1500 | | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | Carded |
| | | | 100 | 47803 | Q100G8/CD | 120 | 5 | CC-2V | 1.77 | 1.34 | 1500 | | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | Carded |
| | T3 | 2-Pin GY6.35 | 100 | 34676 | Q100T3/12V/CL | 12 | 100 | CC-6 | 1.75 | | 2000 | 2350 | | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c | |
| | | | | 34663 | Q100T3/24V/CL | 24 | 100 | CC-6 | 1.75 | | 2000 | 2000 | | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c | |










| QUARTZLINE[®] | | | | | | | | | | | | | | | |
|-------------------------------|------|-----|-----|-------|------------------|-----|----|-----|------|------|------|-------|------|---|-------------------------------|
| HIR[™] | | | | | | | | | | | | | | | |
| | T2.5 | R7s | 225 | 12282 | Q225T2CL/ULTRACD | 120 | 60 | C-8 | 4.69 | 2.5 | 3000 | 5950 | 2965 | ➤ 1a, 2a, 2b, 4c, 4d, 4e, 4f, 9a, 9d, 10b, 10c, 12b | IR, Clear, Horizontal |
| | | | 350 | 12283 | Q350T3CL/ULTRACD | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | 10000 | 3075 | ➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b | IR, Clear, Horizontal, Carded |
| | | | | 13894 | Q350T3/CL/HIR | 120 | 6 | C-8 | 4.69 | 2.25 | 2000 | 10000 | 3075 | ➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b | IR, Clear, Horizontal |
| | | | | 14311 | Q350T3/CL/HIR | 130 | 6 | C-8 | 4.69 | 2.25 | 2000 | 9600 | 3000 | ➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b | IR, Clear, Horizontal |



| Bulb Shape | Base Type | Order Watts | Order Code | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information | | |
|--------------------------------|-----------|--------------|------------|-------------|------------------|---------------|------|-------|-------|------------------|----------------|---------------------|------|-----------|---|--|---|
| QUARTZLINE® (CONTINUED) | | | | | | | | | | | | | | | | | |
| HIR™ (CONTINUED) | | | | | | | | | | | | | | | | | |
| | T2.5 | R7s | 900 | 13642 | Q900T3/CL/HIR | 240 | 6 | C-8 | 10.06 | 6.13 | 2000 | 32000 | 3160 | ➤ | 1a, 2a, 2j, 2k, 4a, 4c, 4d, IR, Clear, Horizontal 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b | | |
| | | | | 14335 | Q900T3/CL/HIR | 277 | 6 | C-8 | 10.06 | 6.13 | 2000 | 31000 | 3160 | ➤ | 1a, 2a, 2j, 2k, 4a, 4c, 4d, IR, Clear, Horizontal 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b Halogen | | |
| HALOGEN | | | | | | | | | | | | | | | | | |
| | T4 | G9 | 25 | 16754 | Q25G9/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | 240 | 2650 | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | Carded | |
| | | | | 81300 | Q25G9/F/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | | | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | Frosted, Carded |
| | | | 40 | 16755 | Q40G9/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 2000 | 480 | 2750 | | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | Carded |
| | | | | 81301 | Q40G9/F/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 2000 | | | | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | Frosted, Carded |
| | | | 60 | 81468 | Q60G9/F/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | | | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | Frosted, Carded |
| | | | | 75 | 81469 | Q75G9/F/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | | | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c |
| | T4 | 2-Pin PreFoc | 45 | 41541 | Q45T4/CL | 120 | 12 | C-6 | 2.5 | 1.53 | 500 | 835 | | | 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12c | Clear, Airport, Base Down | |
| | | | 60 | 16756 | Q60G9/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | 780 | 2800 | | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | Carded |
| | | | 75 | 16759 | Q75G9/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | 1100 | 2850 | | | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c | Carded |
| | T3 | Mini-Cand | 75 | 39574 | Q75CL | 28 | 20 | CC-6 | 2.5 | 1.19 | 2000 | 1350 | | | 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e | Clear | |
| | | | | 12715 | Q75CL/MC/CD | 120 | 25 | CC-8 | 2.5 | 1.25 | 1000 | 1050 | 2850 | | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e | Clear, Carded |
| | T4 | Mini-Cand | 100 | 22489 | Q100T3/CL/CD 5PK | 120 | 60 | C-8 | 3.13 | 1.25 | 1500 | 1650 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a | Clear, Horizontal, Carded | |
| | | | | 15507 | Q100CL/MC | 120 | 6 | CC-8 | 2.81 | 1.38 | 2000 | 1600 | 2950 | | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e | Frosted |
| | | | | 44385 | Q100CL/MC/2V | 120 | 6 | CC-2V | 2.81 | 1.38 | 750 | 1800 | 2950 | | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e | Clear |
| | | | | 19383 | Q100CL/MC/CD 5PK | 120 | 25 | CC-8 | 2.81 | 1.38 | 2000 | 1600 | 2950 | | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e | Clear, Carded |
| | T4 | D C Bay | 100 | 16451 | Q100DC | 120 | 6 | CC-8 | 2.44 | 1.38 | 2000 | 1550 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e | Frosted | |
| | | | | 15508 | Q100CL/DC | 120 | 6 | CC-8 | 2.44 | 1.38 | 2000 | 1600 | 2950 | | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e | Clear |
| | | | | 44386 | Q100CL/DC/2V | 120 | 6 | CC-2V | 2.44 | 1.38 | 750 | 1800 | 2950 | | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e | Clear |
| | T3 | R7s | 150 | 27449 | Q150T3/117/CL/CD | 120 | 60 | C-8 | 4.69 | 2.25 | 1500 | 2400 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a | Clear, Horizontal, Carded | |
| | | | | 19378 | Q150T3/CL/CD 5PK | 120 | 60 | C-8 | 3.13 | 1.25 | 1500 | 2400 | 2950 | | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a | Clear, Horizontal, Carded |
| | | | | 80905 | Q150T3/HD/CD2 | 120 | 25 | C-8 | 3.13 | 1.25 | 2000 | | 2950 | | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a | Carded, Heavy Duty |
| | T4 | R7s | 150 | 23710 | Q150T4/CL | 25 | 12 | CC-8 | 2.56 | | 3000 | 2760 | 2850 | | 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c | Clear, Dental Spotlight | |





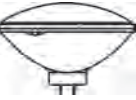






Halogen Lamps

| Bulb Shape | Base Type | Watts | Order Code | Description | Case Volts | Filament Qty. | Filament Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information |
|---|-----------|--------------|------------|-------------------------------|------------|---------------|---------------|------|------|------------------|----------------|---------------------|------|--|------------------------|
| QUARTZLINE® (CONTINUED) | | | | | | | | | | | | | | | |
| HALOGEN (CONTINUED) | | | | | | | | | | | | | | | |
|  | T4 | Mini-Cand | 150 | 44654 Q150MC | 120 | 6 | CC-8 | 3 | 1.38 | 2000 | 2700 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
| | | | | 43694 Q150CL/MC | 120 | 6 | CC-8 | 3 | 1.38 | 2000 | 2800 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
| | | | | 19386 Q150CL/MC/CD 5PK | 120 | 25 | CC-8 | 3 | 1.38 | 2000 | 2800 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear, Carded 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
|  | | D C Bay | 150 | 44653 Q150DC | 120 | 6 | CC-8 | 2.5 | 1.38 | 2000 | 2700 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
| | | | | 43693 Q150CL/DC | 120 | 6 | CC-8 | 2.5 | 1.38 | 2000 | 2800 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
| | | | | 44384 Q150CL/DC/2V | 120 | 6 | CC-2V | 2.44 | 1.38 | 1000 | 2800 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
|  | T4 | 2-Pin PreFoc | 200 | 40702 Q200T4/CL | | 12 | CC-6 | 2.5 | 1.53 | 500 | 4500 | | | 2a, 2j, 4a, 4c, 4d, 4e, 4f, Clear, Airport, Base Down | |
|  | | 2-Pin GZ9.5 | 235 | 11548 Q235T4/3 | 33 | 12 | CC-6 | 2.63 | 1.53 | 150 | 6000 | | | 2a, 2j, 4a, 4c, 4e, 4f, 4g, Frosted, Instrument, Prefocus | |
|  | T2.5 | R7s | 250 | 22865 Q250T3/CL-6PK | 120 | 144 | C-8 | 3.13 | 1.25 | 1500 | 4000 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear, Horizontal 4g, 9a, 9d, 10b, 10c, 11a | |
| | | | | 22121 Q250T3/CL/CD 5PK | 120 | 60 | C-8 | 3.25 | 1.13 | 1500 | 4000 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear, Carded 4g, 9a, 9d, 10b, 10c, 11a | |
|  | T4 | Mini-Cand | 250 | 43695 Q250MC | 120 | 6 | CC-8 | 3.16 | 1.63 | 2000 | 4850 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
| | | | | 43696 Q250MC | 130 | 6 | CC-8 | 3.16 | 1.63 | 2000 | 4850 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
| | | | | 43699 Q250CL/MC | 120 | 6 | CC-8 | 3.16 | 1.63 | 2000 | 5000 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
| | | | | 19387 Q250CL/MC/CD 5PK | 120 | 25 | CC-8 | 3.16 | 1.63 | 2000 | 5000 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear, Carded 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
| | | | | 43700 Q250CL/MC | 130 | 6 | CC-8 | 3.16 | 1.63 | 2000 | 5000 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
|  | T4 | D C Bay | 250 | 43701 Q250DC | 120 | 6 | CC-8 | 3 | 1.63 | 2000 | 4850 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
| | | | | 43702 Q250DC | 130 | 6 | CC-8 | 3 | 1.63 | 2000 | 4850 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
| | | | | 43697 Q250CL/DC | 120 | 6 | CC-8 | 3 | 1.63 | 2000 | 5000 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
| | | | | 43698 Q250CL/DC | 130 | 6 | CC-8 | 3 | 1.63 | 2000 | 5000 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear 4g, 8a, 9a, 9d, 10b, 10c, 12e | |
|  | T2.5 | R7s | 300 | 15535 Q300T3/HD/2CD | 120 | 5 | C-8 | 4.68 | 2.25 | 2000 | 5950 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, Clear, Horizontal 4f, 4g, 9a, 9d, 10b, 10c, 11a | |
| | | | | 43704 Q300T3-6PK | 120 | 144 | C-8 | 4.69 | 2.25 | 2000 | 5900 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, Frosted, Horizontal 4f, 4g, 9a, 9d, 10b, 10c, 11a | |
| | | | | 43703 Q300T3/CL-6PK | 120 | 144 | C-8 | 4.69 | 2.25 | 2000 | 5950 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, Clear, Horizontal 4f, 4g, 9a, 9d, 10b, 10c, 11a | |
| | | | | 19379 Q300T3/CL/CD 5PK | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | 5950 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, Clear, Horizontal, Carded | |
| | | | | 27447 Q300T3CL/CD2-5PK | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | 5950 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, Clear, Horizontal, Carded | |
|  | T4 | R7s | 300 | 43705 Q300T4/CL | 120 | 12 | CC-8 | 3.13 | 2.25 | 2000 | 5650 | 2900 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear 4g, 9a, 9d, 10b, 10c, 11a | |



Halogen Lamps








| Bulb Shape | Base Type | Order Watts | Order Code | Description | Case Volts | Filament Qty. | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information |
|---|-----------|----------------|------------|-------------------------------|------------|---------------|------|-------|------------------|----------------|---------------------|------|-----------|---|
| QUARTZLINE® (CONTINUED) | | | | | | | | | | | | | | |
| HALOGEN (CONTINUED) | | | | | | | | | | | | | | |
|  | T4 | Mini-Cand | 400 | 43706 Q400MC | 120 | 6 | CC-8 | 3.62 | 2 | 2000 | 7850 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted 4g, 8a, 9a, 9d, 10b, 10c, 12e |
| | | | | 43707 Q400CL/MC | 120 | 6 | CC-8 | 3.62 | 2 | 2000 | 8250 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear 4g, 8a, 9a, 9d, 10b, 10c, 12e |
|  | T2.5 | R7s | 500 | 15537 Q500T3/HD/2CD | 120 | 5 | C-8 | 4.68 | 2.25 | 2000 | 11100 | 2950 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b |
| | | | | 23731 Q500T3/CL | 120 | 12 | C-8 | 4.69 | 2.25 | 2000 | 11100 | 3000 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b |
| | | | | 23733 Q500T3/CL | 130 | 12 | C-8 | 4.69 | 2.25 | 2000 | 10550 | 3000 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b |
| | | | | 23744 Q500T3/CL/6-12PK | 120 | 144 | C-8 | 4.69 | 2.25 | 1500 | 10950 | 3000 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, 6 Filament 4e, 4f, 4g, 8a, 9a, 9d,, Support, Rough 10b, 10c, 12b Service, Horizontal |
| | | | | 19382 Q500T3/CL/CD 5PK | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | 11100 | 3000 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal, 4e, 4f, 4g, 8a, 9a, 9d, Carded 10b, 10c, 12b |
| | | | | 27448 Q500T3CL/CD2-5PK | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | 11100 | 3000 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal, 4e, 4f, 4g, 8a, 9a, 9d, Carded 10b, 10c, 12b |
|  | T4 | D C Bay | 500 | 43709 Q500DC | 120 | 6 | CC-8 | 3.44 | 2.13 | 2000 | 10100 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted 4g, 8a, 9a, 9d, 10b, 10c, 12e |
| | | | | 43710 Q500CL/DC | 120 | 6 | CC-8 | 3.44 | 2.13 | 2000 | 10450 | 2950 | | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear 4g, 8a, 9a, 9d, 10b, 10c, 12e |
|  | T8 | Spec 1" Ribbon | 500 | 39071 Q500T8/1CL | | 20 | CC-8 | 4.25 | 2.5 | 500 | 13400 | 3200 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Airport, 4e, 4f, 4g, 8a, 9a, 9d, Special bulb 10b, 10c, 12b |
|  | PAR56 | Mog End Pr | 500 | 43494 Q500PAR56NSP | 120 | 6 | CC-6 | 5 | | 4000 | 8000 | 2950 | 96000 | 1a, 2a, 2j, 4b, 4c, 4f, 4g, Narrow Spot 7a, 9b, 10c |
| | | | | 43495 Q500PAR56MFL | 120 | 6 | CC-6 | 5 | | 4000 | 8000 | 2950 | 43000 | 1a, 2a, 2j, 4b, 4c, 4f, 4g, Medium Flood 7a, 9b, 10c |
| | | | | 43496 Q500PAR56WFL | 120 | 6 | CC-6 | 5 | | 4000 | 8000 | 2950 | 19000 | 1a, 2a, 2j, 4b, 4c, 4f, 4g, Wide Flood 7a, 9b, 10c |
|  | T3 | R7s | 1000 | 43711 Q1000T3/CL-6PK | 230 | 144 | C-8 | 10.06 | 6.13 | 2000 | 21500 | 3050 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b |
| | | | | 43712 Q1000T3/CL-6PK | 240 | 144 | C-8 | 10.06 | 6.44 | 2000 | 21500 | 3050 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b |
|  | T6 | R7s | 1000 | 23800 Q1000T6/CL | 120 | 6 | CC-8 | 5.63 | 1 | 2000 | 23400 | 3200 | | 1a, 2a, 2j, 4a, 4c, 4e, Clear 4f, 4g, 8a, 9a, 9d, 10b, 10c |
|  | T20 | Mog BiPost | 1000 | 41734 Q1000T20BP | 120 | 6 | CC-8 | 9.5 | 4 | 3000 | 22400 | 3050 | | 12c Clear, Lighthouse, Base Down |
|  | PAR64 | ExMogEndPr | 1000 | 43497 Q1000PAR64NSP | 120 | 6 | CC-6 | 6 | | 4000 | 19400 | 3000 | 200000 | 1a, 2a, 2j, 4b, 4c, 4f, Narrow Spot 4g, 7a, 9b, 10c |
| | | | | 43498 Q1000PAR64MFL | 120 | 6 | CC-6 | 6 | | 4000 | 19400 | 3000 | 80000 | 1a, 2a, 2j, 4b, 4c, 4f, Medium Flood 4g, 7a, 9b, 10c |
| | | | | 43499 Q1000PAR64/WFL | 120 | 6 | CC-6 | 6 | | 4000 | 19400 | 3000 | 33000 | 1a, 2a, 2j, 4b, 4c, 4f, Wide Flood 4g, 7a, 9b, 10c |



Halogen Lamps






| Bulb Shape | Base Type | Order Watts | Code | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information |
|--------------------------------|----------------|-------------|-------|------------------|------------|---------------|------|-------|------|------------------|----------------|---------------------|------|--|------------------------|
| QUARTZLINE® (CONTINUED) | | | | | | | | | | | | | | | |
| HALOGEN (CONTINUED) | | | | | | | | | | | | | | | |
| T3 | R7s | 1500 | 23828 | Q1500T3/CL-12PK | 208 | 144 | C-8 | 10.06 | 6.25 | 2000 | 35800 | 3050 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b | |
| | | | 23826 | Q1500T3/CL-12PK | 220 | 144 | C-8 | 10.06 | 6.81 | 2000 | 35800 | 3050 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b | |
| | | | 23830 | Q1500T3/CL | 240 | 12 | C-8 | 10.06 | 6.31 | 2000 | 35800 | 3050 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b | |
| | | | 23832 | Q1500T3/CL | 277 | 12 | C-8 | 10.06 | 6.25 | 2000 | 34400 | 3050 | | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b | |
| | Wire Lead | 6000 | 23843 | Q6M/T3/CL/HT | 480 | 12 | C-8 | 11.94 | 9.75 | 100 | | 3250 | | 1a, 2a, 2b, 4c, 4d, 4e, 4f, Clear, Infrared, High 4g, 8a, 9a, 9d, 10b, Temp, Constr. 10c, 12b, 12e | |
| | Slv | 6600 | 13511 | QH6600T3/CL/HT | 480 | 12 | C-8 | 11.94 | 9.75 | 150 | | | | 1a, 2a, 2b, 4c, 4d, 4e, 4f, Clear, Infrared, 4g, 8a, 9a, 9d, 10b, Horizontal 10c, 12b, 12e | |
| AIRPORT | | | | | | | | | | | | | | | |
| T2.5 | Special | 45 | 23847 | Q6.6A/T2 1/2/1CL | 12 | C-8 | 1.75 | | | 1000 | 710 | | | 2a, 2j, 4a, 4c, 4e, 4f, Clear, Airport 4g, 8a, 9a, 9d, 10b, 10c | |
| T4 | PK30d | 100 | 80584 | Q6.6A100PK30d-m | 10 | CBAR-6 | 2.0 | 0.79 | 1000 | 2700 | | | | 2a, 2j, 4a, 4c, 4e, 4f, Airport, Male Spade 4g, 8a, 9a, 9d, 10b, 10c | |
| T5 | PK30d | 100 | 80588 | Q6.6A100PK30d-f | 10 | CBAR-6 | 2.0 | 0.79 | 1000 | 2700 | | | | 2a, 2j, 4a, 4c, 4e, 4f, Airport, 4g, 8a, 9a, 9d, 10b, 10c Female Spade | |
| T6 | PK30d | 150 | 80585 | Q6.6A150PK30d-m | 10 | CBAR-6 | 2.0 | 0.79 | 1000 | 3600 | | | | 2a, 2j, 4a, 4c, 4e, 4f, Airport, Male Spade 4g, 8a, 9a, 9d, 10b, 10c | |
| T7 | PK30d | 150 | 80589 | Q6.6A150PK30d-f | 10 | CBAR-6 | 2.0 | 0.79 | 1000 | 3600 | | | | 2a, 2j, 4a, 4c, 4e, 4f, Airport, 4g, 8a, 9a, 9d, 10b, 10c Female Spade | |
| T8 | PK30d | 200 | 80586 | Q6.6A200PK30d-m | 10 | CC-6 | 2.3 | 0.79 | 1000 | 4800 | | | | 2a, 2j, 4a, 4c, 4e, 4f, Airport, Male Spade 4g, 8a, 9a, 9d, 10b, 10c | |
| T9 | PK30d | 200 | 80590 | Q6.6A200PK30d-f | 10 | CC-6 | 2.3 | 0.79 | 1000 | 4800 | | | | 2a, 2j, 4a, 4c, 4e, 4f, Airport, 4g, 8a, 9a, 9d, 10b, 10c Female Spade | |
| T4 | Spec 1" Ribbon | 200 | 23857 | Q6.6A/T4/5CL | 12 | CC-8 | 3 | | | 500 | 5000 | | | 2a, 2j, 4a, 4c, 4e, 4f, Clear, Airport 4g, 8a, 9a, 9d, 10b, 10c | |
| | D C Bay | 200 | 23860 | Q6.6AT4/DCR | 12 | CC-6 | 2.5 | 1.06 | 500 | 5150 | | | | 2a, 2j, 4a, 4c, 4e, Clear, Airport, 4f, 4g, 8a, 9a, 9d, 10b, Ringed 10c, 12e | |
| PAR56 | Scrw Term | 200 | 33279 | Q6.6A PAR56/3 | 12 | CC-6 | 4.5 | | | 1000 | | 200000 | | 2a, 2j, 4b, 4c, 4d, 4f, 4g, PAR, Airport, BDTH 7a, 9b, 10c | |
| PAR56 | Mog End Pr | 200 | 38271 | Q6.6A/PAR56/2 | 12 | CC-6 | 5 | | | 1000 | | 16000 | | 2a, 2j, 4b, 4c, 4d, 4f, 4g, PAR, Airport, BDTH 7a, 9b, 10c | |
| | | | 18309 | Q6.6A/PAR56/4 | 12 | CC-6 | 5 | | | 600 | | | | 2a, 2j, 4b, 4c, 4d, 4f, 4g, PAR, Airport, 7a, 9b, 10c Prismatic Lens, BDTH | |
| PAR64 | Mog End Pr | 200 | 13224 | Q6.6A/PAR 64/2P | 6 | CC-6 | 4.5 | | | 2000 | | | | 2a, 2j, 4b, 4c, 4d, 4f, 4g, PAR, Airport, BDTH 7a, 9b, 10c | |
| PAR56 | Scrw Term | 300 | 32861 | Q20A/PAR56/2 | 12 | CC-6 | 4.5 | | | 500 | | 200000 | | 2a, 2j, 4b, 4c, 4f, 4g, PAR, Airport, Burn 7a, 9b, 10c Position: Any | |
| | Mog End Pr | 300 | 15482 | Q20A/PAR56/C | 12 | CC-6 | 5 | | | 500 | | | | 2a, 2j, 4c, 4f, 4g, 7a, PAR, Airport, 9b, 10c Teflon® Coated, Burn Position: Any | |
| PAR64 | Mog End Pr | 300 | 13223 | Q6.6A/PAR 64/3P | 6 | CC-6 | 4.5 | | | 2000 | | | | 2a, 2j, 4b, 4c, 4d, 4f, PAR, Airport, BDTH 4g, 7a, 9b, 10c | |
| PAR56 | Scrw Term | 499 | 23863 | Q20A/PAR56/3 | 12 | CC-6 | 4.5 | | | 500 | | 330000 | | 2a, 2j, 4b, 4c, 4d, 4f, PAR, Airport, BDTH 4g, 7a, 9b, 10c | |
| | Mog End Pr | 500 | 15485 | Q20A/PAR56/1/C | 12 | CC-6 | 5 | | | 500 | | | | 2a, 2j, 4c, 4f, 4g, 7a, PAR, Airport, 9b, 10c Teflon® Coated, Burn Position: Any | |



| Bulb Shape | Base Type | Order Watts Code | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information |
|---|-----------|------------------|------------------|------------|---------------|------|-------|-------|------------------|----------------|---------------------|------|---|------------------------|
| TUBULAR QUARTZ HEAT | | | | | | | | | | | | | | |
|  | Slv | 300 39019 | QH300T3/CL | 120 | 12 | C-8 | 8.47 | 4.19 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | |
| | | 375 21337 | QH375T3/CL | | 12 | C-8 | 8.81 | 5.06 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | |
|  | R7s | 375 38893 | QH375T3/CL/7 | 120 | 12 | C-8 | 8.69 | 5.06 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | |
| | | 500 21787 | QH500T3/CL/7 | 120 | 12 | C-8 | 8.69 | 4.81 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | |
|  | Slv | 500 21788 | QH500T3/CL | 120 | 12 | C-8 | 8.81 | 4.81 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | |
| | | 1000 22355 | QH1000T3/CL | 210 | 12 | C-8 | 13.81 | 10 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | |
| | | 22357 | QH1000T3/CL | 240 | 12 | C-8 | 13.81 | 10 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | |
| | | 22358 | QH1000T3/CL/1 | 240 | 12 | C-8 | 11.88 | 10 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal 12b, 12e | |
| | | 22365 | QH1000T3/2CL/HT | 240 | 12 | C-8 | 13.81 | 10 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High 4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr., 12b, 12e Horizontal | |
| | | 1200 22531 | QH1200T3/CL | 144 | 12 | C-8 | 8.81 | 6.13 | 5000 | | 2450 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal 12b, 12e | |
| | | 22532 | QH1200T3/CL/HT | 144 | 12 | C-8 | 8.81 | 6.13 | 5000 | | 2450 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High 4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr., 12b, 12e Horizontal | |
| | | 1600 22686 | QH1600T3/CL | 210 | 12 | C-8 | 19.81 | 15.88 | 5000 | | 2350 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Horizontal 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | |
| | | 22688 | QH1600T3/CL | 240 | 12 | C-8 | 19.81 | 15.88 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal 12b, 12e | |
| | | 22695 | QH1600T3/CL | 277 | 12 | C-8 | 19.81 | 15.88 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Horizontal 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | |
|  | R7s | 1600 22691 | QH1600T3/CL/7 | 240 | 12 | C-8 | 19.63 | 15.88 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Horizontal 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | |
| | | 22699 | QH1600T3/CL/7 | 210 | 12 | C-8 | 19.63 | 15.88 | 5000 | | 2350 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Horizontal 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | |
|  | CER | 2000 12716 | QH2MT3/CL/HT/R | 230 | 12 | C-8 | | 11.06 | 5000 | | 2450 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High 4f, 4g, 9a, 9d, 10b, 10c, Temp, Horizontal, 12b, 12e Reflector 170° | |
|  | Slv | 2000 15551 | QH2MT3/1CL/HT/VB | 240 | 12 | C-8 | 11.94 | 9.69 | 500 | | 2450 | | 1a, 2a, 2b, 3a, 4c, 4d, Infrared, Clear, High 4e, 4f, 4g, 9a, 9d, 10b, Temp, Constr., 10c, 12e Universal | |
| | | 18668 | QH2MT3/CL/VB | 230 | 12 | C-8 | 13.81 | 11.06 | 5000 | | 2450 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Universal 12b, 12e | |
| | | 22789 | QH2M/T3/1CL/HT | 240 | 12 | C-8 | 11.94 | 9.69 | 5000 | | 2450 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High 4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr. 12b, 12e | |
| | | 22790 | QH2M/T3/CL/HT | 225 | 12 | C-8 | 13.81 | 10 | 5000 | | 2450 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High 4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr., 12b, 12e Horizontal | |
|  | R7s | 2500 22837 | QH2500T3/CL/7 | 460 | 12 | C-8 | 28.63 | 24.88 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal 12b, 12e | |



Halogen Lamps

| Bulb Shape | Base Type | Order Watts | Order Code | Description | Case Volts | Filament Qty. | Type | MOL | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information |
|--|-----------|-------------|------------|-------------------------------|------------|---------------|------|-------|-------|------------------|----------------|---------------------|------|---|------------------------|
| TUBULAR QUARTZ HEAT (CONTINUED) | | | | | | | | | | | | | | | |
|  | T3 | Slv | 2500 | 22838 QH2500T3/CL | 480 | 12 | C-8 | 28.81 | 24.88 | 5000 | | 2400 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal 12b, 12e | |
|  | | CER | 2500 | 28126 QH2.5MT3/CL/HT/R | 400 | 12 | C-8 | 15.1 | 12.3 | 5000 | | 2450 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, High Temp, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal, 12b, 12e | Reflector 170° |
| | | M4 Lug Term | 2500 | 28129 QH2500T3/VB-10PK | 240 | 10 | C-8 | 13.8 | 11 | 5000 | | 2450 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Universal 12b, 12e | |
|  | | CER | 3000 | 28127 QH3MT3/CL/HT/R | 400 | 12 | C-8 | 15.1 | 12.3 | 5000 | | 2450 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, High Temp, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal, 12b, 12e | Reflector 170° |
| | | M4 Lug Term | 3000 | 28130 QH3MT3/VB-10PK | 240 | 10 | C-8 | 13.8 | 11 | 5000 | | 2450 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Universal 12b, 12e | |
| | | | 3650 | 10872 QH3650T3/CL/5 | 480 | 6 | C-8 | 41.63 | 38 | 5000 | | 2500 | | 1a, 2a, 2b, 3a, 4f, 5a, 5b, Infrared, Horizontal 9a, 9d, 10c, 12b, 12e | |
|  | | Slv | 3800 | 22875 QH3800T3/CL | 575 | 6 | C-8 | 41.81 | 38 | 5000 | | 2500 | | 1a, 2a, 2b, 3a, 4f, 5a, 5b, Infrared, Horizontal 9a, 9d, 10c, 12b, 12e | |
| | | | | 22878 QH3800T3/CL/VB | 575 | 6 | C-8 | 41.81 | 38 | 5000 | | 2500 | | 1a, 2a, 2b, 3a, 4f, 5a, 5b, Infrared, Clear, 9a, 9d, 10c, 12e | Universal |
| | | | 5000 | 22900 QH5M/T3/1CL/HT | 600 | 12 | C-8 | 28.81 | 25.25 | 5000 | | 2500 | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High 4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr., 12b, 12e | Horizontal |
| | | M4 Lug Term | 6000 | 29889 QH6000T3/HT-ASM | 480 | 12 | C-8 | 14.2 | 11.4 | | | | | 1a, 2a, 2b, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal, 12b, 12e | High Temp. |
|  | | Wire Lead | 6000 | 23843 QH6MT3/CL/HT | 480 | 12 | C-8 | 11.94 | 9.75 | 100 | | 3250 | | 1a, 2a, 2b, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal, 12b, 12e | High Temp. |
| | | M4 Lug Term | 6600 | 13511 QH6600T3/CL/HT | 480 | 12 | C-8 | 11.94 | 9.75 | 150 | | | | 1a, 2a, 2b, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal, 12b, 12e | High Temp. |



GENERAL INFORMATION

HALOGEN LAMP OPERATING PRECAUTIONS

The lamps listed in this catalog are filled to high internal gas pressures to maximize lamp efficacy (lumens per watt). Some general cautions are given below.

HIGH OPERATING TEMPERATURES

Since operating temperatures are critical to the effective self-cleaning properties of halogen lamps, filament tube wall temperatures should not go below 482°F (250°C). Hot spots on the bulb wall itself can go as high as 1230°F (700°C) in normal operation.

Substantial heat is generated in all halogen lamps, so equipment design should make allowance for the dissipation of excessive heat. Certain lamps and extremely confined fixtures may require additional ventilation or heat sinking to ensure proper operation of the halogen cycle and to prevent damage to the fixture. It is a good practice to test the lamp in the operating environment early in the design cycle to ensure adequate performance. Precautions must be taken in the selection of materials for lampholders, reflectors and lamp housings because the 1230°F (700°C) bulb wall temperature is greater than the kindling temperature of many materials. Lamp base temperatures should not exceed 662°F (350°C) because, above that point, lead wires may deteriorate and the basing cement loosen, causing premature lamp failure.

DISTRIBUTION OF SPECTRAL RADIATION

Halogen lamps offer large amounts of visible and infrared energy from a small light source, with about 90% of the energy in the infrared. Some halogen lamps can be used for special applications where small amounts of ultraviolet energy are required. The slight ultraviolet radiation that comes from unprotected sources could cause skin and eye irritation following extended direct exposure. Passing the light through ordinary glass or plastic provides adequate protection. The lenses of the PAR, TAL or Cover Glass Precise™ lamps provide this protection.

OPERATING NOTES

- Turn power off and let lamp cool before removal to avoid potential burn and electrical shock during lamp replacement
- Do not use lamp if outer glass is scratched or broken because it may break during installation or later during operation
- Do not use lamp in close proximity to combustible materials or those adversely affected by drying or fading action because of heat radiation in the lamp beam
- Dispose of removed lamp with care such as placing in used lamp carton or other closed container

COMPACT PAR LAMPS (PAR20/30)

- Use outdoors in enclosed fixtures or where protected from exposure to water

QUARTZLINE® PAR (250W)

- Avoid use where subjected to exposure to moisture which may cause lamp to break or shatter
- Do not operate lamp over 110% rated voltage. Overvoltage operation increases pressure and tendency to break.
- Use this lamp only in fixtures designed for Q250PAR38 lamps

QUARTZ HEAT LAMPS

GE standard quartz heat products are primarily pressurized halogen lamps. Many standard tungsten coil filaments have been converted to a deflection coil winding design that eliminates the need for filament supports through an integral coil/support construction. These changes will improve lamp life as well as keep the bulb wall cleaner during operation and throughout the life of the lamp.

In general, halogen lamps are more efficient than ordinary incandescent lamps. HIR™ lamps are the most efficient halogen lamps we offer. For each application, check life, lumens, wattage, beam spread and lamp dimensions to determine proper bulb selection.

GE has added a reflectorized heat lamp with a patented design that directs the infrared to a surface rather than in 360° angle.

HALOGEN CAUTION NOTICE – GENERAL

Halogen lamps are constructed of a glass bulb with a pressurized internal filament tube that operates at high temperatures and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture enclosure and/or surrounding environment, thereby creating a risk of personal injury or fire.

HALOGEN A-LINE (TB/H)

Caution: Cracked or broken bulbs that still light should be replaced immediately. The inner tube of the GE Halogen lamp is pressurized, operates at high temperature and could unexpectedly shatter with the possibility of property damage or personal injury. Avoid use in unstable table lamps, dispose of with care. To avoid burns, electricity should be switched off and the lamp allowed to cool for several minutes before removing from socket. Use outdoors only in enclosed fixtures or where protected from exposure to water.

OPERATING NOTES – LOW VOLTAGE LAMPS

Low voltage tungsten-halogen lamps are sensitive to voltage variations. Even a small change in voltage can have a considerable impact on lamp life. Designers should match fixture transformer ratings to actual line voltages to ensure that the lamps operate at as close to 12 volts as possible.

Rapid cycling can also shorten lamp life, and designers should take advice from their GE Lighting representative before using these lamps in flashing or blinking applications.

The lamps may be dimmed by reducing voltage. However, this may cause the bulbs to blacken. If this occurs the lamp should be run at full voltage for fifteen minutes, thereby clearing the problem. Note that the nature of low voltage lighting systems requires the use of fluorescent-type dimmers. Lamp can be operated on AC or DC currents.



WARNINGS AND CAUTION NOTICES

1

▲ WARNING

Risk of electric shock

- a Turn power off before inspection, installation or removal
- b Turn power off if glass bulb is broken, even if bulb continues to light. Remove and dispose of lamp.
- c Do not open. No user serviceable parts inside.

2

▲ WARNING

Risk of fire

- a Keep combustible materials away from lamp
- b Use in fixture rated for this product
- c Use in fixture rated for this product—see instructions
- d Operate base down to horizontal only
- e In table lamp use only with shade
- f Do not use in enclosed fixture or with lamp shade
- g Use in high intensity fixture rated for this product
- h Do not use as a night light
- i Burning position base down only
- j Use in enclosed fixture rated for this product
- k Fire Hazard! Do not use in Torchiere or other indoor residential fixtures

3

▲ WARNING

Lamp emits IR radiation which may cause eye injury

- a Avoid exposure of eyes and skin to unshielded lamp

4

▲ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- a Use eye protection when handling lamp
- b Avoid direct water/liquid contact
- c Use in enclosed fixture rated for this product
- d Operate lamp only in specified position
- e Do not touch glass with bare hands
- f Do not use lamp if outer glass is scratched or broken
- g Do not exceed 110% of rated voltage
- h Do not use where directly exposed to water or outdoors without an enclosed fixture
- i Do not exceed rated voltage
- j Do not use lamp if outer jacket is scratched or broken, even if bulb continues to light. Turn power off, remove and dispose.
- k Do not use in wet locations

5

▲ WARNING

Unexpected lamp rupture may cause injury, fire, or property damage

- a Do not touch glass with bare hands
- b Operate lamp only in specified position
- c Use in enclosed fixture rated for this product
- d Do not use lamp if outer glass is scratched or broken
- e Avoid direct water, liquid or metal contact

6

▲ WARNING

Risk of burn

- a Do not touch operating lamp

7

▲ WARNING

A damaged lamp emits UV radiation which may cause eye/skin injury

- a Turn power off if glass bulb is broken. Remove and dispose of lamp.

8

▲ WARNING

Lamp emits UV radiation which may cause eye/skin injury.

- a Avoid exposure of eyes and skin to unshielded lamp

9

▲ CAUTION

Risk of burn

- a Allow lamp to cool before handling
- b Allow lamp/fixture to cool before handling
- c Do not touch operating lamp
- d Turn power off before installing lamp

10

▲ CAUTION

Lamp may shatter and cause injury if broken

- a Wear safety glasses and gloves when handling lamp
- b Dispose of lamp in a closed container
- c Do not use lamp if outer glass is scratched or broken

11

▲ CAUTION

Lamp emits UV radiation which may cause eye/skin irritation.

- a Minimize exposure

12

OP. INST.

- a Burning Position - Base up
- b Burning position - horizontal
- c Burn base down only
- d Burn base down to horizontal
- e Limit seal temp to 650°F. Maintain min bulb wall temp of 500°F for operation of halogen cycle



HALOGEN LAMPS CROSS REFERENCE

| <i>GE Description</i> | <i>Osram/Sylvania Description</i> | <i>Philips Description</i> |
|---------------------------|---|----------------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | |
| HALOGEN PAR LAMPS | | |
| 60PAR16/H/SP10 | 60PAR16/CAP/NSP10 | 60PAR16/HAL/NSP10 |
| 60PAR16/H/FL30 | 60PAR16/CAP/NFL30 | 60PAR16/HAL/NFL27 |
| 75PAR16/H/SP10 | 75PAR16/CAP/NSP10 | — |
| 75PAR16/H/FL30 | 75PAR16/CAP/NFL30 | — |
| Q21EMR16/C/SP12 | — | — |
| Q21EMR16/C/FL25 | — | — |
| 50PAR20/H/SP10 | 50PAR20/CAP/SPL/NSP10 | 50PAR20/HAL/NSP9 |
| 50PAR20/H/FL25 | 50PAR20/CAP/SPL/NFL30 | 50PAR20/HAL/NFL30 |
| 50PAR30/H/SP10 | 50PAR30/CAP/SPL/NSP9 | 50PAR30S/HAL/NSP10 |
| 50PAR30/H/FL25 | 50PAR30/CAP/SPL/NFL25 | 50PAR30S/HAL/NFL30 |
| 50PAR30/H/FL35 | 50PAR30/CAP/SPL/FL40 | 50PAR30S/HAL/FL40 |
| 50PAR30L/H/SP10 | 50PAR30LN/CAP/SPL/NSP9 | 50PAR30L/HAL/NSP9 |
| 50PAR30L/H/FL40 | 52PAR30LN/CAP/SPL/NFL30 | 50PAR30L/HAL/NFL30 |
| 50PAR30L/H/WFL | 50PAR30LN/CAP/SPL/WFL50 | 50PAR30L/HAL/WFL60 |
| 60PAR30/H/NSP9 | 60PAR30/CAP/SPL/NSP9 | 60PAR30S/HAL/NSP10 |
| 60PAR30/H/FL25 | 60PAR30/CAP/SPL/NFL25 | 60PAR30S/HAL/NFL30 |
| 60PAR30/H/FL35 | — | 60PAR30S/HAL/NFL40 |
| 75PAR30/H/SP10 | 75PAR30/CAP/SPL/NSP9 | 75PAR30S/HAL/NSP10 |
| 75PAR30/H/FL25 | 75PAR30/CAP/SPL/NFL25 | 75PAR30S/HAL/NFL30 |
| 75PAR30/H/FL35 | 75PAR30/CAP/SPL/FL40 | 75PAR30S/HAL/FL40 |
| 75PAR30L/H/SP10 | 75PAR30LN/CAP/NSP9 | 75PAR30L/HAL/NSP9 |
| 75PAR30L/H/FL25 | 75PAR30LN/CAP/NFL25 | 75PAR30L/HAL/NFL30 |
| 75PAR30L/H/WFL | 75PAR30LN/CAP/WFL40 | 75PAR30L/HAL/FL40 |
| 35PAR36/H/SP5 | 36PAR36/CAP/VNSP5 | — |
| 35PAR36/H/SP8 | 36PAR36/CAP/NSP13 | — |
| 35PAR36/H/FL30 | 36PAR36/CAP/FL32 | — |
| 35PAR36/H/WFL | — | — |
| 50PAR36/H/SP5 | 50PAR36/CAP/NSP6 | — |
| 50PAR36/H/SP8 | — | — |
| 50PAR36/H/FL30 | — | — |
| 45PAR/H/SP10 | 45PAR/CAP/SPL/SP9 | 45PAR38/HAL/SP12/LL |
| 45PAR/H/FL25 | 45PAR/CAP/SPL/FL30 | 45PAR38/HAL/FL28/LL |
| 50PAR/H/SP10 | — | — |
| 50PAR/H/FL25 | — | — |
| 53PAR/H/SS/SP10 | — | — |
| 53PAR/H/SS/FL25 | — | — |
| 60PAR/H/SP10 | 60PAR/CAP/SPL/SP10 | 60PAR38/HAL/NSP10/WLL |
| 60PAR/H/FL25 | 60PAR/CAP/SPL/NSL25 | 60PAR38/HAL/FL28/WLL |
| 66PAR/H/SS/SP10 | — | — |
| 66PAR/H/SS/FL25 | — | — |
| 75PAR/H/NSP9 | 75PAR/CAP/SPLSP9 | 75PAR38/HAL/SP10/WLL |
| 75PAR/H/FL25 | 75PAR/CAP/SPL/FL30 | 75PAR38/HAL/FL28/WLL |
| 79PAR/H/SS/SP10 | — | — |
| 79PAR/H/SS/FL25 | — | — |
| 90PAR/H/SP10 | 90PAR/CAP/SPL/SP9 | 90PAR38/HAL/SP12/LL |
| 90PAR/H/FL25 | 90PAR/CAP/SPL/FL30 | 90PAR38/HAL/FL28/LL |

| <i>GE Description</i> | <i>Osram/Sylvania Description</i> | <i>Philips Description</i> |
|--------------------------------------|---|----------------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | |
| HALOGEN PAR LAMPS (CONTINUED) | | |
| 90PAR/H/WFL | 90PAR/CAP/SPL/WFL50 | 90PAR38/HAL/WFL60/WLL |
| 100PAR/H/SP10 | — | — |
| 100PAR/H/FL25 | — | — |
| 120PAR/H/SP9 | 120PAR/CAP/SPL/SP10 | — |
| 120PAR/H/FL30 | 120PAR/CAP/SPL/FL30 | — |
| Q250PAR/SP10 | 250PAR/CAP/SPL/SP10 | — |
| Q250PAR/FL30 | 250PAR/CAP/SPL/FL30 | — |
| Q500PAR56NSP | 500PAR56QNSP | 500PAR56Q/NSP |
| Q500PAR56MFL | 500PAR56QMFL | 500PAR56Q/MFL |
| Q500PAR56WFL | 500PAR56QWFL | 500PAR56Q/WFL |
| Q1000PAR64NSP | 1000PAR64QNSP | 1000PAR64Q/NSP |
| Q1000PAR64MFL | 1000PAR64QMFL | 1000PAR64Q/MFL |
| Q1000PAR64WFL | 1000PAR64QWFL | 1000PAR64Q/WFL |
| HALOGEN HIR™ PAR LAMPS | | |
| 45PAR30/HIR/SP9XL | — | — |
| 45PAR30/HIR/FL25XL | — | — |
| 45PAR30/HIR/FL35XL | — | — |
| 50PAR30/HIR/SP9 | 50PAR30/CAP/IR/NSP9 | 50PAR30S/IRC/NSP10 |
| 50PAR30/HIR/FL25 | 50PAR30/CAP/IR/NFL25 | 50PAR30S/IRC/NFL30 |
| 50PAR30/HIR/FL35 | 50PAR30/CAP/IR/FL40 | 50PAR30S/IRC/FL40 |
| 45PAR/HIR/R/SP10 | — | — |
| 45PAR/HIR/R/FL25 | — | — |
| 45PAR/HIR/SP12XL | — | — |
| 45PAR/HIR/FL40XL | — | — |
| 50PAR/HIR/SP6 | — | — |
| 50PAR/HIR/SP9 | 50PAR/CAP/IR/NSP9 | 50PAR38/IRC/SP12 |
| 50PAR/HIR/FL25 | 50PAR/CAP/IR/NFL25 | 50PAR38/IRC/FL25 |
| 50PAR/HIR/S/SP10 | — | — |
| 50PAR/HIR/S/FL25 | — | — |
| 55PAR/HIR/R/SP10 | — | — |
| 55PAR/HIR/R/FL25 | — | — |
| 55PAR/HIR/SP12XL | — | — |
| 55PAR/HIR/FL40XL | — | — |
| 60PAR/HIR/SP10 | 60PAR/CAP/IR/SP9 | 60PAR38/IRC/SP12 |
| 60PAR/HIR/FL30 | 60PAR/CAP/IR/FL30 | 60PAR38/IRC/FL25 |
| 60PAR/HIR/FL40 | — | — |
| 60PAR/HIR/WFL | — | 60PAR38/IRC/WFL |
| 60PAR/HIR/S/SP10 | — | — |
| 60PAR/HIR/S/FL25 | — | — |
| 70PAR/HIR/SP10 | — | — |
| 70PAR/HIR/FL25 | — | — |
| 80PAR/HIR/SP10 | 80PAR/CAP/IR/SP10 | — |
| 80PAR/HIR/SP12 | 80PAR/CAP/IR/SP12 | — |
| 80PAR/HIR/FL25 | 80PAR/CAP/IR/FL25 | — |
| 90PAR/HIR/R/SP10 | — | — |
| 90PAR/HIR/R/FL25 | — | — |



HALOGEN LAMPS CROSS REFERENCE

| <i>GE Description</i> | <i>Osram/Sylvania Description</i> | <i>Philips Description</i> |
|---|---|----------------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | |
| HALOGEN HIR™ PAR LAMPS (CONTINUED) | | |
| 90PAR/HIR/SP12XL | — | — |
| 90PAR/HIR/FL40XL | — | — |
| 100PAR/HIR/SP10 | 100PAR/CAP/IR/SP10 | 100PAR38/IRC/SP10 |
| 100PAR/HIR/FL25 | 100PAR/CAP/IR/NFL25 | 100PAR38/IRC/FL25 |
| 100PAR/HIR/FL40 | 100PAR/CAP/IR/FL40 | 100PAR38/IRC/WFL |
| HALOGEN MR11 LAMPS | | |
| Q20MR11/SP15 | 20MR11/SP10/FTB | 20MRC11/SP10 |
| Q20MR11/NFL30 | 20MR11/FL35/FTD | 20MRC11/FL30 |
| Q35MR11/NSP20 | 35MR11/SP10/FTE | — |
| Q35MR11/NFL30 | 35MR11/FL40/FTH | — |
| HALOGEN STANDARD MR16 LAMPS | | |
| Q20MR16/SP | 20MR16/NSP8/ESX | 20MRC16/SP10 |
| Q20MR16/FL | 20MR16/FL40/BAB | 20MRC16/FL36 |
| Q50MR16/SP | 50MR16/NSP12/EST | 50MRC16/SP10 |
| Q50MR16/FL | 20MR16/FL40/EXN | 50MRC16/FL38 |
| HALOGEN CONSTANTCOLOR® PRECISE™ MR16 LAMPS | | |
| Q20MR16/C/VNSP7 | 20MR16/T/NSP10 | 20MRC16/CC/SP10 |
| Q20MR16/C/NSP15 | — | 20MRC16/CC/NFL24 |
| Q20MR16/C/FL40 | 20MR16/T/NFL40 | 20MRC16/CC/FL38 |
| Q35MR16/C/SP20 | 35MR16/T/NFL25 | — |
| Q35MR16/C/FL40 | 35MR16/T/FL40 | — |
| Q42MR16/C/VNSP9 | 50MR16/T/NSP10 | — |
| Q50MR16/C/NSP15 | — | 50MRC16/CC/SP10 |
| Q50MR16/C/NFL25 | 50MR16/T/NFL25 | 50MRC16/CC/NFL24 |
| Q50MR16/C/NFL30 | — | — |
| Q50MR16/C/FL40 | 50MR16/T/FL40 | 50MRC16/CC/NFL38 |
| Q71MR16/C/NSP15 | 65MR16/T/NSP10 | — |
| Q71MR16/C/NFL25 | 65MR16/T/NFL25 | — |
| Q71MR16/C/FL40 | 65MR16/T/FL40 | — |
| HALOGEN HIR™ MR16 LAMPS | | |
| Q37MR16/HIR/CG10 | 37MR16/IR/NSP10C | 35MRC16/IRC/SP8 |
| Q37MR16/HIR/CG25 | 37MR16/IR/NFL25C | 35MRC16/IRC/NFL24 |
| Q37MR16/HIR/CG40 | 37MR16/IR/FL40C | 35MRC16/IRC/FL36 |
| Q50MR16/HIR/CG10 | 50MR16/IR/NSP10C | 45MRC16/IRC/SP8 |
| Q50MR16/HIR/CG25 | 50MR16/IR/NFL25C | 45MRC16/IRC/NFL24 |
| Q50MR16/HIR/CG40 | 50MR16/IR/FL40C | 45MRC16/IRC/FL36 |

| <i>GE Description</i> | <i>Osram/Sylvania Description</i> | <i>Philips Description</i> |
|----------------------------------|---|----------------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | |
| HALOGEN BIPIN LOW VOLTAGE | | |
| Q5T3/CL | 5T3Q/CL | 5W12V/Capsule |
| Q10T3/CL | 10T3Q/CL | 10W12V/Capsule |
| Q20T3/CL | 20T3Q/CL/AX | 20W12V/Capsule |
| Q35T3/CL | 35TQ/CL/AX | 35W12V/Capsule |
| Q50T4/CL | 50T4Q/CL | 50W12V/Capsule |
| Q75T4/CL | 75T4Q/CL/RP | — |
| HALOGEN SINGLE-ENDED | | |
| Q100CL/DC | 100Q/CL/DC | 100Q/CL/DC |
| Q100CL/MC | 100Q/CL/MC | 100Q/CL |
| Q100DC | 100Q/DC | — |
| Q150CL/DC/2V | 150Q/CL/DC/1 | — |
| Q150CL/DC | 150Q/CL/DC | 150Q/CL/DC |
| Q150CL/MC | 150Q/CL/MC/2 | 150Q/CL |
| Q150CL/MC/2V | 150Q/CL/MC | — |
| Q150DC | 150Q/DC | 150Q/DC |
| Q150MC | 150Q/MC | 150Q |
| Q250CL/DC | 250Q/CL/DC | 250Q/CL/DC |
| Q250CL/MC | 250Q/CL/MC/2 | 250Q/CL |
| Q250DC | 250Q/DC | — |
| Q250MC | 250Q/MC | — |
| HALOGEN DOUBLE-ENDED | | |
| Q100T3/CL/CD | 100T3Q/CL | BC100T3Q/CL/TP |
| Q150T3/CL | 150T3Q/CL | BC100T3Q/CL/TP |
| Q300T3/CL | 300T3Q/CL | 300T3Q/P/CL |
| Q500T3/CL | 500T3Q/CL | 500T3Q/P/CL |



CONSTANTCOLOR® CMH® METAL HALIDE LAMPS

| | |
|-----------------------------|------|
| MR16 | 3-9 |
| PAR | 3-9 |
| Elliptical | 3-9 |
| Elliptical Open-Rated | 3-9 |
| Single-Ended G12 | 3-10 |
| Double-Ended TD | 3-10 |
| GU6.5 | 3-10 |
| Mini's | 3-10 |
| High-Watt CMH® SPXX | 3-10 |
| CMH® Chromafit™ | 3-11 |

PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS 3-11

MULTI-VAPOR® METAL HALIDE LAMPS 3-13

HIGH OUTPUT AND XHO MULTI-VAPOR® METAL HALIDE LAMPS 3-14

SPORTSLIGHTING 3-14

PROTECTED MULTI-VAPOR® METAL HALIDE LAMPS..... 3-15

CHROMAFIT™ MULTI-VAPOR® METAL HALIDE LAMPS (HPS RETROFIT LAMPS)..... 3-16

I-LINE MULTI-VAPOR® METAL HALIDE LAMPS (MERCURY RETROFIT LAMPS) 3-16

SAF-T-GARD® SELF-EXTINGUISHING MULTI-VAPOR® LAMPS 3-16

ARCSTREAM® METAL HALIDE LAMPS..... 3-16

LUCALOX® HIGH PRESSURE SODIUM LAMPS 3-17

STANDBY LONGLIFE LUCALOX® LAMPS 3-18

ECOLUX® NC NON-CYCLING HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT) 3-18

ECOLUX® HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT) 3-19

SOX LOW PRESSURE SODIUM LAMPS..... 3-20

MERCURY LAMPS..... 3-20

SAF-T-GARD® MERCURY LAMPS 3-21

E-Z MERC® SELF-BALLASTED LAMPS (INCANDESCENT RETROFIT) 3-21

EXPORT LAMPS

| | |
|--|------|
| Metal Halide | 3-21 |
| Lucalox® High Pressure Sodium..... | 3-22 |
| E-Z Lux® Lucalox® High Pressure Sodium (Mercury Retrofit)..... | 3-22 |
| Mercury | 3-22 |

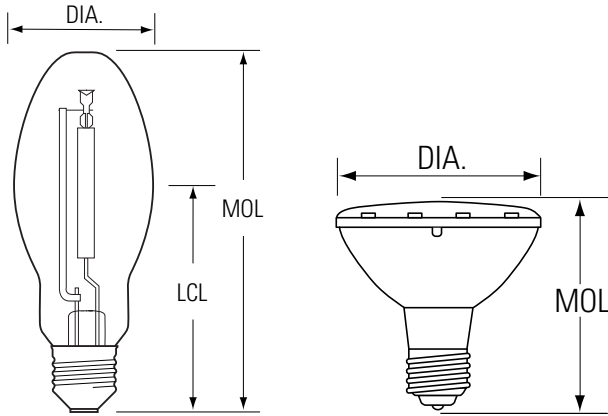
HORTICULTURAL LAMPS 3-22

CROSS REFERENCE..... 3-32



High Intensity Discharge Lamps

BULB IDENTIFICATION



DIA: Diameter of bulb at widest point.

MOL: Maximum Overall Length including base or pins.

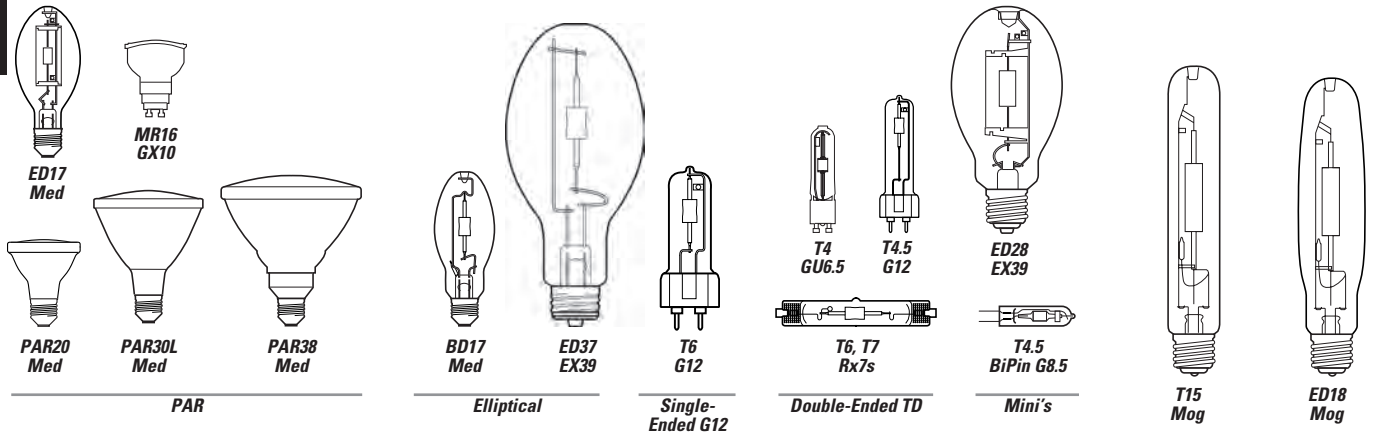
LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale.

Be sure to check size and dimension information when identifying each lamp.

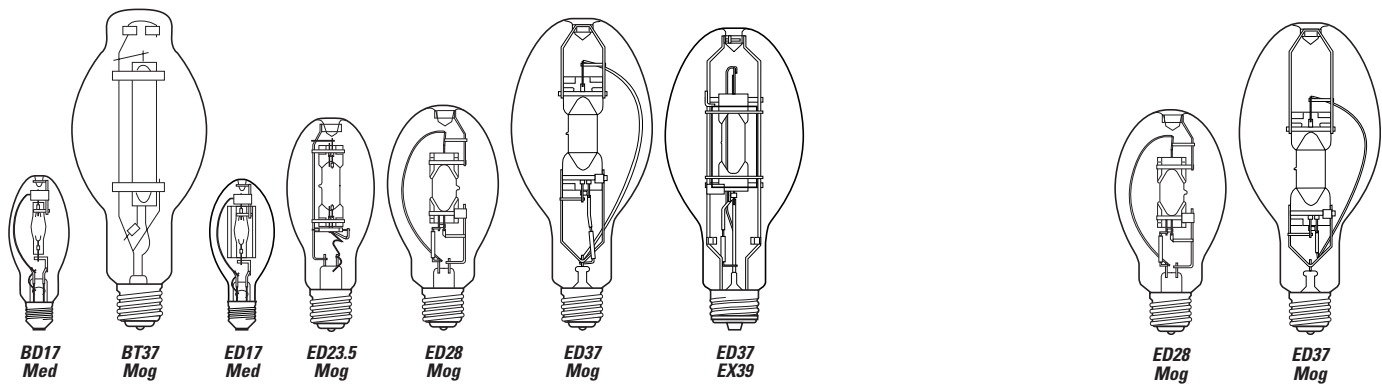
To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

LAMP LOCATOR



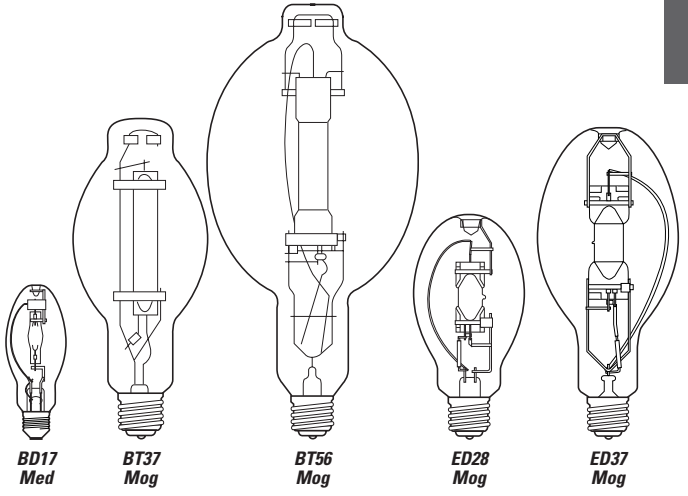
ConstantColor® CMH® Ceramic Metal Halide

CMH® Chromafit™ Ceramic Metal Halide (HPS Retrofit Lamps)

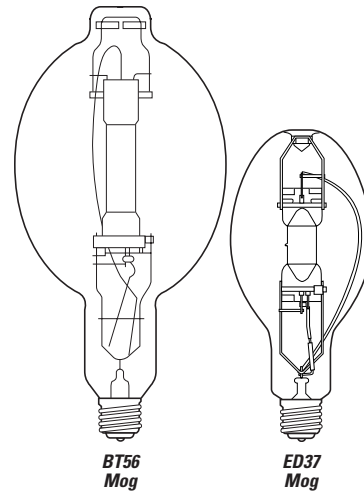


PulseArc® Multi-Vapor® Metal Halide Lamps

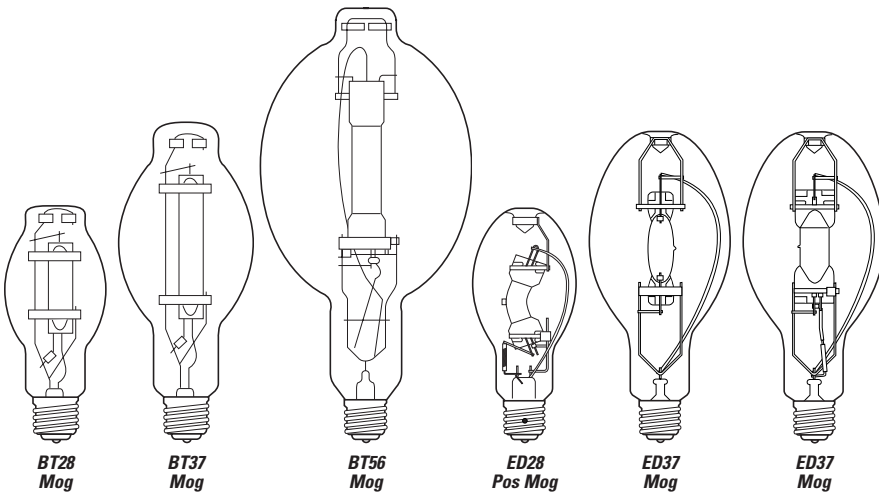
Chromafit™ Multi-Vapor® Metal Halide Lamps (HPS Retrofit Lamps)



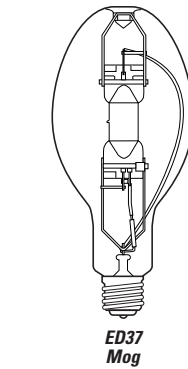
Multi-Vapor® Metal Halide Lamps



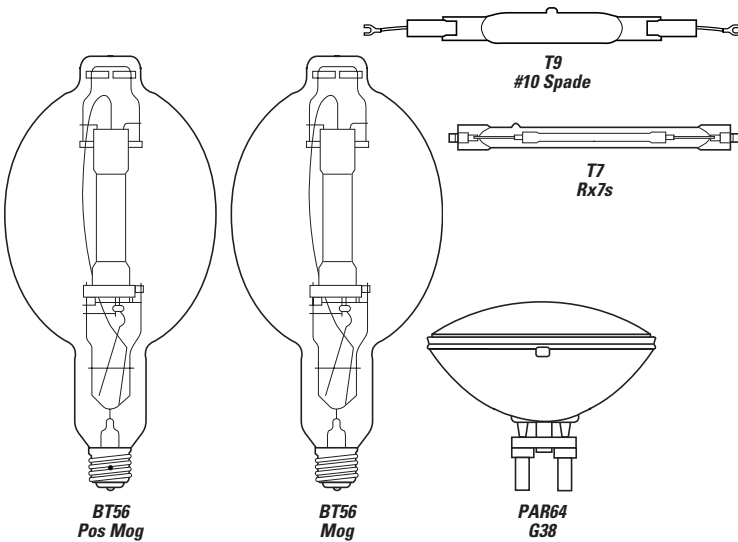
I-Line Multi-Vapor® Metal Halide Lamps (Mercury Retrofit Lamps)



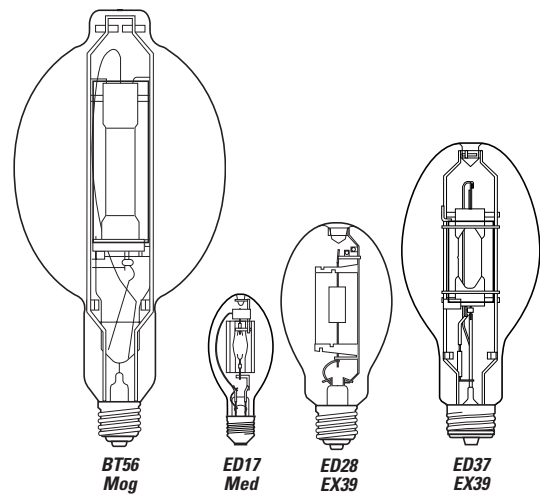
High Output and XHO Multi-Vapor® Metal Halide Lamps



Saf-T-Gard® Self-Extinguishing Multi-Vapor® Lamps



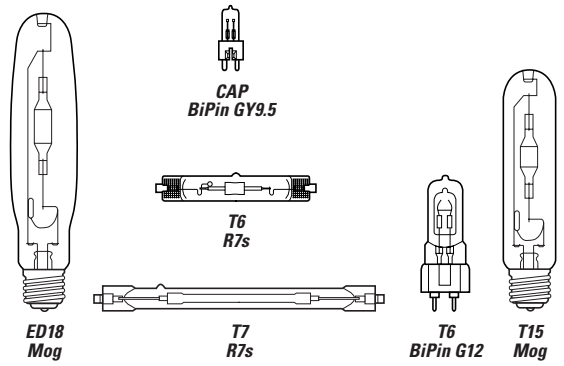
Sportsighting



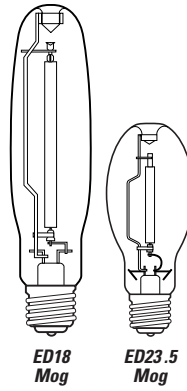
Protected Multi-Vapor® Metal Halide Lamps



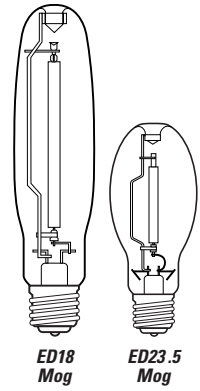
High Intensity Discharge Lamps



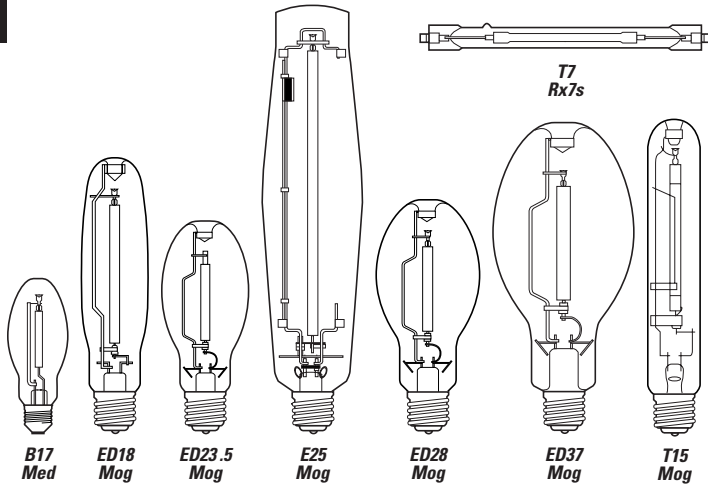
Arcstream® Metal Halide Lamps



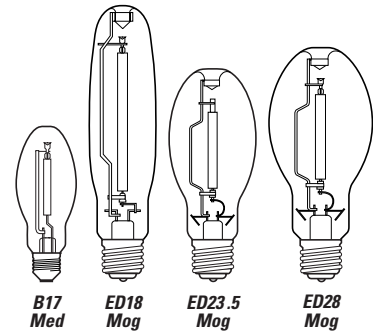
**Ecolux® NC
Non-Cycling
High Pressure
Sodium Lamps
(TCLP Compliant)**



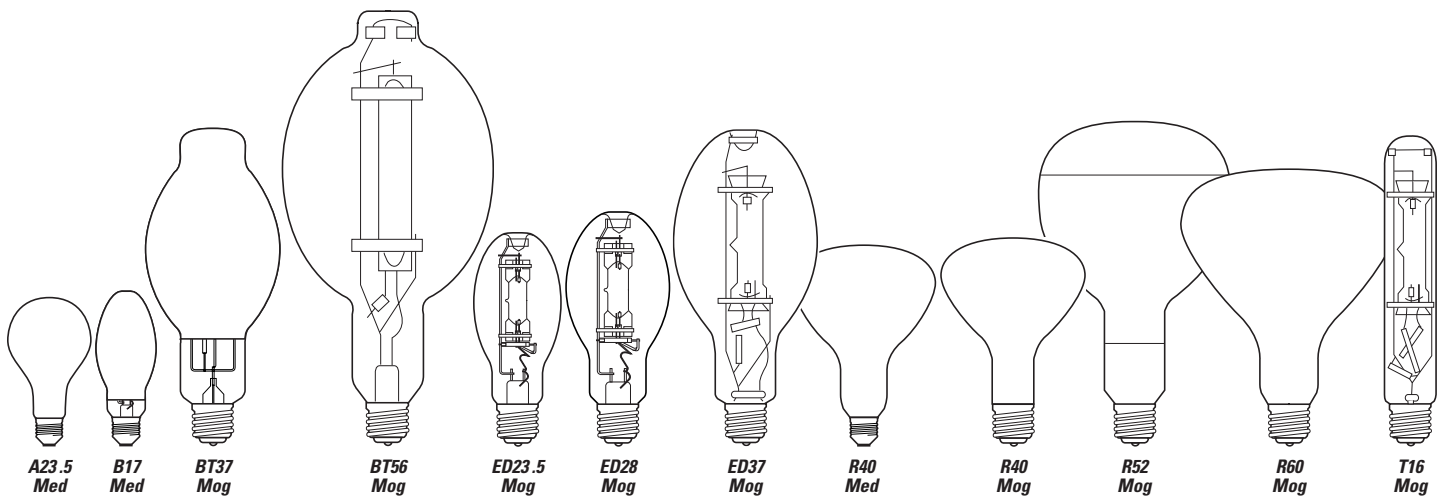
**Ecolux®
High Pressure
Sodium Lamps
(TCLP Compliant)**



Lucalox® High Pressure Sodium Lamps



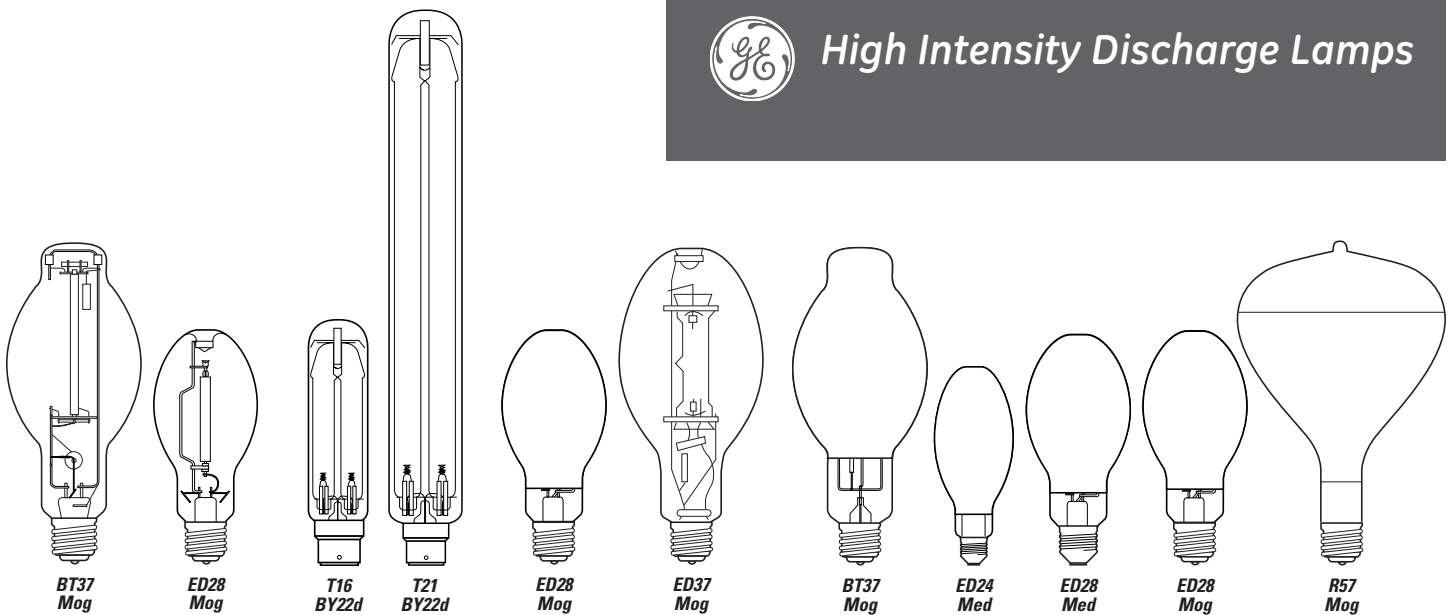
Deluxe Lucalox® High Pressure Sodium Lamps



Mercury Lamps



High Intensity Discharge Lamps



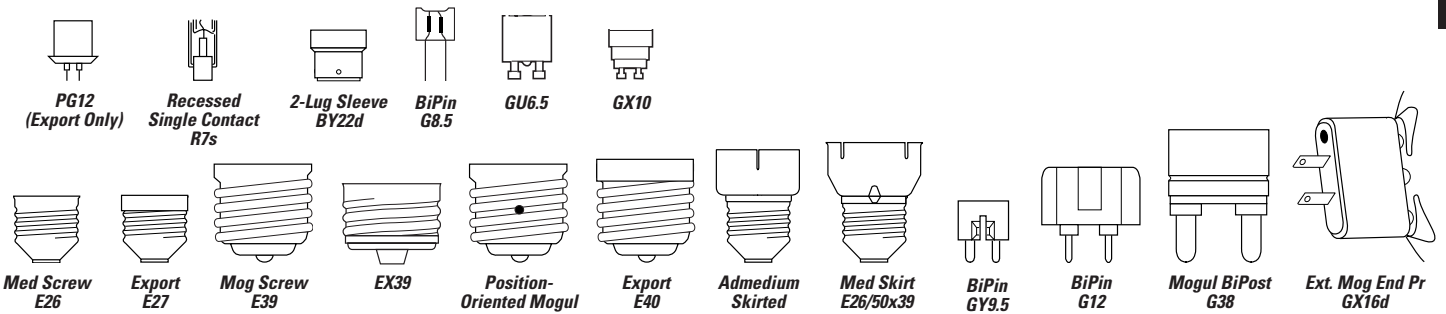
E-Z Lux® High Pressure Sodium Lamps (Mercury Retrofit)

SOX Low Pressure Sodium Lamps

Saf-T-Gard® Mercury Lamps

E-Z Merc® Self-Ballasted Lamps (Incandescent Retrofit)

BASE IDENTIFICATION



INTRODUCTION

GE HID lamps provide the following benefits:

High Efficacy/Low Operating Cost.

HID is generally the most efficient light source. Better efficiency almost always means lower operating cost.

Long Life.

Most HID lamps have life ratings that are better than incandescent lamps and similar to fluorescent lamps.

Compact Size.

An HID lamp produces high light output from a relatively compact source. Like incandescent, it is a "point" light source, which allows for good optical control.

The chart at right shows how HID lamps compare to incandescent, halogen, and fluorescent in terms of efficiency and rated life. Efficiency is measured in lumens per watt (LPW). Rated life for most lamp types is the number of burning hours when 50% of the tested samples have failed and 50% are still operational. For both HID and fluorescent, lamp life depends on the number of hours per start.

The combination of high efficiency and long life makes HID an ideal light source for many commercial and industrial applications.

SUGGESTED COLOR APPLICATIONS FOR HID LAMPS

CMH®: Stores, people places, display, accent.

MVR: Stores, public spaces, industrial, gymnasiums, floodlighting signs and buildings, parking areas, sports.

MVR/C: Same as MVR – warmer color – diffuse coating reduces glare.

Typical Lamp Characteristics

| Lamp Type | Typical LPW | Rated Life (in hours) |
|-------------------------------|-------------|-----------------------|
| Incandescent | 5 - 22 | 750 - 2000 |
| Halogen | 12 - 36 | 2000 - 6000 |
| Compact Fluorescent | 27 - 80 | 9000 - 20,000 |
| Fluorescent | 75 - 100 | 12,000 - 24,000 + |
| Mercury | 50 - 60 | 12,000 - 24,000 + |
| ConstantColor® CMH® | 80 - 95 | 7,500 - 20,000 |
| Multi-Vapor® Metal Halide | 80 - 115 | 10,000 - 20,000 |
| Lucalox® High Pressure Sodium | 90 - 140 | 10,000 - 40,000 |

MVR/SP30: Same as MVR – warmer than MVR or MVR/C – matches SP30 fluorescent.

MXR: Warm color (3200K) – good match for halogen.

LU: Street lighting, parking areas, industrial, floodlighting, security, CCTV.

LU/DX: Floodlighting, parking areas, indoor/outdoor pedestrian malls, industrial, security, roadway.

Deluxe (DX) Mercury: Stores, public spaces – Metal Halide lamps however, are preferred.

Clear Mercury: Landscape lighting, specialized floodlighting such as green copper roofs.



PRODUCT INFORMATION

GE CONSTANTCOLOR® CMH® CERAMIC METAL HALIDE LAMPS (pgs 3-9 to 3-11)

- Color uniformity lamp-to-lamp and over lamp life
- Excellent color rendering (80+ CRI, 90+ CRI for SPXX versions)
- Delivers more light than standard metal halide (10%–20% more)
- Lamp operates at high efficacy – up to 95 lumens per watt
- Many are universal burn – may be operated in any position
- Perfect for retail and commercial display lighting, accent and floodlighting, lobby and foyer lighting. Ideal for “people places.”

GE CMH® CHROMAFIT™ CERAMIC METAL HALIDE LAMPS (pg 3-11)

- Convert High Pressure Sodium sockets to crisp, white ceramic metal halide light (80+ CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Universal burn – may be operated in any position
- Uses: Area lighting, industrial and “people places”
- Enclosed glass fixtures only

GE PULSEARC® MEDIUM BASED METAL HALIDE LAMPS (/MED MODELS) (pgs 3-11 to 3-13)

- Low wattage metal halide lamps (formerly Halarc®) are now part of the PulseArc® family
- Compact source
- Sparkling white light (3000-4000K) and very good color rendition (70-75 CRI)
- High efficacy – more than 3 times the lumens per watt of incandescent
- Long life – up to 15 times longer than incandescent systems and up to 7 times longer than most PAR and R systems, saving maintenance and labor costs
- Superior optical control
- Uses: Display lighting, downlighting, floodlighting, corridors, lobbies, walkways; retail, office, commercial

GE PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS (/PA MODELS) (pgs 3-11 to 3-13)

- Designed for operation only on approved ballasts with metal halide pulse ignitors
- More light – 400W lamps provide highest initial and highest maintained lumens versus other standard universal or vertical base-up lamp options
- 50% longer life – 400W lamps provide 30,000 hours life when burned on 120 hour on/1 hour off cycle (approximately continuous)
- Faster hot restrike – less than 4 minutes versus 10-15 minutes for typical metal halide lamps

GE MULTI-VAPOR® METAL HALIDE LAMPS (pgs 3-13 to 3-14)

- Sparkling white light (3000-4000K) and very good color rendition (65-75 CRI)
- Warm, rich 3000K color of SP30 blends well with incandescent, halogen and triphosphor fluorescent lamps for interior retail applications
- High efficacy – more efficient than incandescent, mercury and most fluorescent sources
- Long life – 10,000-20,000 hours for most types
- Full line, 150-1000 watts, to meet most application needs
- Uses: Downlighting, floodlighting, corridors, lobbies, walkways; retail, commercial, industrial

GE HIGH OUTPUT MULTI-VAPOR® LAMPS (pgs 3-14)

- More light – optimized for higher light output in horizontal, vertical base-up and base-down burn applications
 - Horizontal burn lamps provide up to 25% more light than standard universal burn equivalents
 - 400W vertical burn lamps provide up to 22% more light than standard universal burn equivalents; the highest lumen lamps available for operation on standard M59 ballasts
- Longer life – horizontal burn lamps last up to 67% longer than universal burn lamp equivalents, significantly reducing replacement lamp and maintenance costs

GE STAYBRIGHT® (/STB) LAMPS (pg 3-14)

- Brighter longer – has 32% higher mean lumens while running on standard metal halide ballasts
- Uses: Any application where fixed-orientation lamps can be used. Gas stations, sports lighting, billboards, retail, office, roadway, parking garages, floodlights, sign lighting.

GE PROTECTED HIGH OUTPUT MULTI-VAPOR® LAMPS (/O) (pgs 3-14 to 3-16)

- Protective quartz jacket surrounds the arc tube
- The/O suffix and/or the “MPR” prefix in the Lamp Description indicates lamps are suitable for open fixture applications

GE CHROMAFIT™ MULTI-VAPOR® LAMPS (/R) (pg 3-16)

- Convert high pressure sodium sockets to crisp white metal halide light (65-70 CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Uses: Area lighting, industrial and “people places”

GE I-LINE MULTI-VAPOR® LAMPS (pgs 3-16)

- Convert mercury sockets to crisp, white metal halide light
- More light, better color, energy cost savings for mercury users
- 40%-100% more light than existing mercury lamps
- Operate on standard CW and CWA mercury ballasts and auxiliary equipment



PRODUCT INFORMATION (CONTINUED)

GE SAF-T-GARD® MULTI-VAPOR LAMPS (MVT) (pg 3-16)

- Special self-extinguishing feature prevents exposure to UV in case outer bulb is punctured or broken; lamp turns off within 15 minutes
- Meets requirements of Federal Standard 21CFR1040.30
- Saf-T-Gard® I-Line lamps convert mercury sockets to crisp, white metal halide light
- Saf-T-Gard® I-Line lamps operate on standard mercury ballasts and auxiliary equipment
- Uses: Industrial, commercial, gymnasiums, sports complexes, especially where open fixtures are used and risk of outer bulb breakage is possible

GE ARCSTREAM® METAL HALIDE LAMPS (pgs 3-16 to 3-17)

- Compact size, white light, excellent color
- Precise optical control delivers a concentrated beam of light right where it's needed
- Variety of color temperatures (3,000K - 6,000K)
- PAR64: ideal for long-range projection and sports lighting applications
- Uses: Ideal for retail and commercial display lighting, floodlighting, accent/highlighting

GE LUCALOX® HIGH PRESSURE SODIUM LAMPS (pgs 3-17 to 3-18)

- Very high efficacy/low operating cost
- Excellent lumen maintenance - over 90% @ 50% of life
- Very long life - 24,000+ hours
- Universal burn - can be operated in any position without affecting performance
- Warm color
- For open or enclosed fixtures
- Uses: Industrial, roadway, security, floodlighting

GE DOUBLE-ENDED LUCALOX® LAMPS (/TD) (pg 3-18)

- Compact tubular design fits compact fixtures for excellent optical control
- High efficacy, lumen maintenance and long life of standard Lucalox® HPS

GE STANDBY LONGLIFE LUCALOX® LAMPS (/SBY) (pg 3-18)

- Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes
- Dual arc tubes provide 40,000 hour rated life
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Industrial, roadway, security, and hard-to-reach sockets

GE ECOLUX® NC "NON-CYCLING" HIGH PRESSURE SODIUM LAMPS (/ECO/NC) (pgs 3-18 to 3-19)

- Low mercury. Passes TCLP, which can lower disposal costs.
- Non-cycling feature makes locating and replacing end-of-life lamps quick and easy
- Lead-free base
- High efficacy/low operating cost

- 6%-11% higher initial lumens than standard HPS in 100W and 400W versions
- Long life - 30,000 hours
- Open or enclosed fixtures
- Uses: Industrial, roadway, security

GE ECOLUX® HIGH PRESSURE SODIUM LAMPS (/ECO) (pg 3-19)

- Lead-free base. Passes TCLP, which can lower disposal costs.

GE DELUXE LUCALOX® HIGH PRESSURE SODIUM LAMPS (pg 3-19)

- High efficacy, lumen maintenance and long life of standard Lucalox® HPS
- High color rendering (65-70CRI), much better than standard HPS
- Blends well with incandescent and standard HPS sources
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Storage rooms, industrial facilities, offices, gymnasiums, malls, parks, building floodlighting

GE E-Z LUX® HIGH PRESSURE SODIUM LAMPS (pg 3-19)

- Direct replacement for mercury lamps on mercury ballasts
- More efficient, 57-114% more lumens and 10-14% fewer watts than mercury lamps they replace
- Uses: General lighting, roadway
- See operating notes for further information

GE SOX LOW PRESSURE SODIUM LAMPS (pg 3-19 to 3-20)

- Highest luminous efficacy for general, not for color-critical lighting
- Monochromatic, yellow color (589nm)

GE MERCURY LAMPS (pgs 3-20)

- Long life and good efficacy
- Phosphor coated Deluxe lamps provide good color rendering(50CRI)
- Uses: Industrial, roadway, landscapes, residential and commercial security, parking lots

GE SAF-T-GARD® MERCURY LAMPS (pg 3-21)

- Special self-extinguishing feature prevents exposure to harmful UV in case outer bulb is punctured or broken; lamp turns off within 15 minutes
- Meets requirements of Federal Standard 21 CFR 1040.30
- See operating notes for further information

GE E-Z MERC® SELF-BALLASTED MERCURY LAMPS (pg 3-21)

- Retrofit incandescent sockets to longer-life mercury lamps without additional mercury ballasts or auxiliary equipment

GE EXPORT BASE LAMPS (pg 3-21 and 3-22)

- Export-only lamps are not sold or intended for use in North America. The lamps are identified by "/27" or "/40" at the end of the lamp description, and comply with electrical characteristics defined by IEC standards.
- Bulb shapes are generally similar to U.S. lamp types. Refer to drawings on pages 3-2 to 3-5.



High Intensity Discharge Lamps

HID BRAND NAME CROSS-REFERENCE

| GE | OSRAM/SYLVANIA | PHILIPS |
|--|---|---|
| Arcstream [®] MQI | BRITE-LINE [™] , HOI [®] | MHN-TD |
| ChromaFit [™] Multi-Vapor [®] | — | — |
| ConstantColor [®] CMH [®] | Powerball MCP | MasterColor [™] CDM |
| Ceramic Metal Halide | | |
| Deluxe Lucalox [®] | — | Ceramalux [™] Comfort |
| E-Z Lux [®] | Unalux [®] | Ceramalux [™] Retrolux |
| E-Z Merc [®] | — | Self Ballasted Mercury |
| Ecolux [®] | Lumalux ECO [®] | Ceramalux Alto [®] |
| Ecolux [®] NC | Lumalux Plus [™] /ECO [®] | Ceramalux Alto [®] Plus |
| High Output Multi-Vapor [®] | Super Metalarc [®] | Metal Halide |
| Horizontal Multi-Vapor [®] | Super Metalarc [®] | — |
| I-Line Multi-Vapor [®] | — | — |
| Lucalox [®] | Lumalux [®] | Ceramalux [™] |
| Multi-Vapor [®] | Metalarc [®] | Metal Halide |
| Protected High Output Multi-Vapor [®] | Metalarc [®] Pro-Tech [™] | — |
| PulseArc [®] | Super Metalarc [®] Pulse Start | Pulse Start |
| Saf-T-Gard [®] Mercury | Mercury Safeline [®] | Safety Lifeguard Mercury |
| Saf-T-Gard [®] Multi-Vapor [®] | Metalarc [®] Safeline [®] | Safety Lifeguard Metal Halide |
| SOX Low Pressure Sodium | SOX Low Pressure Sodium | SOX Low Pressure Sodium |
| Standby Longlife Lucalox [®] | Lumalux [®] Standby | Instant Restrike Ceramalux [™] |
| StayBright [®] | — | — |
| Watt-Miser [®] Multi-Vapor [®] | — | — |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking High Intensity Discharge lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these wattage groups, lamps are listed by bulb shape.

Bulb:

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

LET (Lamp Enclosure Type):
Describes fixture requirements for this lamp (see page 3-22).

LCL:
Distance between the center of the filament and the Light Center Length reference plane, in inches.

CBCP (Center Beam Candlepower):

For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. Used only for ConstantColor[®] CMH[™] Metal Halide Lamps.

Case Qty.:
Number of product units packed in a case.

ANSI Ballast Type:
Ballast type used to operate lamp.

Lumens - Initial:
Initial light output.

Rated Life Hours:
Lamp burning hours to median life expectancy.

Color Temperature Kelvins (K):

A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears.

Color Rendering Index (CRI or Ra):

An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Additional Information:
Typical application and/or other important information.

Base:
The type of base.

OP (Operating Position):
(see page 3-23).

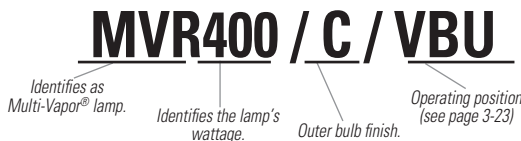
MOL:
Maximum Overall Length in inches.

Order Code:
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Description:
The lamp's identification code.

| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot-notes | Warning |
|------|------|-----|-----|-------|------|-----|------------|--------------|-------------------|-----------|--------------------|----------------|-------------|---------------|-----|------------------------|------------|---------|
| ED37 | Mog | S | VBU | 400 | 11.5 | 7 | 49656 | MVR400/C/VBU | M59 | 6 | 20000 | 41000 | 26500 | 3700 | 70 | Coated | | 121 |

HIGH OUTPUT AND XHO MULTI-VAPOR[®] METAL HALIDE LAMPS 400 WATTS



WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using illustrations on pages 3-2 to 3-5.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 3-5.
4. Find your lamp in the tabular data containing the bulb shape, size and base, which are all listed by wattage.



| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Footnotes | Warning |
|---|---------|-----|----|-------|------|------|------------|-------------------------|-------------------|-----------|-------|--------------------|----------------|----------------|---------------|-----|-----------------------------|-----------|---------|
| CONSTANTCOLOR® CMH® METAL HALIDE LAMPS | | | | | | | | | | | | | | | | | | | |
| CMH® MR16 | | | | | | | | | | | | | | | | | | | |
| MR1620 | GX10T&L | O | U | 20 | 2.28 | | 85101 | CMH20MR16/830/SP | M156 | 9000 | 9000 | 1000 | 1000 | 3000 | 80 | | 12 Spotlight, UV control | 33, 51 | 107 |
| | | | | | | | 85110 | CMH20MR16/830/FL | M156 | 2900 | 9000 | 1000 | 1000 | 3000 | 80 | | 25 Floodlight, UV control | 33, 51 | 107 |
| | | | | | | | 97630 | CMH20MR16/830/WFL | M156 | 1500 | 9000 | 1000 | 1000 | 3000 | 80 | | 40 Wideflood, UV Control | 33, 51 | 107 |
| CMH® PAR | | | | | | | | | | | | | | | | | | | |
| PAR20 | Med | O | U | 20 | 3.5 | | 29485 | CMH20PAR20/SP | M156 | 15 | 13000 | 7500 | 1000 | 3000 | 81 | | 8 Spotlight, UV control | 33, 51 | 107 |
| | | | | | | | 29486 | CMH20PAR20/FL | M156 | 15 | 3750 | 7500 | 1000 | 3000 | 81 | | 25 Floodlight, UV control | 33, 51 | 107 |
| PAR30L | Med | O | U | 20 | 4.75 | | 29487 | CMH20PAR30/SP10 | M156 | 6 | 19800 | 7500 | 1200 | 3000 | 81 | | 10 Spotlight, UV control | 33, 51 | 107 |
| | | | | | | | 29488 | CMH20PAR30/SP15 | M156 | 6 | 14500 | 7500 | 1200 | 3000 | 81 | | 15 Spotlight, UV control | 33, 51 | 107 |
| | | | | | | | 29489 | CMH20PAR30/FL25 | M156 | 6 | 4900 | 7500 | 1200 | 3000 | 81 | | 25 Floodlight, UV control | 33, 51 | 107 |
| PAR20 | Med | O | U | 39 | 3.5 | | 42068 | CMH39/UPAR20/FL25 | M130 | 15 | 7500 | 10000 | 2100 | 3000 | 86 | | 25 Floodlight, UV control | 33,45 | 107 |
| | | | | | | | 42069 | CMH39/UPAR20/SP10 | M130 | 15 | 22000 | 10000 | 2100 | 3000 | 86 | | 10 Spotlight, UV control | 33,45 | 107 |
| PAR30L | Med | O | U | 39 | 4.75 | | 42066 | CMH39/PAR30L/SP15 | M130 | 6 | 29000 | 10000 | 2400 | 3000 | 81 | | 15 Spotlight, UV control | 33,45 | 107 |
| | | | | | | | 42067 | CMH39/PAR30L/FL25 | M130 | 6 | 11000 | 10000 | 2400 | 3000 | 81 | | 25 Floodlight, UV control | 33,45 | 107 |
| | | | | | | | 45066 | CMH39/PAR30L/SP10 | M130 | 6 | 39600 | 10000 | 2400 | 3000 | 81 | | 10 Spotlight, UV control | 33,45 | 107 |
| | | | | 70 | 4.75 | | 22152 | CMH70/PAR30L/830SP | M98 or M139 | 6 | 43000 | 13000 | 4700 | 3000 | 82 | | 15 Spotlight, UV control | 33,45 | 107 |
| | | | | | | | 22159 | CMH70/PAR30L/830FL | M98 or M139 | 6 | 10000 | 13000 | 4700 | 3000 | 82 | | 40 Floodlight, UV control | 33,45 | 107 |
| PAR38 | Med | O | U | 70 | 5.31 | | 45675 | CMH70/PAR38/830SP15/ECO | M98 or M139 | 6 | 40000 | 10000 | 4800 | 3000 | 82 | | 15 Spotlight, UV control | 33 | 108 |
| | | | | | | | 45677 | CMH70/PAR38/830FL25/ECO | M98 or M139 | 6 | 14000 | 10000 | 4800 | 3000 | 82 | | 25 Spotlight, UV control | 33 | 108 |
| | | | | | | | 45679 | CMH70/PAR38/830WF/ECO | M98 or M139 | 6 | 10000 | 10000 | 4800 | 3000 | 82 | | Wide Floodlight, UV control | 33 | 108 |
| | | | | 100 | 5.31 | | 45680 | CMH100/PAR38/830S15/ECO | M90 or M140 | 6 | 45000 | 10000 | 6500 | 3000 | 81 | | 15 Spotlight, UV control | 33 | 108 |
| | | | | | | | 45681 | CMH100/PAR38/830F25/ECO | M90 or M140 | 6 | 15000 | 10000 | 6500 | 3000 | 81 | | 25 Spotlight, UV control | 33 | 108 |
| | | | | | | | 45682 | CMH100/PAR38/830WF/ECO | M90 or M140 | 6 | 10000 | 10000 | 6500 | 3000 | 81 | | Wide Floodlight, UV control | 33 | 108 |
| CMH® ELLIPTICAL | | | | | | | | | | | | | | | | | | | |
| BD17 | Med | E | U | 70 | 5.43 | 3.37 | 22119 | CMH70/U/830/MED | M98 or M139 | 6 | | 15000 | 6300 | 4100 | 3000 | 80 | Clear | 33 | 116 |
| | | | | | | | 22124 | CMH70/C/U/830/MED | M98 or M139 | 6 | | 15000 | 6000 | 4000 | 3000 | 80 | Coated | 33 | 116 |
| | | | | 100 | 5.43 | 3.37 | 22127 | CMH100/U/830/MED | M90 or M140 | 6 | | 10000V 15000H | 6600V 9200H | 9200V 6400H | 3000 | 83 | Clear | 33 | 116 |
| | | | | | | | 22137 | CMH100/C/U830/MED | M90 or M140 | 6 | | 10000V 15000H | 8700V 8700H | 6300V 6300H | 3000 | 83 | Coated | 33 | 116 |
| CMH® ELLIPTICAL OPEN-RATED | | | | | | | | | | | | | | | | | | | |
| ED17 | Med | O | U | 70 | 3.37 | | 31069 | CMH70/U/830/MED/O | M98 or M143 | 6 | | 15000 | 5700 | 4100 | 3000 | 80 | Clear | 33 | 116 |
| | | | | | | | 31070 | CMH70/C/U/830/MED/O | M98 or M143 | 6 | | 15000 | 5700 | 4100 | 3000 | 80 | Coated | 33 | 116 |
| | | | | | | | 31073 | CMH70/U/942/MED/O | M98 or M143 | 6 | | 15000 | 5500 | 4200 | 4000 | 90 | Clear | 33 | 116 |
| | | | | | | | 31074 | CMH70/C/U/942/MED/O | M98 or M143 | 6 | | 15000 | 5200 | 4000 | 4000 | 90 | Coated | 33 | 116 |
| | | | | 150 | 3.37 | | 31065 | CMH150/U/830/MED/O | M102 or M142 | 6 | | 12000 | 12900 | 9500 | 3000 | 80 | Clear | 33 | 116 |



High Intensity Discharge Lamps

| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot- notes | Warning |
|---|--------------|-----|-----|-------|-------|------|------------|-----------------------|--------------------------|-----------|------|--------------------|----------------|-------------|---------------|-----|------------------------|-------------|---------|
| CONSTANTCOLOR® CMH® METAL HALIDE LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | | |
| CMH® ELLIPTICAL OPEN-RATED (CONTINUED) | | | | | | | | | | | | | | | | | | | |
| ED17 | Med | 0 | U | 150 | 3.37 | | 31066 | CMH150/C/U830/MED/O | M102 or 6 M142 | | | 12000 | 11900 | 8800 | 3000 | 80 | Coated | 33 | |
| | | | | | | | 31067 | CMH150/U/942/MED/O | M102 or 6 M142 | | | 15000 | 12000 | 9000 | 4200 | 90 | Clear | 33 | |
| | | | | | | | 31068 | CMH150/C/U/942/MED/O | M102 or 6 M142 | | | 15000 | 11000 | 8300 | 4200 | 90 | Coated | 33 | |
| CMH® SINGLE ENDED G12 | | | | | | | | | | | | | | | | | | | |
| T4.5 | BiPin G12 E | U | 20 | 3.56 | 2.18 | | 29703 | CMH20/T/U/830/G12 | M156 | 12 | | 12000 | 1600 | 1060 | 3000 | 81 | UV Control | 33,39,51 | 104 |
| | | | | | | | 20153 | CMH39/T/U/830/G12 | M130 | 12 | | 10000 | 3400 | 2600 | 3000 | 82 | UV Control | 39,44,45 | 104 |
| | | | | | | | 29696 | CMH39/T/U/942/G12 | M130 | 12 | | 12000 | 3150 | 2700 | 4200 | 88 | UV Control | 39,44,45 | 104 |
| T6 | BiPin G12 E | U | 70 | 3.56 | 2.18 | | 20016 | CMH70/T/U/830/G12 | M85, 12 M98, or M139 | | | 15000 | 6200 | 4700 | 3000 | 83 | UV Control | 39,44,45 | 104 |
| | | | | | | | 20023 | CMH70/T/U/942/G12 | M85, 12 M98, or M139 | | | 15000 | 6000 | 4600 | 4200 | 93 | UV Control | 39,44,45 | 104 |
| | | | 150 | 3.93 | 2.18 | | 20017 | CMH150/T/U/830/G12 | M81, 12 M102, or M142 | | | 12000 | 14000 | 11000 | 3000 | 82 | UV Control | 39,44,45 | 104 |
| | | | | | | | 20018 | CMH150/T/U/942/G12 | M81, 12 M102, or M142 | | | 12000 | 13000 | 11000 | 4200 | 94 | UV Control | 39,44,45 | 104 |
| CMH® DOUBLE-ENDED TD | | | | | | | | | | | | | | | | | | | |
| T6 | Rx7s | E | H45 | 70 | 4.5 | 2.25 | 92587 | CMH70/TD/830/RX7S | M85, 12 M98, or M139 | | | 15000 | 7000 | 5600 | 3000 | 81 | UV Control | 39,44 | 109 |
| | | | | | | | 92588 | CMH70/TD/942/RX7S | M85, 12 M98, or M139 | | | 15000 | 7000 | 5600 | 4200 | 88 | UV Control | 39,44 | 109 |
| T7 | Rx7s | E | H45 | 150 | 5.37 | 2.62 | 92589 | CMH150/TD/830/RX7S | M81, 12 M102, or M142 | | | 15000 | 14000 | 11500 | 3000 | 80 | UV Control | 39,44 | 109 |
| | | | | | | | 92590 | CMH150/TD/942/RX7S | M81, 12 M102, or M142 | | | 15000 | 14000 | 11500 | 4200 | 93 | UV Control | 39,44 | 109 |
| CMH® GU6.5 | | | | | | | | | | | | | | | | | | | |
| T4 | GU6.5 | E | U | 20 | 2.05 | 1.18 | 85086 | CMH20/TC/U/830/G6.5 | M156 | 12 | | 9000 | 1615 | 1100 | 3000 | 80 | UV Control | 33,44,51 | 104 |
| CMH® MINI'S | | | | | | | | | | | | | | | | | | | |
| T4.5 | BiPin G8.5 E | U | 20 | 3.37 | 2 | | 92696 | CMH20/TC/U/830/G8.5 | M156 | 12 | | 12000 | 1600 | 1060 | 3000 | 81 | UV Control | 33,44,51 | 104 |
| | | | | | | | 90352 | CMH39/TC/U/830/G8.5 | M130 | 12 | | 10000 | 3400 | 2600 | 3000 | 82 | UV Control | 39,44,45 | 104 |
| | | | | | | | 29698 | CMH39/TC/U/942/G8.5 | M130 | 12 | | 12000 | 3150 | 2700 | 4200 | 88 | UV Control | 39,44,45 | 104 |
| | | | | | | | 92585 | CMH70/TC/U/830/G8.5 | M98 or 12 M139 | | | 9000 | 6200 | 4700 | 3000 | 83 | UV Control | 39,44,45 | 104 |
| | | | | | | | 29701 | CMH70/TC/U/942/G8.5 | M98 or 12 M139 | | | 15000 | 6000 | 4600 | 4200 | 90 | UV Control | 39,44,45 | 104 |
| HIGH-WATT CMH® SPXX | | | | | | | | | | | | | | | | | | | |
| ED28 | EX39 | 0 | VBU | 250 | 8.31 | 5 | 48429 | CMH250/VBU/PA/O | | 12 | | 20000 | 23000 | 18400 | 4100 | 90 | | 33,45,52 | 106 |
| | | | | | | | 48432 | CMH250/C/VBU/PA/O | | 12 | | 20000 | 22000 | 17600 | 4100 | 90 | | 33,45,52 | 106 |
| ED37 | EX39 | 0 | VBU | 320 | 11.31 | 7 | 17264 | CMH320/PA/O | | 6 | | 20000 | 30000 | 24000 | 3700 | 90 | | 33,45,52 | 106 |
| | | | | | | | 17267 | CMH320/C/PA/O | | 6 | | 20000 | 29000 | 23200 | 3700 | 90 | | 33,45,52 | 106 |
| | | | | 350 | 11.31 | 7 | 11834 | CMH350/VBU/940/PA/O | | 6 | | 20000 | 34000 | 27200 | 3600 | 90 | | 33,45,52 | 106 |
| | | | | | | | 11835 | CMH350/C/VBU/940/PA/O | | 6 | | 20000 | 33000 | 26400 | 3600 | 90 | | 33,45,52 | 106 |
| | | | | 400 | 11.31 | 7 | 49910 | CMH400/VBU/940/PA/O | | 6 | | 20000 | 40000 | 32000 | 3700 | 92 | | 33,45,49,52 | 106 |
| | | | | | | | 49911 | CMH400/C/VBU/940/PA/O | | 6 | | 20000 | 39000 | 31200 | 3700 | 92 | | 33,45,49,52 | 106 |



| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot- notes | Warning | |
|---|------|-----|-----|-------|------|------|------------|---------------------|-------------------|-----------|------|--------------------|----------------|-------------|---------------|-----|------------------------|-------------|---------|--|
| CONSTANTCOLOR® CMH® METAL HALIDE LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | | | |
| CMH® CHROMAFIT™ | | | | | | | | | | | | | | | | | | | | |
| T15 | Mog | E | U | 250 | 9.75 | 5.75 | 93357 | CMH250/U/830/R | S50 | 12 | | 16000 | 25000 | 20000 | 3000 | 85 | | 44,45 | 105 | |
| ED18 | Mog | E | U | 400 | 9.75 | 5.75 | 93295 | CMH400/U/830/R | S51 | 12 | | 20000 | 41000 | 31300 | 3000H | 80> | | 44,45,49 | 105 | |
| | | | | | | | | | | | | | 3600V | | | | | | | |
| PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS | | | | | | | | | | | | | | | | | | | | |
| 32 WATTS | | | | | | | | | | | | | | | | | | | | |
| ED17 | Med | O | VBD | 32 | 5.43 | 3.43 | 12651 | MXR32/C/VBD/O | M100 | 6 | | 10000 | 2400 | 1700 | 3200 | 70 | Coated, protected | 119 | | |
| | | | | | | | 16469 | MXR32/C/VBU/O | M100 | 6 | | 10000 | 2400 | 1700 | 3200 | 70 | Coated, protected | 119 | | |
| 50 WATTS | | | | | | | | | | | | | | | | | | | | |
| ED17 | Med | O | U | 50 | 5.43 | 3.43 | 45670 | MXR50/U/MED/O | M110 | 6 | | 10000 | 3400 | 1700 | 3500 | 70 | Clear, protected | 119 | | |
| | | | | | | | 45671 | MXR50/C/U/MED/O | M110 | 6 | | 10000 | 3200 | 1500 | 3500 | 70 | Coated, protected | 119 | | |
| | | | | | | | 10361 | MXR50/U/MED | M110 | 6 | | 10000 | 3200 | 2100 | 3700 | 60 | Clear | 118 | | |
| | | | | | | | 10364 | MXR50/C/U/MED | M110 | 6 | | 10000 | 3000 | 2000 | 3400 | 65 | Coated | 118 | | |
| 70 WATTS | | | | | | | | | | | | | | | | | | | | |
| ED17 | Med | O | U | 70 | 5.43 | 3.43 | 12377 | MXR70/U/MED/O | M98 | 6 | | 15000 | 5500 | 3500 | 3200 | 70 | Clear, protected | 119 | | |
| | | | | | | | 12577 | MXR70/C/U/MED/O | M98 | 6 | | 15000 | 5300 | 3300 | 3200 | 70 | Coated, protected | 119 | | |
| | | | | | | | 22158 | MXR70/U/MED | M98 | 6 | | 12000 | 5500 | 3500 | 3200 | 70 | Clear | 118 | | |
| | | | | | | | 22162 | MXR70/C/U/MED | M98 | 6 | | 12000 | 5300 | 3300 | 3200 | 70 | Coated | 118 | | |
| | | | | | | | 12590 | MVR70/U/MED | M98 | 6 | | 12000 | 4700 | 3000 | 4000 | 75 | Clear | 118 | | |
| | | | | | | | 12594 | MVR70/C/U/MED | M98 | 6 | | 12000 | 4500 | 2800 | 4000 | 75 | Coated | 118 | | |
| 100 WATTS | | | | | | | | | | | | | | | | | | | | |
| ED17 | Med | O | U | 100 | 5.43 | 3.43 | 12381 | MXR100/U/MED/O | M90 | 6 | | 15000 | 9000 | 6200 | 3200 | 70 | Clear, protected | 119 | | |
| | | | | | | | 12579 | MXR100/C/U/MED/O | M90 | 6 | | 15000 | 8500 | 5900 | 3200 | 70 | Coated, protected | 119 | | |
| | | | | | | | 18680 | MXR100/U/MED | M90 | 6 | | 15000 | 9000 | 6200 | 3200 | 70 | Clear | 118 | | |
| | | | | | | | 18679 | MXR100/C/U/MED | M90 | 6 | | 15000 | 8500 | 5900 | 3200 | 70 | Coated | 118 | | |
| | | | | | | | 12652 | MVR100/U/MED | M90 | 6 | | 15000 | 8100 | 5800 | 4000 | 75 | Clear | 118 | | |
| | | | | | | | 12653 | MVR100/C/U/MED | M90 | 6 | | 15000 | 7600 | 4900 | 4000 | 75 | Coated | 118 | | |
| 150 WATTS | | | | | | | | | | | | | | | | | | | | |
| ED17 | Med | O | U | 150 | 5.43 | 3.43 | 45683 | MXR150/U/MED/O | M102 | 6 | | 15000 | 12500 | 8600 | 3500 | 70 | Clear, protected | 119 | | |
| | | | | | | | 45688 | MXR150/C/U/MED/O | M102 | 6 | | 15000 | 12000 | 8300 | 3500 | 70 | Coated, protected | 119 | | |
| | | | | | | | 22935 | MXR150/U/MED | M102 | 6 | | 15000 | 13300 | 10000 | 3400 | 60 | Clear | 118 | | |
| | | | | | | | 22936 | MXR150/C/U/MED | M102 | 6 | | 15000 | 12600 | 9500 | 3100 | 60 | Coated | 118 | | |
| | | | | | | | 12598 | MVR150/U/MED | M102 | 6 | | 15000 | 14000 | 10500 | 4300 | 65 | Clear | 118 | | |
| | | | | | | | 12604 | MVR150/C/U/MED | M102 | 6 | | 15000 | 13300 | 10000 | 3900 | 70 | Coated | 118 | | |
| 175 WATTS | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | Mog | E | VBU | 175 | 7.5 | 5 | 22342 | MXR175/VBU/PA | M137 or 6 M152 | | | 15000 | 17000 | 12500 | 3200 | 65 | Clear | 43 | 117 | |
| | | | | | | | 11185 | MXR175/C/VBU/PA | M137 or 6 M152 | | | 15000 | 16000 | 12000 | 3200 | 65 | Coated | 43 | 117 | |
| | | | | | | | 12622 | MVR175/VBU/PA | M137 or 6 M152 | | | 15000 | 17500 | 13000 | 4000 | 75 | Clear | 43 | 117 | |
| | | | | | | | 12633 | MVR175/C/VBU/PA | M137 or 6 M152 | | | 15000 | 16500 | 12500 | 4000 | 75 | Coated | 43 | 117 | |
| BD17 | Med | E | VBU | 175 | 5.75 | 3.43 | 12636 | MVR175/VBU/MED/PA | M137 or 6 M152 | | | 15000 | 17500 | 13000 | 4000 | 75 | Clear | 43 | 117 | |
| | | | | | | | 12637 | MVR175/C/VBU/MED/PA | M137 or 6 M152 | | | 15000 | 16500 | 12500 | 4000 | 75 | Coated | 43 | 117 | |



High Intensity Discharge Lamps

| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot-notes | Warning |
|--|------|-----|-----|-------|------|-----|------------|---------------------|--------------------|-----------|------|--------------------|----------------|-------------|---------------|-----|------------------------|------------|---------|
| PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | | |
| 250 WATTS | | | | | | | | | | | | | | | | | | | |
| ED28 | Mog | E | VBU | 250 | 8.25 | 5 | 26317 | MVR250/VBU/PA | M138 or 12 M153 | | | 15000 | 23000 | 17000 | 4200 | 65 | Clear | 43 | 117 |
| | | | | | | | 26319 | MVR250/C/VBU/PA | M138 or 12 M153 | | | 15000 | 21500 | 15500 | 3900 | 65 | Coated | 43 | 117 |
| 320 WATTS | | | | | | | | | | | | | | | | | | | |
| ED28 | Mog | E | VBU | 320 | 8.25 | 5 | 27501 | MVR320/VBU/HO/PA | M132 or 12 M154 | | | 20000 | 31000 | 18000 | 4000 | 65 | Clear | 43 | 117 |
| | | | | | | | 27502 | MVR320/C/VBU/HO/PA | M132 or 12 M154 | | | 20000 | 30000 | 16500 | 3700 | 70 | Coated | 43 | 117 |
| | | | | | | | 45666 | MVR320/VBU/XHO/PA | M132 or 12 M154 | | | 20000 | 34000 | 25000 | 4000 | 65 | Clear | 43 | 116 |
| | | | | | | | 45669 | MVR320/C/VBU/XHO/PA | M132 or 12 M154 | | | 20000 | 33000 | 23000 | 3700 | 70 | Coated | 43 | 116 |
| ED37 | EX39 | O | VBU | 320 | 11.5 | 7 | 46275 | MPR320/VBU/XHO/PA | M132 or 6 M154 | | | 20000 | 32000 | 22500 | 4000 | 65 | Clear, protected | 43 | 120 |
| | | | | | | | 46276 | MPR320/C/VBU/XHO/PA | M132 or 6 M154 | | | 20000 | 30500 | 21500 | 3700 | 70 | Coated, protected | 43 | 120 |
| ED 28 | EX39 | O | VBU | 320 | 8.25 | 5 | 19609 | MPR320/C/PA/ED28 | M132 or 12 M154 | | | 20000 | 30600 | 24500 | 3700 | 70 | Coated, protected | 43 | 120 |
| 350 WATTS | | | | | | | | | | | | | | | | | | | |
| ED37 | Mog | S | V | 350 | 11.5 | 7 | 40376 | MVR350/VBUXHO/PA | M131 | 6 | | 20000 | 36500 | 27000 | 4000 | 62 | Clear | 43 | 117 |
| | | | | | | | 40377 | MVR350/CVBUXHOPA | M131 | 6 | | 20000 | 34500 | 25000 | 3700 | 65 | Coated | 43 | 117 |
| | | | | | | | 10202 | MPR350/VBU/PA | M131 | 6 | | 20000 | 35200 | 24600 | 4000 | 65 | Clear, protected | 43 | 120 |
| | | | | | | | 48824 | MPR350/C/VBU/PA | M131 | 6 | | 20000 | 33400 | 23500 | 4000 | 70 | Coated, protected | 43 | 120 |
| | | | | | | | 48825 | MPR350/C/VBU/3K/PA | M131 | 6 | | 20000 | 33400 | 23500 | 3400 | 70 | Coated, protected | 43 | 120 |
| 400 WATTS | | | | | | | | | | | | | | | | | | | |
| ED37 | Mog | S | VBU | 400 | 11.5 | 7 | 45664 | MVR400/VBU/HO/PA | M135 or 6 M155 | | | 20000 | 41000 | 31000 | 4000 | 65 | Clear | 43, 49 | 121 |
| | | | | | | | 45665 | MVR400C/VBU/HO/PA | M135 or 6 M155 | | | 20000 | 40000 | 30000 | 3700 | 70 | Coated | 43, 49 | 121 |
| | | | | | | | 12642 | MVR400/VBU/XHO/PA | M135 or 6 M155 | | | 20000 | 44000 | 33000 | 4000 | 65 | Clear | 43, 49 | 121 |
| | | | | | | | 12644 | MVR400C/VBU/XHO/PA | M135 or 6 M155 | | | 20000 | 42000 | 31500 | 3700 | 70 | Coated | 43, 49 | 121 |
| ED37 | EX39 | O | VBU | 400 | 11.5 | 7 | 46273 | MPR400/VBU/XHO/PA | M135 or 6 M155 | | | 20000 | 42000 | 29500 | 4000 | 65 | Clear, protected | 43, 49 | 120 |
| | | | | | | | 46274 | MPR400/C/VBUXHO/PA | M135 or 6 M155 | | | 20000 | 40000 | 28000 | 3700 | 70 | Coated, protected | 43, 49 | 120 |
| ED28 | Mog | E | VBU | 400 | 8.25 | 5 | 46271 | MVR400/VBU/ED28/PA | M135 or 12 M155 | | | 20000 | 44000 | 28500 | 4000 | 65 | Clear | 43, 49 | 120 |
| | | | | | | | 46272 | MVR400C/VBU/ED28/PA | M135 or 12 M155 | | | 20000 | 42000 | 27500 | 3700 | 70 | Coated | 43, 49 | 116 |
| ED37 | Mog | E | V | 400 | 11.5 | 7 | 46632 | MVR400VBD/XHO/PA | M135 or 6 M155 | | | 20000 | 44000 | 35200 | 4000 | 65 | | 43, 49 | 116 |



| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | BCBP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot- notes | Warning |
|--|------|-----|-----|-------|------|------|------------|--------------------|-------------------|-----------|------|--------------------|--------------------|------------------|---------------|-----|-------------------------------|-------------|---------|
| PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | | |
| 750 WATTS | | | | | | | | | | | | | | | | | | | |
| BT37 | Mog | S | VBU | 750 | 11.5 | 7 | 27219 | MVR750/VBU/PA | M149 | 6 | | 16000 | 82000 | 60000 | 4000 | 65 | Clear | 43, 49 | 121 |
| | | | | | | | 45560 | MVR750/C/VBU/PA | M149 | 6 | | 16000 | 72000 | 54000 | 3700 | 70 | Coated | 43, 49 | 121 |
| 1000 WATTS | | | | | | | | | | | | | | | | | | | |
| BT37 | Mog | E | U | 1000 | 11.3 | 7 | 10389 | MVR1000/U/BT37/PA | M141 | 6 | | 12000V 9000H | 115000V 105000H | 90000V 82000H | 3900 | 65 | Clear | 43, 49 | 116 |
| MULTI-VAPOR® METAL HALIDE LAMPS | | | | | | | | | | | | | | | | | | | |
| 150 WATTS | | | | | | | | | | | | | | | | | | | |
| ED28 | Mog | E | U | 150 | 8.25 | 5 | 13481 | MVR150/U/WM | M57 | 12 | | 7500H 10000V | 13500V 11500H | 8500V 7200H | 4000 | 65 | ↘ Clear, Watt-Miser® & #174; | 117 | |
| | | | | | | | 13490 | MVR150/C/U/WM | M57 | 12 | | 7500H 10000V | 12800V 10900H | 8000V 6900H | 3700 | 70 | ↘ Coated, Watt-Miser® & #174; | 117 | |
| 175 WATTS | | | | | | | | | | | | | | | | | | | |
| BD17 | Med | E | U | 175 | 5.75 | 3.43 | 18902 | MVR175/U/MED | M57 | 6 | | 6000H 10000V | 13600V 11700H | 8800V 7400H | 4000 | 65 | Clear | | 117 |
| | | | | | | | 26432 | MVR175/U/MED/CP | M57 | 4 | | 6000H 10000V | 13600V 11700H | 8800V 7400H | 4000 | 65 | Clear, Consumer Pack | | 117 |
| | | | | | | | 19976 | MVR175/C/U/MED | M57 | 6 | | 6000H 10000V | 12900V 11900H | 8400V 7900H | 3900 | 65 | Coated | | 117 |
| ED28 | Mog | E | U | 175 | 8.25 | 5 | 47760 | MVR175/U | M57 | 12 | | 6000H 10000V | 13600V 11700H | 8800V 7400H | 4000 | 65 | Clear | | 117 |
| | | | | | | | 26433 | MVR175/U/CP | M57 | 4 | | 6000H 10000V | 13600V 11700H | 8800V 7400H | 4000 | 65 | Clear, Consumer Pack | | 117 |
| | | | | | | | 47761 | MVR175/C/U | M57 | 12 | | 6000H 10000V | 12900V 11900H | 8400V 7900H | 3900 | 70 | Coated | | 117 |
| | | | | | | | 17634 | MVR175/SP30/U | M57 | 12 | | 6000H 10000V | 12000V 10300H | 7600V 6500H | 3000 | 70 | RE730 Phosphor Coating | | 117 |
| PAR38 | Med | E | | 175 | 5.62 | | 25218 | MVR175/PAR38/FL/1 | M57 | 6 | 6500 | 7500V | 12000V | 7600V | 3800 | 65 | Clear, One-piece PAR | | 117 |
| 250 WATTS | | | | | | | | | | | | | | | | | | | |
| ED28 | Mog | E | U | 250 | 8.25 | 5 | 42729 | MVR250/U | M58 | 12 | | 6000H 10000V | 20800V 19100H | 13500V 12400H | 4200 | 65 | Clear | | 117 |
| | | | | 175 | 8.25 | 5 | 26434 | MVR250/U/CP | M58 | 4 | | 6000H 10000V | 20800V 19100H | 13500V 12400H | 4200 | 65 | Clear, Consumer Pack | | 117 |
| | | | | 250 | 8.25 | 5 | 42731 | MVR250/C/U | M58 | 12 | | 6000H 10000V | 19800V 18200H | 13000V 11600H | 3900 | 70 | Coated | | 117 |
| | | | | | | | 17633 | MVR250/SP30/U | M58 | 12 | | 6000H 10000V | 18000V 16600H | 11500V 10600H | 3000 | 70 | RE730 Phosphor Coating | | 117 |
| 360 WATTS | | | | | | | | | | | | | | | | | | | |
| ED37 | Mog | S | VBU | 360 | 11.5 | 7 | 13495 | MVR360/VBU/WM/HO | M59 | 6 | | 20000 | 36000 | 23500 | 4300 | 65 | ↘ Clear, Watt-Miser® & #174; | 32, 49 | 121 |
| | | | | | | | 13496 | MVR360/C/VBU/WM/HO | M59 | 6 | | 20000 | 35000 | 23000 | 4000 | 70 | ↘ Coated, Watt-Miser® & #174; | 32, 49 | 121 |
| 400 WATTS | | | | | | | | | | | | | | | | | | | |
| ED37 | Mog | S | U | 400 | 11.5 | 7 | 43828 | MVR400/U | M59 | 6 | | 15000H 20000V | 36000V 33100H | 23500V 22100H | 4000 | 65 | Clear | 49 | 121 |
| | | | | | | | 26435 | MVR400/U/CP | M59 | 4 | | 15000H 20000V | 36000V 33100H | 23500V 22100H | 4000 | 65 | Clear, Consumer Pack | 49 | 121 |
| | | | | | | | 43829 | MVR400/C/U | M59 | 6 | | 15000H 20000V | 35000V 32200H | 23000V 19300H | 3700 | 70 | Coated | 49 | 121 |
| | | | | | | | 17632 | MVR400/SP30/U | M59 | 6 | | 15000H 20000V | 31000V 28500H | 18600V 17100H | 3000 | 70 | RE730 Phosphor Coating | 49 | 121 |
| ED28 | Mog | E | U | 400 | 8.25 | 5 | 18904 | MVR400/U/ED28 | M59 | 12 | | 15000H 20000V | 36000V 33100H | 23500V 22100H | 4000 | 65 | Clear, Compact Bulb | 49 | 117 |
| | | | | | | | 19979 | MVR400/C/U/ED28 | M59 | 12 | | 15000H 20000V | 35000V 32200H | 23000V 19300H | 4000 | 65 | Coated, Compact Bulb | 49 | 117 |



High Intensity Discharge Lamps

| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot-notes | Warning |
|--|--------|-----|-----|-------|-------|-----|------------|---------------------|-------------------|-----------|----------|-------------------------------|----------------|-------------|---------------|--------|---|------------|---------|
| MULTI-VAPOR® METAL HALIDE LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | | |
| 1000 WATTS | | | | | | | | | | | | | | | | | | | |
| BT56 | Mog | S | U | 1000 | 15.37 | 9.5 | 41826 | MVR1000/U | M47 | 6 | | 11000H 108000V 15000V 100280H | 86000V 79000H | 4000 | 65 | | Clear | 49 | 121 |
| | | | | | | | 41827 | MVR1000/C/U | M47 | 6 | | 11000H 105000V 15000V 96600H | 80000V 73000H | 3700 | 65 | | Coated | 49 | 121 |
| BT37 | Mog | E | U | 1000 | 11.5 | 7 | 18205 | MVR1000/U/BT37 | M47 | 6 | | 9000H 115000V 12000V 105000H | 90000V 82000H | 3700 | 65 | | Clear, Compact Bulb | 49 | 121 |
| HIGH OUTPUT AND XHO MULTI-VAPOR® METAL HALIDE LAMPS | | | | | | | | | | | | | | | | | | | |
| 175 WATTS | | | | | | | | | | | | | | | | | | | |
| ED28 | PosMog | E | HOR | 175 | 8.25 | 5 | 18104 | MVR175/HOR | M57 | 12 | | 10000 | 15000 | 7700 | 4000 | 65 | Clear, Position Oriented Socket Required | | 117 |
| | | | | | | | 18105 | MVR175/C/HOR | M57 | 12 | | 10000 | 14100 | 7500 | 3500 | 70 | Coated, Position Oriented Socket Required | | 117 |
| 250 WATTS | | | | | | | | | | | | | | | | | | | |
| ED28 | PosMog | E | HOR | 250 | 8.25 | 5 | 18101 | MVR250/HOR | M58 | 12 | | 15000 | 21000 | 10000 | 4200 | 65 | Clear, Position Oriented Socket Required | | 117 |
| | | | | | | | 18103 | MVR250/C/HOR | M58 | 12 | | 15000 | 19700 | 9400 | 3600 | 70 | Coated, Position Oriented Socket Required | | 117 |
| 360 WATTS - WATT-MISER® ENERGY-SAVING REPLACEMENT FOR 400W METAL HALIDE | | | | | | | | | | | | | | | | | | | |
| ED37 | Mog | S | VBU | 360 | 11.5 | 7 | 40053 | MVR360/VBU/WM/XHO | M59 | 6 | | 20000 | 37000 | 24000 | 4200 | 65 | ➤ Clear, Watt-Miser®® 32,49 | | 121 |
| | | | | | | | 40055 | MVR360/C/VBU/WM/XHO | M59 | 6 | | 20000 | 35000 | 23000 | 4000 | 70 | ➤ Coated, Watt-Miser®® 32,49 | | 121 |
| | | | | | | | 47685 | MVR360/VBU/STB/WM | M59 | 6 | | 20000 | 36000 | 27000 | 4300 | 65 | ➤ Clear, Watt-Miser®® 32,49 StayBright®® | | 121 |
| | | | | | | | 47686 | MVR360/C/VBU/STB/WM | M59 | 6 | | 20000 | 35000 | 26000 | 4000 | 70 | ➤ Coated, Watt-Miser®® 32,49 StayBright®® | | 121 |
| 400 WATTS | | | | | | | | | | | | | | | | | | | |
| ED37 | Mog | S | VBU | 400 | 11.5 | 7 | 26865 | MVR400/VBU/STB/HO | M59 | 6 | | 20000 | 41000 | 31000 | 4000 | 65 | Clear, StayBright®® 49 | | 121 |
| | | | | | | | 26866 | MVR400/CVBU/STB/HO | M59 | 6 | | 20000 | 41000 | 29500 | 3700 | 70 | Coated, StayBright®® 49 | | 121 |
| | | | | | | | 49657 | MVR400/VBU/HO | M59 | 6 | | 20000 | 41000 | 26500 | 4000 | 65 | Clear | 49 | 121 |
| | | | | | | | 49656 | MVR400/C/VBU/HO | M59 | 6 | | 20000 | 41000 | 26500 | 3700 | 70 | Coated | 49 | 121 |
| | | | | | | | 49655 | MVR400/VBD | M59 | 6 | | 20000 | 41000 | 26500 | 4000 | 65 | Clear | 49 | 121 |
| | | | | | | | 20931 | MVR400/SP30/VBU/HO | M59 | 6 | | 20000 | 34000 | 20400 | 3200 | 70 | RE730 Phosphor Coating, Vertical Base Up ±15& | 49 | 121 |
| | | | | | | | 13923 | MVR400/VBU/XHO | M59 | 6 | | 20000 | 43000 | 28000 | 4000 | 65 | Clear | 49 | 121 |
| | | | | | | | 13924 | MVR400/C/VBU/XHO | M59 | 6 | | 20000 | 42000 | 27000 | 3700 | 70 | Coated | 49 | 121 |
| ED28 | Mog | E | VBU | 400 | 8.31 | 7 | 40335 | MVR400/VBU/ED28/HO | M59 | 12 | | 20000 | 41000 | 26500 | 4000 | 65 | Clear, Compact Bulb | 49 | 121 |
| BT28 | Mog | E | HOR | 400 | 8.25 | 5 | 40201 | MVR400/HOR/BT28 | M59 | 12 | | 20000 | 37000 | 22000 | 4200 | 65 | Clear, Compact Bulb | 49 | 117 |
| BT37 | Mog | E | HOR | 400 | 11.5 | 7 | 26218 | MVR400/HOR/MOG | M59 | 6 | | 20000 | 38000 | 22500 | 4200 | 65 | Clear | 49 | 117 |
| | | | | | | | 26219 | MVR400/C/HOR/MOG | M59 | 6 | | 20000 | 36800 | 22000 | 3900 | 70 | Coated | 49 | 117 |
| 1000 WATTS | | | | | | | | | | | | | | | | | | | |
| BT56 | EX39 | O | VBU | 1000 | 15.37 | 9.5 | 41433 | MPR1000/VBU/O | M47 | 6 | | 12000 | 107000 | 85500 | 3500 | 65 | Clear, Protected | 49 | 119 |
| | Mog | S | VBU | 1000 | 15.37 | 9.5 | 44835 | MVR1000/VBU/HO | M47 | 6 | | 15000V 111000V | 87000V | 3800 | 65 | Clear | 49 | 121 | |
| | | | | | | | 13137 | MVR1000/C/VBU/HO | M47 | 6 | | 15000V 107000V | 81500V | 3700 | 70 | Coated | 49 | 121 | |
| SPORTSLIGHTING | | | | | | | | | | | | | | | | | | | |
| 1000 WATTS | | | | | | | | | | | | | | | | | | | |
| PAR64 | G38 | E | U | 1000 | 6.87 | | 29333 | SPL1000/PAR64840 | - | | 11350000 | 3500 | 63000 | 53000 | 4000 | 80 | Clear, Narrow Spot, 6° 38 Beam, 1,350,000 CBCP | 38 | 124 |
| | | | | | | | 29336 | SPL1000/PAR64/HR | - | | 11350000 | 3500 | 63000 | 53000 | 4000 | 80 | Clear, Narrow Spot, 6° 38 Beam, 1,350,000 CBCP | 38 | 124 |



| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot-notes | Warning |
|--|----------|-----|-----|-------|-------|------|------------|---------------------|--------------------|-----------|------|--------------------|----------------|-------------|---------------|-----|--|------------|---------|
| SPORTSLIGHTING (CONTINUED) | | | | | | | | | | | | | | | | | | | |
| 1500 WATTS | | | | | | | | | | | | | | | | | | | |
| T7 | Rx7s | E | HOR | 1500 | 10.12 | 5 | 16920 | SPL1500/H/652 | — | 1 | | 6000 | 120000 | 90000 | 5200 | 80 | Frosted | 38 | 125 |
| BT56 | Mog | E | U | 1500 | 15.37 | 9.5 | 47326 | MVR1500/U/SPORTS | M48 | 6 | | 3000H | 170000V | 153000V | 4000 | 65 | Clear | 17,42,49 | 117 |
| | | | | | | | 37405 | MVR1500/HBU | M48 | 6 | | 3000H | 165000V | 140000V | 3900 | 65 | Clear | 16,17,49 | 117 |
| | | | | | | | | | | | | 3000V | 155000H | 130000H | | | | | |
| 1650 WATTS | | | | | | | | | | | | | | | | | | | |
| BT56 | PosMog | E | HOR | 1650 | 15.37 | 9.5 | 25532 | MVR1650/HOR | M112 | 6 | | 3000 | 177000 | 145000 | 3200 | 65 | Clear, Position Oriented Socket Required | 17,49 | 117 |
| 2000 WATTS | | | | | | | | | | | | | | | | | | | |
| T9 | #10Spade | E | HOR | 2000 | 10 | 4.3 | 12275 | MQI2000/T9/40 | M134 | 10 | | 3000 | 200000 | 170000 | 4000 | 65 | Clear | | 125 |
| PROTECTED MULTI-VAPOR® METAL HALIDE LAMPS | | | | | | | | | | | | | | | | | | | |
| 32 WATTS | | | | | | | | | | | | | | | | | | | |
| ED17 | Med | 0 | VBD | 32 | 5.43 | 3.43 | 12651 | MXR32/C/VBD/O | M100 | 6 | | 10000 | 2400 | 1700 | 3200 | 70 | Coated, protected | | 119 |
| | | | | | | | 16469 | MXR32/C/VBU/O | M100 | 6 | | 10000 | 2400 | 1700 | 3200 | 70 | Coated, protected | | 119 |
| 50 WATTS | | | | | | | | | | | | | | | | | | | |
| ED17 | Med | 0 | U | 50 | 5.43 | 3.43 | 45670 | MXR50/U/MED/O | M110 | 6 | | 10000 | 3400 | 1700 | 3500 | 70 | Clear, protected | | 119 |
| | | | | | | | 45671 | MXR50/C/U/MED/O | M110 | 6 | | 10000 | 3200 | 1500 | 3500 | 70 | Coated, protected | | 119 |
| 70 WATTS | | | | | | | | | | | | | | | | | | | |
| ED17 | Med | 0 | U | 70 | 5.43 | 3.43 | 12377 | MXR70/U/MED/O | M98 | 6 | | 12000 | 5500 | 3500 | 3200 | 70 | Clear, protected | | 119 |
| | | | | | | | 12577 | MXR70/C/U/MED/O | M98 | 6 | | 12000 | 5300 | 3300 | 3200 | 70 | Coated, protected | | 119 |
| 100 WATTS | | | | | | | | | | | | | | | | | | | |
| ED17 | Med | 0 | U | 100 | 5.43 | 3.43 | 12381 | MXR100/U/MED/O | M90 | 6 | | 15000 | 9000 | 6200 | 3200 | 70 | Clear, protected | | 119 |
| | | | | | | | 12579 | MXR100/C/U/MED/O | M90 | 6 | | 15000 | 8500 | 5900 | 3200 | 70 | Coated, protected | | 119 |
| 150 WATTS | | | | | | | | | | | | | | | | | | | |
| ED17 | Med | 0 | U | 150 | 5.43 | 3.43 | 45683 | MXR150/U/MED/O | M102 | 6 | | 15000 | 12500 | 8600 | 3500 | 70 | Clear, protected | | 119 |
| | | | | | | | 45688 | MXR150/C/U/MED/O | M102 | 6 | | 15000 | 12000 | 8300 | 3500 | 70 | Coated, protected | | 119 |
| 175 WATTS | | | | | | | | | | | | | | | | | | | |
| BT28 | EX39 | 0 | VBU | 175 | 8.25 | 5 | 49470 | MPR175/VBU/O | M57 | 6 | | 10000 | 14400 | 10200 | 4000 | 65 | Clear, protected | | 119 |
| | | | | | | | 11649 | MPR175/C/VBU/O | M57 | 6 | | 10000 | 12800 | 7800 | 3800 | 70 | Coated, protected | | 119 |
| 250 WATTS | | | | | | | | | | | | | | | | | | | |
| BT28 | EX39 | 0 | VBU | 250 | 8.25 | 5 | 49471 | MPR250/VBU/O | M58 | 6 | | 10000 | 23000 | 17000 | 4000 | 65 | Clear, protected | | 119 |
| | | | | | | | 11650 | MPR250/C/VBU/O | M58 | 6 | | 10000 | 20500 | 14700 | 3800 | 70 | Coated, protected | | 119 |
| 320 WATTS | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | 0 | VBU | 320 | 11.5 | 7 | 46275 | MPR320/VBU/XHO/PA | M132 or 6 M154 | | | 20000 | 32000 | 22500 | 4000 | 65 | Clear, protected | | 120 |
| | | | | | | | 46276 | MPR320/C/VBU/XHO/PA | M132 or 6 M154 | | | 20000 | 30500 | 21500 | 3700 | 70 | Coated, protected | | 120 |
| ED 28 | EX39 | 0 | VBU | 320 | 8.25 | 5 | 19609 | MPR320/C/PA/ED28 | M132 or 12 M154 | | | 20000 | 30600 | 24500 | 3700 | 70 | Coated, protected | 43 | 120 |
| 350 WATTS | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | 0 | VBU | 350 | 11.5 | 7 | 10202 | MPR350/VBU/PA | M131 | 6 | | 20000 | 35200 | 28200 | 4000 | 65 | Clear, protected | 43 | 120 |
| | | | | | | | 48824 | MPR350/C/VBU/PA | M131 | 6 | | 20000 | 33400 | 26700 | 3700 | 70 | Coated, protected | 43 | 120 |
| | | | | | | | 48825 | MPR350/C/VBU/3K/PA | M131 | 6 | | 20000 | 33400 | 26700 | 3200 | 70 | Coated, protected | 43 | 120 |
| 360 WATTS - WATT-MISER® ENERGY-SAVING REPLACEMENT FOR 400W METAL HALIDE | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | 0 | VBU | 360 | 11.5 | 7 | 40056 | MPR360/VBU/WM/HO/O | M59 | 6 | | 20000 | 36000 | 23500 | 4000 | 65 | Clear, protected | 32,49 | 119 |
| | | | | | | | 11685 | MPR360CVBUWMHO/O | M59 | 6 | | 20000 | 35000 | 22500 | 3700 | 70 | Coated, protected | 32,49 | 119 |



High Intensity Discharge Lamps

| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot-notes | Warning |
|--|------------|-----|-----|-------|-------|------|------------|--------------------|-------------------|-----------|------|--------------------|------------------|------------------|---------------|-----|---|------------|---------|
| PROTECTED MULTI-VAPOR® METAL HALIDE LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | | |
| 400 WATTS | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | 0 | VBU | 400 | 11.5 | 7 | 18708 | MPR400/VBU/HO/O | M59 | 6 | | 20000 | 40000 | 26000 | 3800 | 65 | Clear, protected | 49 | 119 |
| | | | | | | | 13582 | MPR400/C/VBU/HO/O | M59 | 6 | | 20000 | 38000 | 25000 | 3600 | 70 | Coated, protected | 49 | 119 |
| | | | | | | | 46273 | MPR400/VBU/XHO/PA | M135 or 6 | 6 | | 20000 | 42000 | 29500 | 4000 | 65 | Clear, protected | 43,49 | 120 |
| | | | | | | | | | M155 | | | | | | | | | | |
| | | | | | | | 46274 | MPR400/C/VBUXHO/PA | M135 or 6 | 6 | | 20000 | 40000 | 28000 | 3700 | 70 | Coated, protected | 43,49 | 120 |
| | | | | | | | | | M155 | | | | | | | | | | |
| 1000 WATTS | | | | | | | | | | | | | | | | | | | |
| BT56 | EX39 | 0 | VBU | 1000 | 15.37 | 9.5 | 41433 | MPR1000/VBU/O | M47 | 6 | | 12000 | 107000 | 85500 | 3500 | 65 | Clear, Protected | 49 | 119 |
| CHROMAFIT™ MULTI-VAPOR® METAL HALIDE LAMPS (HPS RETROFIT LAMPS) | | | | | | | | | | | | | | | | | | | |
| 250 WATTS | | | | | | | | | | | | | | | | | | | |
| ED28 | Mog | E | VBU | 250 | 8.25 | 5.75 | 12762 | MVR250/VBU/R | S50 | 12 | | 10000 | 18500 | 13900 | 4500 | 65 | Clear, HPS Retrofit | 50 | 116 |
| | | | | | | | 12769 | MVR250/C/VBU/R | S50 | 12 | | 10000 | 18000 | 13000 | 4000 | 70 | Coated, HPS Retrofit | 50 | 116 |
| 400 WATTS | | | | | | | | | | | | | | | | | | | |
| ED28 | Mog | E | U | 400 | 8.31 | 5 | 26851 | MVR400/U/ED28/R | S51 | 12 | | 15000H 20000V | 36000V 33100H | 22000V 20200H | 4000 | 65 | Clear, HPS Retrofit, Compact Bulb | 49,50 | 116 |
| ED37 | Mog | S | VBU | 400 | 11.5 | 5.75 | 12770 | MVR400/VBU/R | S51 | 6 | | 20000 | 37600 | 22600 | 4500 | 65 | Clear, HPS Retrofit | 49,50 | 122 |
| | | | | | | | 12772 | MVR400/C/VBU/R | S51 | 6 | | 20000 | 35700 | 21400 | 4000 | 70 | Coated, HPS Retrofit | 49,50 | 122 |
| I-LINE MULTI-VAPOR® METAL HALIDE LAMPS (MERCURY RETROFIT LAMPS) | | | | | | | | | | | | | | | | | | | |
| 325 WATTS | | | | | | | | | | | | | | | | | | | |
| ED37 | Mog | S | U | 325 | 11.5 | 7 | 10687 | MVR325/I/U/WM | H33 | 6 | | 10000H 20000V | 28000V 25800H | 13300V 12200H | 4000 | 65 | ➔ Clear, Retrofit for 400W Mercury, Watt-Miser®® | | 121 |
| | | | | | | | 10688 | MVR325/C/I/U/WM | H33 | 6 | | 10000H 20000V | 26300V 24200H | 12900V 11800H | 3700 | 70 | ☞ Coated, Retrofit for 400W Mercury, Watt-Miser®® | | 121 |
| 400 WATTS | | | | | | | | | | | | | | | | | | | |
| ED37 | Mog | S | U | 400 | 11.5 | 7 | 43817 | MVR400/I/U | H33 or 6 | 6 | | 10000H 15000V | 36000V 33100H | 24000V 22100H | 4000 | 65 | Clear, Retrofit for 400W Mercury | 49 | 121 |
| | | | | | | | 43818 | MVR400/C/I/U | H33 or 6 | 6 | | 10000H 15000V | 35000V 32200H | 21000V 19300H | 3700 | 70 | Coated, Retrofit for 400W Mercury | 49 | 121 |
| | | | | | | | | | M59 | | | | | | | | | | |
| 950 WATTS ENERGY-SAVING REPLACEMENT FOR 1000W MERCURY | | | | | | | | | | | | | | | | | | | |
| BT56 | Mog | S | VBU | 950 | 15.06 | 9.5 | 39097 | MVR950/I/VBU | H36 or 6 | 6 | | 12000 | 100000 | 62900 | 3800 | 65 | ➔ Coated, Retrofit for 1000W Mercury, Watt-Miser®® | 49 | 121 |
| | | | | | | | | | M47 | | | | | | | | | | |
| SAF-T-GARD® SELF-EXTINGUISHING MULTI-VAPOR® LAMPS | | | | | | | | | | | | | | | | | | | |
| 400 WATTS | | | | | | | | | | | | | | | | | | | |
| ED37 | Mog | S | U | 400 | 11.5 | 7 | 11146 | MVT400/I/U | H33 or 6 | 6 | | 61000H 15000V | 36000V 33100H | 23500V 22100H | 4000 | 65 | Clear, Retrofit for 400W Mercury | 49 | 123 |
| | | | | | | | 11119 | MVT400/C/I/U | H33 or 6 | 6 | | 10000H 15000V | 35000V 32200H | 23000V 19300H | 3700 | 70 | Coated, Retrofit for 49 400W Mercury | | 123 |
| | | | | | | | 11144 | MVT400/VBU | M59 | 6 | | 20000 | 41000 | 26500 | 4000 | 65 | Clear | 49 | 123 |
| | | | | | | | 11145 | MVT400/C/VBU | M59 | 6 | | 20000 | 41000 | 26500 | 3700 | 70 | Coated | 49 | 123 |
| ARCSTREAM® METAL HALIDE LAMPS | | | | | | | | | | | | | | | | | | | |
| 70 WATTS | | | | | | | | | | | | | | | | | | | |
| T6 | R7s | E | HOR | 70 | 4.68 | | 34530 | ARC70/TD/UVC/730 | M85 | 12 | | 6000 | 6000 | 4800 | 3000 | 75 | Clear | | 103 |
| | | | | | | | 34536 | ARC70/TD/UVC/743 | M85 | 12 | | 6000 | 6000 | 4800 | 4300 | 75 | Clear | | 103 |
| 150 WATTS | | | | | | | | | | | | | | | | | | | |
| T7 | R7s | E | HOR | 150 | 5.37 | | 34527 | ARC150/TD/UVC/730 | M81 | 12 | | 6000 | 13000 | 11000 | 3000 | 75 | Clear | | 103 |
| | | | | | | | 34535 | ARC150/TD/UVC/742 | M81 | 12 | | 6000 | 12000 | 10000 | 4200 | 75 | Clear | | 103 |
| T6 | BiPinG12 | E | U | 150 | 3 | 2.25 | 21053 | ARC150T/U/830G12 | M81 | 10 | | 6000 | 12000 | 9500 | 3000 | 80 | Clear | | 102 |
| | | | | | | | 21054 | ARC150T/U/840G12 | M81 | 10 | | 6000 | 11500 | 10500 | 4000 | 80 | Clear | | 102 |
| CAP | BiPinGY9.5 | E | U | 150 | 1.62 | 1.12 | 34813 | CSS150/CAP/50 | M81 | 10 | | 1000 | 10000 | 8000 | 5000 | 80 | Clear, Disco Lamp | | 102 |



| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | CBP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot- notes | Warning |
|--|------|-----|-----|-------|------|------|------------|------------------|-------------------|-----------|-----|--------------------|----------------|-------------|---------------|-----|------------------------|-------------|---------|
| ARCSTREAM® METAL HALIDE LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | | |
| 250 WATTS | | | | | | | | | | | | | | | | | | | |
| T15 | Mog | E | HOR | 250 | 8.37 | 5.62 | 26683 | ARC250/T/H/960/E | M80 | 12 | | 10000 | 19000 | 13300 | 6000 | 90 | Clear, Daylight Color | 111 | |
| 400 WATTS | | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | E | HOR | 400 | 10.5 | 6.75 | 26685 | KRC400/T/H/960/E | M135 | 12 | | 10000 | 25000 | 17500 | 6000 | 90 | Clear, Daylight Color | 49 | 110 |
| LUCALOX® HIGH PRESSURE SODIUM LAMPS | | | | | | | | | | | | | | | | | | | |
| 35 WATTS | | | | | | | | | | | | | | | | | | | |
| B17 | Med | O | U | 35 | 5.43 | 3.43 | 11668 | LU35/MED | S76 | 6 | | 16000 | 2250 | 2025 | 1900 | 22 | Clear | 111 | |
| | | | | | | | 26420 | LU35/MED/CP | S76 | 4 | | 16000 | 2250 | 2025 | 1900 | 22 | Clear, Consumer Pack | 111 | |
| | | | | | | | 11669 | LU35/D/MED | S76 | 6 | | 16000 | 2150 | 1935 | 1900 | 22 | Diffuse | 111 | |
| 50 WATTS | | | | | | | | | | | | | | | | | | | |
| B17 | Med | O | U | 50 | 5.43 | 3.43 | 11345 | LU50/MED | S68 | 6 | | 24000+ | 4000 | 3600 | 1900 | 22 | Clear | 111 | |
| | | | | | | | 26421 | LU50/MED/CP | S68 | 4 | | 24000+ | 4000 | 3600 | 1900 | 22 | Clear, Consumer Pack | 111 | |
| | | | | | | | 11347 | LU50/D/MED | S68 | 6 | | 24000+ | 3800 | 3420 | 1900 | 22 | Diffuse | 111 | |
| ED23.5 | Mog | O | U | 50 | 7.75 | 5 | 44975 | LU50 | S68 | 12 | | 24000+ | 4000 | 3600 | 1900 | 22 | Clear | 111 | |
| | | | | | | | 26425 | LU50/CP | S68 | 4 | | 24000+ | 4000 | 3600 | 1900 | 22 | Clear, Consumer Pack | 111 | |
| | | | | | | | 45006 | LU50/D | S68 | 12 | | 24000+ | 3800 | 3420 | 1900 | 22 | Diffuse | 111 | |
| 70 WATTS | | | | | | | | | | | | | | | | | | | |
| B17 | Med | O | U | 70 | 5.43 | 3.43 | 11339 | LU70/MED | S62 | 6 | | 24000+ | 6400 | 5450 | 1900 | 22 | Clear | 111 | |
| | | | | | | | 26422 | LU70/MED/CP | S62 | 4 | | 24000+ | 6400 | 5450 | 1900 | 22 | Clear, Consumer Pack | 111 | |
| | | | | | | | 11340 | LU70/D/MED | S62 | 6 | | 24000+ | 5950 | 5050 | 1900 | 22 | Diffuse | 111 | |
| ED23.5 | Mog | O | U | 70 | 7.75 | 5 | 44033 | LU70 | S62 | 12 | | 24000+ | 6400 | 5450 | 1900 | 22 | Clear | 111 | |
| | | | | | | | 26426 | LU70/CP | S62 | 4 | | 24000+ | 6400 | 5450 | 1900 | 22 | Clear, Consumer Pack | 111 | |
| | | | | | | | 44035 | LU70/D | S62 | 12 | | 24000+ | 5950 | 5050 | 1900 | 22 | Diffuse | 111 | |
| 100 WATTS | | | | | | | | | | | | | | | | | | | |
| B17 | Med | O | U | 100 | 5.5 | 3.43 | 13250 | LU100/MED | S54 | 6 | | 24000+ | 9500 | 8550 | 2000 | 22 | Clear | 111 | |
| | | | | | | | 26423 | LU100/MED/CP | S54 | 4 | | 24000+ | 9500 | 8550 | 2000 | 22 | Clear, Consumer Pack | 111 | |
| | | | | | | | 13251 | LU100/D/MED | S54 | 6 | | 24000+ | 8800 | 7920 | 2000 | 22 | Diffuse | 111 | |
| ED23.5 | Mog | O | U | 100 | 7.75 | 5 | 44037 | LU100 | S54 | 12 | | 24000+ | 9500 | 8550 | 2000 | 22 | Clear | 111 | |
| | | | | | | | 26427 | LU100/CP | S54 | 4 | | 24000+ | 9500 | 8550 | 2000 | 22 | Clear, Consumer Pack | 111 | |
| | | | | | | | 44038 | LU100/D | S54 | 12 | | 24000+ | 8800 | 7920 | 2000 | 22 | Diffuse | 111 | |
| 150 WATTS | | | | | | | | | | | | | | | | | | | |
| B17 | Med | O | U | 150 | 5.75 | 3.5 | 13252 | LU150/MED | S55 | 6 | | 24000+ | 16000 | 14400 | 2000 | 22 | Clear | 111 | |
| | | | | | | | 26424 | LU150/MED/CP | S55 | 4 | | 24000+ | 16000 | 14400 | 2000 | 22 | Clear, Consumer Pack | 111 | |
| | | | | | | | 13253 | LU150/D/MED | S55 | 6 | | 24000+ | 15000 | 13500 | 2000 | 22 | Diffuse | 111 | |
| ED23.5 | Mog | O | U | 150 | 7.75 | 5 | 44043 | LU150/55 | S55 | 12 | | 24000+ | 16000 | 14400 | 2000 | 22 | Clear | 111 | |
| | | | | | | | 26429 | LU150/55/CP | S55 | 4 | | 24000+ | 16000 | 14400 | 2000 | 22 | Clear, Consumer Pack | 111 | |
| | | | | | | | 44045 | LU150/55/D | S55 | 12 | | 24000+ | 15000 | 13500 | 2000 | 22 | Diffuse | 111 | |
| ED28 | Mog | O | U | 150 | 8.31 | 5 | 44243 | LU150/100(ED28) | S56 | 12 | | 24000+ | 15000 | 13500 | 2000 | 22 | Clear | 111 | |
| 200 WATTS | | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | O | U | 200 | 9.75 | 5.75 | 44206 | LU200 | S66 | 12 | | 24000+ | 22000 | 19800 | 2100 | 22 | Clear | 111 | |
| 250 WATTS | | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | O | U | 250 | 9.75 | 5.75 | 44047 | LU250 | S50 | 12 | | 24000+ | 28000 | 25200 | 2100 | 22 | Clear | 111 | |
| | | | | | | | 26430 | LU250/CP | S50 | 4 | | 24000+ | 28000 | 25200 | 2100 | 22 | Clear, Consumer Pack | 111 | |
| | | | | 9 | 5 | | 44051 | LU250/D | S50 | 12 | | 24000+ | 26000 | 23400 | 2100 | 22 | Diffuse | 111 | |
| 310 WATTS | | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | O | U | 310 | 9.75 | 5.75 | 44053 | LU310 | S67 | 12 | | 24000+ | 37000 | 33300 | 2100 | 22 | Clear | 111 | |



High Intensity Discharge Lamps

| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot-notes | Warning |
|---|------|-----|-----|-------|-------|------|------------|-----------------|-------------------|-----------|------|--------------------|----------------|-------------|---------------|-----|--|----------------|---------|
| LUCALOX® HIGH PRESSURE SODIUM LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | | |
| 400 WATTS | | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | 0 | U | 400 | 9.75 | 5.75 | 44054 | LU400 | S51 | 12 | | 24000+ | 51000 | 45000 | 2100 | 22 | Clear | 49 | 111 |
| | | | | | | | 26431 | LU400/CP | S51 | 4 | | 24000+ | 51000 | 45000 | 2100 | 22 | Clear, Consumer Pack | 49 | 111 |
| ED37 | Mog | 0 | U | 400 | 11.31 | 7 | 44056 | LU400/D | S51 | 6 | | 24000+ | 47500 | 42750 | 2100 | 22 | Diffuse | 49 | 111 |
| T7 | Rx7s | 0 | HOR | 400 | 10.12 | | 30244 | LU400/TD | S51 | 10 | | 24000 | 43000 | 37300 | 2000 | 25 | Clear, Double-ended, Horizontal Burn | ±20° | 111 |
| 600 WATTS | | | | | | | | | | | | | | | | | | | |
| T15 | Mog | 0 | U | 600 | 11.06 | 6.62 | 27187 | LU600/T | S106 | 12 | | 24000+ | 90000 | 81000 | 2000 | 22 | Clear | 49 | 112 |
| 750 WATTS | | | | | | | | | | | | | | | | | | | |
| ED37 | Mog | 0 | U | 750 | 11.5 | 6.75 | 14682 | LU750 | S111 | 6 | | 24000+ | 110000 | 99000 | 2100 | 22 | Clear | 49 | 112 |
| 1000 WATTS | | | | | | | | | | | | | | | | | | | |
| E25 | Mog | 0 | U | 1000 | 15.06 | 8.75 | 44058 | LU1000/ECO | S52 | 6 | | 24000+ | 130000 | 126000 | 2100 | 22 | Clear | 49 | 111 |
| T7 | Rx7s | 0 | HOR | 1000 | 13.18 | | 30246 | LU1000/TD | S52 | 10 | | 24000 | 137500 | 118200 | 2000 | 25 | Clear, Double-ended, Horizontal Burn | ±20° | 111 |
| STANDBY LONGLIFE LUCALOX® LAMPS | | | | | | | | | | | | | | | | | | | |
| 70 WATTS | | | | | | | | | | | | | | | | | | | |
| ED23.5 | Mog | 0 | U | 70 | 7.75 | 5 | 19264 | LU70/SBY/XL | S62 | 12 | | 40000 | 6400 | 5050 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube | | 111 |
| 100 WATTS | | | | | | | | | | | | | | | | | | | |
| ED23.5 | Mog | 0 | U | 100 | 7.75 | 5 | 19265 | LU100/SBY/XL | S54 | 12 | | 40000 | 9500 | 8190 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube | | 111 |
| 150 WATTS | | | | | | | | | | | | | | | | | | | |
| ED23.5 | Mog | 0 | U | 150 | 7.75 | 5 | 19266 | LU150/55/SBY/XL | S55 | 12 | | 40000 | 16000 | 14000 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube | | 111 |
| 200 WATTS | | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | 0 | U | 200 | 9.75 | 5.75 | 23431 | LU200/SBY/XL | S66 | 12 | | 40000 | 21500 | 18150 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube | | 111 |
| 250 WATTS | | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | 0 | U | 250 | 9.75 | 5.75 | 19270 | LU250/SBY/XL | S50 | 12 | | 40000 | 27500 | 24750 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube | | 111 |
| 400 WATTS | | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | 0 | U | 400 | 9.75 | 5.75 | 19272 | LU400/SBY/XL | S51 | 12 | | 40000 | 50000 | 45000 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube | 49 | 111 |
| 1000 WATTS | | | | | | | | | | | | | | | | | | | |
| E25 | Mog | 0 | U | 1000 | 15.06 | 8.75 | 27185 | LU1000/SBY/XL | S52 | 6 | | 40000 | 127000 | 115000 | 2100 | 22 | Clear, Standby Longlife, Dual Arc Tube | 49 | 111 |
| ECOLUX® NC NON-CYCLING HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT) | | | | | | | | | | | | | | | | | | | |
| 70 WATTS | | | | | | | | | | | | | | | | | | | |
| ED23.5 | Mog | 0 | U | 70 | 7.75 | 5 | 14672 | LU70/ECO/NC | S62 | 12 | | 30000 | 6300 | 5670 | 1900 | 23 | Clear, Non-Cycling, TCLP Compliant | | 111 |
| 100 WATTS | | | | | | | | | | | | | | | | | | | |
| ED23.5 | Mog | 0 | U | 100 | 7.75 | 5 | 14673 | LU100/ECO/NC | S54 | 12 | | 30000 | 10500 | 9450 | 2000 | 23 | Clear, Non-Cycling, TCLP Compliant | | 111 |
| 150 WATTS | | | | | | | | | | | | | | | | | | | |
| ED23.5 | Mog | 0 | U | 150 | 7.75 | 5 | 40390 | LU150/ECO/NC | S55 | 12 | | 30000 | 16000 | 14400 | 2000 | 23 | Clear, Non-Cycling, TCLP Compliant | | 111 |
| 200 WATTS | | | | | | | | | | | | | | | | | | | |
| ET18 | Mog | 0 | U | 200 | 9.75 | 5.75 | 45059 | LU200/ECO/NC | S66 | 20 | | 30000 | 22000 | 19800 | 2100 | 22 | Clear, Non-Cycling, TCLP Compliant | | 111 |
| 250 WATTS | | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | 0 | U | 250 | 9.75 | 5.75 | 14674 | LU250/ECO/NC | S50 | 12 | | 30000 | 29000 | 26100 | 2000 | 30 | Clear, Non-Cycling, TCLP Compliant | | 111 |



High Intensity Discharge Lamps

| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot-notes | Warning |
|---|-------|-----|----|-------|-------|------|------------|--------------|-------------------|-----------|--------------------|----------------|-------------|---------------|-----|---|------------|---------|
| ECOLUX® NC NON-CYCLING HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT) (CONTINUED) | | | | | | | | | | | | | | | | | | |
| 400 WATTS | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | 0 | U | 400 | 9.75 | 5.75 | 14675 | LU400/ECO/NC | S51 | 12 | 30000 | 54000 | 48600 | 2100 | 30 | Clear, Non-Cycling, TCLP Compliant | 49 | 111 |
| ECOLUX® HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT) | | | | | | | | | | | | | | | | | | |
| 70 WATTS | | | | | | | | | | | | | | | | | | |
| ED23.5 | Mog | 0 | U | 70 | 7.75 | 5 | 45760 | LU70/ECO | S62 | 12 | 24000+ | 6400 | 5450 | 1900 | 22 | Clear, TCLP Compliant | | 111 |
| 100 WATTS | | | | | | | | | | | | | | | | | | |
| ED23.5 | Mog | 0 | U | 100 | 7.75 | 5 | 45761 | LU100/ECO | S54 | 12 | 24000+ | 9500 | 8550 | 2000 | 22 | Clear, TCLP Compliant | | 111 |
| 150 WATTS | | | | | | | | | | | | | | | | | | |
| ED23.5 | Mog | 0 | U | 150 | 7.75 | 5 | 45762 | LU150/55/ECO | S55 | 12 | 24000+ | 16000 | 14400 | 2000 | 22 | Clear, TCLP Compliant | | 111 |
| 200 WATTS | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | 0 | U | 200 | 9.75 | 5.75 | 45763 | LU200/ECO | S66 | 12 | 24000+ | 22000 | 19800 | 2100 | 22 | Clear, TCLP Compliant | | 111 |
| 250 WATTS | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | 0 | U | 250 | 9.75 | 5.75 | 45764 | LU250/ECO | S50 | 12 | 24000+ | 28000 | 25200 | 2100 | 22 | Clear, TCLP Compliant | | 111 |
| 400 WATTS | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | 0 | U | 400 | 9.75 | 5.75 | 45765 | LU400/ECO | S51 | 12 | 24000+ | 51000 | 45000 | 2100 | 22 | Clear, TCLP Compliant | 49 | 111 |
| 1000 WATTS | | | | | | | | | | | | | | | | | | |
| E25 | Mog | 0 | U | 1000 | 15.06 | 8.75 | 44058 | LU1000/ECO | S52 | 6 | 24000+ | 140000 | 126000 | 2100 | 22 | Clear | 49 | 111 |
| DELUXE LUCALOX® HIGH PRESURE SODIUM LAMPS | | | | | | | | | | | | | | | | | | |
| 70 WATTS | | | | | | | | | | | | | | | | | | |
| B17 | Med | 0 | U | 70 | 5.5 | 3.5 | 16611 | LU70/DX/MED | S62 | 6 | 10000 | 3800 | 3040 | 2200 | 65 | Clear, Improved CRI | | 111 |
| 150 WATTS | | | | | | | | | | | | | | | | | | |
| B17 | Med | 0 | U | 150 | 5.75 | 3.5 | 18094 | LU150/DX/MED | S55 | 6 | 15000 | 10500 | 9135 | 2200 | 65 | Clear, Improved CRI | | 111 |
| ED23.5 | Mog | 0 | U | 150 | 7.75 | 5 | 18092 | LU150/55/DX | S55 | 12 | 15000 | 10500 | 9135 | 2200 | 65 | Clear, Improved CRI | | 111 |
| 250 WATTS | | | | | | | | | | | | | | | | | | |
| ED18 | Mog | 0 | U | 250 | 9.75 | 5.75 | 11785 | LU250/DX | S50 | 12 | 15000 | 22500 | 20700 | 2200 | 65 | Clear, Improved CRI | | 111 |
| 400 WATTS | | | | | | | | | | | | | | | | | | |
| ED28 | Mog | 0 | U | 400 | 9 | 5.18 | 19650 | LU400/DX | S51 | 12 | 15000 | 37400 | 34400 | 2200 | 70 | Clear, Improved CRI | 49 | 111 |
| E-Z LUX® HIGH PRESSURE SODIUM LAMPS (MERCURY RETROFIT) | | | | | | | | | | | | | | | | | | |
| 150 WATTS | | | | | | | | | | | | | | | | | | |
| ED28 | Mog | 0 | U | 150 | 9 | 5 | 49943 | LUH150/EZ | H39 | 12 | 13000 | 12500 | 12000 | 1900 | 22 | ↗ Clear, Energy-saving Retrofit for 175W Mercury | 46 | 111 |
| 215 WATTS | | | | | | | | | | | | | | | | | | |
| BT28 | Mog | 0 | U | 215 | 8.3 | 5 | 49939 | LUH215/EZ | H37 /S65 | 12 | 16000 | 20000 | 17000 | 2000 | 20 | ↗ Clear, Energy-saving Retrofit for 250W Mercury | 47 | 111 |
| 360 WATTS | | | | | | | | | | | | | | | | | | |
| BT37 | Mog | 0 | U | 360 | 11.31 | 7.12 | 18012 | LUH360/EZ | H33 | 6 | 24000 | 45000 | 40500 | 2100 | 25 | ↗ Clear, Energy-saving Retrofit for 400W Mercury | 48, 49 | 111 |
| SOX LOW PRESSURE SODIUM LAMPS | | | | | | | | | | | | | | | | | | |
| 18 WATTS | | | | | | | | | | | | | | | | | | |
| T16 | BY22d | E | | 18 | 8.5 | 5.37 | 21294 | SOX18 | L69 | 16 | 18000 | 1800 | 1570 | 1800 | 0 | Clear, Horizontal Burn ±20° or Vertical | | 111 |
| 35 WATTS | | | | | | | | | | | | | | | | | | |
| T16 | BY22d | E | | 35 | 12.25 | 7.25 | 21296 | SOX35 | L70 | 16 | 18000 | 4600 | 4000 | 1800 | 0 | Clear, Horizontal Burn ±20° or Vertical | | 111 |
| 55 WATTS | | | | | | | | | | | | | | | | | | |
| T16 | BY22d | E | | 55 | 16.75 | 9.5 | 21297 | SOX55 | L71 | 16 | 18000 | 7650 | 6655 | 1800 | 0 | Clear, Horizontal Burn ±20° or Vertical | | 111 |



High Intensity Discharge Lamps

| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot- notes | Warning |
|--|-------|-----|-------|-------|-------|------------|----------------|-------------|-------------------|-----------|--------|--------------------|----------------|-------------|---------------|-----|--|-------------|---------|
| SOX LOW PRESSURE SODIUM LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | | |
| 90 WATTS | | | | | | | | | | | | | | | | | | | |
| T21 | BY22d | E | | 90 | 20.75 | 11.5 | 21298 | SOX90 | L72 | 9 | | 16000 | 12750 | 11095 | 1800 | 0 | Clear, Horizontal Burn | 111 | |
| 135 WATTS | | | | | | | | | | | | | | | | | | | |
| T21 | BY22d | E | | 135 | 30.5 | 16.37 | 21299 | SOX135 | L73 | 9 | | 16000 | 22000 | 19140 | 1800 | 0 | Clear, Horizontal Burn | 111 | |
| MERCURY LAMPS | | | | | | | | | | | | | | | | | | | |
| 40/50 WATTS | | | | | | | | | | | | | | | | | | | |
| B17 | Med | O U | 50/40 | 5.12 | 3.12 | 12460 | HR40/50DX45-46 | H45 | 5 | | 6000 | 1575/1140 | 1250/910 | 3900 | 50 | | 40W on H45 Ballast, 50W on H46 Ballast, Deluxe White | 113 | |
| 75 WATTS | | | | | | | | | | | | | | | | | | | |
| B17 | Med | O U | 75 | 5.43 | 3.5 | 12461 | HR75DX43 | H43 | 5 | | 16000 | 2700 | 2250 | 3900 | 50 | | Deluxe White | 113 | |
| 100 WATTS | | | | | | | | | | | | | | | | | | | |
| A23.5 | Med | O U | 100 | 5.43 | 3.5 | 12464 | HR100A38/A23 | H38 | 5 | | 18000 | 3700 | 2400 | 5700 | 15 | | Clear | 113 | |
| | | | | | | 12467 | HR100DX38/A23 | H38 | 5 | | 18000 | 4000 | 2600 | 3800 | 50 | | Deluxe White | 113 | |
| B17 | Med | O U | 100 | 5.43 | 3.5 | 17113 | HR100DX38/MED | H38 | 5 | | 18000 | 4000 | 2600 | 3900 | 50 | | Deluxe White | 113 | |
| ED23.5 | Mog | O U | 100 | 7.5 | 5 | 12471 | HR100A38 | H38 | 5 | | 24000+ | 3850 | 2500 | 5700 | 15 | | Clear | 113 | |
| | | | | | | 22575 | HR100DX38 | H38 | 12 | | 24000+ | 4000 | 2600 | 3900 | 50 | | Deluxe White | 113 | |
| | | | | | | 26437 | HR100DX38/CP | H38 | 4 | | 24000+ | 4000 | 2600 | 3900 | 50 | | Deluxe White, Consumer Pack | 113 | |
| R40 | Med | O U | 100 | 7 | | 36238 | HR100RFL38 | H38 | 12 | | 24000+ | 2450 | 2000 | 5700 | 15 | | Reflector Flood, 48" Beam Spread | 113 | |
| | | | | | | 36495 | HR100RDXFL38 | H38 | 12 | | 24000+ | 2450 | 2050 | 3900 | 50 | | Deluxe White, Reflector WFL, 140" Beam Spread | 113 | |
| 175 WATTS | | | | | | | | | | | | | | | | | | | |
| ED28 | Mog | O U | 175 | 8.25 | 5 | 24048 | HR175A39 | H39 | 12 | | 24000+ | 7850 | 6830 | 5700 | 15 | | Clear | 113 | |
| | | | | | | 26440 | HR175A39/CP | H39 | 4 | | 24000+ | 7850 | 6830 | 5700 | 15 | | Clear, Consumer Pack | 113 | |
| | | | | | | 24062 | HR175DX39 | H39 | 12 | | 24000+ | 7800 | 6800 | 3900 | 50 | | Deluxe White | 113 | |
| | | | | | | 26439 | HR175DX39/CP | H39 | 4 | | 24000+ | 7800 | 6800 | 3900 | 50 | | Deluxe White, Consumer Pack | 113 | |
| R40 | Med | O U | 175 | 7 | | 24058 | HR175RFL39 | H39 | 12 | | 24000+ | 5700 | 4800 | 5700 | 15 | | Clear, Reflector Flood, 40" Beam Spread | 113 | |
| | | | | | | 33026 | HR175RDXFL39 | H39 | 12 | | 24000+ | 5700 | 4350 | 3900 | 50 | | Deluxe White, Reflector WFL, 120" Beam Spread | 113 | |
| | | | | | | 36445 | HR175RFL39/M | H39 | 12 | | 24000+ | 5700 | 4800 | 5700 | 15 | | Clear, Reflector Flood, 40" Beam Spread | 113 | |
| 250 WATTS | | | | | | | | | | | | | | | | | | | |
| ED28 | Mog | O U | 250 | 8.25 | 5 | 24068 | HR250A37 | H37 | 12 | | 24000 | 11000 | 8250 | 5700 | 15 | | Clear | 113 | |
| | | | | | | 32127 | HR250DX37 | H37 | 12 | | 24000+ | 11200 | 8400 | 3900 | 50 | | Deluxe White | 113 | |
| 400 WATTS | | | | | | | | | | | | | | | | | | | |
| BT37 | Mog | O U | 400 | 11.31 | 7 | 32313 | HR400DX33/BT | H33 | 6 | | 24000+ | 22600 | 14400 | 3900 | 50 | | Deluxe White | 49 | 113 |
| ED37 | Mog | O U | 400 | 11.31 | 7 | 23974 | HR400A33 | H33 | 6 | | 24000+ | 21000 | 13400 | 5700 | 15 | | Clear | 49 | 113 |
| | | | | | | 23998 | HR400DX33 | H33 | 6 | | 24000+ | 22600 | 14400 | 3900 | 50 | | Deluxe White | 49 | 113 |
| R52 | Mog | O U | 400 | 11.75 | | 33879 | HR400RDX33 | H33 | 6 | | 24000+ | 20800 | 13400 | 3900 | 50 | | Reflector, Deluxe White, 160" Beam Spread | 49 | 113 |
| R60 | Mog | O U | 400 | 10.12 | | 33938 | HR400RDXFL33 | H33 | 6 | | 24000+ | 15500 | 8950 | 3900 | 50 | | Reflector WFL, Deluxe White, Clear Face, 110" | 49 | 113 |
| 1000 WATTS | | | | | | | | | | | | | | | | | | | |
| BT56 | Mog | O U | 1000 | 15.06 | 9.5 | 24171 | HR1000A36 | H36 | 6 | | 24000+ | 57000 | 28500 | 5700 | 15 | | Clear | 49 | 113 |
| | | | | | | 24191 | HR1000DX36 | H36 | 6 | | 24000+ | 58000 | 29000 | 3900 | 50 | | Deluxe White | 49 | 113 |
| | | | | | | 9.37 32733 | HR1000DX34 | H34 | 6 | | 16000 | 58300 | 29200 | 3900 | 50 | | Deluxe White | 28, 49 | 113 |



| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | CBBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Footnotes | Warning | |
|---|------|-----|-----|-------|-------|------|------------|---------------------|-------------------|-----------|-------|--------------------|----------------|-------------|---------------|-----|---|----------------------------|---------|-----|
| SAF-T-GARD® MERCURY LAMPS | | | | | | | | | | | | | | | | | | | | |
| 175 WATTS | | | | | | | | | | | | | | | | | | | | |
| ED28 | Mog | 0 | U | 175 | 8.25 | 5 | 43391 | HT175DX39 | H39 | 12 | | 16000 | 7800 | 6800 | 3900 | 50 | Deluxe White | 114 | | |
| 400 WATTS | | | | | | | | | | | | | | | | | | | | |
| ED37 | Mog | 0 | U | 400 | 11.31 | 7 | 43363 | HT400DX33 | H33 | 6 | | 24000 | 22600 | 14400 | 3900 | 50 | Deluxe White | 49 | 114 | |
| E-Z MERC® SELF-BALLASTED LAMPS (INCANDESCENT RETROFIT) | | | | | | | | | | | | | | | | | | | | |
| 160 WATTS | | | | | | | | | | | | | | | | | | | | |
| ED24 | Med | 0 | U | 160 | 7 | 4.5 | 45178 | HSB160/M | | 24 | | 12000 | 2300 | 1600 | 3900 | 50 | Deluxe White, 120V | 9 | 115 | |
| 250 WATTS | | | | | | | | | | | | | | | | | | | | |
| ED28 | Med | 0 | U | 250 | 8.5 | 5.18 | 45174 | HSB250M | | 12 | | 12000 | 5000 | 3750 | 3900 | 50 | Deluxe White, 120V | 9 | 115 | |
| | | | | | | | 45176 | HSB250 | | 12 | | 12000 | 5000 | 3750 | 3900 | 50 | Deluxe White, 120V | 9 | 115 | |
| 450 WATTS | | | | | | | | | | | | | | | | | | | | |
| BT37 | Mog | 0 | U | 450 | 7.37 | | 40122 | HSB450 | | 6 | | 16000 | 9100 | 8280 | 3900 | 50 | Deluxe White, 120V | 9, 49 | 115 | |
| 750 WATTS | | | | | | | | | | | | | | | | | | | | |
| R57 | Mog | 0 | U | 750 | 12.75 | 8.37 | 44012 | HSB750R/120 | | 6 | | 16000 | 14000 | 11200 | 3900 | 50 | Deluxe White, Reflector Flood, 120V, 130° Beam | 9, 49 | 115 | |
| EXPORT LAMPS | | | | | | | | | | | | | | | | | | | | |
| METAL HALIDE | | | | | | | | | | | | | | | | | | | | |
| ED17 | E27 | 0 | VBU | 32 | 5.43 | 3.43 | 16893 | MXR32/C/VBU/O/27 | M100 | 6 | | 10000 | 2400 | 1700 | 3200 | 70 | Coated, protected | | 119 | |
| | | | | 100 | 5.43 | 3.43 | 18684 | MXR100/C/U/27 | M90 | 6 | | 15000 | 8500 | 5900 | 3200 | 70 | Coated | | 117 | |
| ED28 | E40 | E | U | 175 | 8.25 | 5 | 47762 | MVR175/U/40 | M57 | 12 | | 6000H | 13600V | 8800V | 4000 | 65 | Clear | | 117 | |
| | | | | | | | | | | | | 10000V | 11700H | 7400H | | | | | | |
| | | | | | | | 47763 | MVR175/C/U/40 | M57 | 12 | | 6000H | 12900V | 8400V | 3900 | 70 | Coated | | 117 | |
| | | | | | | | | | | | | 10000V | 11900H | 7900H | | | | | | |
| | | | | | | | 17714 | MVR175/SP30/U/40 | M57 | 12 | | 6000H | 12000V | 7600V | 3000 | 70 | RE730 Phosphor Coating | | 117 | |
| | | | | | | | | | | | | 10000V | 10300H | 6500H | | | | | | |
| | | | | 250 | 8.25 | 5 | 44542 | MVR250/U/40 | M58 | 12 | | 6000H | 20800V | 13500V | 4200 | 65 | Clear | | 117 | |
| | | | | | | | | | | | | 10000V | 19100H | 12400H | | | | | | |
| | | | | | | | 44543 | MVR250/C/U/40 | M58 | 12 | | 6000H | 19800V | 13000V | 3900 | 70 | Coated | | 117 | |
| | | | | | | | | | | | | 10000V | 18200H | 11600H | | | | | | |
| | | | | | | | 17715 | MVR250/SP30/U/40 | M58 | 12 | | 6000H | 18000V | 11500V | 3000 | 70 | RE730 Phosphor Coating | | 117 | |
| | | | | | | | | | | | | 10000V | 16600H | 10600H | | | | | | |
| ED37 | E40 | S | U | 400 | 11.5 | 7 | 43907 | MVR400/U/40 | M59 | 6 | | 15000H | 36000V | 23500V | 4000 | 65 | Clear | 49 | 121 | |
| | | | | | | | | | | | | 20000V | 33100H | 22100H | | | | | | |
| | | | | | | | 43908 | MVR400/C/U/40 | M59 | 6 | | 15000H | 35000V | 23000V | 3700 | 70 | Coated | 49 | 121 | |
| | | | | | | | | | | | | 20000V | 32200H | 19300H | | | | | | |
| | | S | V | 400 | 11.5 | 7 | 49860 | MVR400/VBU/40 | M59 | 6 | | 20000 | 41000 | 26500 | 4000 | 65 | Clear, Vertical Base Up | 49 | 121 | |
| | | | | | | | | | | | | | | | | | ±15° | | | |
| | | | | | | | 49857 | MVR400/C/VBU/40 | M59 | 6 | | 20000 | 41000 | 25000 | 3700 | 70 | Coated, Vertical Base Up | 49 | 121 | |
| | | | | | | | | | | | | | | | | | ±15° | | | |
| | | O | VBU | 400 | 11.5 | 7 | 27738 | MPR400/C/VBU/O/40 | M59 | 6 | | 20000 | 38000 | 26000 | 3200 | 70 | Coated, Vertical Base Up, protected | 49 | 119 | |
| | | S | V | 400 | 11.5 | 7 | 46420 | MVR400/VBU/STB/40 | M59 | 6 | | 20000 | 41000 | 31000 | 4000 | 65 | Clear, StayBright® | ® 49 | 121 | |
| | | | | | | | 46421 | MVR400/C/VBU/STB/40 | M59 | 6 | | 20000 | 41000 | 29500 | 3700 | 70 | Coated, StayBright® | ® 49 | 121 | |
| | | U | | 400 | 11.5 | 7 | 17716 | MVR400/SP30/U/40 | M59 | 6 | | 15000H | 31000V | 18600V | 3000 | 70 | RE730 Phosphor Coating | 49 | 121 | |
| | | | | | | | | | | | | 20000V | 28500H | 17100H | | | | | | |
| | | VBU | | 400 | 11.5 | 7 | 21440 | MVR400/SP30/VBU/40 | M59 | 6 | | 20000 | 34000 | 20400 | 3200 | 70 | RE730 Phosphor Coating, Vertical Base Up | ±15& | 121 | |
| | | O | VBU | 400 | 11.5 | 7 | 18709 | MPR400/VBU/O/40 | M59 | 6 | | 20000 | 40000 | 26000 | 3400 | 65 | Clear, Vertical Base Up | ±15°, Shrouded A | 49 | 119 |
| | | | | | | | | | | | | | | | | | | | | |
| BT56 | E40 | S | U | 1000 | 15.37 | 9.5 | 41828 | MVR1000/U/40 | M47 | 6 | | 11000H | 108000V | 86000V | 4000 | 65 | Clear | 49 | 121 | |
| | | | | | | | | | | | | 15000V | 100280H | 79000H | | | | | | |
| | | | | | | | 41829 | MVR1000/C/U/40 | M47 | 6 | | 11000H | 105000V | 80000V | 3700 | 65 | Coated | 49 | 121 | |
| | | | | | | | | | | | | 15000V | 96600H | 73000H | | | | | | |



High Intensity Discharge Lamps

| Bulb | Base | LET | OP | Watts | MOL | LCL | Order Code | Description | ANSI Ballast Type | Case Qty. | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot-notes | Warning | |
|---|------|-----|----|-------|-------|------|------------|-------------------|-------------------|-----------|--------------------|----------------|-------------|---------------|-----|--|------------|---------|-----|
| EXPORT LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | | |
| LUCALOX® HIGH PRESSURE SODIUM | | | | | | | | | | | | | | | | | | | |
| E21 | E27 | 0 | U | 70 | 6.3 | 4.13 | 10405 | LU70/90/27 | | 12 | 24000+ | 6000 | 5400 | 1900 | 22 | Clear | | 111 | |
| ED23.5 | E40 | 0 | U | 150 | 7.75 | 5 | 44044 | LU150/55/40 | S55 | 12 | 24000+ | 16000 | 14400 | 2000 | 22 | Clear | | 111 | |
| T14.5 | E40 | 0 | U | 150 | 8.23 | 5.16 | 27223 | LU150/100/40 | | 12 | 24000+ | 15000 | 13500 | 2000 | 22 | Clear | | 111 | |
| ED28 | E40 | 0 | U | 150 | 9.13 | 5.24 | 27228 | LU150/100/D/40 | | 12 | 24000+ | 14000 | 12600 | 2000 | 22 | Diffuse | | 111 | |
| ED18 | E40 | 0 | U | 250 | 9.75 | 5.75 | 44048 | LU250/40 | S50 | 12 | 24000+ | 28000 | 25200 | 2100 | 22 | Clear | | 111 | |
| ED28 | E40 | 0 | U | 250 | 9 | 5 | 27226 | LU250/D/40 | S50 | 12 | 24000+ | 26000 | 23400 | 2100 | 22 | Clear | | 111 | |
| ED18 | E40 | 0 | U | 400 | 9.75 | 5.75 | 44055 | LU400/40 | S51 | 12 | 24000+ | 51000 | 45000 | 2100 | 22 | Clear | | 49 | 111 |
| ED37 | E40 | 0 | U | 400 | 11.31 | 7 | 27229 | LU400/D/40 | S51 | 6 | 24000+ | 47500 | 42750 | 2100 | 22 | Diffuse | | 49 | 111 |
| E25 | E40 | 0 | U | 1000 | 15.06 | 8.75 | 44059 | LU1000/40 | S52 | 6 | 24000+ | 140000 | 126000 | 2100 | 22 | Clear | | 49 | 111 |
| E-Z LUX® LUCALOX® HIGH PRESURE SODIUM (MERCURY RETROFIT) | | | | | | | | | | | | | | | | | | | |
| ED28 | E40 | 0 | U | 215 | 9 | 5 | 49941 | LUH215/D/EZ/40 | | 12 | 12000 | 20200 | 18600 | 1900 | 22 | ↔ Diffuse, Energy-saving Retrofit for 250W Mercury | | 111 | |
| MERCURY | | | | | | | | | | | | | | | | | | | |
| ED37 | E40 | 0 | U | 400 | 11.42 | 7.13 | 32294 | HR400DX33/40 | H33 | 6 | 24000+ | 22600 | 14400 | 3900 | 50 | Deluxe White | | 49 | 113 |
| HORTICULTURAL LAMPS | | | | | | | | | | | | | | | | | | | |
| T15 | E40 | 0 | U | 400 | 11.3 | 7 | 41813 | LU400/XO/T/40 | | 12 | 28500 | 56500 | 53675 | 2100 | 22 | Clear | | 33,38 | 111 |
| | E41 | 0 | U | 600 | 11.3 | 6.7 | 41814 | LU600/XO/T/40 | | 12 | 28500 | 90000 | 85500 | 2100 | 22 | Clear | | 33,38 | 111 |
| | E42 | 0 | U | 400 | 11.3 | 7.1 | 41845 | LU400/XOPSL/T/E40 | | 12 | 28500 | 56500 | 53675 | 2100 | 22 | Clear | | 33,38 | 111 |
| | E43 | 0 | U | 600 | 11.3 | 6.7 | 41850 | LU600/XOPSL/T/E40 | | 12 | 28500 | 90000 | 85500 | 2100 | 22 | Clear | | 33,38 | 111 |
| | E44 | 0 | U | 750 | 11.7 | 7.1 | 41856 | LU750/XOPSL/T/E40 | | 12 | 16000 | 112000 | 106400 | 2100 | 22 | Clear | | 33,38 | 111 |

FOOTNOTES

Footnote

- 9 Do not use this lamp in fixtures designed for less than rated lamp wattage.
- 14 Life shown is for vertical ±15° operation.
- 16 Approximate lumen ratings at 45° burning position: Initial - 145,000. Mean - 124,000.
- 17 Rated life based on 5 or more burning hours per start.
- 28 Use only 1000-watt H12 or H34-type ballasts. Do not use on 1000-watt H36-type ballasts.
- 32 Lamp will run at 400-watts when used on a linear reactor ballast.
- 33 Rated life based on 11 hours per start.
- 38 Requires a non-ANSI designated ballast with a special, add-on metal halide ignitor. Contact your local GE representative for a list of approved ballasts and ignitors.
- 39 UV Control is a quartz material that effectively cuts UVB and UVC radiation.
- 42 Approximate lumen ratings at 45° burning position: Initial - 153,000. Mean - 139,000.
- 43 When operated on a 120 hrs. cycle (minimum), lamp life rating may be extended by up to 50% based on engineering estimates.
- 44 Rated life based on 7 hours per start.
- 45 Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs.
- 46 Use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.
- 47 Use only with the following types of H37 250-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.
- 48 Use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.
- 49 Not for use with lampholders that have stainless steel center contacts to avoid lamp or lampholder damage due to arcing.
- 50 Not for use on Magnetic-Regulator or Electronic-Regulator ballast systems to avoid ballast overheating.
- 51 Use only with electronic ballast.
- 52 Use only with approved ballast.

GENERAL INFORMATION

FIXTURE REQUIREMENTS – LAMP ENCLOSURE TYPE

HID lamps have fixture requirements that must be followed. The following three codes identify the appropriate fixture for a particular lamp. Lamps having an "O" code can be operated in an "Open or Enclosed" fixture. Lamps with a "S" code can be used in open fixtures only if operated in a vertical ±15° burn position. Lamps in all other burn positions must be suitably enclosed.

- O = Open or Enclosed Fixtures
- E = Enclosed Fixtures Only
- S = Lamps operated in a vertical position (Base Up or Down), ±15°, can be used in an open fixture. Lamps burned in any other orientation must be used in "enclosed fixtures only".

Use in Enclosed Fixtures. "Enclosed" fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) per UL Standard #1598 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position ±15° that are not designated "Enclosed Fixtures Only," lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in

an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

PROTECTION OF BULBS FROM MOISTURE

Outer bulbs of HID lamps are made of heat-resistant glass, designed to have strength and thermal-shock-resistant characteristics suitable for normal applications in typical luminaries. However, shielding of lamps must be provided to avoid bulb breakage that could result from direct contact with liquids (such as water) during operation.

RATED LIFE

Values are based on laboratory tests of a large number of representative lamps under controlled conditions, including operation at 10 hours per start on ballasts having specified electrical characteristics. Individual lamps or groups of lamps may, of course, vary from the Rated Life shown. Lamp operating conditions can also affect life. Where Rated Life is less than 24,000 hours, it is a MEDIAN value of life expectancy; that is, the total operating time at which, under normal operating conditions, 50% of any large group of initially installed lamps is expected to be still burning. Where Rated Life is 24,000+ hours, 67% of lamps are expected to be still burning at 24,000 hours.



GENERAL INFORMATION (CONTINUED)

For cost-of-light calculations involving these lamps, if an estimated operating time is required at which 50% of the lamps will still be burning, a value of 28,500 hours is suggested. At burning cycles shorter than 10 hours per start, the median life will be shortened as follows:

- 5 hrs/start: approx. life 75% of rating
- 2½ hrs/start: approx. life 56% of rating
- 1¼ hrs/start: approx. life 42% of rating

LUMENS— LUMENS LISTED ARE REFERENCE LUMENS

Rated average lamp lumens are obtained under controlled laboratory conditions in a prescribed burning position. **Initial Reference Lumens** refer to the lamp lumen output after 100-hours burning. **Mean Reference Lumens** refer to the lamp lumen output at the mean lumen point during lamp life. The mean lumen point occurs at 50% rated life for HPS and mercury lamps, and at 40% rated life for metal halide lamps. Lamp performance on typical systems under typical service conditions will vary from the reference lumen ratings.

High Intensity Discharge lighting systems are subject to a wide range of variations which may affect final lighting levels. As a result, lamp performance on actual systems may vary due to lamp orientation, ambient temperatures, ballast variations, line voltage and other reasons. Care must be taken when choosing a system to consider how these changes can affect your light levels both initially and at the mean lumen point.

BALLASTS

HID lamps (except E-Z-Merc®) require auxiliary ballast equipment designed to produce proper electrical values. Actual lamp watts may vary depending on ballast characteristics. For total system watts, add nominal ballast watts.

All Lucalox®, Mercury, and Metal Halide lamps (except I-Line) will start at ambient temperatures of -22°F (-30°C). I-Line Multi-Vapor® will start at ambient temperatures of 5°F (-15°C) when used on approved mercury ballasts.

START CHARACTERISTICS

Full light output does not occur immediately when power is applied. Instead, there is a time delay for the lamp to reach 90% total light output. The starting delay for High Pressure Sodium is 3-4 minutes, for Metal Halide 2-5 minutes, and for Mercury 5-7 minutes.

OPERATING NOTES

CMH® CHROMAFIT™ METAL HALIDE LAMPS

Use in enclosed luminaire with front cover made of glass, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with Polymeric Lens.

E-Z LUX® LAMPS

These high pressure sodium lamps should be operated only on certain mercury ballasts, as indicated below.

LUH110/EZ: use only with the following types of 125-watt mercury ballasts: high-reactance lag-type autotransformers or 220-volt or greater reactors.

LUH150/EZ: use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

LUH215/EZ: use only with the following types of H37 250-watt mercury ballasts: high reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

LUH360/EZ: use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.

RESTART CHARACTERISTICS

With a power interruption of a half cycle or more, the arc will extinguish. When power is immediately reapplied, full light output does not occur immediately. For HPS lamps there is a delay of 1 minute to reach 90% total light output; however, Lucalox® LU1000 requires 2 minutes and E-Z Lux® lamps require 3 minutes to reach 90% total light output. For most Metal Halide lamps, including CMH®, when the power is immediately reapplied, there will be a delay of 10 to 17 minutes before the lamps reach the 90% light output level. PulseArc® lamps restrike in <4 minutes. The restart delay for mercury lamps is 3 to 6 minutes to reach 90% total light output.

OPERATING POSITIONS AND CODES

Mercury and High Pressure Sodium lamps may be operated in any burn position and will still maintain their rated performance specifications. Metal Halide and Low Pressure Sodium lamps, however, are optimized for performance in specific burn positions, or may be restricted to certain burn positions for safety reasons.

- U = Universal burning position
- HBU = Horizontal -15° to Base Up
- HBD = Horizontal +15° to Base Down
- HOR = Horizontal ±15°
- H45 = Horizontal to ±45° only
- VBU = Vertical Base Up ±15°
- VBD = Vertical Base Down ±15°

If no special burn position is noted, the burn position is universal.

HID COLOR

The color temperature and CRI listed in the tabular data are for reference purposes only. All high intensity discharge lamps exhibit some degree of lamp to lamp color variation and shift over life. These characteristics can be increased based on choice of fixture, ballast, burning position, and ambient conditions. Color variation can be greater than normal during the initial 100 hours of burning. Where color consistency is important, consider using ConstantColor® CMH® for better performance (page 3-9). Contact your local GE Lighting representative for more information.

EXPORT BASE LAMPS (/27 AND /40)

Export only lamps have a non-domestic (non-U.S.) base and are not intended for use in the United States due to potential shock hazard. The lamps are identified by "/27" or "/40" at the end of the lamp description and comply with electrical characteristics defined by IEC standards.

MXR32 METAL HALIDE LAMP AND ELECTRONIC BALLAST

MXR32 lamps must be operated on GE's special, high power factor electronic ballast, HAL32/120. Outside dimensions for the ballast are 9¾" long, 3⅜" wide and 1¾" high.

SAF-T-GARD® MULTI-VAPOR® AND SAF-T-GARD® MERCURY LAMPS

Caution: If the outer glass envelope of a Saf-T-Gard® lamp is broken, the arc tube will self-extinguish, but the supporting structure will still be electrically connected. Be sure power is off and the lamp has cooled before removing the lamp to avoid possible electrical shock from contact with the arc tube support and to avoid risk of burn from the hot arc tube.

ARCSTREAM® METAL HALIDE LAMPS

Arcstream® tubular-shaped lamps must be used in suitably-enclosed fixtures with UV-absorbing cover glass. Enclosed fixtures must be capable of containing fragments of hot quartz or glass (up to 1100°C) in the unusual event of the outer bulb shattering. Also see complete Warning and Caution Notices on metal halide lamps.



WARNING NOTICES

THE FOLLOWING WARNING NOTICES MUST BE COMPLIED WITH TO HELP AVOID POSSIBLE LAMP RUPTURE. General Electric Company will not be responsible for poor lamp performance, personal injury or property damage resulting from failure to follow these instructions.

HID LAMPS - GENERAL

WARNING

Most HID lamps are constructed of an outer bulb with an internal arc tube made of quartz. The arc tube operates under high pressure at very high temperatures - as high as approximately 1100°C. The arc tube and outer bulb may unexpectedly rupture due to internal causes or external factors such as a system failure or misapplication.

An arc tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot quartz particles (as high as 1100°C). There is a risk of personal injury, property damage, burns and fire.

Some lamps are position-sensitive and must only be operated in specified burning positions (see "Additional Information" column in this catalog) with compatible electrical equipment in the types of fixtures prescribed in "Lamp Enclosure Type" on Page 3-22 of this catalog.

In addition to the general warnings above, there are specific warnings for the HID lamp types listed below.

Metal Halide Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

In continuously-operating systems (24 hours/day, 7 days/week), turn lamps off once per week for at least 15 minutes. FAILURE TO COMPLY INCREASES THE RISK OF RUPTURE.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

High Pressure Sodium Lamps

This is a vacuum jacket lamp and may implode if broken. As a precaution, wear safety glasses and gloves when installing or removing lamp. High pressure sodium lamps are not position-sensitive and may be operated in any burning position.

Mercury Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

Mercury lamps are not position-sensitive and may be operated in any burning position.

Low Pressure Sodium Lamps

These lamps contain sodium which will ignite when exposed to water. If lamps are not disposed of properly, there is a risk of fire in the disposal vessel. Consult GE for disposal instructions.

LAMP ENCLOSURE TYPE

Use in Enclosed Fixtures. "Enclosed" fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) in accordance with UL Standard #1572 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position ±15° that are not designated "Enclosed Fixtures Only," lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

IMPORTANT NOTICE

In accordance to Federal Regulations (21 CFR 1040.30), the following notice applies to all lamps in the HID section of this catalog except High Pressure, Low Pressure Sodium Lamps, and Saf-T-Gard® Multi-Vapor Lamps.

"R WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured, and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available."

WARNING AND CAUTION NOTICES

101 - Arcstream®

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage

- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp



WARNING AND CAUTION NOTICES (CONTINUED)

102 - Arcstream® G12

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
 - Use thermally protected ballast

Lamp emits UV radiation which may cause eye/skin injury.

- Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

103 - Arcstream® Rx7s

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use in wet locations
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

104 - CMH® GU6.5, G12 and Mini

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast – see instructions

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp



WARNING AND CAUTION NOTICES (CONTINUED)

105 - CMH® HW HPS

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs. Does not apply to CMH 250/R.

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed luminaire with front cover made of glass, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with Polymeric Lens.
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

106 - CMH® HW PA

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

107 - CMH® MR16 and PAR20-30

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast - see instructions

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

108 - CMH® PAR38

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not turn on lamp until fully installed



WARNING AND CAUTION NOTICES (CONTINUED)

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken

109 - CMH® TD

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

110 - Arcstream®, Kolorarc®

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
 - Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

111 - Lucalox®

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Contains sodium – chemical burn risk

- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp



WARNING AND CAUTION NOTICES (CONTINUED)

112 - Lucalox® HO

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast - see instructions

Contains sodium – chemical burn risk

- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

113 - Mercury

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

114 - Mercury Saf-T-Gard®

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

115 - Mercury Self-Ballasted

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken



WARNING AND CAUTION NOTICES (CONTINUED)

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

116 - QMH E-rated Kr85 and CMH®

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week. Does not apply to CMH.
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

117 - QMH HOR Enclosed

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not remove base locating pin if so equipped
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

118 - QMH LW Kr85

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp



WARNING AND CAUTION NOTICES (CONTINUED)

119 - QMH Protected

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

120 - QMH Protected Kr85

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

121 - QMH S-rated

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product – see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp



WARNING AND CAUTION NOTICES (CONTINUED)

122 - QMH S-rated Kr85

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product – see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

123 - QMH S-rated Saf-T-Gard®

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product – see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

124 - Sport 1000W PAR64

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling Lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp



High Intensity Discharge Lamps

WARNING AND CAUTION NOTICES (CONTINUED)

125 - Sport MBIL-CSI-CID

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury.

- Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands

- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

HID LAMPS CROSS REFERENCE

| GE Description | Osram/Sylvania Description | Philips Description |
|---------------------------------------|---|---------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | |
| STANDARD AND ECOLUX® HPS LAMPS | | |
| Lucalox® | Lumalux® | Ceramalux™ |
| LU35/MED | LU35/MED | C35S76/M |
| LU35/D/MED | LU35/D/MED | C35S76/D/M |
| LU50/MED | LU50/MED | C50S68/M |
| LU50/D/MED | LU50/D/MED | C50S68/M |
| LU50 | LU50/ECO | C50S68/ALTO |
| LU50/D | LU50/D | C50S68/D |
| LU70/MED | LU70/MED | C70S62/M |
| LU70/D/MED | LU70/D/MED | C70S62/D/M |
| LU70/ECO | LU70/ECO | C70S62/ALTO |
| LU70/ECO/NC | LU70/PLUS/ECO | — |
| LU70/D | LU70/D | C70S62/D |
| LU100/MED | LU100/MED | C100S54/M |
| LU100/D/MED | LU100/D/MED | C100S54/D/M |
| LU100/ECO | LU100/ECO | C100S54/ALTO |
| LU100/ECO/NC | LU100/PLUS/ECO | — |
| LU100/D | LU100/D | C100S54/D |
| LU150/MED | LU150/55/MED | CC150S55/M |
| LU150/D/MED | LU150/55/D/MED | C150S55/D/M |
| LU150/55/ECO | LU150/55/ECO | C150S55/ALTO |
| LU150/ECO/NC | LU150/55/PLUS/ECO | — |
| LU150/55/D | LU150/55/D | C150S55/D |
| LU150/100 | LU150/100 | C150S56/ALTO |
| LU200/ECO | LU200/ECO | C200S66 |
| LU200/ECO/NC | LU200/PLUS/ECO | — |
| LU250/ECO | LU250/ECO | C250S50 |
| LU250/ECO/NC | LU250/PLUS/ECO | — |
| LU250/D | LU250/D | C250S50/D |

| GE Description | Osram/Sylvania Description | Philips Description |
|--|---|---------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | |
| STANDARD AND ECOLUX® HPS LAMPS (CONTINUED) | | |
| Lucalox® | Lumalux® | Ceramalux™ |
| LU310 | LU310/ECO | C310S67 |
| LU400/ECO | LU400/ECO | C400S51 |
| LU400/ECO/NC | LU400/PLUS/ECO | — |
| LU400/D | LU400/D | C400S51/D |
| LU750 | LU750 | — |
| LU1000/ECO | LU1000 | C1000S52 |
| DELUXE HIGH PRESSURE SODIUM LAMPS | | |
| Lucalox® | | Ceramalux™ |
| LU70/DX/MED | — | C70S62/C/M |
| LU150/DX/MED | — | C150S55/C/M |
| LU150/55/DX | — | C150S55/C |
| LU250/DX | — | C250S50/C |
| LU400/DX | — | C400S51/C |
| STANDBY LONGLIFE HIGH PRESSURE SODIUM LAMPS | | |
| Lucalox® | Lumalux® | Ceramalux™ |
| LU70/SBY/XL | LU70/SBY | C70S62/2 |
| LU100/SBY/XL | LU100/SBY | C100S54/2 |
| LU150/55/SBY/XL | LU150/551SBY | C150S55/2 |
| LU200/SBY/XL | LU200/100/SBY | — |
| LU250/SBY/XL | LU250/SBY | C250S50/2 |
| LU400/SBY/XL | LU400/SBY | C400S51/2 |
| LU1000/SBY/XL | LU1000/SBY | C1000S52/2 |
| EZ-LUX® HIGH PRESSURE SODIUM LAMPS | | |
| E-Z LUX® | Unalux® | Ceramalux™ |
| LUH150/EZ | ULX150 | C150S63 RETROLUX |
| LUH215/EZ | UIX215 | C215S675 RETROLUX |
| LUH360/EZ | ULX360 | C360S64 RETROLUX |



HID LAMPS CROSS REFERENCE (CONTINUED)

| GE Description | Osram/Sylvania Description | Philips Description |
|-----------------------------------|----------------------------------|-----------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | |
| CERAMIC METAL HALIDE LAMPS | | |
| CMH20/MR16/830/SP | — | — |
| CMH20/MR16/830/FL | — | — |
| CMH20/MR16/830/WFL | — | — |
| CMH20/PAR20/SP | — | — |
| CMH20/PAR20/FL | — | — |
| CMH20/PAR30/SP10 | MCP20PAR30LN/U/830/SP | — |
| CMH20/PAR30/SP15 | — | — |
| CMH20/PAR30/FL25 | MCP20PAR30LN/U/830/FL | — |
| CMH39/PAR20/830/SP10 | MCP39PAR20/U/830/SP | CDM35/PAR20/M/SP |
| CMH39/PAR20/830/FL30 | MCP39PAR20/U/830/FL | CDM35/PAR20/M/FL |
| CMH39/PAR30L/830/SP10 | MCP39PAR30LN/U/830/SP | CDM35/PAR30L/M/SP |
| CMH39/PAR30L/830/SP15 | — | — |
| CMH39/PAR30L/830/FL25 | MCP39PAR30LN/U/830/FL | CDM35/PAR30L/M/FL |
| CMH70/PAR30L/830/SP15 | MCP70PAR30LN/U/830/SP | CDM70/PAR30L/M/SP |
| CMH70/PAR30L/830/FL40 | MCP70PAR30LN/U/830/FL | CDM70/PAR30L/M/FL |
| CMH70/PAR38/830/SP15 | MCP70PAR38/U/830/SP | CDM70/PAR38/SP/3K |
| CMH70/PAR38/830/FL25 | MCP70PAR38/U/830/FL | CDM70/PAR38/FL/3K |
| CMH70/PAR38/830/WFL | MCP70PAR38/U/830/WFL | CDM70/PAR38/WFL/3K |
| CMH100/PAR38/830/SP15 | MCP100PAR38/U/830/SP | CDM100/PAR38/SP/3K |
| CMH100/PAR38/830/FL25 | MCP100PAR38/U/830/FL | CDM100/PAR38/FL/3K |
| CMH100/PAR38/830/WFL | MCP100PAR38/U/830/WFL | CDM100/PAR38/WFL/3K |
| CMH70/U/830/MED | MCP70/U/MED/830 | MHC70/U/M/3K |
| CMH70/C/U/830/MED | MCP70/C/U/MED/830 | MHC70/C/U/M/3K |
| CMH100/U/830/MED | MCP100/U/MED/830 | MHC100/U/M/3K |
| CMH100/C/U/830/MED | MCP100/C/U/MED/830 | MHC100/C/U/M/3K |
| CMH70/U/830/MED/O | MCP70/U/MED/830 | MHC70/U/MP/3K/ALTO |
| CMH70/C/U/830/MED/O | MCP70/C/U/MED/830 | MHC70/C/U/MP/3K/ALTO |
| CMH70/U/942/MED/O | — | MHC70/U/MP/4K/ALTO |
| CMH70/C/U/942/MED/O | — | MHC70/C/U/MP/4K/ALTO |
| CMH150/U/830/MED/O | MCP150/U/MED/830 | MCH150/U/MP/3K/ALTO |
| CMH150/C/U/830/MED/O | MCP150/C/U/MED/830 | MHC150/C/U/MP/3K/ALTO |
| CMH150/U/942/MED/O | — | MHC150/U/MP/4K/ALTO |
| CMH150/C/U/942/MED/O | — | MHC150/C/U/MP/4K/ALTO |
| CMH20/T/U/830/G12 | — | — |
| CMH39/T/U/830/G12 | MC39T6/U/G12/830 | CDM35/T6/830 |
| CMH39/TC/U/942/G12 | MC39T6/U/G12/940 | — |
| CMH70/T/U/830/G12 | MC70T6/U/G12/830 | CDM70/T6/830 |
| CMH70/T/U/942/G12 | MC70T6/U/G12/940 | CDM70/T6/942 |
| CMH150/T/U/830/G12 | MC150T6/U/G12/830 | CDM150/T6/830 |
| CMH150/T/U/942/G12 | MC150T6/U/G12/940 | CDM150/T6/942 |
| CMH70/TD/830/Rx7s | MC70T6/DE/830 | CDM70/TD/830 |
| CMH70/TD/942/Rx7s | — | CDM70/TD/942 |
| CMH150/TD/830/Rx7s | MC150T6/DE/830 | CDM150/TD/830 |
| CMH150/TD/942/Rx7s | — | CDM150/TD/942 |

| GE Description | Osram/Sylvania Description | Philips Description |
|--|----------------------------------|---------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | |
| CERAMIC METAL HALIDE LAMPS (CONTINUED) | | |
| CMH250/PA/O-SPXX | MCP250/PS/BU-only/940 | — |
| CMH320/PA/O-SPXX | MCP320/PS/BU/840/BT37 | CDM320/V/O/PS/4K |
| CMH350/PA/O-SPXX | — | CDM350/V/O/PS/4K |
| CMH400/BU/PA/O-SPXX | — | CDM350/V/O/PS/4K |
| CMH20/TC/U/830/GU6.5 | — | — |
| CMH20/TC/U/830/G8.5 | MC20TC/U/G8.5/830 | — |
| CMH39/TC/U/830/G8.5 | MC39TC/U/G8.5/830 | CDM35/TC/830 |
| CMH39/TC/U/942/G8.5 | MC39TC/U/G8.5/942 | CDM35/TC/942 |
| CMH70/TC/U/830/G8.5 | MC70TC/U/G8.5/830 | CDM70/TC/830 |
| CMH70/TC/U/942/G8.5 | MC70TC/U/G8.5/942 | CDM70/TC/942 |
| MULTI-VAPOR® PULSEARC® METAL HALIDE LAMPS | | |
| MXR32C/VBU | — | — |
| MXR50/U/MED | MP50/U/MED | MH50/U/M |
| MXR50/C/U/MED | MP50/C/U/MED | MH50/C/U/M |
| MXR70/U/MED | MH70/U/MED | MHC70/U/M/3K |
| MXR70/C/U/MED | MH70/C/U/MED | MHC70/C/U/M/3K |
| MXR70/U/MED/O | MP70/U/MED | MHC70/C/U/M/3K |
| MXR70/C/U/MED/O | MP70/C/U/MED | MHC70/C/U/M/3K |
| MXR100/U/MED | M100/U/MRD | MHC100/U/M/3K |
| MXR100/C/U/MED | MH100/C/U/MED | MHC100/C/U/M/3K |
| MVR100/U/MED | MH100/U/4K/MED | MHC100/U/M/4K |
| MVR100/C/U/MED | — | MHC100/C/U/M/4K |
| MXR100/U/MED/O | MP100/U/MED | MHC100/U/M/3K |
| MXR100/C/U/MED/O | MP100/C/U/MED | MHC100/C/U/M/3K |
| MXR150/U/MED | M150/U/MED | MH150/U/M |
| MXR150/C/U/MED | M150/C/U/MED | MH150/C/U/M |
| MVR175/VBU/PA | MS175/PS/BU | MS175/BU/PS |
| MVR175/C/VBU/PA | MS175/C/PS/BU | — |
| MVR250/VBU/PA | MS250/PS/BU | MS250/BU/PS |
| MVR250/C/VBU/PA | MS250/C/PS/BU | — |
| MVR320/VBU/HO/PA | MS320/PS/BU | MS320/BU/PS |
| MVR320/C/VBU/HO/PA | MS320/C/PS/BU-HOR | MS320/C/BU/PS |
| MPR320/VBU/XHO/PA | MP320/350/PS/BU | MP320/BU/PS |
| MPR320/C/VBU/XHO/PA | MP320/350/C/PS/BU | MP320/C/BU/PS |
| MPR350/VBU/PA | MP320/350/PS/BU | MP350/BU/PS |
| MPR350/C/VBU/PA | MP320/350/C/PS/BU | MP350/C/BU/PS |
| MPR400/VBU/XHO/PA | MP350/400/PS/BU | MP400/BU/PS |
| MPR400/C/VBU/XHO/PA | MP350/400/C/PS/BU | MP400/C/BU/PS |
| MVR750/VBU/PA | MS750/PS/BU-HOR/BT37 | — |
| MVR750/C/VBU/PA | MS750/C/PS/BU-HOR/BT37 | — |
| MVR1000/BT37/PA | M1000/PS/U/BT37 | MS1000/BU/BT37/PS |



High Intensity Discharge Lamps

HID LAMPS CROSS REFERENCE (CONTINUED)

| <i>GE Description</i> | <i>Osram/Sylvania Description</i> | <i>Philips Description</i> |
|---|---|----------------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | |
| MULTI-VAPOR® STANDARD METAL HALIDE LAMPS | | |
| MVR175/U/MED | M175/U/MED | MH175/U/M |
| MVR175/C/U/MED | M175/C/U/MED | MH175/C/U/M |
| MVR175/U | M175/U | MH175/U |
| MVR175/C/U | M175/C/U | MH175/C/U |
| MVR175/HOR | MS175/HOR | MS175/HOR |
| MVR175/C/HOR | MS175/C/HOR | MS175/C/HOR |
| MVR250/U | M250/U | MH250/U |
| MVR250/C/U | M250/C/U | MH250/C/U |
| MVR250/SP30/U | M2503K/BU-only | MH250/3K/BU |
| MVR250/HOR | MS250/HOR | MS250/HOR |
| MVR250/C/HOR | MS250/C/HOR | MS250/C/HOR |
| MVR400/U | M400/U | MH400/U |
| MVR400/C/U | M400/C/U | MH400/C/U |
| MVR400/SP30/U | MS400/BU | MH400/3K/U |
| MVR400/VBU | MS400/BU | MS400/BU |
| MVR400/VBD | MS400/BD | — |
| MVR400/C/VBU | MS400/C/BU | MS400/C/BU& |
| MVR400/C/VBD | MS400/C/BD | — |
| MVR400/HOR | MS400/HOR | MS400/HOR |
| MVR400/C/HOR | MS400/C/HOR | MS400/C/HOR |
| MVR400/SP30/HOR | MS400/3K/HOR | — |
| MPR400/U | MP400/BU | MP400/U |
| MPR400/VBU | MP400/BU/BD | — |
| MVR1000/U | M1000/U | MH1000/U |
| MVR1000/C/U | M1000/C/U | MH1000/C/U |
| MVR1000/VBU | MS1000/BU | MS1000/BU |
| MPR1000/VBU/O | MP1000/BU | MP1000/BU |
| MVR1500/U/SPORTS | M1500/BU-HOR | MH1500BU |
| DOUBLE-ENDED LAMPS | | |
| ARC70/TD/730/R7S | HQI-DE70/WDX | CDM70/TD/830 |
| ARC70/TD/743/R7S | — | MHN70/TD/840 |
| ARC150/TD/730/R7S | HQI-DE150/WDX | CDM150/TD/830 |
| ARC150/TD/742/R7S | HQI-DE150/NDX | MHN150/TD/840 |
| SAFETY METAL HALIDE LAMPS | | |
| MVT400/VBU | MPT400/BU | MHT400/U |
| MVT400/C/VBU | MPT400/C/BU | MHT400/C/U |

| <i>GE Description</i> | <i>Osram/Sylvania Description</i> | <i>Philips Description</i> |
|---|---|----------------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | |
| MERCURY VAPOR LAMPS | | |
| HR40/50DX45-46 | H45/46DL-40/50/DX | H46DL-40-50/DX |
| HR75DX43 | H43AV-75/DX | H43AV-75/DX |
| HR75/100PFL43-44 | — | — |
| HR100DX38/E17 | — | — |
| HR100A38/A23 | — | — |
| HR100DX38/A23 | H38AV-100/DX | H38MP-100/DX |
| HR100A38 | H38HT-100 | H38HT-100 |
| HR100DX38 | H38JA-100/DX | H38JA-100/DX |
| HT100DX38 | H38JA-T100/DX | H38JA-T100/DX |
| HR100WDX38 | H38JA-100/N | — |
| HR100RFL38 | — | — |
| HR100RDXFL38 | H38BP-100/DX | H38BP-100/DX |
| HR100PSP44 | H44GS-100 | H44GS-100 |
| HR100PFL44 | H44JM-100 | — |
| HR175A39 | H39KB-175 | H39KB-175 |
| HR175DX39 | H39KC-175/DX | H39KC-175/DX |
| HT175DX39 | H39KC-T175/DX | H39KC-T175 |
| HR175WDX39 | H39KC-175/N | — |
| HR175RFL39 | — | H39BM-175 |
| HR175RDXFL39 | H39BP-175/DX | H39BP-175/DX |
| HR250A37 | H37KB-250 | H37KB-250 |
| HR250DX37 | H37KC-250/DX | H37KC-250/DX |
| HT250DX37 | H37KC-T250/DX | H37KC-T250/DX |
| HR250WDX37 | H37KC-250/N | — |
| HR400A33 | H33CD-400 | H33CD-400 |
| HR400DX33 | H33GL-400/DX | H33GL-400/DX |
| HR400DX33BT | — | — |
| HT400DX33 | H33GL-T400/DX | H33GL-T400/DX |
| HR400WDX33 | H33GL-400/N | — |
| HR400R33 | — | — |
| HR400RDX33 | — | H33DN-400/DX |
| HR400RDXFL33 | — | H33FS-400/DX |
| HR400RSP33 | — | — |
| HR400A33/T16 | H33AR-400 | — |
| HR700DX35 | — | H35ND-700/DX |
| HR1000DX34 | H34GV-1000 | — |
| HR1000DX34 | H34GW-1000/DX | H34GW-1000/DX |
| HR1000A36 | H36GV-1000 | H36GV-1000 |
| HR1000DX36 | H36GW-1000/DX | H36GW-1000/DX |
| HT1000DX36 | H36GW-T1000/DX | H36GW-T1000/DX |
| SELF-BALLASTED MERCURY VAPOR LAMPS | | |
| HSB160/M | — | — |
| HSB250 | — | S250E28/DX |
| HSB250/M | — | S250E28/DX/M |
| HSB450 | — | S450BT37/C |
| HSB750R/120 | — | S750R57 |



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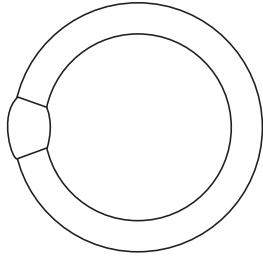
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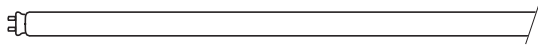
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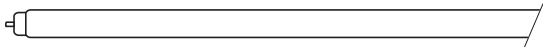
LAMP LOCATOR (NOT DRAWN TO SCALE)



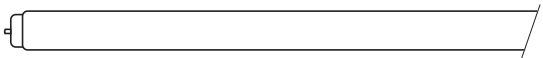
T9 Circline (1 1/8" diameter) 4-Pin Base (G10q)



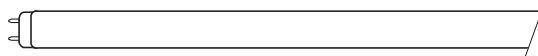
T5 (5/8" diameter) Miniature Bipin Base (G5)



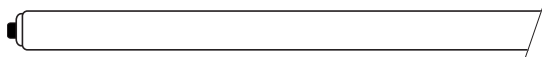
T6 (3/4" diameter) Single Pin Base (Fa8)



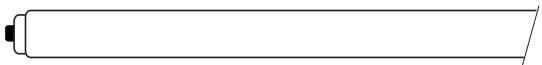
T8 (1" diameter) Single Pin Base (Fa8)



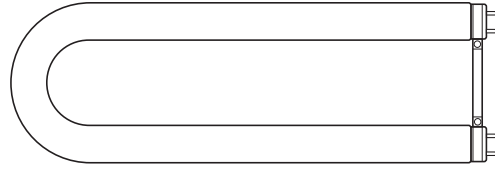
T8 (1" diameter) Medium Bipin Base (G13)



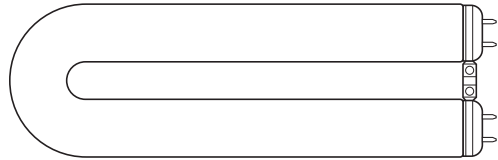
T8 (1" diameter) Recessed Double Contact Base (R17d)



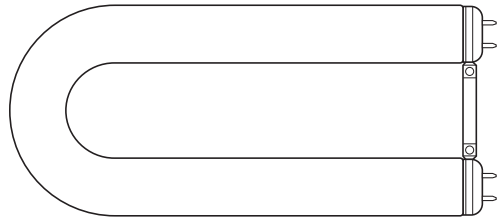
T10 (1 1/4" diameter) Recessed Double Contact Base (R17d)



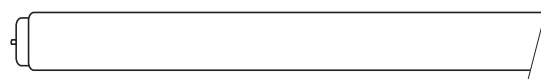
Mod-U-Line® T8/U6 (1" diameter) Medium Bipin Base (G13)



Mod-U-Line® T12/U3 (1 1/2" diameter) Medium Bipin Base (G13)



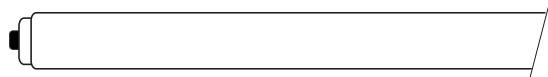
Mod-U-Line® T12/U6 (1 1/2" diameter) Medium Bipin Base (G13)



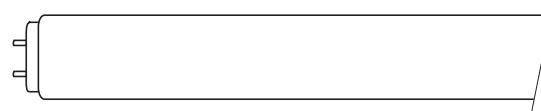
T12 (1 1/2" diameter) Single Pin Base (Fa8)



T12 (1 1/2" diameter) Medium Bipin Base (G13)



T12 (1 1/2" diameter) Recessed Double Contact Base (R17d)



T17 (2 1/8" diameter) Mogul Bipin (G20)



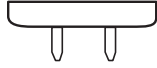
Power Groove® (2 1/8" diameter) Recessed Double Contact Base (R17d)



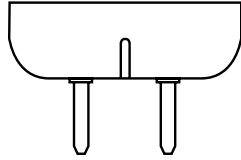
BASE IDENTIFICATION



Min Bipin
G5



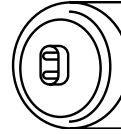
Med Bipin
G13



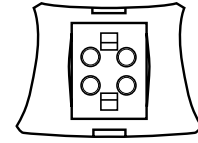
Mog Bipin
G20



Single Pin
Fa8



Recessed Double Contact
R17d



4-Pin
G10q
(Circline)

INTRODUCTION

GE introduced the first fluorescent lamp in 1939. Today, these lamps have become almost a universal standard in office and other lighting applications. The characteristics of fluorescent lamps vary widely according to the lamp type. In general, fluorescent lamps have the following advantages:

- Low Operating Cost:**
 Efficient, fluorescent lamps can cost significantly less to operate over their lifetime than incandescent lamps. Many common linear fluorescent lamps now have energy saving versions often designated in this catalog by Watt-Miser® (WM).
- Long Life:**
 Life ratings for fluorescent lamps range from 6000 to 30,000 hours based on the industry standard of 3 burning hours per start, except where noted.
- Light Quality:**
 GE Starcoat® T5 and T8 lamps offer higher color rendering and lumen maintenance of 95%.
- Flexibility:**
 Fluorescent lamps are available in a wide range of sizes, shapes, color performance, and wattage ratings.
- Fast Starting:**
 Rapid-Start and Instant-Start lamps typically start within 1 second of being turned on.

FLUORESCENT BRAND NAME CROSS-REFERENCE

| GE | OSRAM/SYLVANIA | PHILIPS |
|-----------------------------|------------------------|-----------------------------|
| Aquarium/Terrarium | — | — |
| Chroma 50 | Design 50® | Colortone 50 |
| CovrGuard® | — | — |
| Ecolux® | Ecologic | Alto |
| Gro & Sho™/Plant & Aquarium | GRO-LUX® | Agro-Lite |
| Kitchen and Bath ULTRA™ | Interior Design® (D30) | Softone Pastel FL (SPEC.30) |
| Mod-U-Line® | Curvalume® | U-Bent |
| Power Groove® | — | — |
| Specification Series (SP) | Designer® Series (D) | SPEC Series |
| Specification Series (SPX) | Designer® "800" Series | Ultralume™ |
| Starcoat® | — | — |
| T5 | Pentron® | Silhouette™ |
| T8 | Octron® | TL70/TL80™ |
| T10/1500MA | VHO/LT | — |
| /1500 | VHO | VHO |
| Watt-Miser® | SuperSaver® | Econ-o-Watt |
| Watt-Miser® Plus | SuperSaver Plus® | — |
| XL | XP | Advantage |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturer's performance specifications and product offerings should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

See www.gelighting.com e-Catalog for a comprehensive cross-reference tool.



PRODUCT INFORMATION

GE T5 STARCOAT® ECOLUX® LAMPS (pgs 4-7 to 4-8)

- Used in a variety of applications from indirect fixtures in commercial office buildings to warehouses and manufacturing facilities
- Many combinations of wattage and length provide flexibility of fixture design and ceiling layout
- Longer rated life at 30,000 hours
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE T8 STARCOAT® ECOLUX® LAMPS (pgs 4-8 to 4-9 and 4-27)

- More light over life – 95% lumen maintenance
- Enhanced color rendering... available in 700 and 800 series
- High system efficiency, relative to T12, delivers significant energy cost savings
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE STARCOAT® ECOLUX® XL EXTRA-LIFE LAMPS (pgs 4-8 to 4-9)

- Same great features of the T8 Starcoat® Ecolux®... with longer life... up to 20% longer than standard T8 lamps

ULTRA~T8 REPLACEMENT (ENERGY-SAVING ALTERNATIVE) GE T8 30W WATT-MISER® (pg 4-9)

- Energy-saving replacement lamp for all standard T8's on Instant Start Ballast systems
- Up to 5% savings over 32W T8 systems with maintained light levels
- Operates on any standard T8 Instant Start Ballast
- Also approved for use on GE UltraStart PRS Ballast
- Available in XL version – 20% longer life than standard T8 lamps
- All T8 Watt-Miser® lamps are TCLP Compliant and may reduce disposal costs
- 80+ CRI (Color Rendering Index)

ULTRA~T12 RETROFIT (ENERGY-SAVING ALTERNATIVE) GE T8 28W ULTRAMAX® (pg 4-9)

- Highly efficient T8 system utilizing the new 28W T8 lamp designed for optimal use on the GE UltraMax® ballast product family
- Operates on any standard T8 Instant Start Ballast
- Also approved for use on GE UltraStart PRS Ballast
- 80+ CRI (Color Rendering Index) and TCLP Compliant

ULTRA~NEW CONSTRUCTION (ENERGY-SAVING ALTERNATIVE) GE T8 32W HIGH LUMEN LAMPS (HL) (pg 4-10)

- 5-8% more lumens than GE 32W T8 SP and SPX
- 3100 initial lumens allows you to increase light levels over a standard T8 or the option to implement a de-lamp or de-fixture strategy
- 20% longer life over GE F32T8
- 80+ CRI (Color Rendering Index) and TCLP Compliant

GE T8 MOD-U-LINE® U-SHAPED FLUORESCENT LAMPS (pg 4-11)

- Primarily used in 2x2 fixtures with prismatic or parabolic lenses
- Lower energy cost... 36% energy cost savings vs. F40T12 U-Tubes
- Longer lamp life than T12 Mod-U-Line® – 20,000 hours
- 700 and 800 Series

GE 8' T8 LAMPS (pg 4-10)

- One of the most efficient fluorescent products available, up to 97 lumens per watt (LPW)
- Single-pin based lamps designed to operate on Instant Start Ballast
- Available in longer life (XL) versions... up to 17% longer life

GE 8' T8 WATT-MISER® (XL) EXTRA LIFE LAMPS (ENERGY-SAVINGS ALTERNATIVE) (pg 4-10)

- Extra-life... lasts 17% longer than standard F96T8 lamps for reduced lamp replacement and maintenance cost
- Maximum energy savings... up to 3.5% less energy consumed than standard F96T8 lamps
- Same light output as standard lamps
- Excellent color... color enhanced SP and SPX versions
- New Watt-Miser® Plus lamp reduces wattage to 54W per lamp

GE 8' T8 HIGH OUTPUT LAMPS (pg 4-10)

- High system efficiency delivers 38% energy cost savings
- 50% longer life than T12 high output lamps
- Wide choice of color options
- Operate at 400mA

GE 4' T12 ECOLUX® RAPID START LAMPS (pgs 4-12 to 4-13 and 4-29)

- Popular for commercial lighting
- Upgrade new and existing facilities easily... change the lamp to SP/SPX color-improved lamps, available in Watt-Miser® version
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE 4' T12 WATT-MISER® ECOLUX® ENERGY-SAVING LAMPS (WM) (pg 4-12 to 4-13 and 4-28 to 4-29)

- Energy-saving replacement for all standard T12 fluorescent lamps
- 12% to 20% savings in energy costs vs. standard fluorescent
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE T12 MOD-U-LINE® U-SHAPED LAMPS (pgs 4-14 and 4-28)

- Available in standard and Watt-Miser® versions
- Operate on standard or electronic Rapid Start Ballasts

GE T12 HIGH OUTPUT LAMPS (pgs 4-16 to 4-17 and 4-29)

- High light output and long life
- Produces about 45% more initial lumens than standard lamps of the same size
- Usually operated at 800mA

GE T12 VERY HIGH OUTPUT LAMPS (pg 4-17)

- Where high light levels are required – factories, warehouses, gymnasiums, open areas
- Rapid Start, operated at 1500mA



PRODUCT INFORMATION (CONTINUED)

COVRGUARD® SHATTER PROTECTED FLUORESCENT LAMPS (pgs 4-19 to 4-23 and 4-30)

- Polycarbonate shield effectively contains shattered glass particles if lamp is broken, protecting people, food and other valuable items
- UV blocking properties guard against fading and UV degradation
- Available in a variety of colors for decorative and architectural applications
- The covRguard® feature is available on nearly all fluorescent lamps

GE COLD-TEMPERATURE LAMPS (pg 4-23 to 4-24)

- Specifically designed for cold temperature applications such as freezers and coolers, display cases and outdoor areas
- Available in T8, T10 and T12 versions
- Rated nominal watts and initial lumens are peak values. Actual watt and lumen values may be somewhat lower in service, depending on ambient conditions.

GE APPLIANCE LAMPS (pg 4-24 to 4-25)

- Designed for intermittent service in appliances such as oven hoods and microwaves

GE BLACKLIGHT AND REPROGRAPHIC (pgs 4-25 and 4-30)

- Blacklight (BL) lamps are commonly used in insect traps
- Blacklight Blue (BLB) lamps are often used decoratively in disco lighting and theatrical applications. These lamps are produced with a special dark blue glass that filters most visible light.
- The Diazo lamp emits a blue light, peaking at approximately 417nm which is used primarily in reprographic equipment

GE CINEMA FLUORESCENT LAMPS (See Stage and Studio Section)

- Specifically designed to be used in cinematography applications and are color corrected to match the spectral sensitivity of film
- For more information and product details, visit the Stage & Studio section of this catalog

GE GOLD LAMPS (pgs 4-25 to 4-26)

- Effectively blocks all UV emissions below 520nm
- Available in covRguard®
- Used in photo-sensitive applications such as semi-conductor assembly and darkrooms

GE GERMICIDAL LAMPS (pg 4-26)

- Clear lamps with special UV transmitting glass
- The 254nm radiation penetrates and inactivates the DNA of most micro-organisms
- Used in air, water and surface purification applications

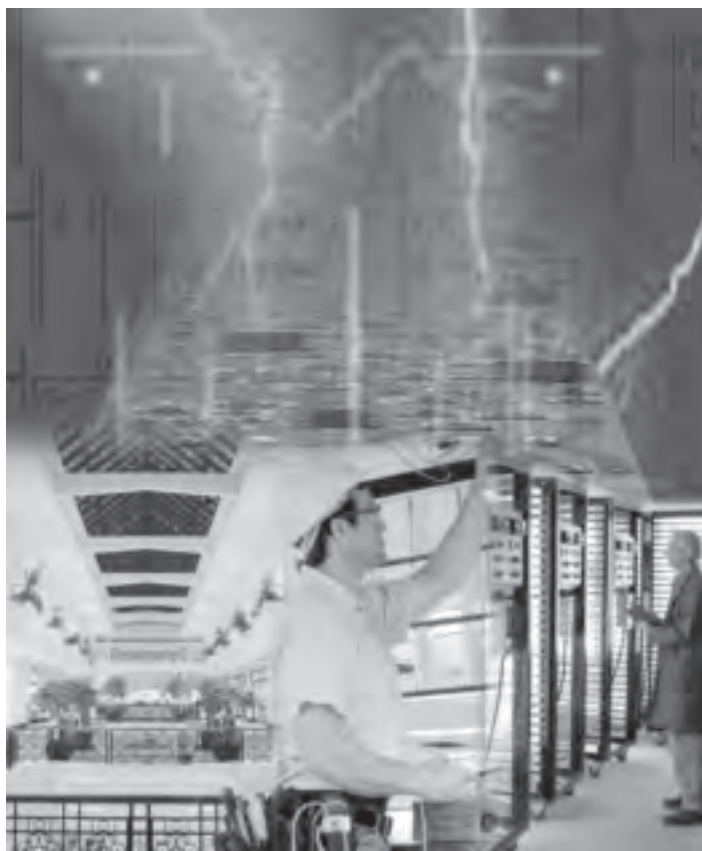
GE BALLASTS

Energy efficiency and high performance make GE Electronic Ballasts and GE Fluorescent Lamps the perfect match for total performance.

- Energy efficient – GE offers a highly efficient system to dramatically reduce electricity costs... GE UltraMax® Ballasts
 - Outstanding quality
 - Technical hotline provides specification and application support
 - Electromagnetic, HID, CFL, and Sign ballasts also available from GE
- See **GE Ballast System Catalog** for more information.

ULTRAMAX® BALLAST (pgs 4-36 to 4-37)

- The GE UltraMax® Ballast can be used with F32T8, F32T8/WM, and F28T8/UMX lamps. The UltraMax™ Ballast is Multi-Voltage for use in 120V and 277V applications.
- The UltraMax® Ballast is available in low (.77), normal (.87), and high (1.15) ballast factors.
- The UltraMax® Ballast is equipped with ArcGuard Protection, UL Type CC Anti-Arc Rating, and Striation Control.





Fluorescent Lamps

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage, then bulb, and then by base. There are exceptions to this ordering among the specialty lamps listed.

Order Code:

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Mean Lumens:

Lamp light output at 40% of rated lamp life.

Color Temperature Kelvins (K):

A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.

Nominal Length in.:

Lamp length including base and/or pins.

Initial Lumens:

Lamp light output after the initial 100 hours of operation.

Color Rendering Index (CRI or Ra):

An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Watts:

Energy used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Bulb:

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Base:

The type of base.

Rated Life - Hours:

Lamp burning hours to median life expectancy.

Case Quantity:

Number of product units packed in a case.

Description:

The lamp's identification code.



Means this lamp meets Federal Minimum Efficiency Standards.

Indicates that this is a lamp with high color rendering, which helps objects and persons illuminated to appear more true to life.

Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

Additional Information:

Typical application and/or other important information.

| Bulb | Base | Watts | Nominal Length in. | Order Code | Description | Case Qty. | Rated Life (hours) | Color Lumens | | Warning and Cautions | Additional Information | |
|---------------------------------------|--------------------|-------|--------------------|------------|-----------------|-----------|--------------------|--------------|------|----------------------|------------------------|--|
| | | | | | | | | Initial | Mean | | | |
| T8 STARCOAT® LAMPS | | | | | | | | | | | | |
| 3' T8 ECOLUX® - TCLP COMPLIANT | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 25 | 36 | 45753 | F25T8/SPX30/ECO | 24 | 20000 | 2150 | 2040 | 3000 | 86 | |

F 25 T8 / SPX30 / ECO

Identifies as Fluorescent lamp.

Identifies either the lamp's wattage or its length in inches.

Identifies the lamp shape and the bulb diameter in eighths of an inch.

Identifies the lamp finish or color.

Identifies TCLP compliance.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using table on page 4-2.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 4-3.
4. Find your lamp in the table containing the bulb shape, size and base.

GE T8 ULTRA "ENERGY SAVING PRODUCTS"

REPLACEMENT FOR T8

F32T8/SP/IS/WM/ECO
F32T8/XL/SP/WM/ECO

Replace F32T8 lamps with the F32T8/WM. Up to 5% is saved instantly. For greater savings use F28T8/UMX lamps.

RETROFIT FOR T12

F28T8/SP/UMX/ECO

Retrofit 4' T12 Systems with the 28W T8 UltraMax®. The ultimate in energy efficiency. Over 40% savings realized.

NEW CONSTRUCTION

F32T8/XL/SPX/HL/ECO

De-lamp or use fewer fixtures in new construction. Higher light output means fewer total lamps may be needed to achieve desired footcandle levels. 5-6% higher lumens versus standard T8.



| Bulb Base | Nominal Length Watts in. | Order Code | Description | Case Qty. | Rated Life | | Lumens | | Color Temp. | | Foot- notes | Warning and Cautions Additional Information | |
|----------------------------------|-----------------------------|------------|-----------------|-----------|---------------|----------------|---------|------|-------------|-----|----------------|--|-----|
| | | | | | 3hr/ Start | 12hr/ Start | Initial | Mean | K | CRI | | | |
| T5 STARCOAT ECOLUX® LAMPS | | | | | | | | | | | | | |
| HIGH EFFICIENCY | | | | | | | | | | | | | |
| T5 Miniature BiPin (G5) | 14 21.6 | 31590 | F14W/T5/830/ECO | 40 | 30000 | 36000 | 1350 | 1240 | 3000 | 85 | ⊕ | 19 | 101 |
| | | 46671 | F14W/T5/835/ECO | 40 | 30000 | 36000 | 1350 | 1240 | 3500 | 85 | ⊕ | 19 | 101 |
| | | 46673 | F14W/T5/841/ECO | 40 | 30000 | 36000 | 1350 | 1240 | 4100 | 85 | ⊕ | 19 | 101 |
| | | 46674 | F14W/T5/850/ECO | 40 | 30000 | 36000 | 1300 | 1190 | 5000 | 85 | ⊕ | 19 | 101 |
| | | 46676 | F14W/T5/865/ECO | 40 | 30000 | 36000 | 1250 | 1150 | 6500 | 85 | ⊕ | 19 | 101 |
| | 21 33.4 | 46677 | F21W/T5/830/ECO | 40 | 30000 | 36000 | 2100 | 1930 | 3000 | 85 | ⊕ | 19 | 101 |
| | | 46684 | F21W/T5/835/ECO | 40 | 30000 | 36000 | 2100 | 1930 | 3500 | 85 | ⊕ | 19 | 101 |
| | | 46687 | F21W/T5/841/ECO | 40 | 30000 | 36000 | 2100 | 1930 | 4100 | 85 | ⊕ | 19 | 101 |
| | | 46688 | F21W/T5/850/ECO | 40 | 30000 | 36000 | 2000 | 1840 | 5000 | 85 | ⊕ | 19 | 101 |
| | | 46689 | F21W/T5/865/ECO | 40 | 30000 | 36000 | 1950 | 1790 | 6500 | 85 | ⊕ | 19 | 101 |
| | 28 45.2 | 46704 | F28W/T5/830/ECO | 40 | 30000 | 36000 | 2900 | 2660 | 3000 | 85 | ⊕ | 19 | 101 |
| | | 46705 | F28W/T5/835/ECO | 40 | 30000 | 36000 | 2900 | 2660 | 3500 | 85 | ⊕ | 19 | 101 |
| | | 46706 | F28W/T5/841/ECO | 40 | 30000 | 36000 | 2900 | 2660 | 4100 | 85 | ⊕ | 19 | 101 |
| | | 46707 | F28W/T5/850/ECO | 40 | 30000 | 36000 | 2750 | 2530 | 5000 | 85 | ⊕ | 19 | 101 |
| | | 46708 | F28W/T5/865/ECO | 40 | 30000 | 36000 | 2700 | 2480 | 6500 | 85 | ⊕ | 19 | 101 |
| | 35 57.1 | 46724 | F35W/T5/830/ECO | 40 | 30000 | 36000 | 3650 | 3350 | 3000 | 85 | ⊕ | 19 | 101 |
| | | 46727 | F35W/T5/835/ECO | 40 | 30000 | 36000 | 3650 | 3350 | 3500 | 85 | ⊕ | 19 | 101 |
| | | 46735 | F35W/T5/841/ECO | 40 | 30000 | 36000 | 3650 | 3350 | 4100 | 85 | ⊕ | 19 | 101 |
| | | 46742 | F35W/T5/850/ECO | 40 | 30000 | 36000 | 3500 | 3220 | 5000 | 85 | ⊕ | 19 | 101 |
| | | 46743 | F35W/T5/865/ECO | 40 | 30000 | 36000 | 3400 | 3120 | 6500 | 85 | ⊕ | 19 | 101 |
| HIGH OUTPUT | | | | | | | | | | | | | |
| T5 Miniature BiPin (G5) | 24 21.6 | 46699 | F24W/T5/830/ECO | 40 | 30000 | 36000 | 2000 | 1840 | 3000 | 85 | ⊕ | 19 | 101 |
| | | 46700 | F24W/T5/835/ECO | 40 | 30000 | 36000 | 2000 | 1840 | 3500 | 85 | ⊕ | 19 | 101 |
| | | 46701 | F24W/T5/841/ECO | 40 | 30000 | 36000 | 2000 | 1840 | 4100 | 85 | ⊕ | 19 | 101 |
| | | 46702 | F24W/T5/850/ECO | 40 | 30000 | 36000 | 1900 | 1740 | 5000 | 85 | ⊕ | 19 | 101 |
| | | 46703 | F24W/T5/865/ECO | 40 | 30000 | 36000 | 1900 | 1740 | 6500 | 85 | ⊕ | 19 | 101 |
| | 39 33.4 | 46744 | F39W/T5/830/ECO | 40 | 30000 | 36000 | 3500 | 3220 | 3000 | 85 | ⊕ | 19 | 101 |
| | | 46745 | F39W/T5/835/ECO | 40 | 30000 | 36000 | 3500 | 3220 | 3500 | 85 | ⊕ | 19 | 101 |
| | | 46746 | F39W/T5/841/ECO | 40 | 30000 | 36000 | 3500 | 3220 | 4100 | 85 | ⊕ | 19 | 101 |
| | | 46747 | F39W/T5/850/ECO | 40 | 30000 | 36000 | 3350 | 3080 | 5000 | 85 | ⊕ | 19 | 101 |
| | | 46748 | F39W/T5/865/ECO | 40 | 30000 | 36000 | 3330 | 3060 | 6500 | 85 | ⊕ | 19 | 101 |
| | 54 45.2 | 46759 | F54W/T5/830/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 3000 | 85 | ⊕ | 19 | 101 |
| | | 46760 | F54W/T5/835/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 3500 | 85 | ⊕ | 19 | 101 |
| | | 46761 | F54W/T5/841/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 4100 | 85 | ⊕ | 19 | 101 |
| | | 46762 | F54W/T5/850/ECO | 40 | 30000 | 36000 | 4800 | 4410 | 5000 | 85 | ⊕ | 19 | 101 |
| | | 46763 | F54W/T5/865/ECO | 40 | 30000 | 36000 | 4750 | 4370 | 6500 | 85 | ⊕ | 19 | 101 |
| | 49 57.1 | 46751 | F49W/T5/830/ECO | 40 | 30000 | 36000 | 4900 | 4500 | 3000 | 85 | ⊕ | 19 | 101 |
| | | 46752 | F49W/T5/835/ECO | 40 | 30000 | 36000 | 4900 | 4500 | 3500 | 85 | ⊕ | 19 | 101 |
| | | 46753 | F49W/T5/841/ECO | 40 | 30000 | 36000 | 4900 | 4500 | 4100 | 85 | ⊕ | 19 | 101 |
| | | 46757 | F49W/T5/850/ECO | 40 | 30000 | 36000 | 4700 | 4320 | 5000 | 85 | ⊕ | 19 | 101 |
| | | 46758 | F49W/T5/865/ECO | 40 | 30000 | 36000 | 4650 | 4270 | 6500 | 85 | ⊕ | 19 | 101 |
| | 80 57.1 | 46802 | F80W/T5/830/ECO | 40 | 30000 | 36000 | 7000 | 6440 | 3000 | 85 | ⊕ | 19 | 101 |
| | | 46803 | F80W/T5/835/ECO | 40 | 30000 | 36000 | 7000 | 6440 | 3500 | 85 | ⊕ | 19 | 101 |
| | | 46804 | F80W/T5/841/ECO | 40 | 30000 | 36000 | 7000 | 6440 | 4100 | 85 | ⊕ | 19 | 101 |
| | | 46805 | F80W/T5/850/ECO | 40 | 30000 | 36000 | 6700 | 6160 | 5000 | 85 | ⊕ | 19 | 101 |
| | | 46806 | F80W/T5/865/ECO | 40 | 30000 | 36000 | 6650 | 6110 | 6500 | 85 | ⊕ | 19 | 101 |



Fluorescent Lamps

| Bulb Base | Nominal Length Order | Watts | in. | Code | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot-notes | Warning and | | Additional Information | |
|---------------------------------------|----------------------|-------|-----|-------|--------------------|-----------|------------|-------------|---------|---------|-----------------|-------------|------------|-------------|-------------|------------------------|------------------------|
| | | | | | | | | Initial | Mean | Temp. K | CRI | Foot-notes | | Cautions | | | |
| T5 PREHEAT LAMPS | | | | | | | | | | | | | | | | | |
| 6" T5 | | | | | | | | | | | | | | | | | |
| T5 | Miniature BiPin (G5) | 4 | 6 | 10004 | F4T5/CW | 24 | 5000 | 135 | 100 | 4100 | 60 | | | | 101 | | |
| | | | | 15983 | F4T5/CW CARD | 10 | 5000 | 135 | 100 | 4100 | 60 | | | | 101 | | |
| 9" T5 | | | | | | | | | | | | | | | | | |
| T5 | Miniature BiPin (G5) | 6 | 9 | 10032 | F6T5/CW | 24 | 5000 | 295 | 235 | 4100 | 60 | | | | 101 | | |
| | | | | 15986 | F6T5/CW CARD | 10 | 5000 | 295 | 235 | 4100 | 60 | | | | 101 | | |
| | | | | 10028 | F6T5/D | 24 | 5000 | 230 | 185 | 6500 | 75 [ⓔ] | | | | 101 | | |
| 12" T5 | | | | | | | | | | | | | | | | | |
| T5 | Miniature BiPin (G5) | 8 | 12 | 10059 | F8T5/CW | 24 | 5000 | 400 | 320 | 4100 | 60 | | | | 101 | | |
| | | | | 15987 | F8T5/CW CARD | 10 | 5000 | 400 | 320 | 4100 | 60 | | | | 101 | | |
| | | | | 10055 | F8T5/D | 24 | 5000 | 330 | 265 | 6500 | 75 [ⓔ] | | | | 101 | | |
| | | | | 10064 | F8T5/WW | 24 | 5000 | 410 | 330 | 3000 | 52 | | | | 101 | | |
| | | | | 25425 | F8T5/WW/CARD | 5 | 5000 | 410 | 330 | 3000 | 52 | | | | 101 | | |
| 21" T5 | | | | | | | | | | | | | | | | | |
| T5 | Miniature BiPin (G5) | 13 | 21 | 10086 | F13T5/CW | 24 | 5000 | 850 | 705 | 4100 | 60 | | | | 101 | | |
| | | | | 49333 | F13T5/CW/CD | 5 | 5000 | 850 | 705 | 4100 | 60 | | | | 101 | | |
| | | | | 10089 | F13T5/WW | 24 | 5000 | 870 | 720 | 3000 | 52 | | | | 101 | | |
| | | | | 25426 | F13T5/WW/CARD | 5 | 5000 | 870 | 720 | 3000 | 52 | | | | 101 | | |
| Bulb Base | Nominal Length Order | Watts | in. | Code | Description | Case Qty. | Rated Life | | Lumens | | | Color Temp. | | Foot-notes | Warning and | | Additional Information |
| | | | | | | | 3hr/ Start | 12hr/ Start | Initial | Mean | Temp. K | CRI | Foot-notes | | Cautions | | |
| T8 STARCOAT® LAMPS | | | | | | | | | | | | | | | | | |
| 2' T8 ECOLUX® - TCLP COMPLIANT | | | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 17 | 24 | 45741 | F17T8/SP30/ECO | 24 | 20000 | 24000 | 1325 | 1260 | 3000 | 78 | ⓔ | 18 | | 101 | |
| | | | | 45743 | F17T8/SP35/ECO | 24 | 20000 | 24000 | 1325 | 1260 | 3500 | 78 | ⓔ | 18 | | 101 | |
| | | | | 45748 | F17T8/SP41/ECO | 24 | 20000 | 24000 | 1325 | 1260 | 4100 | 78 | ⓔ | 18 | | 101 | |
| | | | | 45742 | F17T8/SPX30/ECO | 24 | 20000 | 24000 | 1350 | 1280 | 3000 | 86 | ⓔ | 18 | | 101 | |
| | | | | 45747 | F17T8/SPX35/ECO | 24 | 20000 | 24000 | 1350 | 1280 | 3500 | 86 | ⓔ | 18 | | 101 | |
| | | | | 45749 | F17T8/SPX41/ECO | 24 | 20000 | 24000 | 1350 | 1280 | 4100 | 86 | ⓔ | 18 | | 101 | |
| 2' T8 ECOLUX® XL EXTRA-LIFE | | | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 17 | 24 | 15476 | F17T8/XL/SP30/ECO | 24 | 24000 | 29000 | 1325 | 1260 | 3000 | 78 | ⓔ | 18 | | 101 | |
| | | | | 15479 | F17T8/XL/SP35/ECO | 24 | 24000 | 29000 | 1325 | 1260 | 3500 | 78 | ⓔ | 18 | | 101 | |
| | | | | 15480 | F17T8/XL/SP41/ECO | 24 | 24000 | 29000 | 1325 | 1260 | 4100 | 78 | ⓔ | 18 | | 101 | |
| | | | | 15481 | F17T8/XL/SPX30/ECO | 24 | 24000 | 29000 | 1350 | 1280 | 3000 | 86 | ⓔ | 18 | | 101 | |
| | | | | 15483 | F17T8/XL/SPX35/ECO | 24 | 24000 | 29000 | 1350 | 1280 | 3500 | 86 | ⓔ | 18 | | 101 | |
| | | | | 15484 | F17T8/XL/SPX41/ECO | 24 | 24000 | 29000 | 1350 | 1280 | 4100 | 86 | ⓔ | 18 | | 101 | |
| | | | | 10415 | F17T8/XL/SPX50/ECO | 24 | 24000 | 29000 | 1300 | 1235 | 5000 | 86 | ⓔ | 18 | | 101 | |
| | | | | 16092 | F17T8/XL/SPX65/ECO | 24 | 24000 | 29000 | 1250 | 1125 | 6500 | 85 | ⓔ | 18 | | 101 | |
| 3' T8 ECOLUX® - TCLP COMPLIANT | | | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 25 | 36 | 45750 | F25T8/SP30/ECO | 24 | 20000 | 24000 | 2080 | 1970 | 3000 | 78 | ⓔ | 18 | | 101 | |
| | | | | 45754 | F25T8/SP35/ECO | 24 | 20000 | 24000 | 2080 | 1970 | 3500 | 78 | ⓔ | 18 | | 101 | |
| | | | | 45756 | F25T8/SP41/ECO | 24 | 20000 | 24000 | 2080 | 1970 | 4100 | 78 | ⓔ | 18 | | 101 | |
| | | | | 45753 | F25T8/SPX30/ECO | 24 | 20000 | 24000 | 2150 | 2040 | 3000 | 86 | ⓔ | 18 | | 101 | |
| | | | | 45755 | F25T8/SPX35/ECO | 24 | 20000 | 24000 | 2150 | 2040 | 3500 | 86 | ⓔ | 18 | | 101 | |
| | | | | 45757 | F25T8/SPX41/ECO | 24 | 20000 | 24000 | 2150 | 2040 | 4100 | 86 | ⓔ | 18 | | 101 | |

ⓔ Means this lamp meets Federal Minimum Efficiency Standards.

See www.gelighting.com e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4. All footnote references found at the end of this section. ⚡ Reduced Wattage ⓔ High Color Rendering.



| Bulb Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life | | Lumens | | | Color Temp. | | Foot- notes | Warning and Cautions | Additional Information |
|--|----------------------|-----------|------|-------------|----------------------|------------|-------------|---------|------|------|-------------|----|-------------|----------------------|------------------------|
| | | | | | | 3hr/ Start | 12hr/ Start | Initial | Mean | K | CRI | | | | |
| T8 STARCOAT® LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| 3' T8 ECOLUX® XL EXTRA-LIFE | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 25 | 36 | 15486 | F25T8/XL/SP30/ECO | 24 | 24000 | 29000 | 2080 | 1970 | 3000 | 78 | ⚡ | 18 | 101 |
| | | | | 15487 | F25T8/XL/SP35/ECO | 24 | 24000 | 29000 | 2080 | 1970 | 3500 | 78 | ⚡ | 18 | 101 |
| | | | | 15488 | F25T8/XL/SP41/ECO | 24 | 24000 | 29000 | 2080 | 1970 | 4100 | 78 | ⚡ | 18 | 101 |
| | | | | 15489 | F25T8/XL/SPX30/ECO | 24 | 24000 | 29000 | 2150 | 2040 | 3000 | 86 | ⚡ | 18 | 101 |
| | | | | 15490 | F25T8/XL/SPX35/ECO | 24 | 24000 | 29000 | 2150 | 2040 | 3500 | 86 | ⚡ | 18 | 101 |
| | | | | 15491 | F25T8/XL/SPX41/ECO | 24 | 24000 | 29000 | 2150 | 2040 | 4100 | 86 | ⚡ | 18 | 101 |
| | | | | 10416 | F25T8/XL/SPX50/ECO | 24 | 24000 | 29000 | 2050 | 1950 | 5000 | 86 | ⚡ | 18 | 101 |
| | | | | 16314 | F25T8/XL/SPX65/ECO | 24 | 24000 | 29000 | 1950 | 1755 | 6500 | 85 | ⚡ | 18 | 101 |
| 4' T8 ECOLUX® - TCLP COMPLIANT | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 32 | 48 | 26666 | F32T8/SP30/ECO | 36 | 20000 | 24000 | 2800 | 2660 | 3000 | 78 | ⚡ | 18 | 101 |
| | | | | 26667 | F32T8/SP35/ECO | 36 | 20000 | 24000 | 2800 | 2660 | 3500 | 78 | ⚡ | 18 | 101 |
| | | | | 11873 | F32T8/SP35/ECO 12PK | 12 | 20000 | 24000 | 2800 | 2660 | 3500 | 78 | ⚡ | 18 | 101 |
| | | | | 26668 | F32T8/SP41/ECO | 36 | 20000 | 24000 | 2800 | 2660 | 4100 | 78 | ⚡ | 18 | 101 |
| | | | | 16090 | F32T8/SP50/ECO | 36 | 20000 | 24000 | 2750 | 2610 | 5000 | 78 | ⚡ | 18 | 101 |
| | | | | 16091 | F32T8/SP65/ECO | 36 | 20000 | 24000 | 2700 | 2565 | 6500 | 78 | ⚡ | 18 | 101 |
| | | | | 25611 | F32T8/SPX30/ECO | 36 | 20000 | 24000 | 2950 | 2800 | 3000 | 86 | ⚡ | 18 | 101 |
| | | | | 25612 | F32T8/SPX35/ECO | 36 | 20000 | 24000 | 2950 | 2800 | 3500 | 86 | ⚡ | 18 | 101 |
| | | | | 25613 | F32T8/SPX41/ECO | 36 | 20000 | 24000 | 2950 | 2800 | 4100 | 86 | ⚡ | 18 | 101 |
| | | | | 42064 | F32T8/SPX50/ECO | 36 | 20000 | 24000 | 2800 | 2660 | 5000 | 86 | ⚡ | 18 | 101 |
| 4' T8 ECOLUX® XL EXTRA-LIFE | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 32 | 48 | 27616 | F32T8/XL/SP30/ECO | 36 | 24000 | 29000 | 2800 | 2660 | 3000 | 78 | ⚡ | 18 | 101 |
| | | | | 27617 | F32T8/XL/SP35/ECO | 36 | 24000 | 29000 | 2800 | 2660 | 3500 | 78 | ⚡ | 18 | 101 |
| | | | | 27618 | F32T8/XL/SP41/ECO | 36 | 24000 | 29000 | 2800 | 2660 | 4100 | 78 | ⚡ | 18 | 101 |
| | | | | 27619 | F32T8/XL/SPX30/ECO | 36 | 24000 | 29000 | 2950 | 2800 | 3000 | 86 | ⚡ | 18 | 101 |
| | | | | 27620 | F32T8/XL/SPX35/ECO | 36 | 24000 | 29000 | 2950 | 2800 | 3500 | 86 | ⚡ | 18 | 101 |
| | | | | 27621 | F32T8/XL/SPX41/ECO | 36 | 24000 | 29000 | 2950 | 2800 | 4100 | 86 | ⚡ | 18 | 101 |
| | | | | 16313 | F32T8/XL/SPX50/ECO | 36 | 24000 | 29000 | 2800 | 2660 | 5000 | 86 | ⚡ | 18 | 101 |
| | | | | 16089 | F32T8/XL/SPX65/ECO | 36 | 24000 | 29000 | 2750 | 2475 | 6500 | 85 | ⚡ | 18 | 101 |
| 4' T8 ECOLUX® SUPER LONG LIFE | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 32 | 48 | 49702 | F32T8/SXL/SP30/ECO | 36 | 30000 | 36000 | 2850 | 2675 | 3000 | 84 | ⚡ | 18 | 101 |
| | | | | 49778 | F32T8/SXL/SP35/ECO | 36 | 30000 | 36000 | 2850 | 2675 | 3500 | 83 | ⚡ | 18 | 101 |
| | | | | 49779 | F32T8/SXL/SP41/ECO | 36 | 30000 | 36000 | 2850 | 2675 | 4100 | 81 | ⚡ | 18 | 101 |
| ULTRA ENERGY SAVING T8 LAMPS | | | | | | | | | | | | | | | |
| 4' T8 ECOLUX® WATT-MISER® | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 30 | 48 | 48277 | F32T8/SP30/IS/WM/ECO | 36 | 20000 | 24000 | 2850 | 2675 | 3000 | 84 | Ⓢ ⚡ | 1,18 | 101 |
| | | | | 48278 | F32T8/SP35/IS/WM/ECO | 36 | 20000 | 24000 | 2850 | 2675 | 3500 | 83 | Ⓢ ⚡ | 1,18 | 101 |
| | | | | 48279 | F32T8/SP41/IS/WM/ECO | 36 | 20000 | 24000 | 2850 | 2675 | 4100 | 81 | Ⓢ ⚡ | 1,18 | 101 |
| | | | | 11791 | F32T8/SP50/IS/WM/ECO | 36 | 20000 | 24000 | 2750 | 2585 | 5000 | 80 | Ⓢ ⚡ | 1,18 | 101 |
| 4' T8 ECOLUX® WATT-MISER® XL EXTRA-LIFE | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 30 | 48 | 48521 | F32T8/XL/SP30/WM/ECO | 36 | 24000 | 29000 | 2800 | 2625 | 3000 | 84 | Ⓢ ⚡ | 1,18 | 101 |
| | | | | 48522 | F32T8/XL/SP35/WM/ECO | 36 | 24000 | 29000 | 2800 | 2625 | 3500 | 83 | Ⓢ ⚡ | 1,18 | 101 |
| | | | | 48523 | F32T8/XL/SP41/WM/ECO | 36 | 24000 | 29000 | 2800 | 2625 | 4100 | 81 | Ⓢ ⚡ | 1,18 | 101 |
| | | | | 42553 | F32T8/XL/SP50/WM/ECO | 36 | 24000 | 29000 | 2700 | 2540 | 5000 | 80 | Ⓢ ⚡ | 1,18 | 101 |
| 4' T8 ECOLUX® ULTRAMAX® | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 28 | 48 | 00255 | F28T8/SP30/UMX/ECO | 36 | 18000 | 24000 | 2750 | 2585 | 3000 | 85 | Ⓢ ⚡ | 1,18 | 101 |
| | | | | 00256 | F28T8/SP35/UMX/ECO | 36 | 18000 | 24000 | 2750 | 2585 | 3500 | 85 | Ⓢ ⚡ | 1,18 | 101 |
| | | | | 00257 | F28T8/SP41/UMX/ECO | 36 | 18000 | 24000 | 2750 | 2585 | 4100 | 82 | Ⓢ ⚡ | 1,18 | 101 |
| | | | | 42554 | F28T8/SP50/UMX/ECO | 36 | 18000 | 24000 | 2650 | 2490 | 5000 | 80 | Ⓢ ⚡ | 1,18 | 101 |

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.



Fluorescent Lamps

| Bulb Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life | | Lumens | | | Color Temp. | | Foot-notes | Warning and Cautions | Additional Information |
|-----------|----------------------|-----------|------|-------------|-----------|------------|-------------|---------|------|---|-------------|--|------------|----------------------|------------------------|
| | | | | | | 3hr/ start | 12hr/ start | Initial | Mean | K | CRI | | | | |

ULTRA ENERGY SAVING T8 LAMPS

4' T8 ECOLUX® HIGH LUMEN

| | | | | | | | | | | | | | | | |
|----|--------------------|----|----|------------------------------------|----|-------|-------|------|------|------|----|---|---|----|-----|
| T8 | Medium Bipin (G13) | 32 | 48 | 10327 F32T8/XL/SPX30/HL/ECO | 36 | 24000 | 29000 | 3100 | 2915 | 3000 | 85 | Ⓢ | ↘ | 18 | 101 |
| | | | | 10326 F32T8/XL/SPX35/HL/ECO | 36 | 24000 | 29000 | 3100 | 2915 | 3500 | 85 | Ⓢ | | 18 | 101 |
| | | | | 10322 F32T8/XL/SPX41/HL/ECO | 36 | 24000 | 29000 | 3100 | 2915 | 4100 | 82 | Ⓢ | | 18 | 101 |
| | | | | 42556 F32T8/XL/SPX50/HL/ECO | 36 | 24000 | 29000 | 3000 | 2820 | 5000 | 80 | Ⓢ | | 18 | 101 |

F25T12 ECOLUX® FOR T8 BALLASTS

| | | | | | | | | | | | | | | | |
|-----|--------------------|----|----|------------------------------|----|-------|-------|------|------|------|----|---|---|----|-----|
| T12 | Medium BiPin (G13) | 25 | 48 | 80066 F25T12/SP30/ECO | 30 | 15000 | 20000 | 2300 | 2140 | 3000 | 70 | Ⓢ | ↘ | 18 | 101 |
| | | | | 80067 F25T12/SP35/ECO | 30 | 15000 | 20000 | 2300 | 2140 | 3500 | 70 | Ⓢ | ↘ | 18 | 101 |
| | | | | 80076 F25T12/SP41/ECO | 30 | 15000 | 20000 | 2300 | 2140 | 4100 | 70 | Ⓢ | ↘ | 18 | 101 |

8' T8 LAMPS

8' T8

| | | | | | | | | | | | | | | | |
|----|------------------|----|----|--------------------------|----|-------|-------|------|------|------|----|---|--|--|-----|
| T8 | Single Pin (Fa8) | 59 | 96 | 23407 F96T8/SP30 | 24 | 15000 | 20000 | 5800 | 5500 | 3000 | 78 | Ⓢ | | | 101 |
| | | | | 23411 F96T8/SP35 | 24 | 15000 | 20000 | 5800 | 5500 | 3500 | 78 | Ⓢ | | | 101 |
| | | | | 23412 F96T8/SP41 | 24 | 15000 | 20000 | 5800 | 5500 | 4100 | 78 | Ⓢ | | | 101 |
| | | | | 23414 F96T8/SPX30 | 24 | 15000 | 20000 | 5950 | 5650 | 3000 | 86 | Ⓢ | | | 101 |
| | | | | 23415 F96T8/SPX35 | 24 | 15000 | 20000 | 5950 | 5650 | 3500 | 86 | Ⓢ | | | 101 |
| | | | | 23416 F96T8/SPX41 | 24 | 15000 | 20000 | 5950 | 5650 | 4100 | 86 | Ⓢ | | | 101 |
| | | | | 23575 F96T8/SPX50 | 24 | 15000 | 20000 | 5950 | 5650 | 5000 | 86 | Ⓢ | | | 101 |

8' T8 XL EXTRA-LIFE

| | | | | | | | | | | | | | | | |
|----|------------------|----|----|-----------------------------|----|-------|-------|------|------|------|----|---|--|--|-----|
| T8 | Single Pin (Fa8) | 59 | 96 | 41889 F96T8/XL/SP30 | 24 | 24000 | 29000 | 5800 | 5500 | 3000 | 78 | Ⓢ | | | 101 |
| | | | | 41890 F96T8/XL/SP35 | 24 | 24000 | 29000 | 5800 | 5500 | 3500 | 78 | Ⓢ | | | 101 |
| | | | | 41891 F96T8/XL/SP41 | 24 | 24000 | 29000 | 5800 | 5500 | 4100 | 78 | Ⓢ | | | 101 |
| | | | | 41892 F96T8/XL/SPX30 | 24 | 24000 | 29000 | 5950 | 5650 | 3000 | 86 | Ⓢ | | | 101 |
| | | | | 41893 F96T8/XL/SPX35 | 24 | 24000 | 29000 | 5950 | 5650 | 3500 | 86 | Ⓢ | | | 101 |
| | | | | 41894 F96T8/XL/SPX41 | 24 | 24000 | 29000 | 5950 | 5650 | 4100 | 86 | Ⓢ | | | 101 |
| | | | | 45497 F96T8/XL/SPX50 | 24 | 24000 | 29000 | 5950 | 5650 | 5000 | 86 | Ⓢ | | | 101 |

8' T8 XL EXTRA-LIFE WATT-MISER® ENERGY SAVING LAMPS

| | | | | | | | | | | | | | | | |
|----|------------------|----|----|--------------------------------|----|-------|-------|------|------|------|----|---|---|---|-----|
| T8 | Single Pin (Fa8) | 57 | 96 | 48524 F96T8/XL/SP30/WMM | 24 | 24000 | 29000 | 5800 | 5450 | 3000 | 84 | Ⓢ | ↘ | 1 | 101 |
| | | | | 48525 F96T8/XL/SP35/WMM | 24 | 24000 | 29000 | 5800 | 5450 | 3500 | 83 | Ⓢ | ↘ | 1 | 101 |
| | | | | 48526 F96T8/XL/SP41/WMM | 24 | 24000 | 29000 | 5800 | 5450 | 4100 | 81 | Ⓢ | ↘ | 1 | 101 |

8' T8 XL EXTRA-LIFE WATT-MISER® PLUS ENERGY SAVING LAMPS

| | | | | | | | | | | | | | | | |
|----|------------------|----|----|--------------------------------|----|-------|-------|------|------|------|----|---|---|---|-----|
| T8 | Single Pin (Fa8) | 54 | 96 | 47072 F96T8/XL/SP30/WMP | 24 | 24000 | 29000 | 5800 | 5450 | 3000 | 84 | Ⓢ | ↘ | 1 | 101 |
| | | | | 47076 F96T8/XL/SP35/WMP | 24 | 24000 | 29000 | 5800 | 5450 | 3500 | 83 | Ⓢ | ↘ | 1 | 101 |
| | | | | 47103 F96T8/XL/SP41/WMP | 24 | 24000 | 29000 | 5800 | 5450 | 4100 | 81 | Ⓢ | ↘ | 1 | 101 |

| Bulb Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot-notes | Warning and Cautions | Additional Information |
|-----------|----------------------|-----------|------|-------------|-----------|------------|---------|------|---|-------------|--|------------|----------------------|------------------------|
| | | | | | | | Initial | Mean | K | CRI | | | | |

8' T8 HIGH OUTPUT

8' T8 HIGH OUTPUT - RECESSED DOUBLE CONTACT

| | | | | | | | | | | | | | | | |
|----|------|----|----|-----------------------------|----|-------|--|------|------|------|----|---|--|--|-------|
| T8 | R17d | 86 | 96 | 12536 F96T8/SP30/HO | 24 | 18000 | | 8000 | 7600 | 3000 | 78 | Ⓢ | | | 101 |
| | | | | 12537 F96T8/SP35/HO | 24 | 18000 | | 8000 | 7600 | 3500 | 78 | Ⓢ | | | 101 |
| | | | | 12538 F96T8/SP41/HO | 24 | 18000 | | 8000 | 7600 | 4100 | 78 | Ⓢ | | | 101 |
| | | | | 12533 F96T8/SPX35/HO | 24 | 18000 | | 8200 | 7800 | 3500 | 86 | Ⓢ | | | 101 |
| | | | | 12534 F96T8/SPX41/HO | 24 | 18000 | | 8200 | 7800 | 4100 | 86 | Ⓢ | | | 101 |
| | | | | 12535 F96T8/SPX50/HO | 24 | 18000 | | 8200 | 7800 | 5000 | 86 | Ⓢ | | | 101 1 |

8' T8 INSTANT START

| | | | | | | | | | | | | | | | |
|----|------------------|----|----|-----------------------|----|------|--|------|------|------|----|--|--|--|-----|
| T8 | Single Pin (Fa8) | 50 | 96 | 10912 F96T8/CW | 24 | 7500 | | 4050 | 3730 | 4100 | 60 | | | | 101 |
|----|------------------|----|----|-----------------------|----|------|--|------|------|------|----|--|--|--|-----|

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.



| Bulb Base | Nominal Length | Order Watts in. | Code | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot- notes | Warning and Cautions | Additional Information |
|----------------------------|--------------------|-----------------|------|-------------|-----------------|------------|---------|------|---------|-------------|---------|-------------|----------------------|----------------------------------|
| | | | | | | | Initial | Mean | Temp. K | CRI | Temp. K | | | |
| T8 MOD-U-LINE® | | | | | | | | | | | | | | |
| T8 1 5/8" SPACING | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 31 | 22.5 | 41776 | F31T8/SPX30/U | 15 | 20000 | 2725 | 2500 | 3000 | 82 | ☺ | 105 | |
| | | | | 41777 | F31T8/SPX35/U | 15 | 20000 | 2725 | 2500 | 3500 | 82 | ☺ | 105 | |
| | | | | 41778 | F31T8/SPX41/U | 15 | 20000 | 2725 | 2500 | 4100 | 82 | ☺ | 105 | |
| T8 6" SPACING | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 32 | 22.5 | 10479 | F32T8/SP30/U/6 | 12 | 20000 | 2700 | 2565 | 3000 | 78 | ☺ | 105 | |
| | | | | 23585 | F32T8/SP35/U/6 | 12 | 20000 | 2700 | 2565 | 3500 | 78 | ☺ | 105 | |
| | | | | 10480 | F32T8/SP41/U/6 | 12 | 20000 | 2700 | 2565 | 4100 | 78 | ☺ | 105 | |
| | | | | 10483 | F32T8/SPX30/U/6 | 12 | 20000 | 2800 | 2630 | 3000 | 86 | ☺ | 105 | |
| | | | | 10485 | F32T8/SPX35/U/6 | 12 | 20000 | 2800 | 2630 | 3500 | 86 | ☺ | 105 | |
| | | | | 10488 | F32T8/SPX41/U/6 | 12 | 20000 | 2800 | 2630 | 4100 | 86 | ☺ | 105 | |
| | | | | 10489 | F32T8/SPX50/U/6 | 12 | 20000 | 2660 | 2510 | 5000 | 86 | ☺ | 105 | |
| OTHER T8 LENGTHS | | | | | | | | | | | | | | |
| 18" T8 W/ STARCOAT® | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 15 | 18 | 49489 | FE15T8/XL/SPX65 | 24 | 24000 | 875 | 785 | 6500 | 85 | ☺ | 101 | Use with Electronic Ballast Only |
| 5' T8 W/ STARCOAT® | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 40 | 60 | 15950 | F40T8/SP30 | 24 | 20000 | 3600 | 3420 | 3000 | 75 | ☺ | 101 | |
| | | | | 15951 | F40T8/SP35 | 24 | 20000 | 3600 | 3420 | 3500 | 75 | ☺ | 101 | |
| | | | | 15952 | F40T8/SP41 | 24 | 20000 | 3600 | 3420 | 4100 | 75 | ☺ | 101 | |
| | | | | 22660 | F40T8/SPX30 | 24 | 20000 | 3725 | 3350 | 3000 | 84 | ☺ | 101 | |
| | | | | 22661 | F40T8/SPX35 | 24 | 20000 | 3725 | 3350 | 3500 | 84 | ☺ | 101 | |
| | | | | 22662 | F40T8/SPX41 | 24 | 20000 | 3725 | 3350 | 4100 | 84 | ☺ | 101 | |
| 6' T8 INSTANT START | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 35 | 72 | 10829 | F72T8/CW | 24 | 7500 | 3000 | 2730 | 4100 | 60 | | 101 | |
| | | | | 10835 | F72T8/WW 6PK | 6 | 7500 | 3100 | 2820 | 3000 | 52 | | 101 | Warm White |
| T8 POLYLUX® | | | | | | | | | | | | | | |
| 2' T8 POLYLUX® | | | | | | | | | | | | | | |
| T8 | Medium Bipin (G13) | 18 | 24 | 93311 | F18T8/835PLYXLR | 25 | 20000 | 1350 | 1280 | 3500 | 85 | ☺ | 101 | |
| | | | | 93317 | F18T8/841PLYXLR | 25 | 20000 | 1350 | 1280 | 4100 | 85 | ☺ | 101 | |
| 4' T8 POLYLUX® | | | | | | | | | | | | | | |
| T8 | Medium Bipin (G13) | 36 | 48 | 19991 | F36T8/835PLYXLR | 25 | 20000 | 3350 | 3180 | 3500 | 85 | ☺ | 101 | |
| | | | | 16856 | F36T8/841PLYXLR | 25 | 20000 | 3350 | 3180 | 4100 | 85 | ☺ | 101 | |
| 6' T8 POLYLUX® | | | | | | | | | | | | | | |
| T8 | Medium Bipin (G13) | 58 | 60 | 40120 | F58T8/835PLYXLR | 25 | 20000 | 5200 | 4940 | 3500 | 85 | ☺ | 101 | |
| | | | | 40081 | F58T8/841PLYXLR | 25 | 20000 | 5200 | 4940 | 4000 | 85 | ☺ | 101 | |
| 7' T8 POLYLUX® | | | | | | | | | | | | | | |
| T8 | Medium Bipin (G13) | 70 | 72 | 39451 | F70T8/835PLYXLR | 25 | 20000 | 6300 | 5985 | 3500 | 85 | ☺ | 101 | |
| | | | | 39452 | F70T8/840PLYXLR | 25 | 20000 | 6300 | 5985 | 4000 | 85 | ☺ | 101 | |
| T8 PREHEAT | | | | | | | | | | | | | | |
| 12" T8 | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 13 | 12 | 10098 | F13T8/CW | 24 | 7500 | 565 | 480 | 4100 | 60 | | 101 | |
| 15" T8 | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 14 | 15 | 10104 | F14T8/CW | 24 | 7500 | 685 | 580 | 4100 | 60 | | 101 | |
| 18" T8 | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 15 | 18 | 17911 | F15T8/SP35 | 24 | 7500 | 940 | 850 | 3500 | 75 | ☺ | 101 | |
| | | | | 19643 | F15T8/SP41 | 24 | 7500 | 940 | 850 | 4100 | 72 | ☺ | 101 | |
| | | | | 19644 | F15T8/SPX30 | 24 | 7500 | 1000 | 900 | 3000 | 82 | ☺ | 101 | |
| | | | | 19645 | F15T8/SPX35 | 24 | 7500 | 1000 | 900 | 3500 | 82 | ☺ | 101 | |
| | | | | 10142 | F15T8/CW | 24 | 7500 | 825 | 725 | 4100 | 60 | | 101 | |



Fluorescent Lamps

| Bulb Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot-notes | Warning and Cautions | | Additional Information |
|---|----------------------|-----------|------|--------------|--------------------------|------------|---------|------|---------|-------------|---------|------------|----------------------|----------------|------------------------|
| | | | | | | | Initial | Mean | Temp. K | CRI | Temp. K | | CRI | Notes | |
| T8 PREHEAT (CONTINUED) | | | | | | | | | | | | | | | |
| 18" T8 (CONTINUED) | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 15 | 18 | 10143 | F15T8/CW 6PK | 24 | 7500 | 825 | 725 | 4100 | 60 | ☞ | 101 | | |
| | | | | 10134 | F15T8/D | 24 | 7500 | 700 | 615 | 6500 | 75 | ☞ | 101 | Daylight | |
| | | | | 21326 | F15T8/KB 6PK | 24 | 7500 | 940 | 850 | 3000 | 70 | ☞ | 101 | Kitchen & Bath | |
| | | | | 13968 | F15T8/SUN 6PK | 24 | 7500 | 620 | 525 | 5000 | 90 | ☞ | 101 | Sunlight | |
| | | | | 10147 | F15T8/WW | 24 | 7500 | 845 | 745 | 3000 | 52 | ☞ | 101 | Warm White | |
| 36" T8 | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 30 | 36 | 16323 | F30T8/SPX30 | 24 | 7500 | 2300 | 2140 | 3000 | 82 | ☞ | 101 | | |
| | | | | 10316 | F30T8/CW 6PK | 24 | 7500 | 2175 | 1980 | 4100 | 60 | ☞ | 101 | | |
| | | | | 10310 | F30T8/D | 24 | 7500 | 1850 | 1625 | 6500 | 75 | ☞ | 101 | Daylight | |
| | | | | 22747 | F30T8/KB 6PK | 24 | 7500 | 2125 | 1910 | 3000 | 70 | ☞ | 101 | Kitchen & Bath | |
| | | | | 10318 | F30T8/WW | 24 | 7500 | 2150 | 1880 | 3000 | 52 | ☞ | 101 | Warm White | |
| T12 LAMPS | | | | | | | | | | | | | | | |
| 3' T12 ECOLUX® - RAPID START | | | | | | | | | | | | | | | |
| 25W | | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 25 | 36 | 80080 | F25T12/SP30/RS/WM/ECO | 24 | 18000 | 2025 | 1780 | 3000 | 70 | ☞ | 101 | | |
| | | | | 80081 | F25T12/SP35/RS/WM/ECO | 24 | 18000 | 2025 | 1780 | 3500 | 73 | ☞ | 101 | | |
| | | | | 80065 | F25T12/CW/RS/WM/ECO | 24 | 18000 | 1925 | 1640 | 4100 | 60 | ☞ | 101 | | |
| | | | | 80077 | F25T12/WW/RS/WM/ECO | 24 | 18000 | 1975 | 1680 | 3000 | 52 | ☞ | 101 | Warm White | |
| 30W | | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 30 | 36 | 80087 | F30T12/SP35/RS/ECO | 24 | 18000 | 2350 | 2120 | 3500 | 73 | ☞ | 101 | | |
| | | | | 80088 | F30T12/SP41/RS/ECO | 24 | 18000 | 2350 | 2120 | 4100 | 72 | ☞ | 101 | | |
| | | | | 80089 | F30T12/SPX30/RS/ECO | 24 | 18000 | 2375 | 2140 | 3000 | 82 | ☞ | 101 | | |
| | | | | 80090 | F30T12/SPX35/RS/ECO | 24 | 18000 | 2375 | 2140 | 3500 | 82 | ☞ | 101 | | |
| | | | | 80083 | F30T12/C50/RS/ECO | 24 | 18000 | 1650 | 1350 | 5000 | 90 | ☞ | 101 | Chroma 50 | |
| | | | | 80084 | F30T12/CW/RS/ECO | 24 | 18000 | 2200 | 1910 | 4100 | 60 | ☞ | 101 | | |
| | | | | 80085 | F30T12/CW/RS/ECO 6PK | 24 | 18000 | 2200 | 1910 | 4100 | 60 | ☞ | 101 | | |
| | | | | 80086 | F30T12/D/RS/ECO | 24 | 18000 | 1900 | 1650 | 6500 | 75 | ☞ | 101 | Daylight | |
| | | | | 80091 | F30T12/WW/RS/ECO | 24 | 18000 | 2275 | 1980 | 3000 | 52 | ☞ | 101 | Warm White | |
| 4' T12 - RAPID START | | | | | | | | | | | | | | | |
| 32W WATT-MISER® PLUS | | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 32 | 48 | 14225 | F40/SP35/RS/WMP 30PK | 30 | 20000 | 2650 | 2400 | 3500 | 80 | ☞ ⚡ | 1 | 101 | |
| | | | | 14224 | F40/SP41/RS/WMP 30PK | 30 | 20000 | 2650 | 2400 | 3500 | 80 | ☞ ⚡ | 1 | 101 | |
| | | | | 14221 | F40/CW/RS/WMP 30PK | 30 | 20000 | 2500 | 2200 | 4100 | 60 | ☞ ⚡ | 1 | 101 | |
| 34W WATT-MISER® ECOLUX® - TCLP COMPLIANT | | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 34 | 48 | 23163 | F34/SP30/RS/WM/ECO | 30 | 20000 | 2750 | 2475 | 3000 | 70 | ☞ ⚡ | 1 | 101 | |
| | | | | 25401 | F34/SP30/RS/WM/ECO/UPC | 30 | 20000 | 2750 | 2475 | 3000 | 70 | ☞ ⚡ | 1 | 101 | |
| | | | | 23165 | F34/SP35/RS/WM/ECO | 30 | 20000 | 2750 | 2475 | 3500 | 73 | ☞ ⚡ | 1 | 101 | |
| | | | | 23486 | F34/SP35/WM/ECO/C | 10 | 20000 | 2750 | 2475 | 3500 | 73 | ☞ ⚡ | 1 | 101 | |
| | | | | 21858 | F34/SP35/RS/WM/ECO/UPC6P | 24 | 20000 | 2750 | 2475 | 3500 | 73 | ☞ ⚡ | 1 | 101 | |
| | | | | 23166 | F34/SP41/RS/WM/ECO | 30 | 20000 | 2750 | 2475 | 4100 | 72 | ☞ ⚡ | 1 | 101 | |
| | | | | 25397 | F34/SP41/RS/WM/ECO/UPC | 30 | 20000 | 2750 | 2475 | 4100 | 72 | ☞ ⚡ | 1 | 101 | |
| | | | | 41563 | F34/SP65/RS/WM/ECO | 30 | 20000 | 2650 | 2430 | 6500 | 75 | ☞ ⚡ | 1 | 101 | |
| | | | | 23157 | F34/SPX30/RS/WM/ECO | 30 | 20000 | 2900 | 2610 | 3000 | 82 | ☞ ⚡ | 1 | 101 | |
| | | | | 23158 | F34/SPX35/RS/WM/ECO | 30 | 20000 | 2900 | 2610 | 3500 | 82 | ☞ ⚡ | 1 | 101 | |
| | | | | 23159 | F34/SPX41/RS/WM/ECO | 30 | 20000 | 2900 | 2610 | 4100 | 80 | ☞ ⚡ | 1 | 101 | |
| | | | | 80095 | F34/SPX50/RS/WM/ECO | 30 | 20000 | 2700 | 2430 | 5000 | 80 | ☞ ⚡ | 1 | 101 | |
| | | | | 80092 | F34/C50/RS/WM/ECO | 30 | 20000 | 2000 | 1720 | 5000 | 90 | ☞ ⚡ | 1 | 101 | Chroma 50 |
| | | | | 23010 | F34/CW/RS/WM/ECO | 30 | 20000 | 2650 | 2280 | 4100 | 60 | ☞ ⚡ | 1 | 101 | |

☞ Means this lamp meets Federal Minimum Efficiency Standards.

See www.gelighting.com e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4. All footnote references found at the end of this section. ⚡ Reduced Wattage ☞ High Color Rendering.



Fluorescent Lamps

| Bulb Base | Nominal Length Watts in. | Order Code | Description | Case Qty. | Rated Life | Color | | | Warning | | | | | |
|---|-----------------------------|------------|-------------|-----------|-------------------------|----------------|------------|-------|------------|--------------|------------------------|---|----|-----------------------------------|
| | | | | | | Lumens Initial | Temp. Mean | K CRI | Foot-notes | and Cautions | Additional Information | | | |
| T12 LAMPS (CONTINUED) | | | | | | | | | | | | | | |
| 34W WATT-MISER® ECOLUX® - TCLP COMPLIANT (CONTINUED) | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 34 | 48 | 25391 | F34/CW/RS/WM/ECO/UPC | 30 | 20000 | 2650 | 2280 | 4100 | 60 [ⓔ] | ↘ | 1 | 101 |
| | | | | 23485 | F34/CW/RS/WM/ECO/C 10PK | 10 | 20000 | 2650 | 2280 | 4100 | 60 [ⓔ] | ↘ | 1 | 101 |
| | | | | 80093 | F34/DX/RS/WM/ECO | 30 | 20000 | 1950 | 1620 | 6500 | 84 [ⓔ] | ↘ | 1 | 101 Daylight Deluxe |
| | | | | 80094 | F34/LW/RS/WM/ECO | 30 | 20000 | 2825 | 2430 | 4200 | 49 [ⓔ] | ↘ | 1 | 101 Lite White |
| | | | | 45065 | F34/WW/RS/WM/ECO | 30 | 20000 | 2700 | 2320 | 3000 | 52 [ⓔ] | ↘ | 1 | 101 Warm White |
| | | | | 25398 | F34/WW/RS/WM/ECO/UPC | 30 | 20000 | 2700 | 2320 | 3000 | 52 [ⓔ] | ↘ | 1 | 101 Warm White |
| 40W ECOLUX® - TCLP COMPLIANT | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 40 | 48 | 80099 | F40/SP30/ECO | 30 | 20000 | 3250 | 2950 | 3000 | 70 [ⓔ] | ↘ | | 101 |
| | | | | 80186 | F40/SP35/ECO | 30 | 20000 | 3200 | 2910 | 3500 | 73 [ⓔ] | ↘ | | 101 |
| | | | | 80187 | F40/SP41/ECO | 30 | 20000 | 3200 | 2910 | 4100 | 72 [ⓔ] | ↘ | | 101 |
| | | | | 23382 | F40/SP41/ECO/C | 10 | 20000 | 3200 | 2910 | 4100 | 72 [ⓔ] | ↘ | | 101 |
| | | | | 80188 | F40/SP65/ECO | 30 | 20000 | 3050 | 2775 | 6500 | 75 [ⓔ] | ↘ | | 101 |
| | | | | 25400 | F40/SP65/ECO/UPC | 30 | 20000 | 3050 | 2775 | 6500 | 75 [ⓔ] | ↘ | | 101 |
| | | | | 80189 | F40/SPX30/ECO | 30 | 20000 | 3400 | 3090 | 3000 | 82 [ⓔ] | ↘ | | 101 |
| | | | | 80190 | F40/SPX35/ECO | 30 | 20000 | 3400 | 3090 | 3500 | 82 [ⓔ] | ↘ | | 101 |
| | | | | 80191 | F40/SPX41/ECO | 30 | 20000 | 3350 | 3050 | 4100 | 80 [ⓔ] | ↘ | | 101 |
| | | | | 80199 | F40/SPX50/ECO | 30 | 20000 | 3200 | 2860 | 5000 | 80 [ⓔ] | ↘ | | 101 |
| | | | | 80096 | F40/C50/ECO | 30 | 20000 | 2250 | 1870 | 5000 | 90 | ↘ | | 101 Chroma 50 |
| | | | | 25399 | F40/C50/ECO/UPC | 30 | 20000 | 2250 | 1870 | 5000 | 90 | ↘ | | 101 Chroma 50 |
| | | | | 13795 | F40/C75 30PK | 30 | 20000 | 1950 | 1680 | 7500 | 92 | ↘ | | 101 Chroma 75, non-TCLP compliant |
| | | | | 13969 | F40/D/ULTRA/ECO 6PK | 24 | 20000 | 3050 | 2775 | 6500 | 75 [ⓔ] | ↘ | | 101 Daylight |
| | | | | 80097 | F40/DX/ECO | 30 | 20000 | 2250 | 1910 | 6500 | 84 [ⓔ] | ↘ | | 101 Daylight Deluxe |
| | | | | 40333 | F40/KB/ECO 2PK | 9 | 20000 | 3400 | 3090 | 3000 | 70 [ⓔ] | ↘ | | 101 Kitchen & Bath |
| | | | | 21323 | F40/KB/ECO 6PK | 24 | 20000 | 3400 | 3090 | 3000 | 70 [ⓔ] | ↘ | | 101 Kitchen & Bath |
| | | | | 80098 | F40/N/ECO | 30 | 20000 | 2100 | 1740 | 3700 | 90 | ↘ | | 101 Natural |
| | | | | 12224 | F40/SUN/ECO 6PK | 24 | 20000 | 2250 | 1870 | 5000 | 90 | ↘ | | 101 Sunlight |
| | | | | 14440 | F40/RES/ECO/SLV | 30 | 15000 | 3150 | 2860 | 4100 | 72 [ⓔ] | ↘ | | 101 |
| | | | | 14433 | F40/RES/ECO/SLV 6PK | 24 | 15000 | 3150 | 2860 | 4100 | 72 [ⓔ] | ↘ | | 101 |
| | | | | 14441 | F40/RES/ECO TWN 9PK | 9 | 15000 | 3150 | 2860 | 4100 | 72 [ⓔ] | ↘ | | 101 |
| 40W ECOLUX® XL EXTRA-LIFE | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 40 | 48 | 80217 | F40/XL/SP30/ECO | 30 | 24000 | 3300 | 2970 | 3000 | 75 [ⓔ] | ↘ | | 101 |
| | | | | 80224 | F40/XL/SP35/ECO | 30 | 24000 | 3300 | 2970 | 3500 | 75 [ⓔ] | ↘ | | 101 |
| | | | | 80227 | F40/XL/SP41/ECO | 30 | 24000 | 3300 | 2970 | 4100 | 73 [ⓔ] | ↘ | | 101 |
| | | | | 80230 | F40/XL/SPX30/ECO | 30 | 24000 | 3400 | 3060 | 3000 | 82 [ⓔ] | ↘ | | 101 |
| | | | | 80248 | F40/XL/SPX35/ECO | 30 | 24000 | 3400 | 3060 | 3500 | 82 [ⓔ] | ↘ | | 101 |
| | | | | 80249 | F40/XL/SPX41/ECO | 30 | 24000 | 3400 | 3060 | 4100 | 80 [ⓔ] | ↘ | | 101 |
| | | | | 80250 | F40/XL/SPX50/ECO | 30 | 24000 | 3350 | 3050 | 5000 | 80 [ⓔ] | ↘ | | 101 |
| 25W ECOLUX® UTILITY SHOPLIGHT | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 25 | 48 | 14450 | F48/25W/UTECO/SLV | 30 | 12000 | 1860 | 1675 | 4100 | 60 | | 10 | 101 |
| | | | | 14456 | F48/25W/UTECO/TWN | 9 | 12000 | 1860 | 1675 | 4100 | 60 | | 10 | 101 |
| | | | | 14445 | F48/25W/UTECO/UPC | 30 | 12000 | 1860 | 1675 | 4100 | 60 | | 10 | 101 |

ⓔ Means this lamp meets Federal Minimum Efficiency Standards.

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Fluorescent Lamps

| Bulb Base | Nominal Length Watts in. | Order Code | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot-notes | Warning and Cautions | | Additional Information |
|---|-----------------------------|-------------------|-------------|---------------------|------------|-------------|------|-------|-------------|------|------------------|----------------------|------------------------|------------------------|
| | | | | | | Initial | Mean | Final | K | CRI | | Notes | Additional Information | |
| T12 LAMPS (CONTINUED) | | | | | | | | | | | | | | |
| T12 MOD-U-LINE® | | | | | | | | | | | | | | |
| T12 3 5/8" SPACING | | | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 40 | 22.5 | 15259 | F40/SP30/U/3 | 12 | 14000 | 2925 | 2660 | 3000 | 70 | Ⓜ | Ⓜ | 105 | |
| | | | 14228 | F40/SP35/U/3 | 12 | 14000 | 2925 | 2660 | 3500 | 73 | Ⓜ | Ⓜ | 105 | |
| | | | 15260 | F40/SP41/U/3 | 12 | 14000 | 2925 | 2660 | 4100 | 72 | Ⓜ | Ⓜ | 105 | |
| | | | 14814 | F40/SPX30/U/3 | 12 | 14000 | 3000 | 2730 | 3000 | 82 | Ⓜ | Ⓜ | 105 | |
| | | | 14813 | F40/SPX35/U/3 | 12 | 14000 | 3000 | 2730 | 3500 | 82 | Ⓜ | Ⓜ | 105 | |
| | | | 14649 | F40/SCW/U/3 | 12 | 14000 | 2725 | 2400 | 4100 | 75 | Ⓜ | Ⓜ | 105 | Super Cool White |
| T12 6" SPACING | | | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 40 | 22.5 | 15263 | F40/SP30/U/6 | 12 | 14000 | 3050 | 2780 | 3000 | 70 | Ⓜ | Ⓜ | 105 | |
| | | | 14227 | F40/SP35/U/6 | 12 | 14000 | 3050 | 2780 | 3500 | 73 | Ⓜ | Ⓜ | 105 | |
| | | | 22050 | F40/SP35/U/6/UPC | 12 | 14000 | 3050 | 2780 | 3500 | 73 | Ⓜ | Ⓜ | 105 | |
| | | | 15265 | F40/SP41/U/6 | 12 | 14000 | 3050 | 2780 | 4100 | 72 | Ⓜ | Ⓜ | 105 | |
| | | | 14816 | F40/SPX30/U/6 | 12 | 14000 | 3100 | 2820 | 3000 | 82 | Ⓜ | Ⓜ | 105 | |
| | | | 14648 | F40/SCW/U/6 | 12 | 14000 | 2800 | 2460 | 4100 | 75 | Ⓜ | Ⓜ | 105 | Super Cool White |
| | | | 25374 | F40/SCW/U/6/UPC 6PK | 6 | 14000 | 2800 | 2460 | 4100 | 75 | Ⓜ | Ⓜ | 105 | Super Cool White |
| | | | 14815 | F40/SPX35/U/6 | 12 | 14000 | 3100 | 2820 | 3500 | 82 | Ⓜ | Ⓜ | 105 | |
| 14632 | F40/SWW/U/6 | 12 | 14000 | 2800 | 2460 | 3000 | 75 | Ⓜ | Ⓜ | 105 | Super Warm White | | | |
| WATT-MISER® ENERGY SAVING LAMPS | | | | | | | | | | | | | | |
| T12 3 5/8" SPACING WATT-MISER® | | | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 35 | 22.5 | 12199 | F35/CW/U/3/WM | 12 | 14000 | 2200 | 2050 | 4100 | 60 | Ⓜ | Ⓜ | 1 | 105 |
| | | | 12200 | F35/WW/U/3/WM | 12 | 14000 | 2300 | 2100 | 3000 | 52 | Ⓜ | Ⓜ | 1 | 105 |
| T12 6" SPACING WATT-MISER® | | | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 35 | 22.5 | 12203 | F35/CW/U/6/WM | 12 | 14000 | 2300 | 2100 | 4100 | 60 | Ⓜ | Ⓜ | 1 | 105 |
| | | | 14471 | F35/CW/U/6/WM/UPC | 12 | 14000 | 2300 | 2100 | 4100 | 60 | Ⓜ | Ⓜ | 1 | 105 |
| | | | 23383 | F35/CW/U/6/WM/C | 6 | 14000 | 2300 | 2100 | 4100 | 60 | Ⓜ | Ⓜ | 1 | 105 |
| | | | 12207 | F35/WW/U/6/WM | 12 | 14000 | 2350 | 2150 | 3000 | 52 | Ⓜ | Ⓜ | 1 | 105 |
| T12 6" SPACING WATT-MISER® ECOLUX® | | | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 34 | 22.5 | 15622 | F34/CW/U/6/WM/ECO | 12 | 18000 | 2600 | 2235 | 4200 | 62 | Ⓜ | Ⓜ | 1 | 105 |
| T12 INSTANT START | | | | | | | | | | | | | | |
| T12 Single Pin (Fa8) | 20 | 24 | 10691 | F24T12/CW | 24 | 7500 | 1050 | 900 | 4100 | 60 | | | | 101 |
| | | | 30 | 36 | 10709 | F36T12/CW | 24 | 7500 | 2000 | 1800 | 4100 | 60 | | |
| | 35 | 42 | 10735 | F42T12/CW | 24 | 7500 | 2400 | 2210 | 4100 | 60 | | | | 101 |
| | | | 40 | 48 | 15262 | F48T12/SP35 | 24 | 9000 | 3000 | 2820 | 3500 | 73 | Ⓜ | |
| | 15088 | F48T12/SPX30 | | | 24 | 9000 | 3050 | 2870 | 3000 | 82 | Ⓜ | | | 101 |
| | 15116 | F48T12/SPX35 | | | 24 | 9000 | 3050 | 2870 | 3500 | 82 | Ⓜ | | | 101 |
| | 10748 | F48T12/CW | | | 24 | 9000 | 2875 | 2650 | 4100 | 60 | | | | 101 |
| | 20461 | F48T12/CW/UPC 6PK | 24 | 9000 | 2875 | 2650 | 4100 | 60 | | | | | 101 | |
| WATT-MISER® ENERGY SAVING LAMPS | | | | | | | | | | | | | | |
| T12 Single Pin (Fa8) | 30 | 48 | 14319 | F48T12/SP35/WM | 24 | 9000 | 2575 | 2420 | 3500 | 73 | Ⓜ | Ⓜ | 1 | 101 |
| | | | 13048 | F48T12/SP41/WM | 24 | 9000 | 2575 | 2420 | 4100 | 72 | Ⓜ | Ⓜ | 1 | 101 |
| | | | 44967 | F48T12/CW/WM | 24 | 9000 | 2475 | 2400 | 2210 | 60 | Ⓜ | Ⓜ | 1 | 101 |
| 8' T12 INSTANT START | | | | | | | | | | | | | | |
| 8' INSTANT START STANDARD | | | | | | | | | | | | | | |
| T12 Single Pin (Fa8) | 75 | 96 | 15357 | F96T12/SP30 15PK | 15 | 12000 | 6500 | 6110 | 3000 | 70 | Ⓜ | Ⓜ | | 101 |
| | | | 14067 | F96T12/SP35 15PK | 15 | 12000 | 6500 | 6110 | 3500 | 73 | Ⓜ | Ⓜ | | 101 |
| | | | 15358 | F96T12/SP41 15PK | 15 | 12000 | 6500 | 6110 | 4100 | 72 | Ⓜ | Ⓜ | | 101 |
| | | | 12127 | F96T12/SP65 | 15 | 12000 | 6125 | 5760 | 6500 | 75 | Ⓜ | Ⓜ | | 101 |
| | | | 15110 | F96T12/SPX30 15PK | 15 | 12000 | 6800 | 6390 | 3000 | 82 | Ⓜ | Ⓜ | | 101 |

Ⓜ Means this lamp meets Federal Minimum Efficiency Standards.

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Fluorescent Lamps

| Bulb Base | Nominal Length Order | | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot-notes | Warning and Cautions | Additional Information |
|---|----------------------|-----|-------------|-----------|-----------------------|--------|---------|------|-------------|------|------------|----------------------|------------------------|
| | Watts | in. | | | | Code | Initial | Mean | K | CRI | | | |
| T12 LAMPS (CONTINUED) | | | | | | | | | | | | | |
| 8' T12 INSTANT START (CONTINUED) | | | | | | | | | | | | | |
| 8' INSTANT START STANDARD (CONTINUED) | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 75 | 96 | 15101 | F96T12/SPX35 15PK | 15 | 12000 | 6800 | 6390 | 3500 | 82 | Ⓢ | 101 |
| | | | | 15335 | F96T12/SPX41 15PK | 15 | 12000 | 6800 | 6390 | 4100 | 80 | Ⓢ | 101 |
| | | | | 23466 | F96T12/SPX50 15PK | 15 | 12000 | 6250 | 5880 | 5000 | 80 | Ⓢ | 101 |
| | | | | 14652 | F96T12/DX | 15 | 12000 | 4500 | 4050 | 6500 | 84 | Ⓢ | 101 Daylight Deluxe |
| | | | | 13725 | F96T12/N 15PK | 15 | 12000 | 4250 | 3740 | 3700 | 90 | Ⓢ | 101 Natural |
| | | | | 13752 | F96T12/C50 | 15 | 12000 | 4600 | 4050 | 5000 | 90 | Ⓢ | 101 Chroma 50 |
| | | | | 25387 | F96T12/C50/UPC | 15 | 12000 | 4600 | 4050 | 5000 | 90 | Ⓢ | 101 Chroma 50 |
| 8' INSTANT START XL EXTRA-LIFE | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 75 | 96 | 23576 | F96T12/XL/SP35 | 15 | 15000 | 6700 | 6180 | 3500 | 75 | Ⓢ | 101 |
| | | | | 11661 | F96T12/XL/SP41 | 15 | 15000 | 6700 | 6180 | 4100 | 73 | Ⓢ | 101 |
| | | | | 11664 | F96T12/XL/SPX41 | 15 | 15000 | 6900 | 6370 | 4100 | 80 | Ⓢ | 101 |
| | | | | 11665 | F96T12/XL/SPX50 | 15 | 15000 | 6425 | 5930 | 5000 | 80 | Ⓢ | 101 |
| WATT-MISER® ENERGY SAVING LAMPS | | | | | | | | | | | | | |
| 8' INSTANT START WATT-MISER® | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96 | 14201 | F96T12/SP30/WM 15PK | 15 | 12000 | 5700 | 5360 | 3000 | 70 | Ⓢ | 101 |
| | | | | 13849 | F96T12/SP35/WM 15PK | 15 | 12000 | 5700 | 5360 | 3500 | 73 | Ⓢ | 101 |
| | | | | 21856 | F96T12/SP35/WM/UPC | 15 | 12000 | 5700 | 5360 | 3500 | 73 | Ⓢ | 101 |
| | | | | 11217 | F96T12/SP35/WM/C 10PK | 10 | 12000 | 5700 | 5360 | 3500 | 73 | Ⓢ | 101 |
| | | | | 13758 | F96T12/SP41/WM 15PK | 15 | 12000 | 5700 | 5360 | 4100 | 72 | Ⓢ | 101 |
| | | | | 25395 | F96T12/SP41/WM/UPC | 15 | 12000 | 5700 | 5360 | 4100 | 72 | Ⓢ | 101 |
| | | | | 25171 | F96T12/UTCW/EE/C | 10 | 12000 | 5500 | 5060 | 4100 | 60 | Ⓢ | 101 |
| | | | | 12128 | F96T12/SP65/WM | 15 | 12000 | 5100 | 4800 | 6500 | 75 | Ⓢ | 101 |
| | | | | 14629 | F96T12/SPX30/WM 15PK | 15 | 12000 | 6000 | 5640 | 3000 | 82 | Ⓢ | 101 |
| | | | | 14630 | F96T12/SPX35/WM 15PK | 15 | 12000 | 6000 | 5640 | 3500 | 82 | Ⓢ | 101 |
| | | | | 13756 | F96T12/C50/WM 15PK | 15 | 12000 | 4000 | 3520 | 5000 | 90 | Ⓢ | 101 Chroma 50 |
| | | | | 13729 | F96T12/CW/WM 15PK | 15 | 12000 | 5500 | 5060 | 4100 | 60 | Ⓢ | 101 |
| | | | | 21713 | F96T12/CW/WM/UPC 10PK | 10 | 12000 | 5500 | 5060 | 4100 | 60 | Ⓢ | 101 |
| | | | | 13742 | F96T12/LW/WM 15PK | 15 | 12000 | 5800 | 5340 | 4200 | 49 | Ⓢ | 101 Lite White |
| | | | | 13736 | F96T12/WW/WM 15PK | 15 | 12000 | 5700 | 5240 | 3000 | 52 | Ⓢ | 101 Warm White |
| 8' INSTANT START WATT-MISER® XL EXTRA-LIFE | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96 | 12406 | F96T12/XL/SP35/WM | 15 | 15000 | 5900 | 5480 | 3500 | 75 | Ⓢ | 101 |
| | | | | 12408 | F96T12/XL/SP41/WM | 15 | 15000 | 5900 | 5480 | 4100 | 73 | Ⓢ | 101 |
| 8' INSTANT START WATT-MISER® ECOLUX® | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96 | 27233 | F96T12/SP35/WM/ECO | 15 | 12000 | 5700 | 5360 | 3500 | 73 | Ⓢ | 101 |
| | | | | 27235 | F96T12/SP41/WM/ECO | 15 | 12000 | 5700 | 5360 | 4100 | 72 | Ⓢ | 101 |
| | | | | 40373 | F96T12/SP65/WM/ECO | 15 | 12000 | 5100 | 4800 | 6500 | 75 | Ⓢ | 101 |
| | | | | 27237 | F96T12/SPX30/WM/ECO | 15 | 12000 | 6000 | 5640 | 3000 | 82 | Ⓢ | 101 |
| | | | | 27238 | F96T12/SPX35/WM/ECO | 15 | 12000 | 6000 | 5640 | 3500 | 82 | Ⓢ | 101 |
| | | | | 27186 | F96T12/CW/WM/ECO | 15 | 12000 | 5500 | 5060 | 4100 | 60 | Ⓢ | 101 |
| T12 OTHER LENGTHS | | | | | | | | | | | | | |
| 5' T12 INSTANT START | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 50 | 60 | 23073 | F60T12/CW 15PK | 15 | 12000 | 3600 | 3310 | 4100 | 60 | | 101 |
| | | | | 23076 | F60T12/D 15PK | 15 | 12000 | 3000 | 2760 | 6500 | 75 | Ⓢ | 101 Daylight |
| 64" T12 INSTANT START | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 50 | 64 | 23082 | F64T12/CW15PK | 15 | 10000 | 3850 | 3540 | 4100 | 60 | | 101 |
| | | | | 23085 | F64T12/D 15PK | 15 | 10000 | 3300 | 3040 | 6500 | 75 | Ⓢ | 101 Daylight |

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.

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Fluorescent Lamps

| Bulb Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Foot-notes | Warning and Cautions | Additional Information |
|--|----------------------|-----------|------|-------------|--------------------|------------|----------------|-------------|---------------|------|------------|----------------------|------------------------|
| T12 LAMPS (CONTINUED) | | | | | | | | | | | | | |
| T12 OTHER LENGTHS (CONTINUED) | | | | | | | | | | | | | |
| 6' T12 INSTANT START® | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 55 | 72 | 15286 | F72T12/SP35 15PK | 15 | 12000 | 4700 | 4420 | 3500 | 73 | ☞ | 101 |
| | | | | 15097 | F72T12/SP41 | 15 | 12000 | 4700 | 4420 | 4100 | 72 | ☞ | 101 |
| | | | | 15117 | F72T12SPX30 15PK | 15 | 12000 | 4800 | 4510 | 3000 | 82 | ☞ | 101 |
| | | | | 15098 | F72T12/SPX35 15PK | 15 | 12000 | 4800 | 4510 | 3500 | 82 | ☞ | 101 |
| | | | | 13743 | F72T12/CW 15PK | 15 | 12000 | 4500 | 4140 | 4100 | 60 | | 101 |
| | | | | 23385 | F72T12/CW/C | 10 | 12000 | 4500 | 4140 | 4100 | 60 | | 101 |
| | | | | 12525 | F72T12/CW/UPC 10PK | 10 | 12000 | 4500 | 4140 | 4100 | 60 | | 101 |
| | | | | 13748 | F72T12/D 15PK | 15 | 12000 | 3800 | 3500 | 6500 | 75 | ☞ | 101 Daylight |
| 7' T12 INSTANT START® | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 65 | 84 | 13764 | F84T12/CW 15PK | 15 | 12000 | 5300 | 4880 | 4100 | 60 | | 101 |
| T12 HIGH OUTPUT (800mA) RAPID START RECESSED DOUBLE CONTACT | | | | | | | | | | | | | |
| 18" HIGH OUTPUT | | | | | | | | | | | | | |
| T12 | R17d | 30 | 18 | 10204 | F18T12/CW/HO | 24 | 9000 | 1000 | 750 | 4100 | 60 | | 101 |
| 2' HIGH OUTPUT | | | | | | | | | | | | | |
| T12 | R17d | 35 | 24 | 10261 | F24T12/CW/HO | 24 | 9000 | 1620 | 1345 | 4100 | 60 | | 101 |
| | | | | 10275 | F24T12/D/HO | 24 | 9000 | 1400 | 1160 | 6500 | 74 | ☞ | 101 Daylight |
| 30" HIGH OUTPUT | | | | | | | | | | | | | |
| T12 | R17d | 40 | 30 | 33707 | F30T12/CW/HO | 24 | 9000 | 2250 | 1950 | 4100 | 60 | | 101 |
| 3' HIGH OUTPUT | | | | | | | | | | | | | |
| T12 | R17d | 45 | 36 | 10374 | F36T12/CW/HO | 24 | 9000 | 2800 | 2440 | 4100 | 60 | | 101 |
| | | | | 10380 | F36T12/D/HO | 24 | 9000 | 2350 | 2040 | 6500 | 75 | ☞ | 101 |
| | | | | 10388 | F36T12/SGN/HO | 24 | 9000 | 2150 | 1830 | 5400 | 82 | ☞ | 101 |
| 42" HIGH OUTPUT | | | | | | | | | | | | | |
| T12 | R17d | 55 | 42 | 10559 | F42T12/CW/HO | 24 | 9000 | 3200 | 2790 | 4100 | 60 | | 101 |
| | | | | 10560 | F42T12/D/HO | 24 | 9000 | 2900 | 2520 | 6500 | 74 | ☞ | 101 Daylight |
| | | | | 10562 | F42T12/SGN/HO | 24 | 9000 | 2600 | 2215 | 5400 | 82 | ☞ | 101 Sign White |
| 4' HIGH OUTPUT | | | | | | | | | | | | | |
| T12 | R17d | 60 | 48 | 15359 | F48T12/SP30/HO | 24 | 12000 | 4250 | 3830 | 3000 | 70 | ☞ | 101 |
| | | | | 15360 | F48T12/SP35/HO | 24 | 12000 | 4250 | 3830 | 3500 | 73 | ☞ | 101 |
| | | | | 15361 | F48T12/SP41/HO | 24 | 12000 | 4250 | 3830 | 4100 | 72 | ☞ | 101 |
| | | | | 15115 | F48T12/SPX35/HO | 24 | 12000 | 4350 | 3920 | 3500 | 82 | ☞ | 101 |
| | | | | 10773 | F48T12/CW/HO | 24 | 12000 | 3825 | 3320 | 4100 | 60 | | 101 |
| | | | | 27313 | F48T12/CW/HO/UPC | 24 | 12000 | 3825 | 3320 | 4100 | 60 | ☞ | 101 |
| | | | | 10778 | F48T12/D/HO | 24 | 12000 | 3400 | 2960 | 6500 | 75 | ☞ | 101 Daylight |
| | | | | 10573 | F48T12/SGN/HO | 24 | 12000 | 3100 | 2640 | 5400 | 80 | | 101 Sign White |
| 4' HIGH OUTPUT WATT-MISER® ENERGY SAVING LAMPS | | | | | | | | | | | | | |
| T12 | R17d | 55 | 48 | 15342 | F48T12/SP35/HO/WM | 24 | 12000 | 3850 | 3465 | 3500 | 73 | ☞ ⚡ 1 | 101 |
| | | | | 11179 | F48T12/LW/HO/WM | 24 | 12000 | 3900 | 3390 | 4200 | 49 | ⚡ 1 | 101 Lite White |
| 5' HIGH OUTPUT | | | | | | | | | | | | | |
| T12 | R17d | 75 | 60 | 23075 | F60T12/CW/HO 15PK | 15 | 12000 | 5150 | 4480 | 4100 | 60 | | 101 |
| | | | | 23077 | F60T12/D/HO 15PK | 15 | 12000 | 4400 | 3830 | 6500 | 75 | ☞ | 101 Daylight |
| | | | | 23081 | F60T12/SGN/HO 15PK | 15 | 12000 | 4000 | 3400 | 5400 | 82 | ☞ | 101 Sign White |
| 64" HIGH OUTPUT | | | | | | | | | | | | | |
| T12 | R17d | 80 | 64 | 23083 | F64T12/CW/HO 15PK | 15 | 12000 | 5600 | 4870 | 4100 | 60 | | 101 |
| | | | | 23087 | F64T12/D/HO 15PK | 15 | 12000 | 4750 | 4130 | 6500 | 75 | ☞ | 101 Daylight |
| | | | | 23089 | F64T12/SGN/HO15PK | 15 | 12000 | 4300 | 3660 | 5400 | 82 | ☞ | 101 Sign White |



| Bulb Base | Nominal Length Order | | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot- notes | Warning and Cautions | | Additional Information |
|--|----------------------|-----|------------------------------|-----------|------------|--------|---------|------|-------------|-------|-------------|----------------------|-----------------|------------------------|
| | Watts | in. | | | | Code | Initial | Mean | K | CRI | | Temp. | Temp. | |
| T12 LAMPS (CONTINUED) | | | | | | | | | | | | | | |
| T12 HIGH OUTPUT (800mA) RAPID START RECESSED DOUBLE CONTACT (CONTINUED) | | | | | | | | | | | | | | |
| 6' HIGH OUTPUT | | | | | | | | | | | | | | |
| T12 R17d | 85 | 72 | 15343 F72T12/SP30/HO 15PK | 15 | 12000 | 6650 | 5990 | 3000 | 70 | ☉ | | 101 | | |
| | | | 15347 F72T12/SP35/HO 15PK | 15 | 12000 | 6650 | 5990 | 3500 | 73 | ☉ | | 101 | | |
| | | | 15348 F72T12/SP41/HO 15PK | 15 | 12000 | 6650 | 5990 | 4100 | 72 | ☉ | | 101 | | |
| | | | 15137 F72T12/SPX30/HO 15PK | 15 | 12000 | 6800 | 6120 | 3000 | 82 | ☉ | | 101 | | |
| | | | 15351 F72T12/SPX35/HO 15PK | 15 | 12000 | 6800 | 6120 | 3500 | 82 | ☉ | | 101 | | |
| | | | 13697 F72T12/CW/HO 15PK | 15 | 12000 | 6350 | 5520 | 4100 | 60 | | | 101 | | |
| | | | 13699 F72T12/D/HO 15PK | 15 | 12000 | 5350 | 4650 | 6500 | 75 | ☉ | | 101 | Daylight | |
| | | | 12527 F72T12/N/HO | 10 | 12000 | 4300 | 3610 | 3700 | 90 | ☉ | | 101 | Natural | |
| | | | 13701 F72T12/SGN/HO 15PK | 15 | 12000 | 4900 | 4170 | 5400 | 82 | ☉ | | 101 | Sign White | |
| | | | 13702 F72T12/WW/HO 15PK | 15 | 12000 | 6550 | 5700 | 3000 | 52 | | | 101 | Warm White | |
| 7' HIGH OUTPUT | | | | | | | | | | | | | | |
| T12 R17d | 100 | 84 | 13766 F84T12/CW/HO 15PK | 15 | 12000 | 7700 | 6700 | 4100 | 60 | | | 101 | | |
| | | | 13767 F84T12/D/HO 15PK | 15 | 12000 | 6500 | 5660 | 6500 | 75 | ☉ | | 101 | Daylight | |
| | | | 13768 F84T12/SGN/HO 15PK | 15 | 12000 | 6000 | 5100 | 5400 | 82 | ☉ | | 101 | Sign White | |
| 8' HIGH OUTPUT | | | | | | | | | | | | | | |
| T12 R17d | 110 | 96 | 15362 F96T12/SP30/HO 15PK | 15 | 12000 | 9200 | 8280 | 3000 | 70 | ☉ ☉ | | 101 | | |
| | | | 15363 F96T12/SP35/HO 15PK | 15 | 12000 | 9200 | 8280 | 3500 | 73 | ☉ ☉ | | 101 | | |
| | | | 15364 F96T12/SP41/HO 15PK | 15 | 12000 | 9200 | 8280 | 4100 | 72 | ☉ ☉ | | 101 | | |
| | | | 12130 F96T12/SP65/HO | 15 | 12000 | 8900 | 8010 | 6500 | 75 | ☉ ☉ | | 101 | | |
| | | | 15119 F96T12/SPX30/HO 15PK | 15 | 12000 | 9350 | 8420 | 3000 | 82 | ☉ ☉ | | 101 | | |
| | | | 15352 F96T12/SPX35/HO 15PK | 15 | 12000 | 9350 | 8420 | 3500 | 82 | ☉ ☉ | | 101 | | |
| | | | 23070 F96T12/SPX41/HO 15PK | 15 | 12000 | 9350 | 8420 | 4100 | 80 | ☉ ☉ | | 101 | | |
| | | | 13707 F96T12/C50/HO 15PK | 15 | 12000 | 6750 | 5670 | 5000 | 90 | ☉ | | 101 | Chroma 50 | |
| | | | 14653 F96T12/DX/HO | 15 | 12000 | 6600 | 5610 | 6500 | 84 | ☉ | | 101 | Daylight Deluxe | |
| | | | 13709 F96T12/N/HO 15PK | 15 | 12000 | 6200 | 5210 | 3700 | 90 | ☉ | | 101 | Natural | |
| 8' HIGH OUTPUT WATT-MISER® ENERGY SAVING LAMPS | | | | | | | | | | | | | | |
| T12 R17d | 95 | 96 | 14069 F96T12/SP35/HO/WM | 15 | 12000 | 8350 | 7520 | 3500 | 73 | ☉ ☉ ⚡ | 1 | 101 | | |
| | | | 13721 F96T12/SP41/HO/WM 15PK | 15 | 12000 | 8350 | 7520 | 4100 | 72 | ☉ ☉ ⚡ | 1 | 101 | | |
| | | | 12131 F96T12/SP65/HO/WM | 15 | 12000 | 7700 | 6930 | 6500 | 75 | ☉ ☉ ⚡ | 1 | 101 | | |
| | | | 15120 F96T12/SPX30/HO/WM | 15 | 12000 | 8500 | 7650 | 3000 | 82 | ☉ ☉ ⚡ | 1 | 101 | | |
| | | | 15122 F96T12/SPX35/HO/WM | 15 | 12000 | 8500 | 7650 | 3500 | 82 | ☉ ☉ ⚡ | 1 | 101 | | |
| | | | 23069 F96T12/SPX41/HO/WM | 15 | 12000 | 8500 | 7650 | 4100 | 80 | ☉ ☉ ⚡ | 1 | 101 | | |
| | | | 13716 F96T12/CW/HO/WM 15PK | 15 | 12000 | 8000 | 6960 | 4100 | 60 | ☉ | 1 | 101 | | |
| | | | 21714 F96T12/CW/HO/WM/UPC | 15 | 12000 | 8000 | 6960 | 4100 | 60 | ☉ | 1 | 101 | | |
| | | | 13720 F96T12/LW/HO/WM | 15 | 12000 | 8500 | 7900 | 4200 | 49 | ☉ ⚡ | 1 | 101 | Lite White | |
| | | | 13719 F96T12/WW/HO/WM 15PK | 15 | 12000 | 8200 | 7130 | 3000 | 52 | ☉ ⚡ | 1 | 101 | Warm White | |
| 8' HIGH OUTPUT WATT-MISER ECOLUX® | | | | | | | | | | | | | | |
| T12 R17d | 95 | 96 | 16495 F96T12/CW/HO/WM/ECO | 15 | 12000 | 8000 | 6480 | 4100 | 60 | ☉ ☉ ⚡ | 1 | 101 | | |
| T12 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT | | | | | | | | | | | | | | |
| T12 R17d | 110 | 48 | 10751 F48T12/CW/1500 | 24 | 10000 | 6200 | 4030 | 4100 | 60 | | 4 | 101 | | |
| | 165 | 72 | 13760 F72T12/CW/1500 15PK | 15 | 10000 | 9000 | 6300 | 4100 | 60 | | 4 | 101 | | |
| | 185 | 96 | 13789 F96T12/CW/1500/WM 15PK | 15 | 9000 | 12500 | 9380 | 4100 | 60 | | ⚡ 4 | 101 | | |
| | | | 13790 F96T12/LW/1500/WM 15PK | 15 | 9000 | 13250 | 9940 | 4200 | 49 | | ⚡ 4 | 101 | Lite White | |
| | 215 | 96 | 13781 F96T12/CW/1500 15PK | 15 | 10000 | 13500 | 10125 | 4100 | 60 | | 4 | 101 | | |
| | | | 13783 F96T12/D/1500 15PK | 15 | 10000 | 11500 | 8630 | 6500 | 74 | ☉ | 4 | 101 | Daylight | |
| | | | 13785 F96T12/WW/1500 15PK | 15 | 10000 | 14000 | 10500 | 3000 | 52 | | 4 | 101 | | |

☉ Means this lamp meets Federal Minimum Efficiency Standards.



Fluorescent Lamps

| Bulb Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot-notes | Warning and Cautions | | Additional Information |
|---|----------------------|-----------|------|-------------|----------------|------------|---------|-------|-------|-------------|-----|------------|----------------------|------------------------------------|------------------------|
| | | | | | | | Initial | Mean | Final | K | CRI | | Notes | Caution | |
| T12 LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| T12 PREHEAT | | | | | | | | | | | | | | | |
| 15" | | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 14 | 15 | 10116 | F14T12/CW | 24 | 9000 | 650 | 550 | 4100 | 60 | | 101 | Preheat | |
| | | | | 10117 | F14T12/CW 6PK | 24 | 9000 | 650 | 550 | 4100 | 60 | | 101 | Preheat | |
| | | | | 22979 | F14T12/KB 6PK | 24 | 9000 | 700 | 650 | 3000 | 70 | ☞ | 104 | Preheat, Kitchen & Bath | |
| 18" | | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 15 | 18 | 10183 | F15T12/CW 6PK | 24 | 9000 | 760 | 685 | 4100 | 60 | | 10 | Preheat | |
| | | | | 22745 | F15T12/KB 6PK | 24 | 9000 | 785 | 730 | 3000 | 70 | ☞ | 104 | Preheat, Kitchen & Bath | |
| | | | | 10185 | F15T12/WW | 24 | 9000 | 780 | 700 | 3000 | 52 | | 101 | Preheat | |
| 24" | | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 20 | 24 | 14423 | F20T12/SP35 | 24 | 9000 | 1275 | 1200 | 3500 | 73 | ☞ | 101 | Preheat | |
| | | | | 15353 | F20T12/SP41 | 24 | 9000 | 1275 | 1200 | 4100 | 72 | ☞ | 101 | Preheat | |
| | | | | 15354 | F20T12/SPX35 | 24 | 9000 | 1300 | 1220 | 3500 | 82 | ☞ | 101 | Preheat | |
| | | | | 38114 | F20T12/C50 | 24 | 9000 | 875 | 790 | 5000 | 90 | ☞ | 101 | Preheat, Chroma 50 | |
| | | | | 10213 | F20T12/CW | 24 | 9000 | 1200 | 1150 | 4100 | 60 | | 101 | Preheat | |
| | | | | 10214 | F20T12/CW 6PK | 24 | 9000 | 1200 | 1150 | 4100 | 60 | | 101 | Preheat | |
| | | | | 10205 | F20T12/D | 24 | 9000 | 1025 | 945 | 6500 | 75 | ☞ | 101 | Preheat, Daylight | |
| | | | | 25575 | F20T12/D/UPC | 24 | 9000 | 1025 | 945 | 6500 | 75 | ☞ | 101 | Preheat, Daylight | |
| | | | | 21325 | F20T12/KB 6PK | 24 | 9000 | 1275 | 1200 | 3000 | 70 | ☞ | 104 | Preheat, Kitchen & Bath | |
| | | | | 14419 | F20T12/SUN 6PK | 24 | 9000 | 875 | 790 | 5000 | 90 | ☞ | 101 | Preheat, Sunlight | |
| | | | | 10217 | F20T12/WW | 24 | 9000 | 1250 | 1150 | 3000 | 52 | | 101 | Preheat, Warm White | |
| | | | | 25577 | F20T12/WW-UPC | 24 | 9000 | 1250 | 1150 | 3000 | 52 | | 101 | Preheat, Warm White | |
| OTHER DIAMETERS | | | | | | | | | | | | | | | |
| T6 INSTANT START | | | | | | | | | | | | | | | |
| T6 | Single Pin (Fa8) | 25 | 42 | 12221 | F42T6/SP35 | 24 | 7500 | 1830 | 1700 | 3500 | 73 | ☞ | 101 | | |
| | | | | 10720 | F42T6/CW | 24 | 7500 | 1750 | 1580 | 4100 | 60 | | 101 | | |
| | | | | 10721 | F42T6/WW | 24 | 7500 | 1825 | 1640 | 3000 | 52 | | 101 | Warm White | |
| | | 40 | 64 | 12223 | F64T6/SP35 | 24 | 7500 | 2930 | 2720 | 3500 | 73 | ☞ | 101 | | |
| | | | | 10805 | F64T6/CW | 24 | 7500 | 2800 | 2520 | 4100 | 60 | | 101 | | |
| | | | | 10807 | F64T6/WW | 24 | 7500 | 2900 | 2610 | 3000 | 52 | | 101 | Warm White | |
| T17 INSTANT START | | | | | | | | | | | | | | | |
| T17 | Mogul BiPin (G20) | 40 | 60 | 10575 | F40T17/CW/IS | 12 | 7500 | 2850 | 2620 | 4100 | 60 | 3 | 101 | Use only w/ instant start ballasts | |
| T17 PREHEAT | | | | | | | | | | | | | | | |
| T17 | Mogul BiPin (G20) | 82 | 60 | 43443 | F90T17/CW/WM | 12 | 9000 | 5750 | 5060 | 4100 | 60 | ⚡ 4 | 101 | | |
| | | 90 | 60 | 10643 | F90T17/CW | 12 | 9000 | 6000 | 5280 | 4100 | 60 | 4 | 101 | | |
| PG17 POWER GROOVE RECESSED DOUBLE CONTACT (1500mA) | | | | | | | | | | | | | | | |
| PG17 | R17d | 185 | 96 | 42666 | F96PG17/CW/WM | 8 | 12000 | 12700 | 9900 | 4100 | 60 | ⚡ 4 | 101 | | |
| | | 215 | 96 | 11009 | F96PG17/CW | 8 | 10000 | 14000 | 10915 | 4100 | 60 | 4 | 101 | | |
| | | | | 11018 | F96PG17/D | 8 | 10000 | 12100 | 9440 | 6500 | 74 | ☞ 4 | 101 | Daylight | |
| T9 CIRCLINE® LAMPS | | | | | | | | | | | | | | | |
| T9 | 4 Pin (G10q) | 20 | 6.5 | 42732 | FC6T9/CW | 12 | 12000 | 800 | 560 | 4100 | 60 | | 101 | | |
| | | 22 | 8.25 | 33774 | FC8T9/CW | 12 | 12000 | 1100 | 825 | 4100 | 60 | | 101 | | |
| | | | | 11026 | FC8T9/D | 12 | 12000 | 925 | 690 | 6500 | 75 | ☞ | 101 | Daylight | |
| | | | | 11084 | FC8T9/KB | 6 | 12000 | 1400 | 1120 | 3000 | 82 | ☞ | 104 | Kitchen & Bath | |
| | | 32 | 12 | 33890 | FC12T9/CW | 12 | 12000 | 1950 | 1460 | 4100 | 60 | | 101 | | |
| | | | | 11039 | FC12T9/D | 12 | 12000 | 1675 | 1260 | 6500 | 75 | ☞ | 101 | Daylight | |
| | | | | 11085 | FC12T9/KB | 6 | 12000 | 2400 | 1920 | 3000 | 82 | ☞ | 104 | Kitchen & Bath | |
| | | 40 | 16 | 33893 | FC16T9/CW | 12 | 12000 | 2700 | 2030 | 4100 | 60 | | 101 | | |
| | | | | 11052 | FC16T9/D | 12 | 12000 | 2250 | 1690 | 6500 | 75 | ☞ | 101 | Daylight | |



| Bulb Base | Nominal Length | | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Warning | | | |
|-------------------------------------|----------------|------|-------------|---------------------|------------|--------------|---------|------|-------------|-----|-------------|----------------------|------------------------|-----------|
| | Watts | in. | | | | Order Code | Initial | Mean | K | CRI | Foot- notes | and Cautions | Additional Information | |
| SPECIAL APPLICATION LAMPS | | | | | | | | | | | | | | |
| COVRGUARD® SHATTER PROTECTED | | | | | | | | | | | | | | |
| T5 | | | | | | | | | | | | | | |
| <i>T5 HIGH EFFICIENCY</i> | | | | | | | | | | | | | | |
| T5 Miniature BiPin (G5) | 28 | 45.2 | 81546 | F28T5/830ECO/CVG | 40 | 20000 | 2840 | 2670 | 3000 | 85 | ☞ | 11,13 103 | | |
| | | | 81547 | F28T5/835ECO/CVG | 40 | 20000 | 2840 | 2670 | 3500 | 85 | ☞ | 11,13 103 | | |
| | | | 81548 | F28T5/841ECO/CVG | 40 | 20000 | 2840 | 2670 | 4100 | 85 | ☞ | 11,13 103 | | |
| | | | 81549 | F28T5/850ECO/CVG | 40 | 20000 | 2840 | 2670 | 5000 | 85 | ☞ | 11,13 103 | | |
| | | | 81550 | F28T5/865ECO/CVG | 40 | 20000 | 2840 | 2670 | 6500 | 85 | ☞ | 11,13 103 | | |
| <i>T5 HIGH OUTPUT</i> | | | | | | | | | | | | | | |
| T5 Miniature BiPin (G5) | 54 | 45.2 | 48433 | F54T5/830ECO/HO/CVG | 40 | 30000 | 4850 | 4560 | 3000 | 85 | ☞ | 11,13 103 | | |
| | | | 48436 | F54T5/835ECO/HO/CVG | 40 | 30000 | 4850 | 4560 | 3500 | 85 | ☞ | 11,13 103 | | |
| | | | 48458 | F54T5/841ECO/HO/CVG | 40 | 30000 | 4850 | 4560 | 4100 | 85 | ☞ | 11,13 103 | | |
| | | | 80311 | F54T5/850ECO/HO/CVG | 40 | 30000 | 4650 | 4560 | 5000 | 85 | ☞ | 11,13 103 | | |
| | | | 48469 | F54T5/865ECO/HO/CVG | 40 | 30000 | 4600 | 4320 | 6500 | 85 | ☞ | 11,13 103 | | |
| <i>T5 PREHEAT LAMPS</i> | | | | | | | | | | | | | | |
| T5 Miniature BiPin (G5) | 4 | 6 | 41435 | F4T5/CW/CVG | 24 | 5000 | 130 | 95 | 4100 | 60 | | 11,13 103 | | |
| | | | 6 | 9 | 41106 | F6T5/CW/CVG | 24 | 5000 | 285 | 225 | 4100 | 60 | | 11,13 103 |
| | | | 8 | 12 | 41107 | F8T5/CW/CVG | 24 | 5000 | 385 | 310 | 4100 | 60 | | 11,13 103 |
| | | | 13 | 21 | 41108 | F13T5/CW/CVG | 24 | 5000 | 820 | 680 | 4100 | 60 | | 11,13 103 |
| T6 | | | | | | | | | | | | | | |
| <i>T6 INSTANT START LAMPS</i> | | | | | | | | | | | | | | |
| T6 Single Pin (Fa8) | 25 | 42 | 41140 | F42T6/CW/CVG | 24 | 7500 | 1690 | 1530 | 4100 | 60 | | 11,13 103 | | |
| | | | 41142 | F42T6/SP35/CVG | 24 | 7500 | 1770 | 1640 | 3500 | 73 | ☞ | 11,13 103 | | |
| | | | 41141 | F42T6/WW/CVG | 24 | 7500 | 1770 | 1590 | 3000 | 52 | | 11,13 103 Warm White | | |
| | 40 | 64 | 46422 | F64T6/CW/CVG | 24 | 7500 | 2710 | 2440 | 4100 | 60 | | 11,13 103 | | |
| | | | 41143 | F64T6/SP35/CVG | 24 | 7500 | 2840 | 2630 | 3500 | 73 | ☞ | 11,13 103 | | |
| T8 ECOLUX® W/ STARCOAT | | | | | | | | | | | | | | |
| <i>2' T8 ECOLUX® W/ STARCOAT</i> | | | | | | | | | | | | | | |
| T8 Medium BiPin (G13) | 17 | 24 | 47417 | F17T8/SP30/ECO/CVG | 24 | 20000 | 1280 | 1220 | 3000 | 78 | ☞ | 11,13,18 103 | | |
| | | | 15974 | F17T8/SP35/ECO/CVG | 24 | 20000 | 1280 | 1220 | 3500 | 78 | ☞ | 11,13,18 103 | | |
| | | | 15877 | F17T8/SP41/ECO/CVG | 24 | 20000 | 1280 | 1220 | 4100 | 78 | ☞ | 11,13,18 103 | | |
| | | | 15975 | F17T8/SPX35/ECO/CVG | 24 | 20000 | 1310 | 1242 | 3500 | 86 | ☞ | 11,13,18 103 | | |
| | | | 15976 | F17T8/SPX41/ECO/CVG | 24 | 20000 | 1310 | 1242 | 4100 | 86 | ☞ | 11,13,18 103 | | |
| <i>3' T8 ECOLUX® W/ STARCOAT</i> | | | | | | | | | | | | | | |
| T8 Medium BiPin (G13) | 25 | 36 | 15978 | F25T8/SP30/ECO/CVG | 24 | 20000 | 2020 | 1920 | 3000 | 78 | ☞ | 11,13,18 103 | | |
| | | | 15981 | F25T8/SP35/ECO/CVG | 24 | 20000 | 2020 | 1920 | 3500 | 78 | ☞ | 11,13,18 103 | | |
| | | | 15984 | F25T8/SP41/ECO/CVG | 24 | 20000 | 2020 | 1920 | 4100 | 78 | ☞ | 11,13,18 103 | | |
| | | | 15989 | F25T8/SPX30/ECOCVG | 24 | 20000 | 2080 | 1970 | 3000 | 86 | ☞ | 11,13,18 103 | | |
| | | | 15990 | F25T8/SPX35/ECOCVG | 24 | 20000 | 2080 | 1970 | 3500 | 86 | ☞ | 11,13,18 103 | | |
| | | | 15991 | F25T8/SPX41/ECOCVG | 24 | 20000 | 2080 | 1970 | 4100 | 86 | ☞ | 11,13,18 103 | | |

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.



Fluorescent Lamps

| Bulb Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Warning | |
|---|----------------------|-----------|------|--|-----------|------------|---------|------|------|-------------|------------|------------|------------------------|
| | | | | | | | Initial | Mean | K | CRI | Foot-notes | Cautions | Additional Information |
| SPECIAL APPLICATION LAMPS (CONTINUED) | | | | | | | | | | | | | |
| COVARGUARD® SHATTER PROTECTED (CONTINUED) | | | | | | | | | | | | | |
| T8 ECOLUX® W/ STARCOAT® (CONTINUED) | | | | | | | | | | | | | |
| 4' T8 (48") ECOLUX® W/ STARCOAT® | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 32 | 48 | 40803 F32T8/SP30/ECO/CVG | 36 | 20000 | 2715 | 2580 | 3000 | 78 | Ⓢ | 1,13,18 | 103 |
| | | | | 40804 F32T8/SP35/ECO/CVG | 36 | 20000 | 2715 | 2580 | 3500 | 78 | Ⓢ | 1,13,18 | 103 |
| | | | | 40812 F32T8/SP41/ECO/CVG | 36 | 20000 | 2715 | 2580 | 4100 | 78 | Ⓢ | 1,13,18 | 103 |
| | | | | 18366 F32T8/SP50/ECO/CVG | 36 | 20000 | 2665 | 2530 | 5000 | 78 | Ⓢ | 1,13,18 | 103 |
| | | | | 18368 F32T8/SP65/ECO/CVG | 36 | 20000 | 2620 | 2490 | 6500 | 78 | Ⓢ | 1,13,18 | 103 |
| | | | | 41125 F32T8/SPX30/ECO/CVG | 36 | 20000 | 2860 | 2710 | 3000 | 86 | Ⓢ | 1,13,18 | 103 |
| | | | | 41126 F32T8/SPX35/ECO/CVG | 36 | 20000 | 2860 | 2710 | 3500 | 86 | Ⓢ | 1,13,18 | 103 |
| | | | | 41127 F32T8/SPX41/ECO/CVG | 36 | 20000 | 2860 | 2710 | 4100 | 86 | Ⓢ | 1,13,18 | 103 |
| | | | | 15971 F32T8/SPX50/ECO/CVG | 36 | 20000 | 2715 | 2580 | 5000 | 86 | Ⓢ | 1,13,18 | 103 |
| 4' T8 ECOLUX® XL EXTRA-LIFE W/ STARCOAT® | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 32 | 48 | 15972 F32T8/XL/SPX30ECO/CVG | 36 | 20000 | 2860 | 2715 | 3000 | 86 | Ⓢ | 1,13,18 | 103 |
| | | | | 15973 F32T8/XL/SPX35ECO/CVG | 36 | 20000 | 2860 | 2715 | 3500 | 86 | Ⓢ | 1,13,18 | 103 |
| | | | | 18369 F32T8/XL/SPX41ECO/CVG | 36 | 20000 | 2860 | 2715 | 4100 | 86 | Ⓢ | 1,13,18 | 103 |
| | | | | 23746 F32T8/XL/SPX50ECO/CVG | 36 | 20000 | 2860 | 2715 | 4100 | 86 | Ⓢ | 1,13,18 | 103 |
| 4' T8 ECOLUX® SUPER LONG LIFE W/ STARCOAT® | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 32 | 48 | 14560 F32T8/SXL/SP35/ECO/CVG | 36 | 30000 | 2765 | 2595 | 3500 | 83 | Ⓢ | 1,13,18 | 103 |
| | | | | 14551 F32T8/SXL/SP41/ECO/CVG | 36 | 30000 | 2765 | 2595 | 4100 | 81 | Ⓢ | 1,13,18 | 103 |
| ULTRA ENERGY SAVING T8 LAMPS W/ COVARGUARD® | | | | | | | | | | | | | |
| 4' T8 ECOLUX® WATT-MISER® W/ STARCOAT® | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 32 | 48 | 40286 F32T8/SP30/IS/WM/ECO/CVG | 36 | 20000 | 2790 | 2620 | 3000 | 84 | Ⓢ | 1,11,13,18 | 103 |
| | | | | 40299 F32T8/SP35/IS/WM/ECO/CVG | 36 | 20000 | 2765 | 2595 | 3500 | 83 | Ⓢ | 1,11,13,18 | 103 |
| | | | | 40309 F32T8/SP41/IS/WM/ECO/CVG | 36 | 20000 | 2740 | 2570 | 4100 | 81 | Ⓢ | 1,11,13,18 | 103 |
| | | | | 47422 F32T8/SP50/IS/WM/ECO/CVG | 36 | 20000 | 2740 | 2570 | 4100 | 81 | Ⓢ | 1,11,13,18 | 103 |
| 4' T8 ECOLUX® WATT-MISER® XL EXTRA-LIFE W/ STARCOAT® | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 32 | 48 | 10023 F32T8/XL/SP30/WM/ECOCVG | 36 | 24000 | 2740 | 2570 | 3000 | 84 | Ⓢ | 1,11,13,18 | 103 |
| | | | | 40297 F32T8/XL/SP35/WM/ECOCVG | 36 | 24000 | 2715 | 2545 | 3500 | 83 | Ⓢ | 1,11,13,18 | 103 |
| | | | | 40310 F32T8/XL/SP41/WM/ECOCVG | 36 | 24000 | 2690 | 2520 | 4100 | 81 | Ⓢ | 1,11,13,18 | 103 |
| | | | | 47423 F32T8/XL/SP50/WM/ECOCVG | 36 | 24000 | 2690 | 2520 | 4100 | 81 | Ⓢ | 1,11,13,18 | 103 |
| 4' T8 ECOLUX® HIGH LUMEN XL EXTRA-LIFE W/ STARCOAT® | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 32 | 48 | 00267 F32T8/XL/SPX30/HL/ECO/CVG | 36 | 24000 | 3005 | 2825 | 4100 | 82 | Ⓢ | 1,13,18 | 103 |
| | | | | 00268 F32T8/XL/SPX35/HL/ECO/CVG | 36 | 24000 | 3005 | 2825 | 3500 | 85 | Ⓢ | 1,13,18 | 103 |
| | | | | 00269 F32T8/XL/SPX41/HL/ECO/CVG | 36 | 24000 | 3005 | 2825 | 3000 | 85 | Ⓢ | 1,13,18 | 103 |
| | | | | 80497 F32T8/XL/SPX50/HL/ECO/CVG | 36 | 24000 | 3005 | 2825 | 4100 | 82 | Ⓢ | 1,13,18 | 103 |
| T8 MOD-U-LINE® 6" SPACING | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 32 | 22.5 | 23655 F32T8/SP30/U6/CVG | 12 | 20000 | 2640 | 2510 | 3000 | 78 | Ⓢ | 11,13 | 103 |
| | | | | 23656 F32T8/SP35/U6/CVG | 12 | 20000 | 2640 | 2510 | 3500 | 78 | Ⓢ | 11,13 | 103 |
| | | | | 23657 F32T8/SP41/U6/CVG | 12 | 20000 | 2640 | 2510 | 4100 | 78 | Ⓢ | 11,13 | 103 |
| | | | | 23658 F32T8/SPX30/U6/CVG | 12 | 20000 | 2740 | 2575 | 3000 | 86 | Ⓢ | 11,13 | 103 |
| | | | | 23659 F32T8/SPX35/U6/CVG | 12 | 20000 | 2740 | 2575 | 3500 | 86 | Ⓢ | 11,13 | 103 |
| | | | | 23660 F32T8/SPX41/U6/CVG | 12 | 20000 | 2740 | 2575 | 4100 | 86 | Ⓢ | 11,13 | 103 |
| 5' T8 W/ STARCOAT® | | | | | | | | | | | | | |
| 5' T8 (60") W/ STARCOAT® | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 40 | 60 | 41130 F40T8/SP35/CVG | 24 | 20000 | 3490 | 3140 | 3500 | 75 | Ⓢ | 11,13 | 103 |
| | | | | 41131 F40T8/SPX35/CVG | 24 | 20000 | 3610 | 3240 | 3500 | 84 | Ⓢ | 11,13 | 103 |
| | | | | 47351 F40T8/SPX41/CVG | 24 | 20000 | 3610 | 3250 | 4100 | 80 | Ⓢ | 11,13 | 103 |

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.



| Bulb Base | Nominal Length Order | | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Warning | | |
|---|----------------------|-----|-------------|-----------|-------------------------|---------|-------|------|-------------|-------------|--------------|------------------------|-----------------------------------|
| | Watts | in. | | | | Initial | Mean | K | CRI | Foot- notes | and Cautions | Additional Information | |
| SPECIAL APPLICATION LAMPS (CONTINUED) | | | | | | | | | | | | | |
| COVARGUARD® SHATTER PROTECTED (CONTINUED) | | | | | | | | | | | | | |
| T8 INSTANT START W/ STARCOAT® | | | | | | | | | | | | | |
| 6' T8 (72") INSTANT START | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 35 | 72 | 41149 | F72T8/CW/CVG | 24 | 7500 | 2910 | 2640 | 4100 | 60 | 11,13 | 103 |
| 8' T8 (96") INSTANT START W/ STARCOAT® | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 59 | 96 | 40094 | F96T8/SP30/CVG | 24 | 15000 | 5620 | 5330 | 3000 | 75 | 11,13 | 103 |
| | | | | 40095 | F96T8/SP35/CVG | 24 | 15000 | 5620 | 5330 | 3500 | 75 | 11,13 | 103 |
| | | | | 40096 | F96T8/SP41/CVG | 24 | 15000 | 5620 | 5330 | 4100 | 75 | 11,13 | 103 |
| | | | | 40099 | F96T8/SPX30/CVG | 24 | 15000 | 5770 | 5480 | 3000 | 84 | 11,13 | 103 |
| | | | | 40105 | F96T8/SPX35/CVG | 24 | 15000 | 5770 | 5480 | 3500 | 84 | 11,13 | 103 |
| | | | | 40106 | F96T8/SPX41/CVG | 24 | 15000 | 5770 | 5480 | 4100 | 80 | 11,13 | 103 |
| 8' T8 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT W/ STARCOAT® | | | | | | | | | | | | | |
| T8 | R17d | 86 | 96 | 40107 | F96T8/SP35/HO/CVG | 24 | 18000 | 7760 | 6980 | 3500 | 75 | 11,12,13 | 103 |
| | | | | 40108 | F96T8/SP41/HO/CVG | 24 | 18000 | 7760 | 6980 | 4100 | 75 | 11,12,13 | 103 |
| T8 PREHEAT LAMPS | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 13 | 12 | 41109 | F13T8/CW/CVG | 24 | 7500 | 545 | 465 | 4100 | 60 | 11,13 | 103 Preheat |
| | | 15 | 18 | 41110 | F15T8/CW/CVG | 24 | 7500 | 800 | 700 | 4100 | 60 | 11,13 | 103 Preheat |
| | | | | 46627 | F15T8/KB/CVG/UPC | 24 | 7500 | 910 | 825 | 3000 | 70 | 11,13 | 103 Preheat, Kitchen & Bath |
| | | | | 46216 | F15T8/SP35/CVG | 24 | 7500 | 910 | 825 | 3500 | 75 | 11,13 | 103 Preheat |
| | | | | 41111 | F15T8/SPX35/CVG | 24 | 7500 | 970 | 870 | 3500 | 82 | 11,13 | 103 Preheat |
| | | 18 | 24 | 41117 | F24T8/CW/4/CVG | 6 | 7500 | 1180 | 1000 | 4100 | 60 | 11,13 | 103 Preheat |
| | | 19 | 28 | 41121 | F28T8/CW/4/CVG | 6 | 7500 | 1300 | 1110 | 4100 | 60 | 11,13 | 103 Preheat |
| | | 30 | 36 | 41122 | F30T8/CW/CVG | 24 | 7500 | 2100 | 1920 | 4100 | 60 | 11,13 | 103 Preheat |
| | | | | 46206 | F30T8/SPX30/CVG | 24 | 7500 | 2230 | 2070 | 3000 | 82 | 11,13 | 103 Preheat |
| T12 RAPID START LAMPS | | | | | | | | | | | | | |
| 3' ECOLUX® T12 (36") | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 30 | 36 | 80486 | F30T12/CW/RS/ECO/CVG | 24 | 18000 | 2130 | 1850 | 4100 | 60 | 11,13 | 103 |
| | | | | 80987 | F30T12/SPX30/RS/ECO/CVG | 24 | 18000 | 2300 | 2070 | 3000 | 82 | 11,13 | 103 |
| | | | | 80487 | F30T12/SPX35/RS/ECO/CVG | 24 | 18000 | 2300 | 2070 | 3500 | 86 | 11,13 | 103 |
| | | | | 80986 | F30T12/SP35/ECO/CVG | 24 | 18000 | 2280 | 2050 | 3500 | 73 | 11,13 | 103 |
| 4' T12 ECOLUX® RAPID START LAMPS (48") | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 40 | 48 | 80495 | F40/CW/ECO/CVG | 30 | 20000 | 2950 | 2600 | 4100 | 60 | 11,13 | 103 |
| | | | | 80992 | F40/CW/ECO/CVG 6PACK | 6 | 20000 | 2950 | 2600 | 4100 | 60 | 11,13 | 103 |
| | | | | 80995 | F40/KB/ECO/CVG/UPC | 24 | 20000 | 3290 | 2990 | 3000 | 82 | 11,13 | 103 Kitchen & Bath |
| | | | | 80988 | F40T12/SP30/ECO/CVG | 30 | 20000 | 3150 | 2860 | 3000 | 70 | 11,13 | 103 |
| | | | | 80989 | F40T12/SP35/ECO/CVG | 30 | 20000 | 3100 | 2820 | 3500 | 73 | 11,13 | 103 |
| | | | | 80990 | F40/SP65/ECO/CVG | 30 | 20000 | 2950 | 2690 | 6500 | 75 | 11,13 | 103 |
| | | | | 80493 | F40/SPX30/ECO/CVG | 30 | 20000 | 3290 | 2990 | 3000 | 82 | 11,13 | 103 |
| | | | | 80494 | F40/SPX35/ECO/CVG | 30 | 20000 | 3290 | 2990 | 3500 | 82 | 11,13 | 103 |
| | | | | 80991 | F40/SPX41/ECO/CVG | 30 | 20000 | 3240 | 2950 | 4100 | 80 | 11,13 | 103 |
| | | | | 80993 | F40/D/ECO/CVG | 30 | 20000 | 2470 | 2170 | 6250 | 75 | 11,13 | 103 Daylight |
| | | | | 80994 | F40/DX/ECO/CVG | 30 | 20000 | 2180 | 1850 | 6500 | 84 | 11,13 | 103 Daylight Deluxe |
| | | | | 80996 | F40/N/ECO/CVG | 30 | 20000 | 2030 | 1680 | 3700 | 90 | 11,13 | 103 Natural |
| | | | | 80496 | F40/C50/ECO/CVG | 30 | 20000 | 2180 | 1810 | 5000 | 90 | 11,13 | 103 Chroma 50 |
| | | | | 41133 | F40/C75/CVG | 30 | 20000 | 1890 | 1630 | 7500 | 92 | 11,13 | 103 Chroma 75, non-TCLP Compliant |



Fluorescent Lamps

| Bulb Base | Nominal Length Watts in. | Order Code | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot-notes | Warning and Cautions | | Additional Information |
|--|-----------------------------|------------|-------------|--------------|-------------------------|---------|-------|------|-------------|------|------------|----------------------|---------|-----------------------------|
| | | | | | | Initial | Mean | K | CRI | K | | CRI | Notes | |
| SPECIAL APPLICATION LAMPS (CONTINUED) | | | | | | | | | | | | | | |
| COVARGUARD® SHATTER PROTECTED (CONTINUED) | | | | | | | | | | | | | | |
| T12 RAPID START LAMPS (CONTINUED) | | | | | | | | | | | | | | |
| 4' T12 ECOLUX® RAPID START WATT-MISER® LAMPS (48") | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 34 | 48 | 80489 | F34/SP35/RS/WM/ECO/CVG | 30 | 20000 | 2660 | 2400 | 3500 | 73 | ⚡ | 1,11,13 | 103 |
| | | | | 80490 | F34/SP41/RS/WM/ECO/CVG | 30 | 20000 | 2660 | 2400 | 4100 | 72 | ⚡ | 1,11,13 | 103 |
| | | | | 80491 | F34/SPX41/RS/WM/ECO/CVG | 30 | 20000 | 2820 | 2530 | 4100 | 80 | ⚡ | 1,11,13 | 103 |
| | | | | 80488 | F34/WW/RS/WM/ECO/CVG | 30 | 20000 | 2620 | 2250 | 3000 | 52 | ⚡ | 1,11,13 | 103 Warm White |
| | | | | 80492 | F34/LW/RS/WM/ECO/CVG | 30 | 20000 | 2730 | 2350 | 4200 | 49 | ⚡ | 1,11,13 | 103 Lite White |
| | | | | 40805 | F34/CW/RS/WM/ECO/CVG | 30 | 20000 | 2570 | 2210 | 4100 | 60 | ⚡ | 1,11,13 | 103 |
| | | | | 41138 | F34/SPX30/RS/WM/ECO/CVG | 30 | 20000 | 2810 | 2530 | 3000 | 82 | ⚡ | 1,11,13 | 103 |
| | | | | 41139 | F34/SPX35/RS/WM/ECO/CVG | 30 | 20000 | 2810 | 2530 | 3500 | 82 | ⚡ | 1,11,13 | 103 |
| 4' T12 RAPID START LAMPS UTILITY SHOPLIGHT (48") | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 25 | 48 | | 30 | | 12000 | | 1800 | 1620 | 4100 | 60 | 11,13 | 103 |
| T12 INSTANT START | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 20 | 24 | 47342 | F24T12/CW/CVG | 24 | 7500 | 870 | 785 | 4100 | 60 | | 11,13 | 103 |
| | | 40 | 48 | 40127 | F48T12/CW/CVG | 24 | 9000 | 2780 | 2560 | 4100 | 60 | | 11,13 | 103 |
| | | | | 48091 | F48T12/SP35/CVG | 24 | 9000 | 2910 | 2730 | 4100 | 60 | | 11,13 | 103 |
| | | | | 41144 | F48T12/SPX35/CVG | 24 | 9000 | 2950 | 2780 | 3500 | 82 | ⚡ | 11,13 | 103 |
| | | 50 | 60 | 41147 | F60T12/CW/CVG | 15 | 12000 | 3490 | 3210 | 4100 | 60 | | 11,13 | 103 |
| | | 55 | 72 | 46213 | F72T12/SP35/CVG | 15 | 12000 | 4550 | 4280 | 3500 | 73 | | 11,13 | 103 |
| | | | | 41151 | F72T12/SPX30/CVG | 15 | 12000 | 4650 | 4370 | 3000 | 82 | ⚡ | 11,13 | 103 |
| | | | | 41153 | F72T12/SPX35/CVG | 15 | 12000 | 4650 | 4370 | 3500 | 82 | ⚡ | 11,13 | 103 |
| | | 75 | 96 | 40117 | F96T12/CW/CVG | 15 | 12000 | 5960 | 5480 | 4100 | 60 | | 11,13 | 103 |
| | | | | 46215 | F96T12/SP35/CVG | 15 | 12000 | 6300 | 5920 | 3500 | 73 | | 11,13 | 103 |
| | | | | 41157 | F96T12/SPX30/CVG | 15 | 12000 | 6590 | 6190 | 3000 | 82 | ⚡ | 11,13 | 103 |
| | | | | 41158 | F96T12/SPX35/CVG | 15 | 12000 | 6590 | 6190 | 3500 | 82 | ⚡ | 11,13 | 103 |
| | | | | 41159 | F96T12/SPX41/CVG | 15 | 12000 | 6590 | 6190 | 4100 | 80 | ⚡ | 11,13 | 103 |
| | | | | 41973 | F96T12/DX/CVG | 15 | 12000 | 4360 | 3920 | 6500 | 84 | ⚡ | 11,13 | 103 Daylight Deluxe |
| | | | | 46208 | F96T12/C50/CVG | 15 | 12000 | 4460 | 3920 | 5000 | 90 | ⚡ | 11,13 | 103 Chroma 50 |
| T12 INSTANT START ~ WATT-MISER® ENERGY SAVING LAMPS | | | | | | | | | | | | | | |
| 8' T12 RAPID START WATT-MISER® LAMPS (96") | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 58 | 96 | 45993 | F96T12/SP35/WMP/CVG | 15 | 12000 | 5520 | 5190 | 3500 | 75 | ⚡ | 1,11,13 | 103 |
| | | 60 | 96 | 40115 | F96T12/CW/WM/CVG | 15 | 12000 | 5330 | 4910 | 4100 | 60 | ⚡ | 1,11,13 | 103 |
| | | | | 40124 | F96T12/SP35/WM/CVG | 15 | 12000 | 5520 | 5200 | 3500 | 73 | ⚡ | 1,11,13 | 103 |
| 8' T12 ECOLUX® RAPID START WATT-MISER® LAMPS (96") | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96 | 40807 | F96T12/CW/WM/ECO/CVG | 15 | 12000 | 5330 | 4910 | 4100 | 60 | | 1,11,13 | 103 |
| T12 MOD-U-LINE® ~ WATT-MISER® ENERGY SAVING LAMPS | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 35 | 22.5 | 47694 | F35/CW/U6/WM/CVG | 10 | 14000 | 2230 | 2030 | 4100 | 60 | ⚡ | 1,11,13 | 103 6" Spacing Between Legs |
| T12 MOD-U-LINE® 6" SPACING | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 40 | 22.5 | 23661 | F40T12/SP30/U6/CVG | 10 | 14000 | 2230 | 2030 | 3000 | 73 | ⚡ | 11,13 | 103 |
| | | | | 23662 | F40T12/SP35/U6/CVG | 10 | 14000 | 2230 | 2030 | 3500 | 73 | ⚡ | 11,13 | 103 |
| | | | | 23664 | F40T12/SP41/U6/CVG | 10 | 14000 | 2230 | 2030 | 4100 | 73 | ⚡ | 11,13 | 103 |



| Bulb Base | Nominal Length | Order Watts in. | Code | Description | Case Qty. | Rated Life | Color | | | Warning | | | |
|--|--|-----------------|-------|-------------------------|------------------|------------------|----------------|------------|-------|-------------|--------------|-----------------------------|------------------------------------|
| | | | | | | | Lumens Initial | Temp. Mean | K CRI | Foot- notes | and Cautions | Additional Information | |
| SPECIAL APPLICATION LAMPS (CONTINUED) | | | | | | | | | | | | | |
| COVARGUARD® SHATTER PROTECTED (CONTINUED) | | | | | | | | | | | | | |
| T12 PREHEAT | | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 15 | 18 | 41114 | F15T12/CW/CVG | 24 | 9000 | 735 | 660 | 4100 | 60 | 11,13 | 103 Preheat | |
| | 20 | 24 | 46377 | F20T12/C50/CVG | 24 | 9000 | 845 | 765 | 5000 | 90 | ☞ | 11,13 | 103 Preheat, Chroma 50 |
| | | | 40125 | F20T12/CW/CVG | 24 | 9000 | 1160 | 1110 | 4100 | 60 | 11,13 | 103 Preheat | |
| | | | 41000 | F20T12/CW/CVG/UPC | 24 | 9000 | 1160 | 1110 | 4100 | 60 | 11,13 | 103 Preheat, UPC | |
| | | | 46622 | F20T12/KB/CVG/UPC | 24 | 9000 | 1230 | 1160 | 3000 | 70 | ☞ | 11,13 | 103 Preheat, Kitchen and Bath, UPC |
| | | | 46218 | F20T12/SP35/CVG | 24 | 9000 | 1230 | 1160 | 3500 | 73 | ☞ | 11,13 | 103 Preheat |
| | | | 41116 | F20T12/SPX35/CVG | 24 | 9000 | 1260 | 1180 | 3500 | 82 | ☞ | 11,13 | 103 Preheat |
| | 25 | 33 | 41120 | F25T12/WW/33/CVG | 24 | 7500 | 1850 | 1660 | 3000 | 52 | 11,13 | 103 Preheat, Warm White | |
| | T12 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT | | | | | | | | | | | | |
| | T12 R17d | 35 | 24 | 48090 | F24T12/CW/HO/CVG | 24 | 9000 | 1570 | 1300 | 4100 | 60 | 11,12,13 | 103 |
| 60 | | 48 | 40129 | F48T12/CW/HO/CVG | 24 | 12000 | 3930 | 3410 | 4100 | 60 | 11,12,13 | 103 | |
| | | | 41146 | F48T12/SPX35/HO/CVG | 24 | 12000 | 4220 | 3800 | 3500 | 82 | ☞ | 11,12,13 | 103 |
| | | | 41969 | F48T12/D/HO/CVG | 24 | 12000 | 3290 | 2870 | 6500 | 75 | ☞ | 11,12,13 | 103 Daylight |
| | | | 75 | 60 | 41148 | F60T12/CW/HO/CVG | 15 | 12000 | 4990 | 4340 | 4150 | 62 | 11,12,13 |
| 85 | | 72 | 40811 | F72T12/CW/HO/CVG | 15 | 12000 | 6150 | 5350 | 4100 | 60 | 11,12,13 | 103 | |
| | | | 46207 | F72T12/SP35/HO/CVG | 15 | 12000 | 6450 | 5810 | 3500 | 73 | ☞ | 11,12,13 | 103 |
| | | | 41152 | F72T12/SPX30/HO/CVG | 15 | 12000 | 6590 | 5930 | 3000 | 82 | ☞ | 11,12,13 | 103 |
| | | | 41154 | F72T12/SPX35/HO/CVG | 15 | 12000 | 6590 | 5930 | 3500 | 82 | ☞ | 11,12,13 | 103 |
| | | | 48094 | F72T12/N/HO/CVG | 10 | 12000 | 4170 | 3500 | 3700 | 90 | ☞ | 11,12,13 | 103 Natural |
| 100 | | 84 | 41156 | F84T12/CW/HO/CVG | 15 | 12000 | 7460 | 6490 | 4100 | 60 | 11,12,13 | 103 | |
| 110 | | 96 | 40808 | F96T12/CW/HO/CVG | 15 | 12000 | 8630 | 7500 | 4100 | 60 | 11,12,13 | 103 | |
| | | | 46210 | F96T12/SP35/HO/CVG | 15 | 12000 | 8920 | 8030 | 3500 | 73 | ☞ | 11,12,13 | 103 |
| | | | 45264 | F96T12/SP65/HO/CVG | 15 | 12000 | 8630 | 7760 | 6500 | 75 | ☞ | 11,12,13 | 103 |
| | | | 41160 | F96T12/SPX30/HO/CVG | 15 | 12000 | 9070 | 8160 | 3000 | 82 | ☞ | 11,12,13 | 103 |
| | | | 41161 | F96T12/SPX35/HO/CVG | 15 | 12000 | 9070 | 8160 | 3500 | 82 | ☞ | 11,12,13 | 103 |
| | | | 41162 | F96T12/SPX41/HO/CVG | 15 | 12000 | 9070 | 8160 | 4100 | 80 | ☞ | 11,12,13 | 103 |
| | | | 46424 | F96T12/D/HO/CVG | 15 | 12000 | 7370 | 6410 | 6500 | 75 | ☞ | 11,12,13 | 103 Daylight |
| | | | 46430 | F96T12/DX/HO/CVG | 15 | 12000 | 6400 | 5440 | 6500 | 84 | ☞ | 11,12,13 | 103 Daylight Deluxe |
| T12 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT ~ WATT-MISER® ENERGY SAVING LAMPS | | | | | | | | | | | | | |
| T12 R17d | 95 | 96 | 40116 | F96T12/CW/HO/WM/CVG | 15 | 12000 | 7760 | 6750 | 4100 | 60 | 1,11,12,13 | 103 | |
| | | | 40118 | F96T12/SP35/HO/WM/CVG | 15 | 12000 | 8090 | 7290 | 3500 | 73 | ☞ | 1,11,12,13 | 103 |
| | | | 40123 | F96T12/SP41/HO/WM/CVG | 15 | 12000 | 8090 | 7290 | 4100 | 72 | ☞ | 1,11,12,13 | 103 |
| | | | 16821 | F96T12/CW/HO/WM/ECO/CVG | 15 | 12000 | 7760 | 6285 | 4100 | 60 | 1,11,12,13 | 103 | |
| COLD TEMPERATURE | | | | | | | | | | | | | |
| T5 | | | | | | | | | | | | | |
| T5 Miniature BiPin (G5) | 54 | 45.2 | 81521 | F54T5/835 | 36 | 30000 | 4500 | 4275 | 3500 | 86 | ☞ | 11,13,17 101 Plastic jacket | |
| | | | 81522 | F54T5/841 | 36 | 30000 | 4500 | 4275 | 4100 | 86 | ☞ | 11,13,17 101 Plastic jacket | |
| T8 | | | | | | | | | | | | | |
| T8 Medium BiPin (G13) | 18 | 24 | 31147 | F18WT8/835 | 12 | 20000 | 1215 | 1152 | 3500 | 86 | ☞ | 11,13,17 101 Plastic jacket | |
| | | | 31148 | F18WT8/841 | 12 | 20000 | 1215 | 1152 | 4100 | 86 | ☞ | 11,13,17 101 Plastic jacket | |
| | 36 | 48 | 25763 | F36WT8/835 | 30 | 20000 | 3015 | 2860 | 3500 | 86 | ☞ | 11,13,17 101 Plastic jacket | |
| | | | 25764 | F36WT8/841 | 30 | 20000 | 3015 | 2860 | 4100 | 86 | ☞ | 11,13,17 101 Plastic jacket | |
| | 58 | 60 | 16148 | F58WT8/835 | 24 | 20000 | 4680 | 4450 | 3500 | 86 | ☞ | 11,13,17 101 Plastic jacket | |
| | | | 23752 | F58WT8/841 | 24 | 20000 | 4680 | 4450 | 4100 | 86 | ☞ | 11,13,17 101 Plastic jacket | |
| | 70 | 72 | 16149 | F70WT8/835 | 18 | 20000 | 5670 | 5386 | 3500 | 86 | ☞ | 11,13,17 101 Plastic jacket | |
| | | | 23754 | F70WT8/841 | 18 | 20000 | 5670 | 5386 | 4100 | 86 | ☞ | 11,13,17 101 Plastic jacket | |



Fluorescent Lamps

| Bulb Base | Nominal Length Order | | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Warning and | | Additional Information | | |
|--|----------------------|-----|-------------|-----------|--------------------|--------|---------|-------|-------------|------|-------------|----------|------------------------|------------------------------|------------------------------|
| | Watts | in. | | | | Code | Initial | Mean | K | CRI | Foot-notes | Cautions | | | |
| SPECIAL APPLICATION LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| COLD TEMPERATURE (CONTINUED) | | | | | | | | | | | | | | | |
| INSTANT START | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 75 | 96 | 47350 | F96T12/CW-CT | 15 | 12000 | 5960 | 5490 | 4100 | 60 | 11,13,17 | 101 | Plastic jacket | |
| HIGH OUTPUT (800mA) RECESSED DOUBLE CONTACT | | | | | | | | | | | | | | | |
| T12 | R17d | 35 | 24 | 48097 | F24T12/CW/HO-CT | 12 | 9000 | 1570 | 1300 | 4100 | 60 | 11,13,17 | 101 | Plastic jacket | |
| | | 60 | 48 | 48530 | F48T12/SP35/HO-AT | 12 | 12000 | 4120 | 3710 | 3500 | 73 | ⊕ | 11,13,17 | 101 | Plastic jacket w/ vent holes |
| | | | | 47352 | F48T12/SPX30/HO-CT | 24 | 12000 | 4210 | 3800 | 3000 | 82 | ⊕ | 11,13,17 | 101 | Plastic jacket |
| | | | | 45976 | F48T12/CW/HO-AT | 12 | 12000 | 3710 | 3220 | 4100 | 60 | 11,13,17 | 101 | Plastic jacket w/ vent holes | |
| | | 75 | 60 | 47353 | F60T12/CW/HO-CT | 12 | 12000 | 4990 | 4340 | 4100 | 60 | 11,13,17 | 101 | Plastic jacket | |
| | | 85 | 72 | 47346 | F72T12/SP35/HO-CT | 8 | 12000 | 6450 | 5810 | 3500 | 73 | ⊕ | 11,13,17 | 101 | Plastic jacket |
| | | | | 46201 | F72T12/SP41/HO-CT | 8 | 12000 | 6450 | 5810 | 4100 | 72 | ⊕ | 11,13,17 | 101 | Plastic jacket |
| | | | | 48095 | F72T12/SPX35/HO-CT | 8 | 12000 | 6590 | 5930 | 3500 | 82 | ⊕ | 11,13,17 | 101 | Plastic jacket |
| | | | | 46199 | F72T12/CW/HO-AT | 8 | 12000 | 6150 | 5350 | 4100 | 60 | 11,13,17 | 101 | Plastic jacket w/ vent holes | |
| | | 110 | 96 | 45979 | F96T12/SP35/HO-CT | 8 | 12000 | 8920 | 8030 | 3500 | 73 | ⊕ | 11,13,17 | 101 | Plastic jacket |
| | | | | 48096 | F96T12/SPX35/HO-CT | 8 | 12000 | 9060 | 8160 | 3500 | 82 | ⊕ | 11,13,17 | 101 | Plastic jacket |
| | | | | 45912 | F96T12/CW/HO-AT | 8 | 12000 | 8630 | 7500 | 4100 | 60 | 11,13,17 | 101 | Plastic jacket w/ vent holes | |
| | | | | 11918 | F96T12/CW/HO/CT | 15 | 12000 | 8900 | 7740 | 4100 | 60 | 11,13,17 | 101 | Plastic jacket | |
| | | | | 11919 | F96T12/D/HO/CT | 15 | 12000 | 7600 | 6610 | 6500 | 75 | ⊕ | 11,13,17 | 101 | Plastic jacket |
| T10 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT | | | | | | | | | | | | | | | |
| T10 | R17d | 110 | 48 | 10742 | F48T10/CW | 24 | 9000 | 6200 | | 4100 | 60 | 4 | 101 | | |
| | | | | 46196 | F48T10/CW/VHO-CT | 12 | 9000 | 6010 | | 4100 | 60 | 13, 17 | 101 | Plastic jacket | |
| | | 135 | 60 | 17135 | F60T10/SP30 | 24 | 6000 | 8500 | | 3000 | 70 | ⊕ | 4 | 101 | |
| | | | | 39157 | F60T10/CW | 24 | 6000 | 7000 | | 4100 | 60 | 4 | 101 | | |
| | | | | 13002 | F60T10/CW 6PK | 6 | 6000 | 7000 | | 4100 | 60 | 4 | 101 | | |
| | | | | 46197 | F60T10/CW/VHO-CT | 12 | 6000 | 6790 | | 4100 | 60 | 13, 17 | 101 | Plastic jacket | |
| | | 160 | 72 | 13776 | F72T10/CW 15PK | 15 | 9000 | 9700 | | 4100 | 60 | 4 | 101 | | |
| | | | | 46198 | F72T10/CW/VHO-CT | 8 | 9000 | 9400 | | 4100 | 60 | 13, 17 | 101 | Plastic jacket | |
| T12 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT | | | | | | | | | | | | | | | |
| T12 | R17d | 110 | 48 | 34206 | F48T12/CW/1500/0 | 24 | 10000 | 7000 | | 4100 | 60 | 4 | 101 | | |
| | | | | 46195 | F48T12/CW/VHO-CT | 12 | 10000 | 6790 | | 4100 | 60 | 15, 17 | 101 | Plastic jacket | |
| | | 170 | 72 | 13762 | F72T12/CW/1500/0 | 15 | 10000 | 10800 | | 4100 | 60 | 4 | 101 | | |
| | | | | 46200 | F72T12/CW/VHO-CT | 8 | 10000 | 10470 | | 4100 | 60 | 15, 17 | 101 | Plastic jacket | |
| | | 220 | 96 | 13788 | F96T12/CW/1500/0 | 15 | 10000 | 14400 | | 4100 | 60 | 4 | 101 | | |
| | | | | 46202 | F96T12/CW/VHO-CT | 8 | 10000 | 13960 | | 4100 | 60 | 15, 17 | 101 | Plastic jacket | |
| DIAZO REPROGRAPHIC 1500mA (SUPERBLUE) | | | | | | | | | | | | | | | |
| T12 | | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 120 | 54 | 40092 | F54" T12/SPB | 24 | 2000 | | | | | ↗ 2 | 101 | | |
| | | 125 | 59 | 39683 | F59" T12/SPB | 24 | 2000 | | | | | ↗ 2 | 101 | | |
| T17 | | | | | | | | | | | | | | | |
| T17 | Mogul BiPin (G20) | 180 | 54 | 26390 | F54" T17/SPB | 12 | 2000 | | | | | ↗ 2 | 101 | | |
| APPLIANCE | | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 18 | 22 | 10257 | F22" T8/D/4 | 24 | 7500 | 925 | 790 | 6500 | 75 | ⊕ | 101 | Daylight | |
| | | | | 17705 | F24" T8/CW/4 6PK | 24 | 7500 | 1225 | 1040 | 4100 | 60 | | 101 | | |
| | | 19 | 26 | 10702 | F26" T8/CW/4 | 24 | 7500 | 1275 | 1085 | 4100 | 60 | | 101 | | |
| | | | | 38199 | F26" T8/CW/4 6PK | 24 | 7500 | 1275 | 1085 | 4100 | 60 | | 101 | | |
| | | | | 17704 | F28" T8/CW/4 6PK | 24 | 7500 | 1350 | 1145 | 4100 | 60 | | 101 | | |
| | | | | 10349 | F30" T8/CW/4 | 24 | 7500 | 1375 | 1170 | 4100 | 60 | | 101 | | |



| Bulb Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot-notes | Warning and Cautions | Additional Information |
|--|----------------------|-----------|-------|--------------------|-----------|------------|---------|------|-------------|-------------|-----|------------|----------------------|--|
| | | | | | | | Initial | Mean | Foot-candle | K | CRI | | | |
| SPECIAL APPLICATION LAMPS (CONTINUED) | | | | | | | | | | | | | | |
| APPLIANCE (CONTINUED) | | | | | | | | | | | | | | |
| T12 | | | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 21 | 30 | 10355 | F30" T12/CW | 24 | 7500 | 1350 | 1220 | 4100 | 60 | | | 101 | |
| | 25 | 28 | 10282 | F25T12CW/28 6PK | 24 | 7500 | 1550 | 1390 | 4100 | 60 | | | 101 | |
| | | | 10286 | F25T12/D/28 | 24 | 7500 | 1450 | 1310 | 6500 | 75 | ☞ | | 101 | Daylight |
| | 33 | | 38201 | F25T12/CW/33 6PK | 24 | 7500 | 1860 | 1675 | 4100 | 60 | | | 101 | |
| | | | 10299 | F25T12/D/33 | 24 | 7500 | 1600 | 1440 | 6500 | 75 | ☞ | | 101 | Daylight |
| | | | 10293 | F25T12/WW/33 | 24 | 7500 | 1910 | 1720 | 3000 | 52 | | | 101 | Warm White |
| BLACKLIGHT/BLACKLIGHT BLUE | | | | | | | | | | | | | | |
| BLACKLIGHT | | | | | | | | | | | | | | |
| T8 Medium BiPin (G13) | 15 | 18 | 35884 | F15T8/BL 6PK | 24 | 7500 | | | | | | 8 | 105 | Blacklight, UVA Source |
| T12 Medium BiPin (G13) | 20 | 24 | 10244 | F20T12/BL 6PK | 24 | 9000 | | | | | | 8 | 105 | Blacklight, UVA Source |
| | 40 | 22.5 | 40537 | F40BL/U/3 | 12 | 14000 | | | | | | 8 | 105 | Blacklight, UVA Source, Mod-U-Line®; 3 5/8" Spacing Between Legs |
| | | 48 | 10526 | F40BL 6PK | 24 | 20000 | | | | | | 8 | 105 | Blacklight, UVA Source |
| BLACKLIGHT BLUE | | | | | | | | | | | | | | |
| T5 Miniature BiPin (G5) | 4 | 6 | 10019 | F4T5/BLB | 24 | 5000 | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| | | 8 | 12 | 10077 | F8T5/BLB | 24 | 5000 | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| T8 Medium BiPin (G13) | 15 | 18 | 35885 | F15T8/BLB 6PK | 24 | 7500 | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| T9 4 Pin (G10q) | 22 | 8.25 | 25665 | FC8T9/BLB | 6 | 12000 | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| T12 Medium BiPin (G13) | 20 | 24 | 34747 | F20T12/BLB 6PK | 24 | 9000 | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| | 40 | 48 | 10531 | F40BLB 6PK | 24 | 20000 | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| COLORED LAMPS | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | |
| T8 Medium BiPin (G13) | 32 | 48 | 15992 | F32T8/R/24/ECO/CVG | 36 | 20000 | | | | | | | 103 | Sleeved Rosco Red 24 |
| | | | 15993 | F32T8/B/65/ECO/CVG | 36 | 20000 | | | | | | | 103 | Sleeved Rosco Blue 65 |
| | | | 15994 | F32T8/G/89/ECO/CVG | 36 | 20000 | | | | | | | 103 | Sleeved Rosco Green 89 |
| T12 | | | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 40 | 48 | 10514 | F40/B 6 PK | 24 | 20000 | 1200 | 720 | | | | | 101 | Phosphor Blue |
| | | | 10517 | F40/G 6 PK | 24 | 20000 | 4000 | 2000 | | | | | 101 | Phosphor Green |
| | | | 81003 | F40T12/R24/ECO/CVG | 30 | 20000 | | | | | | | 103 | Sleeved Rosco Red 24 |
| | | | 81001 | F40T12/B65/ECO/CVG | 30 | 20000 | | | | | | | 103 | Sleeved Rosco Blue 65 |
| | | | 81002 | F40T12/G89/ECO/CVG | 30 | 20000 | | | | | | | 103 | Sleeved Rosco Green 89 |
| PREHEAT | | | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 20 | 24 | 48259 | F20T12/R/24/CVG | 24 | 9000 | | | | | | | 103 | Sleeved Rosco Red 24 |
| | | | 48260 | F20T12/B/65/CVG | 24 | 9000 | | | | | | | 103 | Sleeved Rosco Blue 65 |
| | | | 48261 | F20T12/G/89/CVG | 24 | 9000 | | | | | | | 103 | Sleeved Rosco Green 89 |
| | | | 10231 | F20T12/B 6PK | 24 | 9000 | 450 | 330 | | | | | 101 | Phosphor Blue |
| | | | 10233 | F20T12/G 6PK | 24 | 9000 | 1575 | 975 | | | | | 101 | Phosphor Green |
| GOLD | | | | | | | | | | | | | | |
| T5 LAMPS | | | | | | | | | | | | | | |
| T5 Miniature BiPin (G5) | 28 | 45.2 | 25768 | F28T5/GO/CVG | 40 | 20000 | 1986 | 1946 | Gold | N/A | | | 103 | |



Fluorescent Lamps

| Bulb Base | Nominal Length Order | | | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot-notes | Warning and | |
|-------------------------------------|----------------------|-----|------|-----------|-------------------|---------|-------|------|-------------|----------|------------|------------------------|---|
| | Watts | in. | Code | | | Initial | Mean | K | CRI | Caution | | Additional Information | |
| GOLD (CONTINUED) | | | | | | | | | | | | | |
| T8 LAMPS | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 17 | 24 | 25779 | F17T8/GO/CVG | 24 | 20000 | 970 | 950 | Gold/N/A | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions |
| | | 15 | 36 | 25783 | F25T8/GO/CVG | 24 | 20000 | 1590 | 1558 | Gold/N/A | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions |
| | | 32 | 48 | 25784 | F32T8/GO/CVG | 36 | 20000 | 2280 | 2235 | Gold/N/A | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions |
| | | 36 | 48 | 81334 | F36T8/GO/CVG | 25 | 20000 | 2600 | 2545 | Gold/N/A | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions |
| | | 58 | 60 | 80053 | F58T8/GO/CVG | 25 | 20000 | 4080 | 4000 | Gold/N/A | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions |
| | | 59 | 96 | 25810 | F96T8/GO/CVG | 24 | 20000 | 4492 | 4400 | Gold/N/A | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions |
| T12 LAMPS | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 40 | 48 | 25850 | F40/GO/CVG | 30 | 20000 | 2510 | 2460 | Gold/N/A | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions |
| | Single Pin (Fa8) | 55 | 72 | 25854 | F72T12/GO/CVG | 15 | 12000 | 4150 | 4070 | Gold/N/A | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions |
| | | 75 | 96 | 25852 | F96T12/GO/CVG | 15 | 12000 | 5640 | 5530 | Gold/N/A | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions |
| | R17d | 110 | 96 | 25853 | F96T12/GO/HO/CVG | 15 | 12000 | 8010 | 7850 | Gold/N/A | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions |
| GROCERY DISPLAY LAMPS | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 40 | 48 | 81000 | F40T12/FL/ECO/CVG | 30 | 20000 | 1925 | 1450 | 2750 | | | CovRFresh® |
| GERMICIDAL | | | | | | | | | | | | | |
| T5 | Miniature BiPin (G5) | 4 | 6 | 15872 | G4T5 | 24 | 6000 | | | | 9, 16 | 106 | Clear, UVC Source |
| | | 6 | 8 | 15873 | G6T5 | 24 | 6000 | | | | 9, 16 | 106 | Clear, UVC Source |
| | | 8 | 12 | 11077 | G8T5 | 24 | 6000 | | | | 9, 16 | 106 | Clear, UVC Source |
| | | 11 | 11.9 | 29495 | G11T5 | 24 | 8000 | | | | 9, 16 | 106 | Clear, UVC Source |
| | | 16 | 8.91 | 16495 | G16T5 | 24 | 8000 | | | | 9, 16 | 106 | Clear, UVC Source |
| | Single Pin (Fa8) | 39 | 36 | 15874 | G36T5 | 24 | 9000 | | | | 9, 16 | 106 | Clear, UVC Source |
| | | 65 | 64 | 15864 | G64T5 | 24 | 9000 | | | | 9, 16 | 106 | Clear, UVC Source |
| GERMICIDAL (CONTINUED) | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 10 | 13.6 | 29498 | G10T8 | 24 | 6000 | | | | 9, 16 | 106 | Clear, UVC Source |
| | | 15 | 18 | 11078 | G15T8 | 24 | 8000 | | | | 9, 16 | 106 | Clear, UVC Source |
| | | 25 | 18 | 11082 | G25T8 | 24 | 8000 | | | | 9, 16 | 106 | Clear, UVC Source |
| | | 30 | 36 | 11080 | G30T8 | 24 | 8000 | | | | 9, 16 | 106 | Clear, UVC Source |
| | | 36 | 48 | 29499 | G36T5 | 24 | 8000 | | | | 9, 16 | 106 | Clear, UVC Source |
| | | 55 | 36 | 15875 | G55T8/HO | 24 | 8000 | | | | 9, 16 | 106 | Clear, UVC Source |
| T10 | Medium BiPin (G13) | 20 | 24 | 15876 | G20T10 | 24 | 8000 | | | | 9, 16 | 106 | Clear, UVC Source |
| | | 40 | 48 | 29532 | G40T10 | 24 | 8000 | | | | 9, 16 | 106 | Clear, UVC Source |
| PLANT AND AQUARIUM/TERRARIUM | | | | | | | | | | | | | |
| T8 LAMPS | | | | | | | | | | | | | |
| 15" T8 LAMPS | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 14 | 15 | 41373 | F14T8/AR/FR 6PK | 24 | 7500 | 360 | 4000 | 92 | | 104 | Aquarium Lamp Freshwater |
| | | | | 40903 | F14T8/AR/FS/6PK | 24 | 7500 | 550 | 9325 | 64 | | 104 | Aquarium Lamp Fresh and Saltwater |
| | | | | 41375 | F14T8/AR/SA 6PK | 24 | 7500 | 190 | 10000 | 62 | | 104 | Aquarium Lamp Saltwater |
| | | | | 41377 | F14T8/SR 6PK | 24 | 7500 | 565 | 5000 | 90 | | 104 | Aquarium/Terrarium Lamp |
| 18" T8 LAMPS | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 15 | 18 | 22907 | F15T8/AR/FR 6PK | 24 | 7500 | 425 | 4000 | 92 | | 104 | Aquarium Lamp Freshwater |
| | | | | 22910 | F15T8/AR/FS 6PK | 24 | 7500 | 675 | 9325 | 64 | | 104 | Aquarium Lamp Fresh and Saltwater |



Fluorescent Lamps

| Bulb Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot- notes | Warning and Cautions | Additional Information | |
|---|----------------------|------------------|------|-------------|---------------------|------------------|---------|-------|-------|-------------|------|-------------|--------------------------------|-----------------------------------|----------|
| | | | | | | | Initial | Mean | | K | CRI | | | | |
| PLANT AND AQUARIUM/TERRARIUM (CONTINUED) | | | | | | | | | | | | | | | |
| T8 LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| 18" T8 LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 15 | 18 | 22920 | F15T8/AR/SA 6PK | 24 | 7500 | 210 | 1000 | 62 | | 104 | Aquarium Lamp | Saltwater | |
| | | | | 49892 | F15T8/PL/AQ 6PK | 24 | 7500 | 510 | 3100 | 90 | ☞ | 104 | Plant & Aquarium Wide Spectrum | | |
| | | | | 22904 | F15T8/SR 6PK | 24 | 7500 | 620 | 5000 | 90 | ☞ | 104 | Aquarium/Terrarium Lamp | | |
| 36" T8 LAMPS | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 30 | 36 | 41374 | F30T8/AR/FR 6PK | 24 | 9000 | 630 | 4000 | 92 | ☞ | 104 | Aquarium Lamp | Freshwater | |
| | | | | 40904 | F30T8/AR/FS 6PK | 24 | 9000 | 1400 | 9235 | 64 | | 104 | Aquarium Lamp | Fresh and Saltwater | |
| | | | | 41376 | F30T8/AR/SA 6PK | 24 | 9000 | 315 | 10000 | 62 | | 104 | Aquarium Lamp | Saltwater | |
| T12 LAMPS | | | | | | | | | | | | | | | |
| 24" T12 LAMPS | | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 20 | 24 | 22908 | F20T12/AR/FR 6PK | 24 | 9000 | 600 | 4000 | 92 | ☞ | 104 | Aquarium Lamp | Freshwater | |
| | | | | 22911 | F20T12/AR/FS 6PK | 24 | 9000 | 950 | 9325 | 64 | | 104 | Aquarium Lamp | Fresh and Saltwater | |
| | | | | 22922 | F20T12/AR/SA 6PK | 24 | 9000 | 270 | 1000 | 62 | | 104 | Aquarium Lamp | Saltwater | |
| | | | | 49891 | F20T12/PL/AQ 6PK | 24 | 9000 | 750 | 3100 | 90 | ☞ | 104 | Plant & Aquarium Wide Spectrum | | |
| | | | | 22905 | F20T12/SR 6PK | 24 | 9000 | 875 | 5000 | 90 | ☞ | 104 | Aquarium/Terrarium Lamp | | |
| 36" T12 LAMPS | | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 30 | 36 | 41378 | F30T12/SR 6PK | 24 | 18000 | 1100 | 5000 | 90 | ☞ | 104 | Aquarium/Terrarium Lamp | | |
| 48" T12 LAMPS | | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 40 | 48 | 22909 | F40T12/AR/FR 6PK | 24 | 9000 | 1425 | 4000 | 92 | ☞ | 104 | Aquarium Lamp | Freshwater | |
| | | | | 22914 | F40T12/AR/FS 6PK | 24 | 9000 | 2350 | 9325 | 64 | | 104 | Aquarium Lamp | Fresh and Saltwater | |
| | | | | 22923 | F40T12/AR/SA 6PK | 24 | 9000 | 700 | 1000 | 62 | | 104 | Aquarium Lamp | Saltwater | |
| | | | | 49893 | F40PL/AQ 6PK | 24 | 20000 | 1900 | 3100 | 90 | ☞ | 104 | Plant & Aquarium Wide Spectrum | | |
| | | | | 22906 | F40T12/SR 6PK | 24 | 20000 | 2250 | 5000 | 90 | ☞ | 104 | Aquarium/Terrarium Lamp | | |
| EXPORT OUTSIDE U.S. AND CANADA ONLY | | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 40 | 22.5 | 14496 | F40CW/U/6/EX | 12 | 14000 | 2800 | 2460 | 4100 | 60 | | 102 | 6" Spacing Between Legs | |
| | | | | 14498 | F40D/U/6/EX | 12 | 14000 | 2350 | 2070 | 6500 | 75 | ☞ | 102 | Daylight, 6" Spacing Between Legs | |
| | | 40 | 48 | 14656 | F40CW/EX-30PK | 30 | 20000 | 3050 | 2680 | 4100 | 60 | | 101 | | |
| | | | | 14488 | F40D/EX | 30 | 20000 | 2550 | 2240 | 6500 | 75 | ☞ | 101 | Daylight | |
| | | Single Pin (Fa8) | 75 | 96 | 12541 | F96T12CW/EX-15PK | 15 | 12000 | 6150 | 5660 | 4100 | 60 | | 101 | |
| | | | | | 12543 | F96T12/D/EX-15PK | 15 | 12000 | 5250 | 4330 | 6500 | 75 | ☞ | 101 | Daylight |
| | | R17d | 110 | 96 | 12540 | F96T12CW/HO/EX | 15 | 12000 | 8900 | 7740 | 4100 | 60 | | 101 | |
| 12542 | F96T12D/HO/EX-15 | | | | 15 | 12000 | 7600 | 6610 | 6500 | 75 | ☞ | 101 | Daylight | | |
| CONSUMER PRODUCTS | | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | | |
| 4' T8 | | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 32 | 48 | 15900 | F32T8/SP30/ECO/UPC | 36 | 20000 | 2800 | 2660 | 3000 | 78 | ☞ ☞ | 101 | | |
| | | | | 15903 | F32T8/SP35/ECO/UPC | 36 | 20000 | 2800 | 2660 | 3500 | 78 | ☞ ☞ | 101 | | |
| | | | | 11873 | F32T8/SP35/ECO 12PK | 12 | 20000 | 2800 | 2660 | 3500 | 78 | ☞ ☞ | 101 | | |
| | | | | 15909 | F32T8/SP41/ECO/UPC | 36 | 20000 | 2800 | 2660 | 4100 | 78 | ☞ ☞ | 101 | | |
| | | | | 15904 | F32T8/SP41/ECO/C | 12 | 20000 | 2800 | 2660 | 4100 | 78 | ☞ ☞ | 101 | | |
| | | | | 16263 | F32T8/RESI/ECO/2PK | 6 | 15000 | 2650 | 2385 | 4100 | 78 | ☞ ☞ | 101 | | |
| | | | | 31231 | F32T8/RES/ECO/2PK | 24 | 15000 | 2650 | 2385 | 4100 | 78 | ☞ ☞ | 101 | | |
| | | | | 49356 | F32T8/KB/ECO/2PK | 6 | 20000 | 2800 | 2660 | 3000 | 78 | ☞ ☞ | 104 | Kitchen & Bath | |
| | | | | 49357 | F32T8/KB/ECO/2PK-24 | 24 | 20000 | 2800 | 2660 | 3000 | 78 | ☞ ☞ | 104 | Kitchen & Bath | |
| | | | | 29566 | F32T8/D/ECO/2PK | 24 | 20000 | 2700 | 2565 | 6500 | 78 | ☞ ☞ | 101 | Daylight | |
| | | | | 87783 | F32T8/D/ECO/TW | 6 | 20000 | 2700 | 2565 | 6500 | 78 | ☞ ☞ | 101 | Daylight | |

☞ Means this lamp meets Federal Minimum Efficiency Standards.

See www.gelighting.com e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4. All footnote references found at the end of this section. ☞ Reduced Wattage ☞ High Color Rendering.



Fluorescent Lamps

| Bulb Base | Nominal Length Order Watts in. Code | Description | Case Qty. | Rated Life | Lumens Initial Mean | Color Temp. K CRI | Foot-notes | Warning and Cautions | Additional Information |
|---|--|------------------------------------|-----------|------------|---------------------|-------------------|------------|----------------------|------------------------|
| CONSUMER PRODUCTS (CONTINUED) | | | | | | | | | |
| T8 | | | | | | | | | |
| 8' T8 | | | | | | | | | |
| T8 | Single Pin (Fa8) | 59 96 10401 F96T8/SP41/UPC | 24 | 15000 | 5800 5500 4100 | 78 | | | 101 |
| T12 | | | | | | | | | |
| 4' F40 ECOLUX® STANDARD | | | | | | | | | |
| T12 | Medium BiPin (G13) | 40 48 23382 F40SP41/ECO/C | 10 | 20000 | 3200 2910 4100 | 72 | | | 101 |
| | | 25400 F40SP65/ECO/UPC | 30 | 20000 | 3050 2775 6500 | 75 | | | 101 |
| | | 25399 F40/C50/ECO/UPC | 30 | 20000 | 2250 1870 5000 | 90 | | 101 | Chroma 50 |
| | | 16083 F40D/ULTRA/ECO/2PK | 9 | 20000 | 3050 2775 6500 | 75 | | 101 | Daylight Ultra |
| | | 13969 F40D/ULTRA/ECO/6PK | 24 | 20000 | 3050 2775 6500 | 75 | | 101 | Daylight Ultra |
| | | 40333 F40/KB/ECO 2PK | 9 | 20000 | 3400 3090 3000 | 70 | | 104 | Kitchen & Bath |
| | | 21323 F40/KB/ECO 6PK | 24 | 20000 | 3400 3090 3000 | 70 | | 104 | Kitchen & Bath |
| | | 12224 F40/SUN/ECO/6PK | 24 | 20000 | 2250 1870 5000 | 90 | | 101 | Sunlight |
| | | 10949 F40/RES/ECO/LL/2PK | 9 | 20000 | 3200 2910 4100 | 72 | | | 101 |
| | | 14440 F40/RES/ECO/SLV | 30 | 15000 | 3150 2860 4100 | 72 | | | 101 |
| | | 14433 F40/RES/ECO/SLV 6PK | 24 | 15000 | 3150 2860 4100 | 72 | | | 101 |
| | | 14441 F40/RES/ECO/TWIN-9PK | 9 | 15000 | 3150 2860 4100 | 72 | | | 101 |
| | | 48510 F40/RES/ECO/TWIN-15PK | 15 | 15000 | 3150 2860 4100 | 72 | | | 101 |
| 4' ECOLUX® UTILITY SHOPLIGHT | | | | | | | | | |
| T12 | Medium BiPin (G13) | 25 48 14445 F48"/25W/UTECOUPC | 30 | 12000 | 1860 1675 4100 | 60 | 10 | | 101 |
| | | 14450 F48"/25W/UTECOSLV | 30 | 12000 | 1860 1675 4100 | 60 | 10 | | 101 |
| | | 14456 F48"/25W/UTECOTWN | 9 | 12000 | 1860 1675 4100 | 60 | 10 | | 101 |
| | | 48511 F48"/25W/UTECO2PK | 15 | 12000 | 1860 1675 4100 | 60 | 10 | | 101 |
| 4' F34 ECOLUX® WATT-MISER® ENERGY SAVING LAMPS | | | | | | | | | |
| T12 | Medium BiPin (G13) | 34 48 25401 F34/SP30/RS/WM/ECO/UPC | 30 | 20000 | 2750 2475 3000 | 70 | | 1 | 101 |
| | | 23486 F34/SP35/WM/ECO/C | 10 | 20000 | 2750 2475 3500 | 73 | | 1 | 101 |
| | | 21858 F34/SP35/RS/WM/ECO/UPC | 24 | 20000 | 2750 2475 3500 | 73 | | 1 | 101 |
| | | 40372 F34/SP41/RS/WM/ECO | 24 | 20000 | 2750 2475 4100 | 72 | | 1 | 101 |
| | | 25397 F34/SP41/RS/WM/ECO/UPC | 30 | 20000 | 2750 2475 4100 | 72 | | 1 | 101 |
| | | 25391 F34/CW/RS/WM/ECO/UPC | 30 | 20000 | 2650 2280 4100 | 60 | | 1 | 101 |
| | | 23485 F34/CW/RS/WM/ECO/C 10PK | 10 | 20000 | 2650 2280 4100 | 60 | | 1 | 101 |
| | | 25398 F34/WW/RS/WM/ECO/UPC | 30 | 20000 | 2700 2320 3000 | 52 | | 1 | 101 Warm White |
| MOD-U-LINE® WATT-MISER® U-TUBES | | | | | | | | | |
| T12 | Medium BiPin (G13) | 35 22.5 14471 F35/CW/U/6/WM/UPC | 12 | 14000 | 2300 2100 4100 | 60 | | 1 | 102 |
| | | 23383 F35/CW/U/6/WM/C | 6 | 14000 | 2300 2100 4100 | 60 | | 1 | 102 |
| MOD-U-LINE® STANDARD U-TUBES | | | | | | | | | |
| T12 | Medium BiPin (G13) | 40 22.5 22050 F40/SP35/U/6/UPC | 12 | 14000 | 3050 2780 3500 | 73 | | | 102 |
| | | 25374 F40/SCW/U/6/UPC 6PK | 6 | 14000 | 2800 2460 4100 | 75 | | | 102 Super Cool White |
| T12 INSTANT START | | | | | | | | | |
| 4' T12 | | | | | | | | | |
| T12 | Single Pin (Fa8) | 40 48 20461 F48T12/CW/UPC 6PK | 24 | 9000 | 2875 2650 4100 | 60 | | | 101 |
| 8' T12 | | | | | | | | | |
| T12 | Single Pin (Fa8) | 75 96 10149 F96T12/SP41/UPC | 15 | 12000 | 6500 6110 4100 | 72 | | | 101 |

Means this lamp meets Federal Minimum Efficiency Standards.



Fluorescent Lamps

| Bulb Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life | Lumens | | | Color Temp. | | Foot-notes | Warning and Cautions | Additional Information |
|--|----------------------|-----------|------|--------------|------------------------------|------------|---------|------|---------|-------------|----|------------|----------------------|-----------------------------|
| | | | | | | | Initial | Mean | Temp. K | CRI | Ⓢ | | | |
| CONSUMER PRODUCTS (CONTINUED) | | | | | | | | | | | | | | |
| T12 (CONTINUED) | | | | | | | | | | | | | | |
| 8' T12 WATT-MISER® ENERGY SAVING LAMPS | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96 | 21856 | F96T12/SP35/WM/UPC | 15 | 12000 | 5700 | 5360 | 3500 | 73 | Ⓢ ⚡ | 1 | 101 |
| | | | | 11217 | F96T12/SP35/WM/C 10PK | 10 | 12000 | 5700 | 5360 | 3500 | 73 | Ⓢ ⚡ | 1 | 101 |
| | | | | 25395 | F96T12/SP41/WM/UPC | 15 | 12000 | 5700 | 5360 | 4100 | 72 | Ⓢ ⚡ | 1 | 101 |
| | | | | 21713 | F96T12/CW/WM/UPC 10PK | 10 | 12000 | 5500 | 5060 | 4100 | 60 | Ⓢ ⚡ | 1 | 101 |
| | | | | 25171 | F96T12/UTCW/EE/C | 10 | 12000 | 5500 | 5060 | 4100 | 60 | Ⓢ ⚡ | 1 | 101 |
| 8' T12 ECOLUX® WATT-MISER® ENERGY SAVING LAMPS | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96 | 16816 | F96T12/CW/WM/ECO | 15 | 12000 | 5500 | 5060 | 4100 | 60 | Ⓢ ⚡ | 1 | 101 |
| T12 RAPID START | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 30 | 36 | 39176 | F30T12/CW/RS 6PK | 24 | 18000 | 2200 | 1910 | 4100 | 60 | | | 101 |
| | | | | 77119 | F30T12/RS/KB/PM | 24 | 18000 | 2350 | 2120 | 3000 | 70 | Ⓢ | | 104 Kitchen & Bath |
| T12 HIGH OUTPUT RAPID START RECESSED DOUBLE CONTACT | | | | | | | | | | | | | | |
| T12 | R17d | 60 | 48 | 27313 | F48T12/CW/HO/UPC | 24 | 12000 | 4050 | 3520 | 4100 | 60 | | | 101 |
| | | 95 | 96 | 21714 | F96T12/CW/HO/WM/UPC | 15 | 12000 | 8000 | 6960 | 4100 | 60 | Ⓢ ⚡ | 1 | 101 |
| PREHEAT | | | | | | | | | | | | | | |
| T5 | | | | | | | | | | | | | | |
| T5 | Miniature BiPin (G5) | 4 | 6 | 15983 | F4T5/CW CARD | 10 | 5000 | 135 | 100 | 4100 | 60 | | | 101 Preheat |
| | | 6 | 9 | 15986 | F6T5/CW CARD | 10 | 5000 | 295 | 235 | 4100 | 60 | | | 101 Preheat |
| | | 8 | 12 | 15987 | F8T5/CW CARD | 10 | 5000 | 400 | 320 | 4100 | 60 | | | 101 Preheat |
| | | | | 25425 | F8T5/WW/CARD | 5 | 5000 | 410 | 330 | 3000 | 52 | | | 101 Preheat, Warm White |
| | | 13 | 21 | 25426 | F13T5/WW/CARD | 5 | 5000 | 870 | 720 | 3000 | 52 | | | 101 Preheat, Warm White |
| T8 | | | | | | | | | | | | | | |
| T8 | Medium BiPin (G13) | 15 | 18 | 13968 | F15T8/SUN 6PK | 24 | 7500 | 620 | 525 | 5000 | 90 | Ⓢ | | 101 Preheat, Sunlight |
| | | 30 | 36 | 22747 | F30T8/KB 6PK | 24 | 7500 | 2125 | 1910 | 3000 | 70 | Ⓢ | | 104 Preheat, Kitchen & Bath |
| | | 15 | 18 | 46982 | F15T12/KB-TP | 24 | 9000 | 785 | 730 | 3000 | 70 | Ⓢ | | 104 Preheat, Kitchen & Bath |
| | | | | 46981 | F15T8/KB-TP | 24 | 7500 | 940 | 850 | 3000 | 70 | Ⓢ | | 104 Preheat, Kitchen & Bath |
| | | | | 21326 | F15T8/KB/6PK | 24 | 7500 | 940 | 850 | 3000 | 70 | Ⓢ | | 104 Preheat, Kitchen & Bath |
| | | | | 10143 | F15T8/CW/6PK | 24 | 7500 | 825 | 725 | 4100 | 60 | Ⓢ | | 101 Preheat |
| | | | | 46980 | F15T8/SUN-TP | 24 | 7500 | 620 | 525 | 5000 | 90 | Ⓢ | | 101 Preheat, Sunlight |
| T12 | | | | | | | | | | | | | | |
| T12 | Medium BiPin (G13) | 14 | 15 | 10117 | F14T12/CW 6PK | 24 | 9000 | 650 | 550 | 4100 | 60 | | | 101 Preheat |
| | | | | 22979 | F14T12/KB 6PK | 24 | 9000 | 700 | 650 | 3000 | 70 | Ⓢ | | 104 Preheat, Kitchen & Bath |
| | | 15 | 18 | 10183 | F15T12/CW 6PK | 24 | 9000 | 760 | 685 | 4100 | 60 | | | 104 Preheat, Kitchen & Bath |
| | | | | 22745 | F15T12/KB 6PK | 24 | 9000 | 785 | 730 | 3000 | 70 | | | 104 Preheat, Kitchen & Bath |
| | | 20 | 24 | 80046 | F20T12/CW/ECO/6PK | 24 | 9000 | 1200 | 1150 | 4100 | 60 | | | 101 Preheat |
| | | | | 25575 | F20T12/D/ECO/UPC | 24 | 9000 | 1025 | 945 | 6500 | 75 | Ⓢ | | 101 Preheat, Daylight |
| | | | | 21325 | F20T12/KB/ECO/6PK | 24 | 9000 | 1275 | 1200 | 3000 | 70 | Ⓢ | | 104 Preheat, Kitchen & Bath |
| | | | | 14419 | F20T12/SUN/ECO/6PK | 24 | 9000 | 875 | 790 | 5000 | 90 | Ⓢ | | 101 Preheat, Sunlight |
| | | | | 25577 | F20T12/WW/ECO/UPC | 24 | 9000 | 1250 | 1150 | 3000 | 52 | | | 101 Preheat, Warm White |
| | | | | 10231 | F20T12/B 6PK | 24 | 9000 | 450 | 330 | | | | | 101 Preheat |
| | | | | 10233 | F20T12/G 6PK | 24 | 9000 | 1575 | 957 | | | | | 101 Preheat |
| | | | | 46914 | F20T12/KB/ECO-TP | 24 | 9000 | 1275 | 1200 | 3000 | 70 | Ⓢ | | 104 Preheat, Kitchen & Bath |
| | | | | 46826 | F20T12/SUN/ECO-TP | 24 | 9000 | 875 | 790 | 5000 | 90 | Ⓢ | | 101 Preheat, Sunlight |
| | | 30 | 36 | 46917 | F30T12/KB/ECO-TP | 24 | 18000 | 2350 | 2120 | 3000 | 70 | Ⓢ | | 104 Preheat, Kitchen & Bath |

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.

See www.gelighting.com e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4. All footnote references found at the end of this section. ⚡ Reduced Wattage Ⓢ High Color Rendering.



Fluorescent Lamps

| Bulb Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life | Color Temp. | | | Foot-notes | Warning and Cautions | Additional Information |
|---------------------------------------|----------------------|-----------|-------|-----------------------|-----------|------------|-------------|---------|-------|------------|----------------------|--|
| | | | | | | | Initial | Mean | K CRI | | | |
| CONSUMER PRODUCTS (CONTINUED) | | | | | | | | | | | | |
| BLACKLIGHT | | | | | | | | | | | | |
| T8 Medium BiPin (G13) | 15 | 18 | 35884 | F15T8/BL 6PK | 24 | 7500 | | | | 8 | 105 | Blacklight, UVA Source |
| T12 | 20 | 24 | 10244 | F20T12/BL 6PK | 24 | 9000 | | | | 8 | 105 | Blacklight, UVA Source |
| | 40 | 48 | 10526 | F40BL 6PK | 24 | 20000 | | | | 8 | 105 | Blacklight, UVA Source |
| BLACKLIGHT BLUE | | | | | | | | | | | | |
| T8 Medium BiPin (G13) | 15 | 18 | 35885 | F15T8/BLB 6PK | 24 | 7500 | | | | | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| T12 Medium BiPin (G13) | 20 | 24 | 34747 | F20T12/BLB 6PK | 24 | 9000 | | | | | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| T9 4 Pin (G10q) | 22 | 8.25 | 25665 | FC8T9/BLB | 6 | 12000 | | | | | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| T12 Medium BiPin (G13) | 40 | 48 | 10531 | F40BLB 6PK | 24 | 20000 | | | | | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| T9 CIRCLINE® | | | | | | | | | | | | |
| T9 4 Pin (G10q) | 20 | 6.5 | 42732 | FC6T9/CW | 12 | 12000 | 800 | 560 | 4100 | 60 | | 101 |
| | 22 | 8.25 | 33774 | FC8T9/CW | 12 | 12000 | 1100 | 825 | 4100 | 60 | | 101 |
| | | | 11026 | FC8T9/D | 12 | 12000 | 925 | 690 | 6500 | 75 | ☞ | 101 Daylight |
| | | | 11084 | FC8T9/KB | 6 | 12000 | 1400 | 1120 | 3000 | 82 | ☞ | 104 Kitchen & Bath |
| | 32 | 12 | 33890 | FC12T9/CW | 12 | 12000 | 1950 | 1460 | 4100 | 60 | | 101 |
| | | | 11039 | FC12T9/D | 12 | 12000 | 1675 | 1260 | 6500 | 75 | ☞ | 101 Daylight |
| | | | 11085 | FC12T9/KB | 6 | 12000 | 2400 | 1920 | 3000 | 82 | ☞ | 104 Kitchen & Bath |
| | 40 | 16 | 33893 | FC16T9/CW | 12 | 12000 | 2700 | 2030 | 4100 | 60 | | 101 |
| | | | 11052 | FC16T9/D | 12 | 12000 | 2250 | 1690 | 6500 | 75 | ☞ | 101 Daylight |
| COVRGUARD® SHATTER RESISTANT | | | | | | | | | | | | |
| T8 PREHEAT | | | | | | | | | | | | |
| T8 Medium BiPin (G13) | 15 | 18 | 46627 | F15T8/KB/CVG/UPC | 24 | 7500 | 910 | 825 | 3000 | 70 | ☞ | 11, 13 104 Kitchen & Bath |
| T12 RAPID START | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 25 | 48 | 46625 | F48"/25W/UTSL/CVG/UPC | 30 | 12000 | 1800 | 1620 | 4100 | 60 | | 11, 13 103 |
| | 40 | 48 | 80995 | F40/KB/ECO/CVG/UPC | 24 | 20000 | 3290 | 2990 | 3000 | 82 | ☞ | 11, 13 108 Kitchen & Bath |
| | | | 80999 | F40/CW/ECO/CVG/UPC | 30 | 20000 | 2930 | 2370 | 4100 | 60 | | 11, 13 103 |
| T12 RAPID START WATT-MISER® | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 34 | 48 | 80997 | F34/CW/WM/ECO/CVG/UPC | 30 | 20000 | 2570 | 2210 | 4100 | 60 | ⚡ | 11, 11, 13 103 |
| T12 PREHEAT | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 20 | 24 | 80984 | F20T12/CW/ECO/CVG/UPC | 24 | 9000 | 1160 | 1110 | 4100 | 60 | | 11, 13 103 |
| | | | 80985 | F20T12/KB/ECO/CVG/UPC | 24 | 9000 | 1230 | 1160 | 3000 | 70 | ☞ | 11, 13 108 Kitchen & Bath |
| T12 INSTANT START | | | | | | | | | | | | |
| T12 Single Pin (Fa8) | 60 | 96 | 41002 | F96T12/CW/WM/CVG/UPC | 15 | 12000 | 5330 | 4910 | 4100 | 60 | ⚡ | 11, 11, 13 103 Watt-Miser® |
| PLANT AND AQUARIUM / TERRARIUM | | | | | | | | | | | | |
| T8 Medium BiPin (G13) | 14 | 15 | 41373 | F14T8/AR/FR 6PK | 24 | 7500 | 360 | 4000 | 92 | ☞ | | 104 Aquarium Lamp Freshwater |
| | | | 40903 | F14T8/AR/FS/6PK | 24 | 7500 | 550 | 9325 | 64 | | | 104 Aquarium Lamp Fresh and Saltwater |
| | | | 41375 | F14T8/AR/SA 6PK | 24 | 7500 | 190 | 1000062 | | | | 104 Aquarium Lamp Saltwater |
| | | | 41377 | F14T8/SR 6PK | 24 | 7500 | 565 | 5000 | 90 | ☞ | | 104 Aquarium/Terrarium Lamp |
| | 15 | 18 | 22907 | F15T8/AR/FR 6PK | 24 | 7500 | 425 | 4000 | 92 | ☞ | | 104 Aquarium Lamp Freshwater |
| | | | 22910 | F15T8/AR/FS 6PK | 24 | 7500 | 675 | 9325 | 64 | | | 104 Aquarium Lamp Fresh and Saltwater |
| | | | 22920 | F15T8/AR/SA 6PK | 24 | 7500 | 210 | 1000062 | | | | 104 Aquarium Lamp Saltwater |
| | | | 49892 | F15T8/PL/AQ 6PK | 24 | 7500 | 510 | 3100 | 90 | ☞ | | 104 Plant & Aquarium Wide Spectrum |
| | | | 22904 | F15T8/SR 6PK | 24 | 7500 | 620 | 5000 | 90 | ☞ | | 104 Aquarium/Terrarium Lamp |



| Bulb Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life | | Color Temp. | | Foot- notes | Warning and Cautions | Additional Information | | |
|---|----------------------|-----------|-------|------------------|-----------|------------------|-------------|---------------------|-------------------------|-------------|----------------------|-----------------------------------|-----|-----------------------------------|
| | | | | | | 3hr/ Start | 12hr/ Start | Lumens Initial Mean | K CRI | | | | | |
| CONSUMER PRODUCTS (CONTINUED) | | | | | | | | | | | | | | |
| PLANT AND AQUARIUM / TERRARIUM (CONTINUED) | | | | | | | | | | | | | | |
| T12 Medium BiPin (G13) | 20 | 24 | 22908 | F20T12/AR/FR 6PK | 24 | 9000 | 600 | 4000 | 92 | ☞ | 104 | Aquarium Lamp Freshwater | | |
| | | | 22911 | F20T12/AR/FS 6PK | 24 | 9000 | 950 | 9325 | 64 | | 104 | Aquarium Lamp Fresh and Saltwater | | |
| | | | 22922 | F20T12/AR/SA 6PK | 24 | 9000 | 270 | 1000062 | | | 104 | Aquarium Lamp Saltwater | | |
| | | | 49891 | F20T12/PL/AQ 6PK | 24 | 9000 | 750 | 3100 | 90 | ☞ | 104 | Plant & Aquarium Wide Spectrum | | |
| | | | 22905 | F20T12/SR 6PK | 24 | 9000 | 875 | 5000 | 90 | ☞ | 104 | Aquarium/Terrarium Lamp | | |
| T8 Medium BiPin (G13) | 30 | 36 | 41374 | F30T8/AR/FR 6PK | 24 | 9000 | 630 | 4000 | 92 | ☞ | 104 | Aquarium Lamp Freshwater | | |
| | | | 40904 | F30T8/AR/FS 6PK | 24 | 9000 | 1400 | 9235 | 64 | | 104 | Aquarium Lamp Fresh and Saltwater | | |
| | | | 41376 | F30T8/AR/SA 6PK | 24 | 9000 | 315 | 1000062 | | | 104 | Aquarium Lamp Saltwater | | |
| T12 Medium BiPin (G13) | 30 | 36 | 41378 | F30T12/SR 6PK | 24 | 18000 | 1100 | 5000 | 90 | ☞ | 104 | Plant & Aquarium Wide Spectrum | | |
| | | | 40 | 48 | 22909 | F40T12/AR/FR 6PK | 24 | 9000 | 1425 | 4000 | 92 | ☞ | 104 | Aquarium Lamp Freshwater |
| | | | | | 22914 | F40T12/AR/FS 6PK | 24 | 9000 | 2350 | 9325 | 64 | | 104 | Aquarium Lamp Fresh and Saltwater |
| | | | 22923 | F40T12/AR/SA 6PK | 24 | 9000 | 700 | 1000062 | | | 104 | Aquarium Lamp Saltwater | | |
| | | | 49893 | F40PL/AQ 6PK | 24 | 20000 | 1900 | 3100 | 90 | ☞ | 104 | Plant & Aquarium Wide Spectrum | | |
| 22906 | F40T12/SR 6PK | 24 | 20000 | 2250 | 5000 | 90 | ☞ | 104 | Aquarium/Terrarium Lamp | | | | | |

OPERATING NOTES

GENERAL OPERATION

GE fluorescent lamps should be used only with auxiliary equipment designed to produce proper characteristics. Specifications for auxiliary equipment are covered by ANSI. Specifications for auxiliary equipment not included in ANSI Standards are available from GE Lighting.

FACTORS AFFECTING LAMP PERFORMANCE

Ballasts

The three basic types of ballasts for fluorescent lamps are Preheat (PH), Instant Start (IS), and Rapid Start (RS). In general, lamps identified as preheat, rapid start or instant start should be used only on the corresponding ballast type. Electronic ballasts are presently available in both instant start and rapid start designs. Ballasts that operate with output currents below recommended levels, either by design or poor performance, will reduce fluorescent lamp life.

Application - Choosing the appropriate ballast for an application can have an impact on lamp life. For example, T8 lamps with electronic Instant Start ballasts should not be used in applications with electronic controls (such as occupancy sensors). The frequent switching will significantly reduce lamp life. Use only programmed rapid start ballasts in these situations.

Operating Characteristics - Fluorescent lamp life is strongly affected by the ballast. ANSI has set standards for fluorescent ballasts that will ensure proper operation of fluorescent lamps. Ballast characteristics that have a significant effect on lamp life are Current Crest Factor, Starting Time, Cathode Voltage and Open Circuit Voltage.

Ballast Factor - This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast. For example, a ballast having a ballast factor of 0.93 will result in the lamp emitting 93% of its rated lumen output.

High Frequency - All fluorescent lamps operate more efficiently when driven at frequencies greater than 15 kHz. Four-foot fluorescent lamps operate approximately 10% more efficiently, while eight-foot lamps improve efficiency by about 5%. This efficiency improvement is one reason for the popularity of electronic ballasts.

Temperature

Light output and watts of a fluorescent lamp are affected by the ambient temperature, and by drafts. Most fluorescent lamps reach their maximum light output at room temperatures or at "luminaire temperatures." All-Weather fluorescent lamps are designed with jackets that improve performance in low temperature environments.

Luminaire

The design of the lighting fixture (luminaire) affects the ambient temperature in which the fluorescent lamps will be operating. A fixture that operates too cool or warm will result in lower light output from the lamps and reduce illumination levels.

Starting

The life of a fluorescent lamp is affected by the number of times the lamp is started. Starting results in shorter lamp life, while continuous operation will provide the longest lamp life. All fluorescent lamps, except where noted, have life ratings based on 3 hours per start.



GENERAL INFORMATION

LUMENS

Nominal Initial Lumens refer to the nominal light output of the lamp after 100 hours of operation at 25° C. **Nominal Mean Lumens** refer to the nominal light output of the lamp at 40% of its rated life. Some values are based on engineering calculations derived from extrapolation of initial measured lumens.

A self-ballasted lamp is measured using its integral ballast. Lamps without an integral ballast are measured using reference ballasts.

Lumens produced by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings. For lighting design calculations, refer to the ballast manufacturer's published data for the appropriate "Ballast Factor".

NOMINAL WATTS

Wattage is classified in accordance with American National Standards Institute standards and may not be the same as the wattage run on a reference ballast. The nominal wattage as defined by ANSI may vary from the listed wattage. Watts consumed by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings. The watts shown for self ballasted lamps are nominal system watts.

RATED LIFE

The rated life (hours) is the approximate median life when lamps are operated for three hours per start under laboratory conditions using ballasts which meet industry standards or GE Lighting specifications where no industry standards exist. Rated life for self-ballasted lamps is the approximate median life when operated for three hours per start under laboratory conditions. Some lamps are rated at 12 hours per start where noted.

FOOTNOTES

Footnote

- Watt-Miser®, Watt-Miser® Plus, F28T8/UMX and Energy Efficient (/EE) lamps are intended for use where ambient temperatures are 60°F (16°C) or higher and where the lamp surface is protected from strong air drafts. Failure to protect the lamp surface may result in reduced life, poor starting or erratic operation, such as flickering or spiraling. These lamps are not recommended for use with dimming systems. All T12 Watt-Miser® lamps are intended for use on two-lamp, indoor, lead, high power factor ballasts and are not recommended for use with dimming or reduced current systems. The use of T12 Watt-Miser® lamps on single lamp ballasts may shorten lamp life. T12 Rapid Start Watt-Miser® lamps are intended for use only with Rapid Start Ballasts. F34 Rapid Start Watt-Miser® lamps on high frequency electronic systems may display erratic starting before end of life. T8 Watt-Miser® lamps and F28/UMX lamps are intended for use only with instant start ballasts. They are, however, also approved for use on GE UltraStart programmed rapid start ballasts.
- Reprographic Peak Emission 417nm. 2000 hours useful life; burning hours longer.
- F40T17/CW/IS lamps are for use only in fixtures equipped with instant start ballasts.
- Because Power Groove® and Very High Output lamps are most used in commercial applications, the life rating is based on 12 hrs. per start.
- Bare "Cold Temperature" lamps (as indicated by /CT) and "All Temperature" lamps are designed for use where ambient temperatures drop below 60°F (16°C).
- Performance data based on engineering estimates.
- CAUTION: Risk Group 1 (Low Risk): UV emitted from this lamp. Skin or eye irritation could result. Minimize exposure.
- WARNING: Risk Group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result.
- Shoplites are not recommended to be used on F40 full light output ballasts. Life will be reduced by approximately 50%.
- Lumen rating based on approximate 3% reduction in light output with CovRguard® sleeving.
- Do not use CovRguard® HO lamps in watertight or airtight fixtures.
- Blocks 100% of UV-B and UV-C. Blocks from 75 to 99% of UV-A, depending on lamp type.
- Life rating is based on 12 hrs. per start.
- Lumen rating based on approximate 3% reduction in light output with jacket.
- Life rating is based on UV maintenance curve and is measured at 80% of initial (100hr) UVC output.
- Jacketed "Cold Temperature" lamps (as indicated by -CT) are designed for use where ambient temperatures do not rise above 32°F (0°C).
- T8 lamps run on Instant Start ballasts should not be used in conjunction with electronic controls such as occupancy sensors. The frequent switching will significantly impact lamp life and void any warranties. Programmed Rapid Start ballasts such as GE's UltraStart ballast should be used in these situations.
- T5 Starcoat® Ecolux® lamp initial and mean lumen ratings are taken at 95°F (35°C)

Performance Notes:

T8 Lamps:

- Rated life for F32T8, F32T8/XL or SXL, and F32T8/HL/XL lamps is rated life on **rapid start and instant start** circuits. See product section for lamp specific ratings.
- Rated life for F32T8/WM and F32T8/WM/XL and the F28T8/UMX lamps is rated life on **instant start** circuits.
- Rated life for F17T8 and F25T8 (including XL versions), as well as, the F40T8 is rated life on **rapid start** circuits. Rated life for these linear lamps on instant start electronic circuits is reduced by 25%.

T12 Lamps: Life of 4' T12 lamps on single-lamp, rapid start ballasts may be reduced.

COLOR TEMPERATURE / CHROMATICITY

Approximate color temperature of fluorescent is measured using industry standard methods and is based on a nominal 40-watt source. Fluorescent sources operating at different lamp currents will have slightly shifted color appearances when compared to the corresponding 40-watt sources.

SCOTOPIC/PHOTOPIC RATIO

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic Vision) and cones to yellow light (Photopic Vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens, for the light source, on an ANSI reference ballast. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

SCOTOPIC/PHOTOPIC (S/P) RATIO:

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic vision) and cones to yellow light (Photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

| T5 | S/P Ratio | F17 and F25T8 | S/P Ratio | F32 and F32T8/WM | S/P Ratio |
|-------|-----------|---------------|-----------|--------------------|-----------|
| 830 | 1.3 | SP30 | 1.3 | SP30 | 1.3 |
| 835 | 1.5 | SP35 | 1.4 | SP35 | 1.4 |
| 841 | 1.7 | SP41 | 1.6 | SP41 | 1.6 |
| 850 | 1.9 | F17 and F25T8 | S/P Ratio | SP50 | 1.9 |
| 865 | 2.2 | SPX30 | 1.3 | SP65 | 2.1 |
| F28T8 | S/P Ratio | SPX35 | 1.5 | F32T8 and F32T8/HL | S/P Ratio |
| SP30 | 1.3 | SPX41 | 1.8 | SPX30 | 1.3 |
| SP35 | 1.5 | SPX50 | 2.0 | SPX35 | 1.5 |
| SP41 | 1.8 | SPX65 | 2.3 | SPX41 | 1.8 |
| SP50 | 2.0 | | | SPX50 | 2.0 |
| | | | | SPX65 | 2.3 |



WARNING AND CAUTION NOTICES

101

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

▲ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

102

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

▲ CAUTION

Improper handling may cause breakage

- Do not carry lamp by bracket

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

103

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

104

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact

▲ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

105

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

▲ CAUTION

Lamp emits UV radiation which may cause eye/skin irritation. RG-1

- Minimize exposure

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

106

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

Lamp emits UV radiation which may cause eye/skin injury. RG-3

- Avoid exposure of eyes and skin to unshielded lamp

▲ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

107

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not open - there are no serviceable parts inside
- Do not drill or cut into plastic parts
- Avoid direct water/liquid contact
- Fully insert plug
- Use indoors only

▲ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Lamp is not replaceable. Do not attempt to remove lamp from fixture
- Use in permanent installation only — not for portable use

Unit will fail if not installed properly

- Follow installation instructions

108

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact



FLUORESCENT LAMP CROSS REFERENCE

| GE Description | Osram Sylvania Description | Philips Description |
|--|----------------------------|-----------------------|
| ORDER THIS GE LAMP IF YOU USE THESE LAMPS | | |
| APPLIANCE | | |
| F24T8/CW/4 | F18T8/CW/K/24 | F18T8/CW/24 |
| F26T8/CW/4 (19W) | F18T8/CW/K/26 | F16T8/CW/26 (16W) |
| F28T8/CW/4 (19W) | F18T8/CW/K/28 | F17T8/CW/28 (17W) |
| F30T8/CW/4 | F18T8/CW/K/30 | F18T8/CW/30 (18W) |
| F25T12/CW/33 | F25T12/CW/33 | — |
| ECOLUX® T8 SP | | |
| F17T8/SP30/ECO | OCTRON® F017/730/ECO | TL70 F17T8/TL730/ALTO |
| F17T8/SP35/ECO | F017/735/ECO | F17T8/TL735/ALTO |
| F17T8/SP41/ECO | F017/741/ECO | F17T8/TL741/ALTO |
| F25T8/SP30/ECO | F025/730/ECO | F25T8/TL730/ALTO |
| F25T8/SP35/ECO | F025/735/ECO | F25T8/TL735/ALTO |
| F25T8/SP41/ECO | F025/741/ECO | F25T8/TL741/ALTO |
| F32T8/SP30/ECO | F032/730/ECO | F32T8/TL730/ALTO |
| F32T8/SP35/ECO | F032/735/ECO | F32T8/TL735/ALTO |
| F32T8/SP41/ECO | F032/741/ECO | F32T8/TL741/ALTO |
| F32T8/SP50/ECO | F032/750/ECO | F32T8/TL750/ALTO |
| F32T8/SP65/ECO | F032/765/ECO | — |
| ECOLUX® T8 SPX | | |
| F17T8/SPX30/ECO | OCTRON® F017/830/ECO | TL80 F17T8/TL830/ALTO |
| F17T8/SPX35/ECO | F017/835/ECO | F17T8/TL835/ALTO |
| F17T8/SPX41/ECO | F017/841/ECO | F17T8/TL841/ALTO |
| F25T8/SPX30/ECO | F025/830/ECO | F25T8/TL830/ALTO |
| F25T8/SPX35/ECO | F025/835/ECO | F25T8/TL835/ALTO |
| F25T8/SPX41/ECO | F025/841/ECO | F25T8/TL841/ALTO |
| F32T8/SPX30/ECO | F032/830/ECO | F32T8/TL830/ALTO |
| F32T8/SPX35/ECO | F032/835/ECO | F32T8/TL835/ALTO |
| F32T8/SPX41/ECO | F032/841/ECO | F32T8/TL841/ALTO |
| F32T8/SPX50/ECO | F032/850/ECO | F32T8/TL850/ALTO |
| ECO EXTRA-LIFE T8 SP | | |
| F17T8/XL/SP30/ECO | F017/730/XP/ECO | — |
| F17T8/XL/SP35/ECO | F017/735/XP/ECO | — |
| F17T8/XL/SP41/ECO | F017/741/XP/ECO | — |
| F25T8/XL/SP30/ECO | F025/730/XP/ECO | — |
| F25T8/XL/SP35/ECO | F025/735/XP/ECO | — |
| F25T8/XL/SP41/ECO | F025/741/XP/ECO | — |
| F32T8/XL/SP30/ECO | F032/730/XP/ECO | F32T8/TL730 PLUS/ALTO |
| F32T8/XL/SP35/ECO | F032/735/XP/ECO | F32T8/TL735 PLUS/ALTO |
| F32T8/XL/SP41/ECO | F032/741/XP/ECO | F32T8/TL741 PLUS/ALTO |

| GE Description | Osram Sylvania Description | Philips Description |
|--|----------------------------|-------------------------|
| ORDER THIS GE LAMP IF YOU USE THESE LAMPS | | |
| ECO EXTRA-LIFE T8 SPX XP/ECO PLUS/ALTO | | |
| F17T8/XL/SPX30/ECO | F017/830/XP/ECO | F17T8/TL830/PLUS/ALTO |
| F17T8/XL/SPX35/ECO | F017/835/XP/ECO | F17T8/TL835/PLUS/ALTO |
| F17T8/XL/SPX41/ECO | F017/841/XP/ECO | F17T8/TL841/PLUS/ALTO |
| F17T8/XL/SPX50/ECO | F017/850/XP/ECO | F17T8/TL850/PLUS/ALTO |
| F17T8/XL/SPX65/ECO | F017/865/XP/ECO | F17T8/TL865/PLUS/ALTO |
| F25T8/XL/SPX30/ECO | F025/830/XP/ECO | F25T8/TL830/PLUS/ALTO |
| F25T8/XL/SPX35/ECO | F025/835/XP/ECO | F25T8/TL835/PLUS/ALTO |
| F25T8/XL/SPX41/ECO | F025/841/XP/ECO | F25T8/TL841/PLUS/ALTO |
| F25T8/XL/SPX50/ECO | F025/850/XP/ECO | F25T8/TL850/PLUS/ALTO |
| F25T8/XL/SPX65/ECO | F025/865/XP/ECO | F25T8/TL865/PLUS/ALTO |
| F32T8/XL/SPX30/ECO | F032/830/XP/ECO | F32T8/TL830 PLUS/ALTO |
| F32T8/XL/SPX35/ECO | F032/841/XP/ECO | F32T8/TL835 PLUS/ALTO |
| F32T8/XL/SPX41/ECO | F032/835/XP/ECO | F32T8/TL841 PLUS/ALTO |
| F32T8/XL/SPX50/ECO | F032/850/XP/ECO | F32T8/TL850 PLUS/ALTO |
| F32T8/XL/SPX65/ECO | F032/865/XP/ECO | F32T8/TL865 PLUS/ALTO |
| 4' T8 HIGH LUMEN (HL) | | |
| F32T8/XL/SPX30/HL/ECO | F032/830/XPS/ALTO | F32T8/ADV830/ALTO |
| F32T8/XL/SPX35/HL/ECO | F032/835/XPS/ALTO | F32T8/ADV835/ALTO |
| F32T8/XL/SPX41/HL/ECO | F032/841/XPS/ALTO | F32T8/ADV841/ALTO |
| F32T8/XL/SPX50/HL/ECO | F032/850/XPS/ALTO | F32T8/ADV850/ALTO |
| 4' T8 WATT-MISER® | | |
| F32T8/SP30/IS/WM/ECO | F032/730/SS/ECO | — |
| F32T8/SP35/IS/WM/ECO | F032/735/SS/ECO | — |
| F32T8/SP41/IS/WM/ECO | F032/741/SS/ECO | — |
| F32T8/SP50/IS/WM/ECO | F032/750/SS/ECO | — |
| 4' T8 WATT-MISER® EXTRA-LIFE | | |
| F32T8/XL/SP30/WM/ECO | — | F32T8/ADV830/EW/LL/ALTO |
| F32T8/XL/SP35/WM/ECO | — | F32T8/ADV835/EW/LL/ALTO |
| F32T8/XL/SP41/WM/ECO | — | F32T8/ADV841/EW/LL/ALTO |
| F32T8/XL/SP50/WM/ECO | — | F32T8/ADV850/EW/LL/ALTO |
| 4' T8 ULTRAMAX™ 28W | | |
| F28T8/SP30/UMX/ECO | F028/830/XP/SS/ECO | — |
| F28T8/SP30/UMX/ECO | F028/835/XP/SS/ECO | — |
| F28T8/SP30/UMX/ECO | F028/841/XP/SS/ECO | — |
| 4' T8 VERY LONG LIFE (SXL) | | |
| F32T8/SXL/SP30/ECO | F032/830/XPS/ECO | F32T8/TL830 PLUS/ALTO |
| F32T8/SXL/SP35/ECO | F032/835/XPS/ECO | F32T8/TL830 PLUS/ALTO |
| F32T8/SXL/SP41/ECO | F032/841/XPS/ECO | F32T8/TL830 PLUS/ALTO |
| 4' T12 WATT-MISER® F40 | | |
| F34/CW/RS/WM/ECO | F34CW/SS/ECO | F34CW/RS/EW/ALTO |
| F34WW/RS/WM/ECO | F34WW/SS/ECO | F34WW/RS/EW/ALTO |
| F34/SP30/RS/WM/ECO | F34/D30/SS/ECO | F34/SPEC30/RS/EW/ALTO |
| F34/SP35/RS/WM/ECO | F34/D35/SS/ECO | F34/SPEC35/RS/EW/ALTO |
| F34/SP41/RS/WM/ECO | F34/D41/SS/ECO | F34/SPEC41/RS/EW/ALTO |
| F34/SP50/RS/WM/ECO | — | — |
| F34/SP65/RS/WM/ECO | — | — |



FLUORESCENT LAMP CROSS REFERENCE (CONTINUED)

| GE Description | Osram Sylvania Description | Philips Description |
|--|----------------------------|-----------------------|
| ORDER THIS GE LAMP IF YOU USE THESE LAMPS | | |
| 4' T12 WATT-MISER® F40 SPX | | |
| F34/SPX30/RS/WM/ECO | F34/D830/SS/ECO | F34/30U/RS/EW/ALTO |
| F34/SPX35/RS/WM/ECO | F34/D835/SS/ECO | F34/35U/RS/EW/ALTO |
| F34/SPX41/RS/WM/ECO | F34/D841/SS/ECO | F34/41U/RS/EW/ALTO |
| 8' T12 WATT-MISER® (WM) | | |
| F96T12/SP30/WM/ECO | F96T12/D30/SS/ECO | F96T12/SPEC30/EW/ALTO |
| F96T12/SP35/WM/ECO | F96T12/D35/SS/ECO | F96T12/SPEC35/EW/ALTO |
| F96T12/SP41/WM/ECO | F96T12/D41/SS/ECO | F96T12/SPEC41/EW/ALTO |
| F96T12/SP65/WM/ECO | F96T12/D65/SS (not ECO) | — |
| F96T12/SPX30/WM/ECO | F96T12/D830/SS/ECO | F96T12/30U/EW/ALTO |
| F96T12/SPX35/WM/ECO | F96T12/D835/SS/ECO | F96T12/35U/EW/ALTO |
| F96T12/SPX41/WM/ECO | F96T12/D841/SS/ECO | F96T12/41U/EW/ALTO |
| F96T12/SP30/ECO | F96T12/D30/ECO | F96T12/SPEC30/ALTO |
| F96T12/SP35/ECO | F96T12/D35/ECO | F96T12/SPEC35/ALTO |
| F96T12/SP41/ECO | F96T12/D41/ECO | F96T12/SPEC41/ALTO |
| F96T12/SPX30/ECO | F96T12/D830/ECO | F96T12/SPEC30U/ALTO |
| F96T12/SPX35/ECO | F96T12/D835/ECO | F96T12/SPEC35U/ALTO |
| F96T12/SPX41/ECO | F96T12/D841/ECO | F96T12/SPEC41U/ALTO |
| 8' T12 HIGH OUTPUT (WM) | | |
| F96T12/CW/HO/WM/ECO | F96T12/CW/HO/SS/ECO | F96T12/CW/HO/EW/ALTO |
| T5 AND T5/HO | | |
| F14W/T5/830/ECO | FP14/830/ECO | F14T5/830/ALTO |
| F14W/T5/835/ECO | FP14/835/ECO | F14T5/835/ALTO |
| F14W/T5/841/ECO | FP14/841/ECO | F14T5/841/ALTO |
| F14W/T5/850/ECO | — | — |
| F14W/T5/865/ECO | — | — |
| F21W/T5/830/ECO | FP21/830/ECO | F21T5/830/ALTO |
| F21W/T5/835/ECO | FP21/835/ECO | F21T5/835/ALTO |
| F21W/T5/841/ECO | FP21/841/ECO | F21T5/841/ALTO |
| F21W/T5/850/ECO | — | — |
| F21W/T5/865/ECO | — | — |
| F28W/T5/830/ECO | FP28/830/ECO | F28T5/830/ALTO |
| F28W/T5/835/ECO | FP28/835/ECO | F28T5/835/ALTO |
| F28W/T5/841/ECO | FP28/841/ECO | F28T5/841/ALTO |
| F28W/T5/850/ECO | — | — |
| F28W/T5/865/ECO | FP28/865/ECO | — |
| F35W/T5/830/ECO | FP35/830/ECO | F35T5/830 |
| F35W/T5/835/ECO | FP35/835/ECO | F35T5/835 |
| F35W/T5/841/ECO | FP35/841/ECO | F35T5/841 |
| F35W/T5/850/ECO | — | — |
| F35W/T5/865/ECO | — | — |
| F24W/T5/830/ECO | FP24/830/HO/ECO | F24T5/830/HO/ALTO |
| F24W/T5/835/ECO | FP24/835/HO/ECO | F24T5/835/HO/ALTO |
| F24W/T5/841/ECO | FP24/841/HO/ECO | F24T5/841/HO/ALTO |
| F24W/T5/850/ECO | — | — |

| GE Description | Osram Sylvania Description | Philips Description |
|--|----------------------------|---------------------|
| ORDER THIS GE LAMP IF YOU USE THESE LAMPS | | |
| T5 AND T5/HO (CONTINUED) | | |
| F24W/T5/865/ECO | — | — |
| F39W/T5/830/ECO | FP39/830/HO/ECO | F39T5/830/HO/ALTO |
| F39W/T5/835/ECO | FP39/835/HO/ECO | F39T5/835/HO/ALTO |
| F39W/T5/841/ECO | FP39/841/HO/ECO | F39T5/841/HO/ALTO |
| F39W/T5/850/ECO | — | — |
| F39W/T5/865/ECO | — | — |
| F54W/T5/830/ECO | FP54/830/HO/ECO | F54T5/830/HO/ALTO |
| F54W/T5/835/ECO | FP54/835/HO/ECO | F54T5/835/HO/ALTO |
| F54W/T5/841/ECO | FP54/841/HO/ECO | F54T5/841/HO/ALTO |
| F54W/T5/850/ECO | FP54/850/HO/ECO | F54T5/850/HO/ALTO |
| F54W/T5/865/ECO | FP54/865/HO/ECO | F54T5/865/HO/ALTO |
| F49W/T5/830/ECO | — | — |
| F49W/T5/835/ECO | — | — |
| F49W/T5/841/ECO | — | — |
| F49W/T5/850/ECO | — | — |
| F49W/T5/865/ECO | — | — |
| F80W/T5/830/ECO | FP80/830/HO | F80T5/830/HO |
| F80W/T5/835/ECO | FP80/835/HO | F80T5/835/HO |
| F80W/T5/841/ECO | FP80/841/HO | F80T5/841/HO |
| F80W/T5/850/ECO | — | — |
| F80W/T5/865/ECO | — | — |
| OTHER RAPID START | | |
| F96PG17/CW/WM | — | — |
| F34CW/U/6/WM/ECO | FB34/CW/6/SS/ECO | FB34/CW/6/EW/ALTO |
| F40CW/U/3 | — | — |
| F40CW/U/6 | FB40CW/6 | — |
| F48T12/CW/1500 | F48T12/CW/VHO | F48T12/CW/VHO |
| F48PG17/CW | — | — |
| F72T12/CW/1500 | F72T12/CW/VHO | F72T12/CW/VHO |
| F72PG17/CW | — | — |
| F96T12/CW/1500 | F96T12/CW/VHO | F96T12/CW/VHO |
| F96PG17/CW | — | — |
| F48T12/CW/1500/0 | F48T12/CW/VHO/LT | F48T12/CW/VHO-0 |
| F48T12/CW/VHO/0 | — | — |
| F60T10/CW | F60T12/CW/VHO/LT | F60T12/CW/VHO-0 |
| F72T12/CW/1500/0 | F72T12/CW/VHO/LT | F72T12/CW/VHO-0 |
| F96T12/CW/1500/0 | F96T12/CW/VHO/LT | F96T12/CW/VHO-0 |
| F48T10J/CW | FJ48T12/CW/VHO/LT | FJ48T12/CW/VHO-0 |
| F60T10J/CW | — | FJ60T12/CW/VHO-0 |
| F72T10J/CW | FJ72T12/CW/VHO/LT | FJ72T12/CW/VHO-0 |
| F96T10J/CW | FJ96T12/CW/VHO/LT | FJ96T12/CW/VHO-0 |



GE ULTRAMAX® INSTANT START BALLASTS

GE REVOLUTIONIZES LIGHTING AGAIN WITH BREAKTHROUGH TECHNOLOGY

In the GE labs, our engineers have developed a breed of ballasts to make lighting systems that save more energy, are more adaptable, and deliver optimal lamp performance. The innovative, patented technology in our new UltraMax® electronic ballasts exceeds expectations, and is like nothing else available.

MULTI-VOLTAGE TECHNOLOGY MEANS A SINGLE ULTRAMAX® MODEL HANDLES VOLTAGE FROM 120 THROUGH 277

UltraMax® Ballasts can virtually “read” the incoming voltage and adapt automatically to any voltage from 108V to 305V. The benefits of Multi-Voltage Control (MVC) are obvious:

- Fewer models handle more jobs, eliminating inventory hassles.
- MVC simplifies installation and eliminates guesswork at the job site.
- MVC compensates for incoming voltage fluctuations or variations from unreliable power.

THE ULTRAMAX® IS THE ONLY FULL LINE OF T8 BALLASTS WITH A UL TYPE CC ANTI-ARC RATING

UL Type CC Rating is a stringent designation of protection against arcing in electrical devices. GE's Arc-Guard design eliminates the damaging effects arcing can have on lamps, ballasts and sockets.

HIGH EFFICIENCY DELIVERS OVER 40% ENERGY SAVINGS

Ballasts are the new frontier of energy efficiency. Systems combining UltraMax® electronic ballasts and T8/WM lamps can deliver over 40% energy savings over standard electromagnetically ballasted T12 systems. Since energy costs are typically 80% of the overall cost of light, a more efficient system can pay for itself in a very short time and provide an excellent return on investment.

ULTRAMAX® IS ULTRA LAMP FRIENDLY

With an industry low lamp current crest factor (LCCF) of <1.5, UltraMax® ensures optimal lamp operation and maximum lamp life, which can save on lamp and maintenance costs.

ACTIVE CURRENT REGULATION (ACR) TECHNOLOGY IS A PATENTED ADVANTAGE

The UltraMax® ballast's patented ACR modular design means individual inverter modules regulate the output current to each lamp. So, unlike conventional ballasts, if one lamp fails, the remaining lamps are not forced to operate at a higher current. This ensures optimal lamp performance.

ANTI-STRIATION CONTROL FOR BETTER LIGHT QUALITY, WITH NO STRIATIONS

The UltraMax® is the only line of T8 ballasts with Anti-Striation Control. This advanced technology eliminates the maintenance issues caused by striating lamps, often referred to as spiraling or swirling. This provides a flicker- and worry-free environment.

COMPARE THE ENERGY USE OF A THREE LAMP FIXTURE

| Technology | Watts |
|----------------------------------|-------|
| Standard T12/WM System | 117 |
| Standard Electronic T8 System | 87 |
| UltraMax™ L System With GE F28T8 | 65 |

FULLY PARALLEL INDEPENDENT LAMP OPERATION MAKES SYSTEM EASIER TO MAINTAIN

If one lamp fails, all the others in the system stay lit. That means system maintenance is easier to manage.

ULTRAMAX® IS ULTRA-COOL

The UltraMax® ballast's high efficiency design results in ultra-cool operation that can provide additional AC energy savings, especially during peak demand periods.

A BIG IDEA IN A SMALL PACKAGE

The UltraMax® ballast housing is smaller, lower-profile and lightweight. That can be a big help in retrofits. It also means future fixture designs can be more compact and streamlined.

EVERY UNIT IS TESTED AND PROVEN BEFORE IT'S SHIPPED

GE does 100% burn-in on every UltraMax™ ballast using our extreme open/short test, which simulates undesirable and harsh-use situations, so you are assured of a system you can rely on right out of the box.

GE SIX SIGMA QUALITY BACKED BY A FULL 5-YEAR LIMITED WARRANTY

The UltraMax® ballast is designed by GE's expert engineers and custom-manufactured to our exacting Six Sigma specifications, all backed by a full 5-year warranty. When used with GE T8 Lamps you also get our Total Performance System Warranty which can cover lamps up to 3 years depending on your annual usage. Contact your GE Representative for more details.

A FULL FAMILY OF HIGH EFFICIENCY MULTI-VOLTAGE BALLASTS FOR ALL T8 APPLICATIONS



The Low watt option for Max energy savings. With a ballast factor of .77, the L line is the most energy efficient choice. It provides adequate illumination for most applications. For 1, 2, 3, and 4 T8 lamps in 2', 3', and 4' lengths.



The Normal light option balances efficiency and illumination. The most-used type of ballast, the N line saves energy without sacrificing lumens. A ballast factor of .87 meets most application needs. For 1, 2, 3, and 4 T8 lamps in 2', 3', 4', and 8' lengths.



The choice for High light output. With a ballast factor of 1.15, UltraMax® H delivers the most lumens for maximum light or when you want more savings using fewer lamps. This is the first high-efficiency high-light output line for 2, 3 and 4 T8 lamps.



ULTRASTART® PROGRAMMED START BALLASTS

FEATURES AND BENEFITS

Longer Lamp Life in Frequently Switched Applications

- UltraStart® extends lamp life by 18% to greater than 200% versus instant start ballasts in frequently switched applications, saving you money in maintenance costs and replacement lamps.
- Program Start ballasts are required in any applications using sensors or where extended lamp life is a primary concern. Operation of instant start ballast systems in frequently-switched applications in conjunction with automated controls (such as, but not limited to, occupancy sensor) will void lamp warranties.

Same Energy Savings as High-Efficiency Instant Start Ballasts

- GE UltraStart® ballasts operate at an industry high 90%+ efficiency. Traditional PS ballasts typically operate between 79–86%.

Simplify Installation with Multi-Voltage Technology

- The UltraStart® T5 and UltraStart® T8 XL and H ballasts incorporate Multi-Voltage technology. UltraStart® can virtually “read” the incoming voltage and adapt automatically to any voltage from 108V to 305V. Fewer models handle more jobs with Multi-Voltage technology, and it eliminates guess work at the job site. Multi-Voltage BallastsControl (MVC) also compensates for incoming voltage fluctuations or variations from unreliable power.

Lower Maintenance Costs with Parallel Mode Operation

- Most PS ballasts operate in series mode, meaning if one bulb goes out, they all go out. GE UltraStart® T8 ballasts operate in parallel mode, meaning if one bulb goes out, others stay on.

Fast Starting Time

- GE UltraStart® T8 ballasts start in visually the same time as instant start ballasts (less than 0.7 seconds)—a significant improvement versus

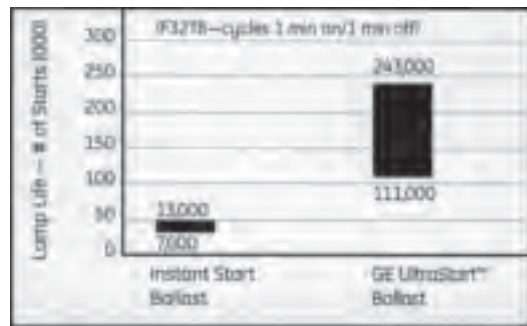
traditional PS ballasts. An important feature when using sensors and the annoying delay of waiting for the lights to turn on with traditional PS ballasts.

Complies with (RoHS) Restrictions of Hazardous Materials Standards.

GE LAMP LIFE RANGE—INSTANT START VS. PROGRAMMED START**

GE lamp life studies have shown that lamp life is up to 20 times longer in rapid cycle testing. Lamp life tests have demonstrated 111,000 to 243,000 starts on F32T8 lamps with GE UltraStart® ballasts as opposed to only 7,000 to 13,000 starts with standard instant start ballasts. UltraStart® maximizes lamp life in frequently switched applications and where lamp life is a primary concern. GE UltraStart® ballasts and lamps provide guaranteed performance with the GE Total System Limited Warranty.

**GE 2004–2005 lamp testing @ industry standard B50 rapid cycle testing.



| Product Code | Description | Application | Starting Method | Ballast Factor | Lamp Wiring | Package Type | Units Per Carton |
|--|------------------|---|-----------------|----------------|-------------|--------------|------------------|
| ULTRAMAX® INSTANT START MULTI-VOLTAGE HIGH EFFICIENCY | | | | | | | |
| 49706 | GE132MAX-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF | Instant Start | Low | Parallel | Standard | 10 |
| 49771 | GE132MAX-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 23939 | GE132MAX-N-IP | 1- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton | Instant Start | Normal | Parallel | DIY | 4 |
| 49775 | GE232MAX-H/ULTRA | 2 or 1- F32T8 120 to 277 "H" 1.15 BF | Instant Start | High | Parallel | Standard | 10 |
| 47548 | GE232MAX-H-42T | 2 or 1- F32T8 120 to 277 "H" 1.15 BF Pallet Pack | Instant Start | High | Parallel | Pallet Pack | 420 |
| 49707 | GE232MAX-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF | Instant Start | Low | Parallel | Standard | 10 |
| 47546 | GE232MAX-L-42T | 2 or 1- F32T8 120 to 277 "L" .77 BF Pallet Pack | Instant Start | Low | Parallel | Pallet Pack | 420 |
| 49772 | GE232MAX-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 31052 | GE232MAX-N-42T | 2 or 1- F32T8 120 to 277 "N" .87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 420 |
| 23940 | GE232MAX-N-IP | 2 or 1- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton | Instant Start | Normal | Parallel | DIY | 4 |
| 49776 | GE332MAX-H/ULTRA | 3 or 2- F32T8 120 to 277 | Instant Start | High | Parallel | Standard | 10 |
| 47549 | GE332MAX-H-42T | 3 or 2- F32T8 120 to 277 "H" 1.15 BF Pallet Pack | Instant Start | High | Parallel | Pallet Pack | 420 |
| 49708 | GE332MAX-L/ULTRA | 3 or 2- F32T8 120 to 277 "L" .77 BF | Instant Start | Low | Parallel | Standard | 10 |
| 31055 | GE332MAX-L-42T | 3 or 2- F32T8 120 to 277 "L" .77 BF Pallet Pack | Instant Start | Low | Parallel | Pallet Pack | 420 |
| 49773 | GE332MAX-N/ULTRA | 3 or 2- F32T8 120 to 277 "N" .87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 31053 | GE332MAX-N-42T | 3 or 2- F32T8 120 to 277 "N" .87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 420 |
| 23941 | GE332MAX-N-IP | 3 or 2- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton | Instant Start | Normal | Parallel | DIY | 4 |
| 49777 | GE432MAX-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.15 BF | Instant Start | High | Parallel | Standard | 10 |
| 47550 | GE432MAX-H-42T | 4 or 3- F32T8 120 to 277 "H" 1.15 BF Pallet Pack | Instant Start | High | Parallel | Pallet Pack | 420 |
| 49709 | GE432MAX-L/ULTRA | 4 or 3- F32T8 120 to 277 "L" .77 BF | Instant Start | Low | Parallel | Standard | 10 |
| 47547 | GE432MAX-L-42T | 4 or 3- F32T8 120 to 277 "L" .77 BF Pallet Pack | Instant Start | Low | Parallel | Pallet Pack | 420 |
| 49774 | GE432MAX-N/ULTRA | 4 or 3- F32T8 120 to 277 "N" .87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 31054 | GE432MAX-N-42T | 4 or 3- F32T8 120 to 277 "N" .87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 420 |
| 23942 | GE432MAX-N-IP | 4 or 3- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton | Instant Start | Normal | Parallel | DIY | 4 |



| Product Code | Description | Application | Starting Method | Ballast Factor | Lamp Wiring | Package Type | Units Per Carton |
|--|------------------|--|------------------|----------------|-----------------|--------------|------------------|
| ULTRAMAX™ INSTANT START MULTI-VOLTAGE HIGH EFFICIENCY (CONTINUED) | | | | | | | |
| 49766 | GE159MAX-N/ULTRA | 1- F96T8 120 to 277 | Instant Start | Normal | Parallel | Standard | 10 |
| 49767 | GE259MAX-N/ULTRA | 2 or 1- F96T8 120 to 277 "N" .87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 23954 | GE259MAX-N-IP | 2 or 1- F96T8 120 to 277 "N" .87 BF I-Pack 4/carton | Instant Start | Normal | Parallel | DIY | 4 |
| ULTRASTART™ T8 PROGRAM START | | | | | | | |
| 29621 | GE-232-120-PS-N | 2 F32T8 120V Normal Light .87 BF<10% THD UltraStart | Programmed Start | Normal | Parallel | Standard | 10 |
| 29630 | GE-232-120PS-N-T | 2 F32T8 120V Normal Light .87 BF<10% THD UltraStart | Programmed Start | Normal | Parallel | Pallet Pack | 420 |
| 29622 | GE-232-277-PS-N | 2 F32T8 277V Normal Light .87 BF<10% THD | Programmed Start | Normal | Parallel | Standard | 10 |
| 29632 | GE-232-277PS-N-T | 2 F32T8 277V Normal Light .87 BF<10% THD UltraStart | Programmed Start | Normal | Parallel | Pallet Pack | 420 |
| 29675 | GE-232-MVPS-H | 2 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart | Programmed Start | High | Parallel | Standard | 10 |
| 29651 | GE-232-MV-PS-H-T | 2 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart | Programmed Start | High | Parallel | Pallet Pack | 420 |
| 29671 | GE-232-MVPS-XL | 2 F32T8 120V-277V Ultra Low Watt .60 BF<10% THD | Programmed Start | Ultra Low | Parallel | Standard | 10 |
| 29665 | GE-232-MVPS-XL-T | 2 F32T8 120V-277V Ultra Low Watt .60 BF<10% THD | Programmed Start | Ultra Low | Parallel | Pallet Pack | 420 |
| 29623 | GE-332-120-PS-N | 3 F32T8 120V Normal Light .87 BF<10% THD UltraStart | Programmed Start | Normal | Parallel | Standard | 10 |
| 29633 | GE-332-120PS-N-T | 3 F32T8 120V Normal Light .87 BF<10% THD UltraStart | Programmed Start | Normal | Parallel | Pallet Pack | 420 |
| 29624 | GE-332-277-PS-N | 3 F32T8 277V Normal Light .87 BF<10% THD UltraStart | Programmed Start | Normal | Parallel | Standard | 10 |
| 29634 | GE-332-277PS-N-T | 3 F32T8 277V Normal Light .87 BF<10% THD UltraStart | Programmed Start | Normal | Parallel | Pallet Pack | 420 |
| 29676 | GE-332-MVPS-H | 3 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart | Programmed Start | High | Parallel | Standard | 10 |
| 29656 | GE-332-MV-PS-H-T | 3 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart | Programmed Start | High | Parallel | Pallet Pack | 420 |
| 29672 | GE-332-MVPS-XL | 3 F32T8 120V-277V Ultra Low Watt .60 BF<10% THD | Programmed Start | Ultra Low | Parallel | Standard | 10 |
| 29666 | GE-332-MVPS-XL-T | 3 F32T8 120V-277V Extra Low Watt .60 BF<10% THD | Programmed Start | Ultra Low | Parallel | Pallet Pack | 420 |
| 29625 | GE-432-120-PS-N | 4 F32T8 120V Normal Light .87 BF<10% THD UltraStart | Programmed Start | Normal | Parallel | Standard | 10 |
| 29635 | GE-432-120PS-N-T | 4 F32T8 120V Normal Light .87 BF<10% THD UltraStart | Programmed Start | Normal | Parallel | Pallet Pack | 420 |
| 29627 | GE-432-277-PS-N | 4 F32T8 277V Normal Light .87 BF<10% THD UltraStart | Programmed Start | Normal | Parallel | Standard | 10 |
| 29650 | GE-432-277PS-N-T | 4 F32T8 277V Normal Light .87 BF<10% THD UltraStart | Programmed Start | Normal | Parallel | Pallet Pack | 420 |
| 29678 | GE-432-MVPS-H | 4 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart | Programmed Start | High | Parallel | Standard | 8 |
| 29657 | GE-432-MV-PS-H-T | 4 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart | Programmed Start | High | Parallel | Pallet Pack | 420 |
| RAPID START T12 HIGH OUTPUT | | | | | | | |
| 80162 | B295SR120HP | 2- F96T12HOES RS 120 | Rapid Start | Normal | Series | Standard | 6 |
| 80163 | B295SR277HP | 2- F96T12HOES RS 277 | Rapid Start | Normal | Series | Standard | 6 |
| ULTRASTART® T5 PROGRAM START | | | | | | | |
| 29726 | GE454MVPSN1 | 4 or 2- F54T5HO 120 to 277 UltraStart PRS | Programmed Start | Normal | Series-Parallel | Standard | 12 |
| 29717 | GE454MVPSN1-B | 4 or 2- F54T5HO 120 to 277 UltraStart PRS Pallet Pack | Programmed Start | Normal | Series-Parallel | Pallet Pack | 420 |



| Product Code | Description | Application | Starting Method | Ballast Factor | Lamp Wiring | Package Type | Units Per Carton |
|--|------------------|--|------------------|----------------|-------------|--------------|------------------|
| T5 PROGRAMMED START MULTI-VOLT 120V - 277V | | | | | | | |
| 47534 | B224PUNV-COG1C | 2- F24T5HO PRS UNV 50/60 Hz | Programmed Start | Normal | Series | Standard | 10 |
| 47536 | B228PUNV-COG1C | 2- F28T5 PRS UNV 50/60 Hz | Programmed Start | Normal | Series | Standard | 10 |
| 47540 | B239PUNV-DOG1C | 2- F39T5HO PRS UNV 50/60 Hz | Programmed Start | Normal | Series | Standard | 10 |
| 47542 | B254PUNV-DGE1C | 2- F54T5HO PRS UNV 50/60 Hz | Programmed Start | Normal | Series | Standard | 10 |
| PROLINE™ T8 INSTANT START | | | | | | | |
| 23680 | GE-132-120-N | 1 F32T8 120V "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 24161 | GE-132-120-N-84T | 1 F32T8 120V "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 840 |
| 23681 | GE-132-277-N | 1 F32T8 277V "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 24162 | GE-132-277-N-84T | 1 F32T8 277V "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 840 |
| 23671 | GE-232-120-N | 2 or 1- F32T8 120V "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 24163 | GE-232-120-N-84T | 2 or 1- F32T8 120V "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 840 |
| 23672 | GE-232-277-N | 2 or 1- F32T8 277V "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 24164 | GE-232-277-N-84T | 2 or 1- F32T8 277V "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 840 |
| 23673 | GE-332-120-N | 3 or 2- F32T8 120V "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 24165 | GE-332-120-N-84T | 3 or 2- F32T8 120V "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 840 |
| 23674 | GE-332-277-N | 3 or 2- F32T8 277V "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 24166 | GE-332-277-N-84T | 3 or 2- F32T8 277V "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 840 |
| 23675 | GE-432-120-N | 4 or 3- F32T8 120V "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 24167 | GE-432-120-N-84T | 4 or 3- F32T8 120V "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 840 |
| 23676 | GE-432-277-N | 4 or 3- F32T8 277V "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 24168 | GE-432-277-N-84T | 4 or 3- F32T8 277V "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 840 |
| 23677 | GE-259-120-N | 2 or 1 F96T8 120v Normal Light .87 BF<10%THD | Instant Start | Normal | Parallel | Standard | 10 |
| 24169 | GE-259-120-N-84T | 2 or 1- F96T8 120v "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 840 |
| 23678 | GE-259-277-N | 2 or 1- F96T8 277v "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 24170 | GE-259-277-N-84T | 2 or 1- F96T8 277v "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 840 |
| MULTI-VOLT PROLINE™ T8 INSTANT START 120-277V | | | | | | | |
| 30189 | GE-132-MV-N | 1- F32T8 120 to 277 "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 30268 | GE-132-MV-N-42T | 1- F32T8 120 to 277 "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 420 |
| 30198 | GE-232-MV-H2 or | 1- F32T8 120 to 277 "H" 1.15 BF | Instant Start | High | Parallel | Standard | 10 |
| 30275 | GE-232-MV-H-42T | 2 or 1- F32T8 120 to 277 "H" 1.15 BF Pallet Pack | Instant Start | High | Parallel | Pallet Pack | 420 |
| 30247 | GE-232-MV-L | 2 or 1- F32T8 120 to 277 "L".77 BF | Instant Start | Low | Parallel | Standard | 10 |
| 30191 | GE-232-MV-N | 2 or 1- F32T8 120 to 277 "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 30269 | GE-232-MV-N-42T | 2 or 1- F32T8 120 to 277 "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 420 |
| 30199 | GE-332-MV-H | 3 or 2- F32T8 120 to 277 "H" 1.15 BF | Instant Start | High | Parallel | Standard | 10 |
| 30296 | GE-332-MV-H-42T | 3 or 2- F32T8 120 to 277 "H" 1.15 BF Pallet Pack | Instant Start | High | Parallel | Pallet Pack | 420 |
| 30255 | GE-332-MV-L | 3 or 2- F32T8 120 to 277 | Instant Start | Low | Parallel | Standard | 10 |
| 30309 | GE-332-MV-L-42T | 3 or 2- F32T8 120 to 277 | Instant Start | Low | Parallel | Standard | 420 |
| 30192 | GE-332-MV-N | 3 or 2- F32T8 120 to 277 "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 30270 | GE-332-MV-N-42T | 3 or 2- F32T8 120 to 277 "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 420 |
| 30219 | GE-432-MV-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF | Instant Start | High | Parallel | Standard | 10 |
| 30303 | GE-432-MV-H-42T | 4 or 3- F32T8 120 to 277 "H" 1.15 BF Pallet Pack | Instant Start | High | Parallel | Pallet Pack | 420 |
| 30262 | GE-432-MV-L | 4 or 3- F32T8 120 to 277 | Instant Start | Low | Parallel | Standard | 10 |
| 30310 | GE-432-MV-L-42T | 4 or 3- F32T8 120 to 277 | Instant Start | Low | Parallel | Pallet Pack | 420 |
| 30193 | GE-432-MV-N | 4 or 3- F32T8 120 to 277 "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 30271 | GE-432-MV-N-42T | 4 or 3- F32T8 120 to 277 "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 420 |
| 30195 | GE-159-MV-N | 1- F96T8 120 to 277 "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 30274 | GE-159-MV-N-42T | 1- F96T8 120 to 277 "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 420 |
| 30194 | GE-259-MV-N | 2 or 1- F96T8 120 to 277 "N".87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 30272 | GE-259-MV-N-42T | 2 or 1- F96T8 120 to 277 "N".87 BF Pallet Pack | Instant Start | Normal | Parallel | Pallet Pack | 420 |



| Product Code | Description | Application | Starting Method | Ballast Factor | Lamp Wiring | Package Type | Units Per Carton |
|--|----------------------|---|------------------|----------------|-------------|-----------------|------------------|
| MULTI-VOLT PROLINE™ T8 INSTANT START 120-277V (CONTINUED) | | | | | | | |
| 30176 | GE-286-HO-MV-N | 2 or 1- F96T8HO IS 120 to 277 "N" .87 BF | Instant Start | Normal | Parallel | Standard | 10 |
| 30187 | GE-286-HO-MV-N-P | 2 or 1- F96T8HO IS 120 to 277 "N" .87 BF | Instant Start | Normal | Parallel | Pallet Pack | 420 |
| MULTI-VOLT PROLINE™ T12 ELECTRONIC T12 120-277V | | | | | | | |
| 24107 | GE-240-RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF | Rapid Start | Normal | Parallel | Standard | 10 |
| 24773 | GE-240RS-MV-N-DIY | 2 or 1- F40 or F34T12 RS 120 to 277 I-Pack 4/carton | Rapid Start | Normal | Parallel | DIY | 4 |
| 24109 | GE-340-RS-MV-N | 3 or 2- F40 or F34T12 Rapid Start 120 to 277 | Rapid Start | Normal | Parallel | Standard | 10 |
| 24774 | GE-340RS-MV-N-DIY | 3 or 2- F40 or F34T12 RS 120 to 277 I-Pack 4/carton | Rapid Start | Normal | Parallel | DIY | 4 |
| 24776 | GE-260IS-MV-N-DIY | 2 or 1- F96T12 IS 120 to 277; I-Pack 4/carton | Instant Start | Normal | Parallel | DIY | 4 |
| 24108 | GE-260-IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 | — | High | Parallel | Standard | 6 |
| OTHER INSTANT START | | | | | | | |
| 80148 | B259I120RHH | 2 F96T8 IS 120 60 HBEX | Instant Start | High | Parallel | Standard | 6 |
| 80149 | B259I277RHH | 2 F96T8 IS 277 60 HBCX | Instant Start | High | Parallel | Standard | 6 |
| 80136 | B332I347HP | 3- F32T8 IS 347 60Hz <10% THD "N" BF | Instant Start | Normal | Parallel | Standard | 10 |
| 80277 | B332I347HPL | 3- F32T8 IS 347 <10% THD "L" BF | Instant Start | Low | Parallel | Standard | 10 |
| T8 DIMMING | | | | | | | |
| 80353 | B132R120V5 | 1- F32T8 DIM 100 to 5% RS 120 | Rapid Start | Normal | Series | Standard | 10 |
| 80355 | B232SR120V5 | 2- F32T8 DIM 100 to 5% RS 120 | Rapid Start | Normal | Series | Standard | 10 |
| 80362 | B232SR277S50 | 2- F32T8 Switch 100 / 50% RS 277 | Rapid Start | Normal | Series | Standard | 10 |
| 80356 | B232SR277V5 | 2- F32T8 DIM 100 to 5% RS 277 | Rapid Start | Normal | Series | Standard | 10 |
| 80357 | B332SR120V5 | 3- F32T8 DIM 100 to 5% RS 120 | Rapid Start | Normal | Series | Standard | 10 |
| 80358 | B332SR277V5 | 3- F32T8 DIM 100 to 5% RS 277 | Rapid Start | Normal | Series | Standard | 10 |
| MAGNETIC T12, T8, CIRCLELINE® BALLASTS | | | | | | | |
| 89711 | GEM120-PH-120-DIY | 1- F20T12 F15T8 F1512 120V Magnetic Ballast(200H2) | Preheat | Normal | Series | DIY | 10 |
| 89712 | GEM120-TC-120-DIY | 1- F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (546BTCP) | Trigger Start | Normal | Series | DIY | 4 |
| 89714 | GEM140-HRS-120-DIY | 1- F40T12 F40T12 120V Magnetic Ballast (412LSLHTCP) | Rapid Start | Normal | Series | DIY | 4 |
| 89709 | GEM140-RS-120-DIY | 1- F40T12 F30T12 F48/25W 120V Magnetic Ballast (413CTCP) | Rapid Start | Normal | Series | DIY | 4 |
| 86158 | GEM140-RS-277-IP | 2- F40T12, F40T10, 120V, Magnetic Ballast, (446LSLHTCP) | Rapid Start | Normal | Series | Individual Pack | 10 |
| 89719 | GEM196-IS-120-DIY | 1- F96T12 120V Magnetic Ballast (822BRTCP) | Instant Start | Normal | Series | DIY | 4 |
| 86372 | GEM196-IS-120-IP | 1- F96T12 IS 120 Magnetic Ballast (822BRTCP) | Instant Start | Normal | Series | Individual Pack | 6 |
| 86381 | GEM196-IS-277 | 1- F96T12 IS 277 Magnetic Ballast (828BRTCP) | Instant Start | Normal | Series | Individual Pack | 6 |
| 86231 | GEM1F4T5-PH-120 | 1- F20T12, F15T8, F15T12, F14T12, 120V, Magnetic (546BTCP) | Preheat | Normal | Series | Individual Pack | 20 |
| 89720 | GEM1FC16T9-RS-120 | 2- FC12T9 FC16T9 FC8T9 FC12T9 120V Magnetic (726VLHWSTCP) | Rapid Start | Normal | Series | DIY | 4 |
| 86132 | GEM1FC16T9-RS-120-IP | 1- F96T12, IS, 277V, Magnetic Ballast (828BRTCP) | Rapid Start | Normal | Series | Individual Pack | 10 |
| 89722 | GEM1FC8T9-RS-120-DIY | 1- FC8T9 RS 120V Magnetic Ballast (547RSWSTCP) | Rapid Start | Normal | Series | DIY | 4 |
| 86227 | GEM1FC8T9-RS-120-IP | 1- FC8T9 RS 120V Magnetic Ballast (547RSWSTCP) | Rapid Start | Normal | Series | Individual Pack | 10 |
| 89717 | GEM1FC12T9-RS-120 | 2 FC12T9 RS 120V Magnetic Ballast (449LRWSTCP) | Rapid Start | Normal | Series | Standard | 4 |
| 80819 | GEM220-TS-120-DIY | 2- F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (447LRVLTCP) | Trigger Start | Normal | Series | DIY | 4 |
| 80644 | GEM230-RS-120 | 2- F30T12 120V Magnetic Ballast (573LTCP) | Rapid Start | Normal | Series | DIY | 4 |
| 87125 | GEM232T8-RS-120 | 2- F32T8 RS 120V Magnetic Ballast (M232SR120C) | Rapid Start | Normal | Series | Individual Pack | 10 |
| 87130 | GEM232T8-RS-277 | 2- F32T8 RS 277V Magnetic Ballast (M232SR277C) | Rapid Start | Normal | Series | Individual Pack | 10 |
| 89710 | GEM240-HRS-120-DIY | 2- F40T12 F40T12 120V Magnetic Ballast (420LTCP) | Mod. Rapid Start | Normal | Series | DIY | 4 |



| Product Code | Description | Application | Starting Method | Ballast Factor | Lamp Wiring | Package Type | Units Per Carton |
|---|---------------------|--|-------------------|----------------|-------------|-----------------|------------------|
| MAGNETIC T12, T8, CIRCLELINE® BALLASTS (CONTINUED) | | | | | | | |
| 86206 | GEM240-IS-277-IP | 2- F40T12 F40T10 IS 277V Magnetic Ballast (532BRTCP) | Instant Start | Normal | Series | Individual Pack | 6 |
| 89707 | GEM240-RS-120-DIY | 2- F40T12 F40T10 120V Magnetic Ballast (446LSLHTCP) | Rapid Start | Normal | Series | Pallet Pack | 72 |
| 46958 | GEM240-RS-120-DIY | 2 F40T12 F40T10 120V Magnetic Ballast | Rapid Start | Normal | Series | DIY | 6 |
| 86139 | GEM240-RS-120-IP | 2- F40T12 RS 120V Magnetic Ballast (446LSLHTCP) | Rapid Start | Normal | Series | Individual Pack | 10 |
| 89713 | GEM240-RS-277-DIY | 2- F40T12 F40T10 277V Magnetic Ballast (443LSLHTCP) | Rapid Start | Normal | Series | DIY | 4 |
| 86124 | GEM240-RS-277-IP | 2- F40T12 RS 277V Magnetic Ballast (443LSLHTCP) | Rapid Start | Normal | Series | Individual Pack | 10 |
| 86341 | GEM240-RS-220 | 2- F40T12 F40T10 220V Magnetic Ballast (754LTCP) | Rapid Start | Normal | Series | Standard | 10 |
| 86176 | GEM272HO-RS-120 | 2- F72T12HO RS 120V Magnetic Ballast (490XLHTCP) | Rapid Start | Normal | Series | Individual Pack | 4 |
| 89718 | GEM296HO-RS-120-DIY | 2- F96T12HO F72T12HO 120V Magnetic Ballast (480SLHTCP) | Rapid Start | Normal | Series | DIY | 2 |
| 86164 | GEM296HO-RS-120-IP | 2- F96T12HO F72T12HO RS 120V Magnetic Ballast (480SLHTCP) | Rapid Start | Normal | Series | DIY | 4 |
| 86171 | GEM296HO-RS-2772 | F96T12 HO RS 277V Magnetic Ballast (487SLHTCP) | Rapid Start | Normal | Series | Individual Pack | 4 |
| 89708 | GEM296-IS-120-DIY2 | F96T12 IS 120V Magnetic Ballast (806SLHTCP) | Instant Start | Normal | Series | Pallet Pack | 48 |
| 46965 | GEM296-IS-120-DIY2 | F96T12 IS 120V Magnetic Ballast 60 HBCB | Instant Start | Normal | Series | DIY | 4 |
| 86360 | GEM296-IS-120-IP2 | F96T12 IS 120V Magnetic Ballast (806SLHTCP) | Instant Start | Normal | Series | Individual Pack | 6 |
| 89715 | GEM296-IS-277-DIY2 | F96T12 IS 277V Magnetic Ballast (827SLHTCP) | Instant Start | Normal | Series | DIY | 4 |
| 86379 | GEM296-IS-277-IP2 | F96T12 IS 277V Magnetic Ballast (827SLHTCP) | Instant Start | Normal | Series | Individual Pack | 6 |
| MAGNETIC T12 SIGN BALLASTS | | | | | | | |
| 88921 | USB-0412-12-IP | 04 to 12 foot 1 to 2 lamps | Rapid Start | Normal | Series | Individual Pack | 4 |
| 88931 | USB-0816-14-IP | 08 to 16 feet 1 to 4 lamps | Rapid Start | Normal | Series | Individual Pack | 4 |
| 88934 | USB-1632-24-IP | 16 to 32 feet 2 to 4 lamps | Rapid Start | Normal | Series | Individual Pack | 2 |
| 88936 | USB-1024-14-IP | 10 to 24 feet 1 to 4 lamps | Rapid Start | Normal | Series | Individual Pack | 2 |
| 88939 | USB-2036-46-IP | 20 to 36 feet 4 to 6 lamps | Rapid Start | Normal | Series | Individual Pack | 2 |
| 88940 | USB-2048-46-IP | 20 to 48 feet 4 to 6 lamps | Rapid Start | Normal | Series | Individual Pack | 2 |
| MAGNETIC T12 SIGN MAX-3 SERIES BALLASTS | | | | | | | |
| 88918 | USB-0218-16-IP | Max 3 02 to 18 feet 1 to 6 lamps | Rapid Start | Normal | Series | Individual Pack | 2 |
| 88919 | USB-1048-16-IP | Max 3 10 to 48 feet 1 to 6 lamps | Rapid Start | Normal | Series | Individual Pack | 2 |
| 88920 | USB-1232-16-IP | Max 3 12 to 32 feet 1 to 6 lamps | Rapid Start | Normal | Series | Individual Pack | 2 |
| MAGNETIC BALLASTS FOR COMPACT FLUORESCENT LAMPS | | | | | | | |
| 87533 | GEM1CF13-PH-120 | 1- CFT/Q13W/GX23 Pre Heat 120 (4111H2P) | Preheat | Normal | Series | Standard | 20 |
| 87623 | GEM2FT36-RS-120 | 2- FT36W/2G11 RS 120 (4150P) | Rapid Start | Normal | Series | Standard | 10 |
| 87625 | GEM2FT40-RS-120 | 2- FT40W/2G11RS RS 120 (4152P) | Rapid Start | Normal | Series | Standard | 10 |
| 87634 | GEM1CF579-PH-277 | 1- CFT579Q9W/G23 Pre Heat 277 (4205F2P) | Preheat | Normal | Series | Standard | 20 |
| 87655 | GEM2CF13-PH-277 | 2- CFT/Q13W/GX23 Pre Heat 277 (4214PBES) | Preheat | Normal | Series | Standard | 10 |
| 87700 | GEM2CF24-PH-277 | 2- CFQ26W/G24d Pre Heat 277 (4226PBES) | Preheat | Normal | Parallel | Standard | 10 |
| ELECTRONIC BALLASTS FOR COMPACT FLUORESCENT LAMPS | | | | | | | |
| 80669 | C213UNVBE-IP | 2 or 1- CFQ13W/G24q PS UNV Bottom Exit | Prog. Rapid Start | Normal | Series | Individual Pack | 10 |
| 80671 | C213UNVBES-IP | 2 or 1- CFQ13W/G24q PS UNV Bottom Exit w/ Studs | Prog. Rapid Start | Normal | Series | Individual Pack | 10 |
| 80673 | C213UNVSE-IP | 2 or 1- CFQ13W/G24q PS UNV Side Exit (most common) | Prog. Rapid Start | Normal | Series | Individual Pack | 10 |
| 80675 | C218UNVBEIP | 2 or 1- CFQ18W/G24q PS UNV Bottom Exit | Prog. Rapid Start | Normal | Series | Individual Pack | 10 |
| 80677 | C218UNVBES-IP | 2 or 1- CFQ18W/G24q PS UNV Bottom Exit w/ Studs | Prog. Rapid Start | Normal | Series | Individual Pack | 10 |
| 80679 | C218UNVSE-IP | 2 or 1- CFQ18W/G24q PS UNV Side Exit (most common) | Prog. Rapid Start | Normal | Series | Individual Pack | 10 |
| 80683 | C240PUNVHP-B-IP | 2 or 1- FT40W/2G11 PS UNV | Prog. Rapid Start | Normal | Series | Individual Pack | 10 |
| 80680 | C240SI120RH-IP | 2- FT40W/2G11 IS 120 | Instant Start | Normal | Series | Individual Pack | 10 |
| 80681 | C240SI277RH-IP | 2- FT40W/2G11- IS 277 | Instant Start | Normal | Series | Individual Pack | 10 |



| Product Code | Description | Application | Starting Method | Ballast Factor | Lamp Wiring | Package Type | Units Per Carton |
|--|------------------|---|------------------------|----------------|--------------------|-----------------|------------------|
| ELECTRONIC BALLASTS FOR COMPACT FLUORESCENT LAMPS (CONTINUED) | | | | | | | |
| 47506 | C242UNVBES-IP | 2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/ Studs | Prog. Rapid Start | Normal | Series | Individual Pack | 10 |
| 47509 | C242UNVSE-IP | 2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Side Exit | Prog. Rapid Start | Normal | Series | Individual Pack | 10 |
| 80685 | C2642UNVBE-IP | 2 or 1- CF 26 42w PS UNV | Prog. Rapid Start | Normal | Series | Individual Pack | 10 |
| 80687 | C2642UNVBES-IP | 2 or 1- CF 26 42w PS UNV | Prog. Rapid Start | Normal | Series | Individual Pack | 10 |
| 80689 | C2642UNVSE-IP | 1/2 CF 26 42W PS UNV 60 HBXX | Prog. Rapid Start | Normal | Series | Individual Pack | 10 |
| 80690 | C340SI120RH-IP | 3- FT40W/2G11 IS 120 | Instant Start | Normal | Series | Individual Pack | 10 |
| 80691 | C340SI277RH-IP | 3- FT40W/2G11 IS 277 | Instant Start | Normal | Series | Individual Pack | 10 |
| ELECTRONIC HID | | | | | | | |
| 29377 | GE-MH-250-400-MA | 1- 250 to 400w UltraMax HID Electronic 208-277 50-60Hz | M155, M154, M153, M131 | Electronic | | Standard Pack | 1 |
| Product Code | Description | Application* | ANSI Lamp/ Ballast | Circuit Type | Frame Size (H x L) | Package Type | Units Per Carton |
| DISTRIBUTOR REPLACEMENT BALLAST KITS - METAL HALIDE | | | | | | | |
| 86824 | M50MLTLC3M500K | 1- 50w MH M110 or M148 Quad | M110 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 86847 | M70MLTLC3M500K | 1- 70w MH M 98 or M143 Quad | M98 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 86839 | M7048TLC3M500K | 1- 70w MH M 98 or M143 480 | M98 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 86675 | M100MLTLC3M500K | 1- 100w MH M 90 or M140 Quad | M90, M92, M140 | HX-HPF | 4.25x5.75 | Distributor Kit | 6 |
| 86667 | M10048TLC3M500K | 1- 100w MH M 90 or M140 480 | M90, M92, M140 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 86718 | M150MLTLC3M500K | 1- 150w MH M102 or M142 Quad | M102, M142 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 86711 | M15048TLC3M500K | 1- 150w MH M102 or M142 480 | M102, M142, M107 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 86741 | M175MLTAC3M500K | 1- 175w MH M 57 or H 39 Quad | M57, H39, M107 | CWA | 3x4 | Distributor Kit | 6 |
| 87210 | M175ML5AC3M500K | 1- 175w MH M 57 or H 39 Multi-5 for all voltages | M57, H39, M109 | CWA | 3x4 | Distributor Kit | 6 |
| 86765 | M250MLTAC3M500K | 1- 250w MH M 58 or H 37 Quad | M58, H37 | CWA | 3x4 | Distributor Kit | 6 |
| 87211 | M250ML5AC3M500K | 1- 250w MH M 58 or H 37 Multi-5 small standard frame | M58, H37 | CWA | 3x4 | Distributor Kit | 6 |
| 49763 | M250ML5AC3M555K | 1- 250w MH M 58 or H 37 Multi-5 with Lamp (555K) | M58, H37 | CWA | 3x4 | Distributor Kit | 1 |
| 87212 | M250ML5AC4M500K | 1- 250w MH M 58 or H 37 Multi-5 large frame | M59, H33 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 49742 | M250ML5AC4M555K | 1- 250w MH M 58 or H 37 Multi-5 with Lamp (555K) | M59, H33 | CWA | 4.25x4.75 | Distributor Kit | 1 |
| 86814 | M400MLTAC4M500K | 1- 400w MH M 59 or H 33 Quad | M59, H33 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 86803 | M40048TAC4M500K | 1- 400w MH M 59 or H 33 480 | M59, H33 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 86808 | M400ML5AC4M500K | 1- 400w MH M 59 or H 33 Multi-5 for all voltages | M58, H37 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 49745 | M400ML5AC4M555K | 1- 400w MH M 59 or H 33 Multi-5 with Lamp (555K) | M58, H37 | CWA | 4.25x4.75 | Distributor Kit | 1 |
| 86650 | M100048TAC5M500K | 1- 1000w MH M 47 or H 36 480 | M47, H36 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| 86655 | M1000MLTAC5M500K | 1- 1000w MH M 47 or H 36 Quad | M47, H36 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| 87213 | M1000ML5AC5M500K | 1- 1000w MH M 47 or H 36 Multi-5 for all voltages | M47, H36 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| 86698 | M1500MLTAC5M500K | 1- 1500w MH M 48 Quad | M48 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| 86693 | M150048TAC5M500K | 1- 1500w MH M 48 480 | M48 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| DISTRIBUTOR REPLACEMENT BALLAST KITS - PULSE START METAL HALIDE | | | | | | | |
| 86876 | P17548TAC3M500K | 1- 175w PS M137 or M152 480 | M152, M137 | CWA | 3x4 | Distributor Kit | 6 |
| 86885 | P175MLTAC3M500K | 1- 175w PS M137 or M 152 Quad | M153, M 137 | CWA | 3x4 | Distributor Kit | 6 |
| 86926 | P25048TAC4M500K | 1- 250w PS M138 or M153 480 | M153, M138 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 86935 | P250MLTAC4M500K | 1- 250w PS M138 or M153 Quad | M153, M138 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 86952 | P32048TAC4M500K | 1- 320w PS M132 or M154 480 | M154, M132 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 86968 | P320TRIAC4M502K | 1- 320w PS M132 or M154 TRI-Voltage 120 277 347 | M154, M132 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 86959 | P320MLTAC4M500K | 1- 320w PS M132 or 154 Quad | M154, M132 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 86984 | P350MLTAC4M500K | 1- 350w PS M131 Quad | M131 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 42692 | P350277RCEM500K | 1- 350w PS M131 277 Reactor | M131 | RX-NPF | 3.75x4.5 | Distributor Kit | 3 |
| 86999 | P40048TAC4M500K | 1- 400w PS M135 now M155 480 | M155, M135 | CWA | 4.25x4.75 | Distributor Kit | 3 |



| Product Code | Description | Application* | ANSI Lamp/Ballast | Circuit Type | Frame Size (H x L) | Package Type | Units Per Carton |
|--|------------------|---|-------------------|--------------|--------------------|-----------------|------------------|
| DISTRIBUTOR REPLACEMENT BALLAST KITS - PULSE START METAL HALIDE (CONTINUED) | | | | | | | |
| 87008 | P400MLTAC4M500K | 1- 400w PS M135 or M155 Quad | M155,M135 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 46934 | P750MLTAC5M500K | 1-750w PS M149 Quad | M149 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| 46936 | P75048TAC5M500K | 1-750w PS M149 480 | M149 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| DISTRIBUTOR REPLACEMENT BALLAST KITS - HIGH PRESSURE SODIUM | | | | | | | |
| 87152 | S50MLTLC3M500K | 1- 50w S68 Quad | S68 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 86587 | S70MLTLC3M500K | 1- 70w S62 Quad | S62 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 86456 | S7048TLC3M500K | 1- 70w S62 480 | S62 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 87074 | S100MLTLC3M500K | 1- 100w S54 Quad | S54 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 87068 | S10048TLC3M500K | 1- 100w S54 480 | S54 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 87094 | S150MLTLC3M500K | 1- 150w S55 Quad | S55 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 87087 | S15048TLC3M500K | 1- 150w S55 480 | S55 | HX-HPF | 3x4 | Distributor Kit | 6 |
| 87214 | S250ML5AC4M500K | 1- 250w S50 Multi-5 for all voltages | S50 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 49757 | S250ML5AC4M555K | 1- 250w S50 Multi-5 with Lamp (555K) | S50 | CWA | 4.25x4.75 | Distributor Kit | 1 |
| 87121 | S250MLTAC4M500K | 1- 250w S50 Quad | S50 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 87164 | S400MLTAC4M500K | 1- 400w S51 Quad smaller standard frame | S51 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 87175 | S400MLTAC5M500K | 1- 400w S51 Quad | S51 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| 87217 | S400ML5AC5M500K | 1- 400w S51 Multi-5 for all voltages | S51 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| 49758 | S400ML5AC4M555K | 1- 400w S51 Multi-5 with lamp (555K) | S52 | CWA | 4.25x4.75 | Distributor Kit | 1 |
| 87215 | S400ML5AC4M500K | 1- 400w S51 Multi-5 in smaller standard frame | S51 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 87198 | S40048TAC4M500K | 1- 400w S51 480 in smaller frame | S51 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| 87206 | S40048TAC5M500K | 1- 400w S51 480 | S51 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| 87056 | S1000MLTAC5M500K | 1- 1000w S52 Quad | S52 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| 87048 | S100048TAC5M500K | 1- 1000w S52 480 | S52 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| 87218 | S1000ML5AC5M500K | 1- 1000w S52 Multi-5 for all voltages | S52 | CWA | 4.25x5.75 | Distributor Kit | 2 |
| DISTRIBUTOR REPLACEMENT BALLAST KITS - MERCURY | | | | | | | |
| 86519 | H100MLTAC3M500K | 1- 100w H36 Quad | H38, H44 | CWA | 3x4 | Distributor Kit | 6 |
| 86527 | H175MLTAC3M500K | 1- 175w H39 Quad | H39 | CWA | 3x4 | Distributor Kit | 6 |
| 86542 | H400MLTAC4M500K | 1- 400w H39 Quad | H33 | CWA | 4.25x4.75 | Distributor Kit | 3 |
| METAL HALIDE | | | | | | | |
| 86576 | 11210277CTC000C | 1- 70w M85 120/277 Enclosed & Potted | M85 | HX-HPF | 0 | Standard | 4 |
| 86578 | 11210506CTC000C | 1- 70w M98 120/277 Enclosed & Potted | M98 | HX-HPF | 0 | Standard | 4 |
| 86574 | 11210239CTC000I | 1- 100w M90 120/277 Enclosed & Potted | M90 | HX-HPF | 0 | Standard | 4 |
| 86563 | 1110245SCTC000I | 1- 175w M57 120/277 Enclosed & Potted | M57, H39 | CWA | 0 | Standard | 2 |
| 86564 | 1110246CTC000C | 1- 250w M58 120/277 Enclosed & Potted | M58, H37 | CWA | 0 | Standard | 2 |
| 42670 | 1110-247SC-TC | 1- 400w M59 120/277 Enclosed & Potted F-can | M59, H33 | CWA | 0 | Standard | 2 |
| 80728 | 1111-247SCTC000I | 1- 400w M59 120/277 Enclosed & Potted | M59, H33 | CWA | 0 | Standard | 4 |
| HIGH PRESSURE SODIUM | | | | | | | |
| 86605 | 1233142U000I | 1- 70w S62 120 Reactor-NPF | S62 | R-NPF | 0 | Standard | 6 |
| 86596 | 12210237CTC000I | 1- 70w S62 120/277 E & P F-can built-in starter | S62 | HX-HPF | 0 | Standard | 4 |
| 86606 | 1233154U000I | 1- 150w S55 120 Reactor-NPF | S55 | R-NPF | 0 | Standard | 6 |

*Quad = 120V, 208V, 240V, 277V
Multi 5 = 120V, 208V, 240V, 277V, 480V



PLUG-IN LAMPS

| | |
|-------------------------------|-----|
| 2-Pin Low Wattage Biax® | 5-7 |
| 4-Pin High Lumen Biax® | 5-7 |
| 2-Pin Double Biax® | 5-8 |
| 4-Pin Double Biax® | 5-8 |
| 4-Pin Triple Biax® | 5-8 |
| 4-Pin High Output Biax® | 5-9 |
| 4-Pin 2D® | 5-9 |

SELF-BALLASTED LAMPS

| | |
|-------------------------|------|
| Spiral® | 5-10 |
| Biax® | 5-11 |
| Reflectors | 5-11 |
| Genura® | 5-12 |
| Decorative Shapes | 5-12 |

LAMPS AND ADAPTERS

| | |
|----------------------|------|
| Circlite® | 5-13 |
| 2D®-Electronic | 5-13 |

BRIGHT STIK® LIGHTING UNITS 5-13

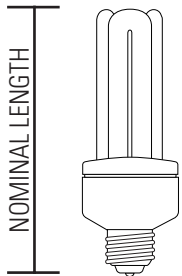
CROSS REFERENCE..... 5-16

GE ENHANCED PLUG-IN PRODUCT CONVERSION 5-18



Compact Fluorescent Lamps

BULB IDENTIFICATION



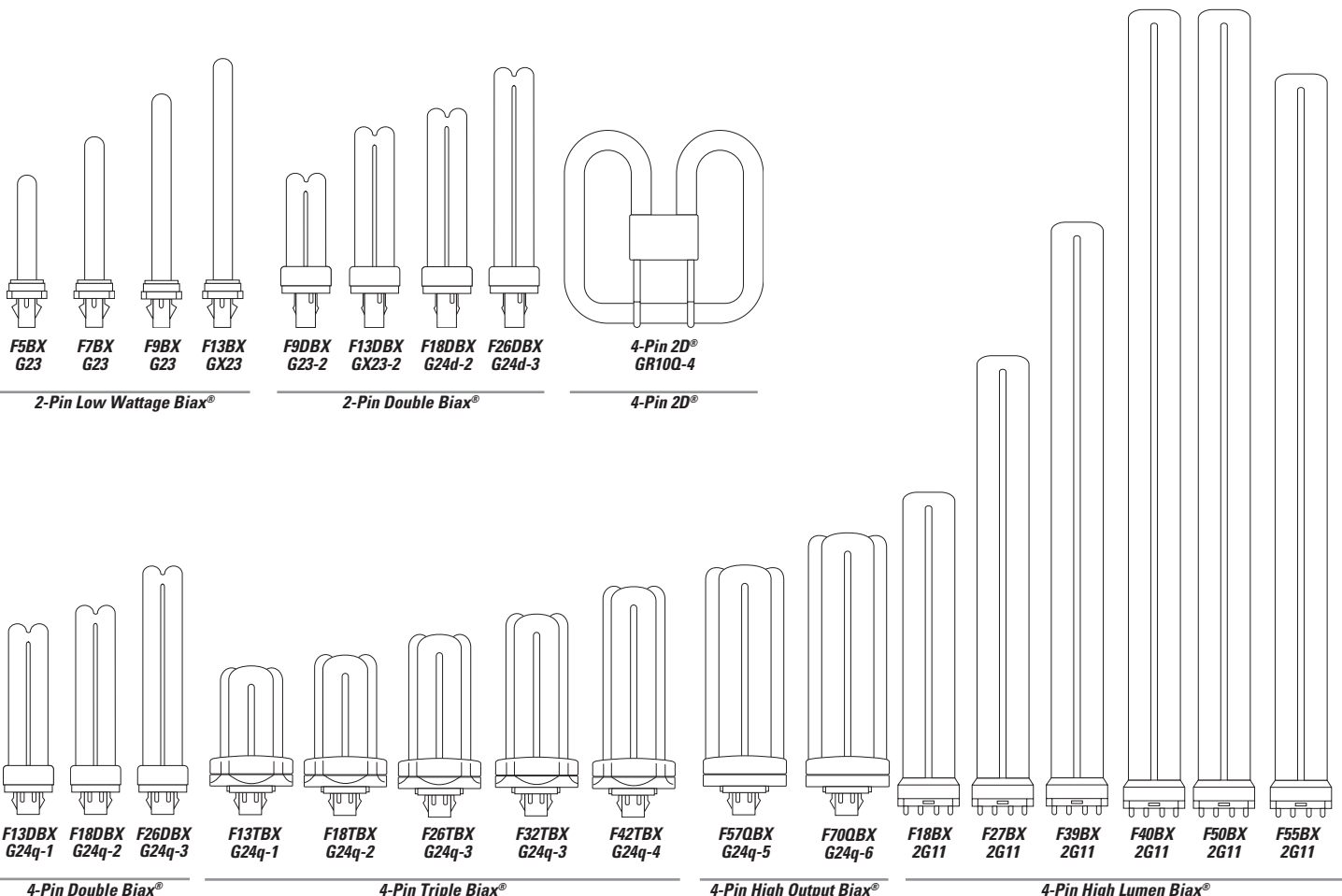
NOMINAL LENGTH:

Overall length including base or pins.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

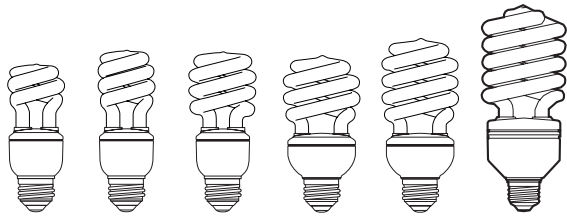
LAMP LOCATOR



Plug-in Lamps

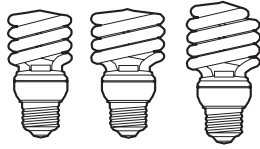


Compact Fluorescent Lamps



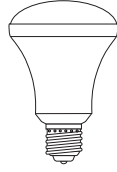
FLE10HT3 Med FLE13HT3 Med FLE15HT3 Med FLE20HT3 Med FLE26HT3 Med FLE42HLX Med

Spiral®



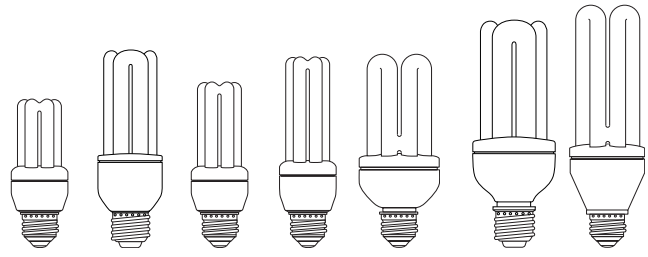
FLE10HT2 Med FLE13HT2 Med FLE15HT2 Med

Spiral®



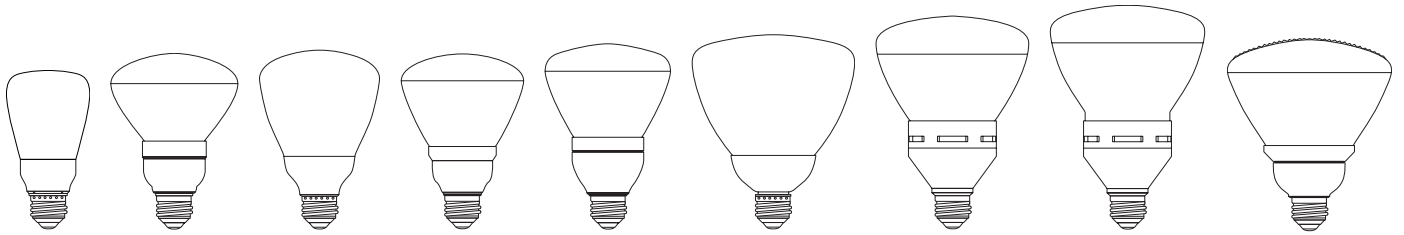
EL23 Med

Genura®



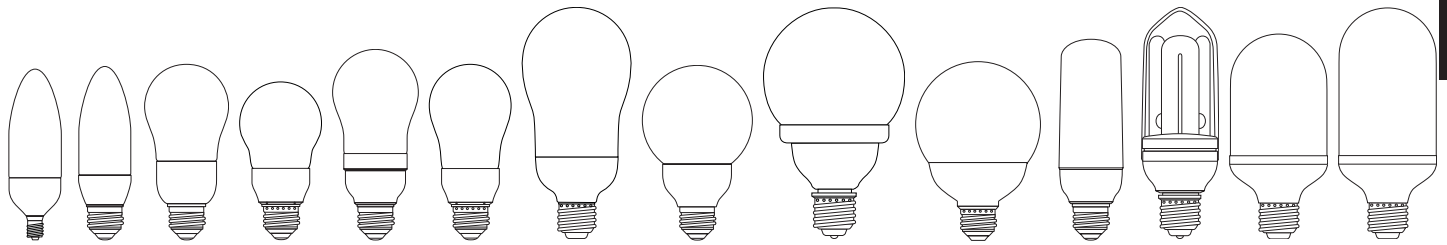
FLE12TT3 Med FLE14TT3 Med FLE15TT3 Med FLE20TT3 Med FLE24QBx Med FLE28QBx Med FLE29QBx Med

Biax®



FLE11/R20 Med FLE11/R30 Med FLE15/A2/R30 Med FLE15/R30 Med FLE15/R30 Dimming Med FLE23/A4/R40 Med FLE26/R40 Med FLE26/R40 Dimming Med FLE26/PAR38 Med

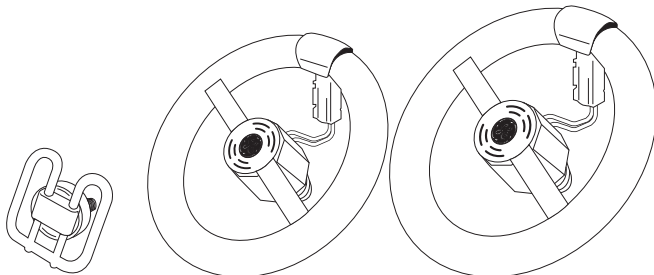
Reflectors



Candle E12 Candle Med FLE11/A-Line Med FLE12/A-Line Med FLE14/A-Line Med FLE15/A-Line Med FLE20/A-Line Med FLE9/Globe Med FLE15TBX/Globe Med FLE15/A3/Globe Med FLE11/Post Light Med FLE15/Post Light Med FLE15TBX/Bullet Med FLE20TBX/Bullet Med

Decorative Shapes

Self-Ballasted Lamps



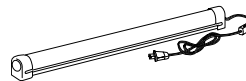
FEA 2D Med

FCA21 Med

FEA30 Med

2D®-Electronic

Circlite®



FBS25

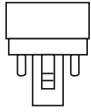
Lamps and Adapters

Bright Stik®

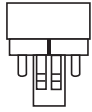


Compact Fluorescent Lamps

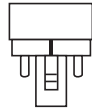
BASE IDENTIFICATION



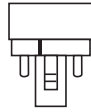
G23-2
(DBX2P)



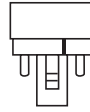
GX23-2
(DBX2P)



G24d-1
(DBX2P)



G24d-2
(DBX2P)



G24d-3
(DBX2P)



G23
(LWBX)



GX23
(LWBX)



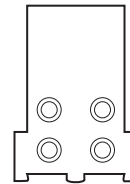
G24q-1
(DBX4P)



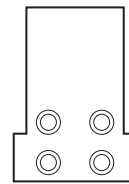
G24q-2
(DBX4P)



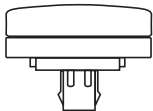
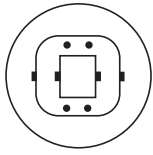
G24q-3
(DBX4P)



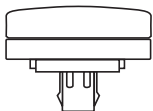
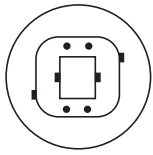
GRY10q-3
(2D4P)



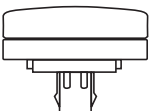
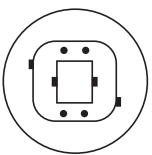
GR10q-4
(2D4P)



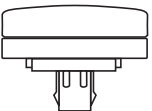
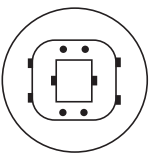
GX24q-1
(TBX4P)



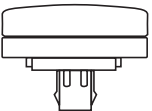
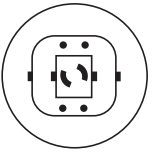
GX24q-2
(TBX4P)



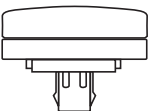
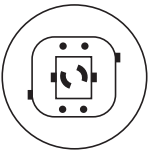
GX24q-3
(TBX4P)



GX24q-4
(TBX4P)



GX24q-5
(QBX4P)



GX24q-6
(QBX4P)



2G11-4
(HLBX)



E26
Med Screw



E12
Candelabra

INTRODUCTION

GE Compact Fluorescent Lamps offer many advantages:

- Dramatic energy cost savings... up to 77% vs. incandescent lamps of comparable light output
- Extra long life... most last 8 to 10 times longer, and some last up to 20 times longer, than standard incandescent lamps
- High light output comparable, and in some cases exceeding, incandescent lamps replaced
- Excellent color rendering... rare earth tri-phosphor provides such high quality color you won't believe it's fluorescent. Most types offer a choice of color options, from warm to cool, to let you select the tone and atmosphere you need.
- A choice of wattages, shapes and sizes to meet your lighting needs. Designed to fit everything from table lamps to wall sconces and ceiling fixtures.
- Many lamps use amalgam technology which provides stable lumen performance when operated in any position, over a wider range of ambient temperatures.

COMPACT FLUORESCENT BRAND NAME CROSS-REFERENCE

| GE | OSRAM/SYLVANIA | PHILIPS |
|-------------------|-----------------|----------|
| 2D® | - | - |
| Biax® | Dulux® S | PL-S |
| High Lumen Biax® | Dulux® L | PL-L |
| Double Biax® | Dulux® D, D/E | PL-C |
| Triple Biax® | Dulux® T/E | PL-T |
| Quad Biax® | - | - |
| High Output Biax® | - | PL-H |
| Spiral® | Dulux® EL Twist | EL Twist |
| Genura® | Dura-One | - |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturer's performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.



PRODUCT INFORMATION

PLUG-IN LAMPS

2-Pin Low Wattage Biax® (pg 5-7)

- Compact size offers fixture and design flexibility
- GX23 and G23 bases are preheat lamps with internal starters
- 13 watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm and cool color temperatures
- TCLP Compliant

4-Pin High Lumen Biax® (pgs 5-7 to 5-8)

- Available in a range of sizes and wattages for innovative compact luminaires
- High efficiency and outstanding performance in fixtures make them ideal for 2X2, 1X1 and indirect fixtures
- Available in warm to cool color temperatures; excellent color rendering

2-Pin Double Biax® (pg 5-8)

- More compact than low wattage Biax® CFLs with higher lumen output - suitable for a broad range of applications
- Preheat lamps with starters; not suitable for use with dimming ballasts
- 26 watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin Double Biax® (pg 5-8)

- More compact than low wattage Biax® CFLs with higher lumen output - suitable for a broad range of applications
- Dimmable and compatible with electronic ballasts
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin Triple Biax® (pgs 5-8 to 5-9)

- GE's shortest, most compact Biax® lamp. 17-31% shorter than similar wattage Double Biax® lamps.
- 4-Pin, dimmable and compatible with electronic ballasts
- Available in a wide range of wattages: from 13 to 42 watts
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin High Output Biax® (pg 5-9)

- GE's highest light output compact fluorescent lamps
- High efficacy 72-75 LPW
- Dimmable, available in 5 colors (2,700 to 5,000K)
- Suitable for high-bay lighting
- TCLP Compliant

4-Pin 2D® (pgs 5-9)

- Unique shape suitable for broad range of applications
- Uniform light distribution
- High light output - up to 200W incandescent equivalent

SELF-BALLASTED LAMPS

Spiral® (pgs 5-10 to 5-11)

- Long life - up to 12,000 hours
- One piece unit screws directly into incandescent sockets
- Wide variety of wattages to meet application needs
- T2 & T3 Spiral® CFLs provide economical solution with small overall size
- The 42-watt T4 Spiral® CFL provides a 150W incandescent replacement in the smallest possible size (fits an 8.5" harp)

Biax® (pg 5-11)

- Super long life - from 10,000 to 15,000 hour rating
- One piece unit screws directly into incandescent sockets
- Wide variety of wattages to meet application needs
- T3 Mini Biax® CFL provides longest life with smallest overall size
- Selected lamps offer 3-way or dimming functionality

Reflectors (pgs 5-11 to 5-12)

- R20, R30 and R40 glass reflectors available to meet application needs
- Medium based; fits most incandescent reflector applications
- R30 and R40 lamps available with dimming functionality

Genura® (pg 5-12)

- Extremely long life - rated life of 15,000 hours
- One piece unit screws directly into incandescent sockets
- Provides more light than 75W incandescent reflector lamps
- Electrodeless design

Decorative Shapes (pgs 5-12 to 5-13)

- Variety of shapes (A-Line, Bullet, Candle, Globe, and Post) and wattages to meet all needs
- One piece unit screws directly into incandescent sockets
- Candle-shaped CFLs available in both medium base and candelabra base

LAMPS AND ADAPTERS

Circlite® (pg 5-13)

- Lamp and adapter are separate. Replaceable lamps plug into adapters that screw into standard incandescent sockets.
- Lamps last 10,000 hours; adapters last 40,000 hours (4 lamp lives)

2D®-Electronic (pg 5-13)

- Lamp and adapter are separate. Replaceable lamps plug into adapters that screw into standard incandescent sockets.
- Lamps last 10,000 hours; adapters last 40,000 hours (4 lamp lives)



Compact Fluorescent Lamps

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Compact Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.

Energy Used - Nominal Watts:
Energy Used (as defined by FTC lamp label rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Light Output - Mean Lumens:
Lamp light output (lumens) at 40% of rated lamp life.

Light Output - Initial Lumens:
Light output (as defined by FTC Lamp Label Rules) is rated average lumens.

Rated Life:
@ 12hrs. per start

Rated Life - Hours:
Life (as defined by FTC Lamp Label Rules) is rated life in hours.

Nominal Length:
Lamp length including base and/or pins.

Case Quantity:
Number of product units packed in a case.

Order Code:
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Volt:
Rated voltage.

Description:
The lamp's identification code.

Base:
The type of base.

Color Temperature - Kelvins (K):
A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.

Color Rendering Index (CRI or R_a):
An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Minimum Starting Temperature:
The minimum ambient temperature at which the lamp will start reliably.

Power Factor (PF):
A measure of power quality. The ratio of total watts to total volt-amperes. A value of 1.0 is ideal.

Total Harmonic Distortion (THD):
A measure (in percent) of power quality. Indicates the distortion of the alternating current wave form. Low values (<20%) are preferred.

Additional Information:
Typical application and/or other important information.

Footnotes:
Related footnotes, see page 5-14.

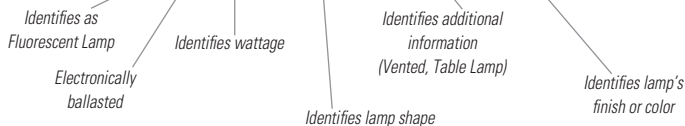
Warning Notices:
Related warnings, see pages 5-14 to 5-15.

| Base | Nominal Length | Order Code | Description | Case Qty | Rated Life Hours | Lumens | | Color Temp. K | CRI | Min. Start Temp. (°F) | Power Factor | THD | Additional Information | Warning Notices | Footnotes |
|------|----------------|------------|-------------|----------|------------------|---------|------|---------------|-----|-----------------------|--------------|-----|------------------------|-----------------|-----------|
| | | | | | | Initial | Mean | | | | | | | | |

SELF-BALLASTED LAMPS

| SPIRAL® | | | | | | | | | | | | | | | | | | |
|---------|-------|-----|-------|------------------------|----------|------|-------|----------------|-------------|---------------|-----|-----------------------|--------------|-----|------------------------|--|-----------|--------------|
| Base | Watts | in. | Code | Description | Case Qty | Volt | Hours | Initial Lumens | Mean Lumens | Color Temp. K | CRI | Min. Start Temp. (°F) | Power Factor | THD | Additional Information | Warning Notices | Footnotes | |
| Med | 42 | 6.4 | 16107 | FLE42HLX/VT/827 | 10 | 120 | 10000 | 2650 | 2275 | 2700 | 82 | 14 | 0.6 | 170 | ⚡ | BASE DOWN OPERATION ONLY, T4 Spiral®, RE 827 Phosphor, Boxed | 154 | 1, 7, 10, 15 |

FL E 42 HLX / VT / 827



WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 5-4.
4. Find your lamp in the table containing the bulb shape, size and base.



Compact Fluorescent Lamps

| Base | Nominal Length Order | Watts in. | Code | Description | Case Qty. | Rated Life Hours | Rated Life 12 Hrs. | Lumens Initial | Lumens Mean | Color Temp. K. | Min. Start Temp. (°F) | CRI | Additional Information | Warning Notice | Footnotes | | | | |
|--------------------------------|----------------------|-----------|-------------------------------|-------------------|----------------|------------------|--------------------|----------------|-------------|----------------|-----------------------|------|------------------------|-----------------------------|-----------|----------|----------|-----|---------|
| PLUG-IN LAMPS | | | | | | | | | | | | | | | | | | | |
| 2-PIN LOW WATTAGE BIAX® | | | | | | | | | | | | | | | | | | | |
| | 5 | 4.2 | 97551 | F5BX/827/ECO | 100 | 10000 | | 265 | 220 | 2700 | 82 | | | | 151 | 1,2 | | | |
| | | | 97552 | F5BX/827/CDECO | 6 | 10000 | | 265 | 220 | 2700 | 82 | | | Carded | | 151 | 1,2 | | |
| | | | 97553 | F5BX/841/ECO | 100 | 10000 | | 265 | 220 | 4100 | 82 | | | | | 151 | 1,2 | | |
| | 7 | 5.3 | 97554 | F7BX/827/ECO | 100 | 10000 | | 425 | 350 | 2700 | 82 | | | | | 151 | 1,2 | | |
| | | | 97555 | F7BX/827/CDECO | 6 | 10000 | | 425 | 350 | 2700 | 82 | | | Carded | | 151 | 1,2 | | |
| | | | 97556 | F7BX/835/ECO | 100 | 10000 | | 425 | 350 | 3500 | 82 | | | | | 151 | 1,2 | | |
| | 9 | 6.6 | 97557 | F7BX/841/ECO | 100 | 10000 | | 425 | 350 | 4100 | 82 | | | | | 151 | 1,2 | | |
| | | | 97558 | F9BX/827/ECO | 100 | 10000 | | 600 | 500 | 2700 | 82 | | | | | 151 | 1,2 | | |
| | | | 97559 | F9BX/827/CDECO | 6 | 10000 | | 600 | 500 | 2700 | 82 | | | Carded | | 151 | 1,2 | | |
| | 13 | 7.0 | 97560 | F9BX/835/ECO | 100 | 10000 | | 600 | 500 | 3500 | 82 | | | | 151 | 1,2 | | | |
| | | | 97561 | F9BX/841/ECO | 100 | 10000 | | 600 | 500 | 4100 | 82 | | | | | 151 | 1,2 | | |
| | | | 97573 | F13BX/827/ECO | 100 | 10000 | | 825 | 710 | 2700 | 82 | | | | | 151 | 1,2 | | |
| | | | 97567 | F13BX/827/CDECO | 6 | 10000 | | 825 | 710 | 2700 | 82 | | | Carded | | 151 | 1,2 | | |
| | | | 97574 | F13BX/830/ECO | 100 | 10000 | | 825 | 710 | 3000 | 82 | | | | | 151 | 1,2 | | |
| | | | 97569 | F13BX/835/ECO | 100 | 10000 | | 825 | 710 | 3500 | 82 | | | | | 151 | 1,2 | | |
| | | | 97568 | F13BX/835 100P | 100 | 10000 | | 825 | 710 | 3500 | 82 | | | | Bulk Pack | | 151 | 1,2 | |
| | | | 97571 | F13BX/841/ECO | 100 | 10000 | | 825 | 710 | 4100 | 82 | | | | | 151 | 1,2 | | |
| | | | 97570 | F13BX/841 100P | 100 | 10000 | | 825 | 710 | 4100 | 82 | | | | Bulk Pack | | 151 | 1,2 | |
| | | | 97572 | F13BX/850/ECO | 100 | 10000 | | 785 | 675 | 5000 | 80 | | | | | 151 | 1,2 | | |
| | | | 97562 | F13BX/E/827/ECO | 100 | 10000 | | 825 | 710 | 2700 | 82 | | | Internal Electronic Starter | | 151 | 1,2 | | |
| | | | 97563 | F13BX/E/830/ECO | 100 | 10000 | | 825 | 710 | 3000 | 82 | | | Internal Electronic Starter | | 151 | 1,2 | | |
| | | | 97564 | F13BX/E/835/ECO | 100 | 10000 | | 825 | 710 | 3500 | 82 | | | Internal Electronic Starter | | 151 | 1,2 | | |
| | | | 97565 | F13BX/E/841/ECO | 100 | 10000 | | 825 | 710 | 4100 | 82 | | | Internal Electronic Starter | | 151 | 1,2 | | |
| | | | 97566 | F13BX/E/850/ECO | 100 | 10000 | | 785 | 675 | 5000 | 80 | | | Internal Electronic Starter | | 151 | 1,2 | | |
| | | | 4-PIN HIGH LUMEN BIAX® | | | | | | | | | | | | | | | | |
| | | | | 18 | 9.0 | 16649 | F18BX/SPX30 10PK | 40 | 10000 | | 1200 | 1080 | 3000 | 82 | -4 | | | 151 | 1,2,4,6 |
| | | | | | | 16053 | F18BX/SPX35 10PK | 40 | 10000 | | 1200 | 1080 | 3500 | 82 | -4 | | | | 151 |
| 16940 | F18BX/SPX41 10PK | 40 | | | | 10000 | | 1200 | 1080 | 4100 | 82 | -4 | | | | 151 | 1,2,4,6 | | |
| 10.5 | | | | 17174 | F18BX/SPX30/RS | 40 | 20000 | | 1250 | 1130 | 3000 | 82 | 10 | | | 151 | 1,2,6,13 | | |
| | | | | 17175 | F18BX/SPX35/RS | 40 | 20000 | | 1250 | 1130 | 3500 | 82 | 10 | | | 151 | 1,2,6,13 | | |
| | | | | 17176 | F18BX/SPX41/RS | 40 | 20000 | | 1250 | 1130 | 4100 | 82 | 10 | | | 151 | 1,2,6,13 | | |
| 27 | 12.8 | | | 12521 | F18BX/SPX65/RS | 40 | 20000 | | 1160 | 1050 | 6500 | 82 | 10 | | | 151 | 1,2,6,13 | | |
| | | | | 16944 | F27BX/SPX30/RS | 40 | 12000 | | 1800 | 1620 | 3000 | 82 | 10 | | | 151 | 1,2,6,13 | | |
| | | | | 16948 | F27BX/SPX35/RS | 40 | 12000 | | 1800 | 1620 | 3500 | 82 | 10 | | | 151 | 1,2,6,13 | | |
| 39 | 16.5 | | | 16951 | F27BX/SPX41/RS | 40 | 12000 | | 1800 | 1620 | 4100 | 82 | 10 | | | 151 | 1,2,6,13 | | |
| | | | | 16538 | F39BX/SPX30/RS | 40 | 12000 | | 2850 | 2510 | 3000 | 82 | 10 | | | 151 | 1,2,6,13 | | |
| | | | | 15867 | F39BX/SPX35/RS | 40 | 12000 | | 2850 | 2510 | 3500 | 82 | 10 | | | 151 | 1,2,6,13 | | |
| 40 | 22.5 | | 16952 | F39BX/SPX41/RS | 40 | 12000 | | 2850 | 2510 | 4100 | 82 | 10 | | | 151 | 1,2,6,13 | | | |
| | | | 16953 | F40/30BX/SPX30 | 40 | 20000 | | 3150 | 2840 | 3000 | 82 | 10 | | | 151 | 1,2,6,13 | | | |
| | | | 20444 | F40/30BX/SPX30-36 | 36 | 20000 | | 3150 | 2840 | 3000 | 82 | 10 | | Bulk Pack | | 151 | 1,2,6,13 | | |
| | | | 16648 | F40/30BX/SPX35 | 40 | 20000 | | 3150 | 2840 | 3500 | 82 | 10 | | | 151 | 1,2,6,13 | | | |
| | | | 20446 | F40/30BX/SPX35-36 | 36 | 20000 | | 3150 | 2840 | 3500 | 82 | 10 | | Bulk Pack | | 151 | 1,2,6,13 | | |
| | | | 16954 | F40/30BX/SPX41 | 40 | 20000 | | 3150 | 2840 | 4100 | 82 | 10 | | | 151 | 1,2,6,13 | | | |
| 50 | 22.5 | | 20447 | F40/30BX/SPX41-36 | 36 | 20000 | | 3150 | 2840 | 4100 | 82 | 10 | | Bulk Pack | | 151 | 1,2,6,13 | | |
| | | | 10490 | F40/30BX/SPX50RS | 36 | 20000 | | 2900 | 2700 | 5000 | 80 | 10 | | Bulk Pack | | 151 | 1,2,6,13 | | |
| | | | 20898 | F50BX/SPX30/RS | 40 | 14000 | | 4000 | 3400 | 3000 | 82 | 10 | | | 151 | 1,2,6,13 | | | |
| 55 | 20.7 | | 20899 | F50BX/SPX35/RS | 40 | 14000 | | 4000 | 3400 | 3500 | 82 | 10 | | | 151 | 1,2,6,13 | | | |
| | | | 20900 | F50BX/SPX41/RS | 40 | 14000 | | 4000 | 3400 | 4100 | 82 | 10 | | | 151 | 1,2,6,13 | | | |
| | | | 31951 | F55BX/830 | 25 | 10000 | | 4800 | 4080 | 3000 | 82 | 10 | | | 151 | 1,2,6,13 | | | |
| | | | 31952 | F55BX/835 | 25 | 10000 | | 4800 | 4080 | 3500 | 82 | 10 | | | 151 | 1,2,6,13 | | | |
| | | | 31953 | F55BX/840 | 25 | 10000 | | 4800 | 4080 | 4100 | 82 | 10 | | | 151 | 1,2,6,13 | | | |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.

All footnote references found at the end of this section. ⚡ Reduced Wattage ⚡ High Color Rendering ⚡ TLCP Compliant Plug-Ins ⚡ EOL Protection Plug-Ins ⚡ Energy Star Screw-Ins



Compact Fluorescent Lamps

| Base | Nominal Length Watts in. | Order Code | Description | Case Qty. | Rated Life Hours | Rated Life 12 Hrs. | Lumens Initial Mean | Color Temp. K. | CRI | Min. Start Temp. (°F) | Additional Information | Warning Notice | Footnotes |
|---|-----------------------------|------------|---------------------------|-----------|---------------------|-----------------------|------------------------|-------------------|-----|--------------------------|------------------------|-------------------------------|-----------------|
| PLUG-IN LAMPS (CONTINUED) | | | | | | | | | | | | | |
| 4-PIN HIGH LUMEN BIAX® (CONTINUED) | | | | | | | | | | | | | |
| G2G11 | 55 | 20.7 | 45851 F55BX/AR/FS 6PK | 6 | 10000 | | 4800 4080 | 9325 | 67 | 10 | ⚡ | Fresh and Salt Water Phosphor | 151 1,2,6,13 |
| | | | 45859 F55BX/AR/FS/BULK | 25 | 10000 | | 4800 4080 | 9325 | 67 | 10 | ⚡ | Fresh and Salt Water Phosphor | 151 1,2,6,13 |
| 2-PIN DOUBLE BIAX® | | | | | | | | | | | | | |
| G23-2 | 9 | 4.3 | 97576 F9DBX23/827/ECO | 50 | 10000 | | 550 470 | 2700 | 82 | | ⚡ | | 151 1,2,17 |
| | | | 97575 F9DBX23/841/ECO | 50 | 10000 | | 550 470 | 4100 | 82 | | ⚡ | | 151 1,2,17 |
| GX23-2 | 13 | 4.7 | 97586 F13DBX23/827/ECO | 50 | 10000 | | 810 685 | 2700 | 82 | | ⚡ | | 151 1,2,17 |
| | | | 97585 F13DBX/827/CD | 6 | 10000 | | 810 685 | 2700 | 82 | | ⚡ | Carded | 151 1,2,17 |
| | | | 97587 F13DBX23/830/ECO | 50 | 10000 | | 810 685 | 3000 | 82 | | ⚡ | | 151 1,2,17 |
| | | | 97588 F13DBX23/835/ECO | 50 | 10000 | | 810 685 | 3500 | 82 | | ⚡ | | 151 1,2,17 |
| | | | 97589 F13DBX23/841/ECO | 50 | 10000 | | 810 685 | 4100 | 82 | | ⚡ | | 151 1,2,17 |
| G24d-1 | 13 | 5.3 | 97590 F13DBX/827/ECO | 50 | 10000 | | 900 755 | 2700 | 82 | | ⚡ | | 151 1,2,17 |
| | | | 97591 F13DBX/830/ECO | 50 | 10000 | | 900 755 | 3000 | 82 | | ⚡ | | 151 1,2,17 |
| | | | 97592 F13DBX/835/ECO | 50 | 10000 | | 900 755 | 3500 | 82 | | ⚡ | | 151 1,2,17 |
| | | | 97593 F13DBX/841/ECO | 50 | 10000 | | 900 755 | 4100 | 82 | | ⚡ | | 151 1,2,17 |
| G24d-2 | 18 | 6.1 | 97577 F18DBX/827/ECO | 50 | 10000 | | 1200 980 | 2700 | 82 | | ⚡ | | 151 1,2,5,17 |
| | | | 97578 F18DBX/830/ECO | 50 | 10000 | | 1200 980 | 3000 | 82 | | ⚡ | | 151 1,2,5,17 |
| | | | 97579 F18DBX/835/ECO | 50 | 10000 | | 1200 980 | 3500 | 82 | | ⚡ | | 151 1,2,5,17 |
| | | | 97580 F18DBX/841/ECO | 50 | 10000 | | 1200 980 | 4100 | 82 | | ⚡ | | 151 1,2,5,17 |
| G24d-3 | 26 | 6.7 | 97606 F26DBX/827/ECO | 50 | 10000 | | 1710 1460 | 2700 | 82 | | ⚡ | | 151 1,2,17 |
| | | | 97607 F26DBX/830/ECO | 50 | 10000 | | 1710 1460 | 3000 | 82 | | ⚡ | | 151 1,2,17 |
| | | | 97608 F26DBX/835/ECO | 50 | 10000 | | 1710 1460 | 3500 | 82 | | ⚡ | | 151 1,2,17 |
| | | | 97609 F26DBX/841/ECO | 50 | 10000 | | 1710 1460 | 4100 | 82 | | ⚡ | | 151 1,2,17 |
| | | | 97602 F26DBX/E/827/ECO | 50 | 10000 | | 1710 1460 | 2700 | 82 | | ⚡ | Internal Electronic Starter | 151 1,2,15,17 |
| | | | 97603 F26DBX/E/830/ECO | 50 | 10000 | | 1710 1460 | 3000 | 82 | | ⚡ | Internal Electronic Starter | 151 1,2,15,17 |
| | 26 | 6.4 | 97604 F26DBX/E/835/ECO | 50 | 10000 | | 1710 1460 | 3500 | 82 | | ⚡ | Internal Electronic Starter | 151 1,2,15,17 |
| | | | 97605 F26DBX/E/841/ECO | 50 | 10000 | | 1710 1460 | 4100 | 82 | | ⚡ | Internal Electronic Starter | 151 1,2,15,17 |
| | | | 4-PIN DOUBLE BIAX® | | | | | | | | | | |
| G24q-1 | 13 | 5.0 | 97594 F13DBX/827/ECO4P | 50 | 12000 | 20000 | 900 755 | 2700 | 82 | | ⚡ | | 151 1,2,6,17 |
| | | | 97595 F13DBX/830/ECO4P | 50 | 12000 | 20000 | 900 755 | 3000 | 82 | | ⚡ | | 151 1,2,6,17 |
| | | | 97596 F13DBX/835/ECO4P | 50 | 12000 | 20000 | 900 755 | 3500 | 82 | | ⚡ | | 151 1,2,6,17 |
| | | | 97597 F13DBX/841/ECO4P | 50 | 12000 | 20000 | 900 755 | 4100 | 82 | | ⚡ | | 151 1,2,6,17 |
| G24q-2 | 18 | 5.8 | 97598 F18DBX/827/ECO4P | 50 | 12000 | 20000 | 1200 970 | 2700 | 82 | | ⚡ | | 151 1,2,5,6,17 |
| | | | 97599 F18DBX/830/ECO4P | 50 | 12000 | 20000 | 1200 970 | 3000 | 82 | | ⚡ | | 151 1,2,5,6,17 |
| | | | 97600 F18DBX/835/ECO4P | 50 | 12000 | 20000 | 1200 970 | 3500 | 82 | | ⚡ | | 151 1,2,5,6,17 |
| | | | 97601 F18DBX/841/ECO4P | 50 | 12000 | 20000 | 1200 970 | 4100 | 82 | | ⚡ | | 151 1,2,5,6,17 |
| G24q-3 | 26 | 6.4 | 97610 F26DBX/827/ECO4P | 50 | 12000 | 20000 | 1710 1440 | 2700 | 82 | | ⚡ | | 151 1,2,6,17 |
| | | | 97611 F26DBX/830/ECO4P | 50 | 12000 | 20000 | 1710 1440 | 3000 | 82 | | ⚡ | | 151 1,2,6,17 |
| | | | 97612 F26DBX/835/ECO4P | 50 | 12000 | 20000 | 1710 1440 | 3500 | 82 | | ⚡ | | 151 1,2,6,17 |
| | | | 97613 F26DBX/841/ECO4P | 50 | 12000 | 20000 | 1710 1440 | 4100 | 82 | | ⚡ | | 151 1,2,6,17 |
| 4-PIN TRIPLE BIAX® | | | | | | | | | | | | | |
| GX24q-1 | 13 | 4.2 | 97623 F13TBX/827/4P/ECO | 10 | 12000 | 20000 | 900 755 | 2700 | 82 | | ⚡ | Non-Amalgam | 151 1,2,6,17 |
| | | | 97619 F13TBX/827/A/ECO | 10 | 12000 | 20000 | 900 755 | 2700 | 82 | | ⚡ | | 151 1,2,6,12,17 |
| | | | 97620 F13TBX/830/A/ECO | 10 | 12000 | 20000 | 900 755 | 3000 | 82 | | ⚡ | | 151 1,2,6,12,17 |
| | | | 97621 F13TBX/835/A/ECO | 10 | 12000 | 20000 | 900 755 | 3500 | 82 | | ⚡ | | 151 1,2,6,12,17 |
| | | | 97622 F13TBX/841/A/ECO | 10 | 12000 | 20000 | 900 755 | 4100 | 82 | | ⚡ | | 151 1,2,6,12,17 |
| GX24q-2 | 18 | 4.8 | 97628 F18TBX/827/4P/ECO | 10 | 12000 | 20000 | 1200 1010 | 2700 | 82 | | ⚡ | Non-Amalgam | 151 1,2,6,12,17 |
| | | | 97624 F18TBX/827/A/ECO | 10 | 12000 | 20000 | 1200 1010 | 2700 | 82 | | ⚡ | | 151 1,2,6,12,17 |
| | | | 97625 F18TBX/830/A/ECO | 10 | 12000 | 20000 | 1200 1010 | 3000 | 82 | | ⚡ | | 151 1,2,6,12,17 |
| | | | 97626 F18TBX/835/A/ECO | 10 | 12000 | 20000 | 1200 1010 | 3500 | 82 | | ⚡ | | 151 1,2,6,12,17 |

New Product Codes. (These product codes will be available September 2006. Until that time, use order code found on page 5-18).



| Base | Nominal Length Watts in. | Order Code | Description | Case Qty. | Rated Life Hours | Rated Life 12 Hrs. | Lumens Initial Mean | Color Temp. K | CRI | Min. Start Temp. (°F) | Additional Information | Warning Notice | Footnotes |
|--|-----------------------------------|---------------|-------------------------|--------------|------------------------|--------------------------|------------------------|---------------------|-----|-----------------------------|------------------------------------|-------------------|-------------|
| PLUG-IN LAMPS (CONTINUED) | | | | | | | | | | | | | |
| 4-PIN TRIPLE BIAX® (CONTINUED) | | | | | | | | | | | | | |
| | GX24q-2 | 18 4.8 | 97627 F18TBX/841/A/ECO | 10 | 12000 | 20000 | 1200 1020 | 4100 | 82 | | | 151 | 1,2,6,12,17 |
| | GX24q-3 | 26 5.2 | 97618 F26TBX/827/4P/ECO | 10 | 12000 | 20000 | 1710 1440 | 2700 | 82 | | Non-Amalgam | 151 | 1,2,6,17 |
| | | | 97614 F26TBX/827/A/ECO | 10 | 12000 | 20000 | 1710 1440 | 2700 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 97615 F26TBX/830/A/ECO | 10 | 12000 | 20000 | 1710 1440 | 3000 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 97616 F26TBX/835/A/ECO | 10 | 12000 | 20000 | 1710 1440 | 3500 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 97617 F26TBX/841/A/ECO | 10 | 12000 | 20000 | 1710 1440 | 4100 | 82 | | | 151 | 1,2,6,12,17 |
| | GX24-q3 | 32 5.5 | 97629 F32TBX/827/A/ECO | 10 | 12000 | 20000 | 2200 1850 | 2700 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 97630 F32TBX/830/A/ECO | 10 | 12000 | 20000 | 2200 1850 | 3000 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 97631 F32TBX/835/A/ECO | 10 | 12000 | 20000 | 2200 1850 | 3500 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 97632 F32TBX/841/A/ECO | 10 | 12000 | 20000 | 2200 1850 | 4100 | 82 | | | 151 | 1,2,6,12,17 |
| | GX24-q4 | 42 6.4 | 97633 F42TBX/827/A/ECO | 10 | 12000 | 20000 | 3200 2690 | 2700 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 97634 F42TBX/830/A/ECO | 10 | 12000 | 20000 | 3200 2690 | 3000 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 97635 F42TBX/835/A/ECO | 10 | 12000 | 20000 | 3200 2690 | 3500 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 97636 F42TBX/841/A/ECO | 10 | 12000 | 20000 | 3200 2690 | 4100 | 82 | | | 151 | 1,2,6,12,17 |
| 4-PIN HIGH OUTPUT BIAX® | | | | | | | | | | | | | |
| | GX24q-5 | 57 7.1 | 48861 F57QBX/827/A/ECO | 10 | 12000 | 20000 | 4300 3700 | 2700 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 48862 F57QBX/830/A/ECO | 10 | 12000 | 20000 | 4300 3700 | 3000 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 48863 F57QBX/835/A/ECO | 10 | 12000 | 20000 | 4300 3700 | 3500 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 48864 F57QBX/841/A/ECO | 10 | 12000 | 20000 | 4300 3700 | 4100 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 93404 F57QBX/850/A/ECO | 10 | 12000 | 20000 | 4300 3700 | 5000 | 82 | | | 151 | 1,2,6,12,17 |
| | GX24q-6 | 70 8.2 | 48865 F70QBX/827/A/ECO | 10 | 12000 | 20000 | 5200 4470 | 2700 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 48866 F70QBX/830/A/ECO | 10 | 12000 | 20000 | 5200 4470 | 3000 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 48867 F70QBX/835/A/ECO | 10 | 12000 | 20000 | 5200 4470 | 3500 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 48868 F70QBX/841/A/ECO | 10 | 12000 | 20000 | 5200 4470 | 4100 | 82 | | | 151 | 1,2,6,12,17 |
| | | | 93406 F70QBX/850/A/ECO | 10 | 12000 | 20000 | 5200 4470 | 5000 | 82 | | | 151 | 1,2,6,12,17 |
| 4-PIN 2D® | | | | | | | | | | | | | |
| | GR10q-4 | 10 3.6 | 21301 F102D/827/4P | 60 | 10000 | | 650 545 | 2700 | 82 | | | 151 | 1,2,3,6 |
| | | 16 5.5 | 22169 F162D/827/4P | 50 | 10000 | | 1050 880 | 2700 | 82 | | | 151 | 1,2,3,6 |
| | | | 22177 F162D/835/4P | 50 | 10000 | | 1050 880 | 3500 | 82 | | | 151 | 1,2,3,6 |
| | | 21 5.5 | 21303 F212D/827/4P | 50 | 10000 | | 1350 1135 | 2700 | 82 | | | 151 | 1,2,3,6 |
| | | | 22178 F212D/835/4P | 50 | 10000 | | 1350 1135 | 3500 | 82 | | | 151 | 1,2,3,6 |
| | | 28 8.1 | 22172 F282D/827/4P | 20 | 10000 | | 2050 1720 | 2700 | 82 | | | 151 | 1,2,3,6 |
| | | | 22180 F282D/835/4P | 20 | 10000 | | 2050 1720 | 3500 | 82 | | | 151 | 1,2,3,6 |
| | GRY10q-3 | 55 8.1 | 21305 F382D/827/4P | 20 | 10000 | | 2850 2395 | 2700 | 82 | | | 151 | 1,2,3,6 |
| | | | 25427 F38/2D/827/4P/CD | 5 | 10000 | | 2850 2395 | 2700 | 82 | | Carded | 151 | 1,2,3,6 |
| | | | 22181 F382D/835/4P | 20 | 10000 | | 2850 2395 | 3500 | 82 | | | 151 | 1,2,3,6 |
| | | | 37525 F552D/827/A/4P/B | 48 | 10000 | | 3900 3300 | 2700 | 82 | | Bulk Pack | 151 | 1,2,3,6 |
| | | | 36358 F552D/830A/T4P/B | 20 | 10000 | | 4000 3400 | 3000 | 82 | | Torchiere Replacement Lamp | 151 | 1,2,3,6 |
| | | | 40184 F552D/830/4P/CD | 5 | 10000 | | 4000 3400 | 3000 | 82 | | Torchiere Replacement Lamp, Carded | 151 | 1,2,3,6 |
| | | | 37529 F552D/835/A/4P/B | 48 | 10000 | | 3900 3300 | 3500 | 82 | | Bulk Pack | 151 | 1,2,3,6 |

New Product Codes. (These product codes will be available September 2006. Until that time, use order code found on page 5-18).

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.

All footnote references found at the end of this section. Reduced Wattage High Color Rendering TLCP Compliant Plug-Ins EOL Protection Plug-Ins Energy Star Screw-Ins



| Base | Nominal Length Watts in. Code | Order Code | Description | Case Qty | Rated Life Hours | Lumens | | Color Temp. | | Min. Start Temp. (°F) | Power Factor | THD | Additional Information | Warning Notices | Footnotes | | | | | | | | | | | | | | | | | |
|---|----------------------------------|--------------------------|------------------------|-------------------------|---------------------|------------------------|-------|-------------|-------|--------------------------|--------------|------|--|---|-------------------|--|------------------------|---|-----|---------------|-------|------|------|------|----|-----|-----|-----|--|--|-------------|------------|
| | | | | | | Initial | Mean | K | CRI | | | | | | | | | | | | | | | | | | | | | | | |
| SELF-BALLASTED LAMPS (CONTINUED) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPIRAL® (CONTINUED) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Med | 26 | 5.2 | 00262 FLE26HT3/2/SW/3PK | 3 | 120 | 8000 | 1750 | 1400 | 2700 | 82 | 5 | 0.6 | 120 | | T3 Spiral®, Carded 3 Pack | 153 | 1,7,8,9,10 | | | | | | | | | | | | | | |
| | | | | 16254 FLE26HT3/2/6H/4PK | 3 | 120 | 6000 | 1750 | 1400 | 2700 | 82 | 5 | 0.6 | 120 | | 6000 Hr Life, T3 Spiral®, Boxed Consumer 4 Pack | 153 | 1,7,8,9,10 | | | | | | | | | | | | | | |
| | | | | 21845 FLE26HT3/2/10PK | 10 | 120 | 8000 | 1700 | 1365 | 2700 | 82 | 5 | 0.6 | 120 | | T3 Spiral®, Consumer 10 Pack | 153 | 1,7,8,9,10 | | | | | | | | | | | | | | |
| | | | | 25195 FLE26HT3/2/841 | 10 | 120 | 8000 | 1750 | 1400 | 4100 | 82 | 5 | 0.6 | 120 | | T3 Spiral®, Boxed | 153 | 1,7,8,9,10 | | | | | | | | | | | | | | |
| | | | | 85397 FLE26HT3/2/D/2PK | 3 | 120 | 8000 | 1600 | 1315 | 6500 | 82 | 5 | 0.6 | 120 | | T3 Spiral®, Carded Twin Pack | 153 | 1,7,8,9,10 | | | | | | | | | | | | | | |
| | | | | 80890 FLE26HT3/2/XL | 10 | 120 | 12000 | 1700 | 1360 | 2700 | 82 | 5 | 0.6 | 120 | | T3 Spiral®, Boxed | 153 | 1,7,8,9,10 | | | | | | | | | | | | | | |
| | | | | 47446 FLE26HT3/2/XL/CD | 12 | 120 | 12000 | 1700 | 1360 | 2700 | 82 | 5 | 0.6 | 120 | | T3 Spiral®, Carded Single Pack | 153 | 1,7,8,9,10 | | | | | | | | | | | | | | |
| | | | | 49685 FLE26HT3/2/XL2PK | 3 | 120 | 12000 | 1700 | 1360 | 2700 | 82 | 5 | 0.6 | 120 | | T3 Spiral®, Carded Twin Pack | 153 | 1,7,8,9,10 | | | | | | | | | | | | | | |
| | | | | 81514 FLE29HLX/2/XL/827 | 10 | 120 | 12000 | 2200 | 1760 | 2700 | 82 | 5 | 0.6 | | | T4 Spiral®, Boxed | 153 | 1,7,8,9,10 | | | | | | | | | | | | | | |
| | | | | 47459 FLE29HLX/2/XL/CD | 12 | 120 | 12000 | 2200 | 1760 | 2700 | 82 | 5 | 0.6 | | | T4 Spiral®, Carded Single Pack | 153 | 1,7,8,9,10 | | | | | | | | | | | | | | |
| | 29 | 6.3 | 81515 FLE29HLX/2D3/827 | 10 | 120 | 10000 | 600 | 480 | 2700 | 82 | 5 | 0.6 | | T4 Spiral®, Boxed, 3-way | 155 | 1,7,8,9,10 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 1600 | 1280 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 2200 | 1760 | | | | | | | | | | | | | | |
| | 42 | 6.4 | 80891 FLE42HLX/2/XL | 10 | 120 | 12000 | 2700 | 2160 | 2700 | 82 | 5 | 0.6 | 170 | | T4 Spiral®, Boxed | 153 | 1,7,8,9,10 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 47452 FLE42HLX/2/XL/CD | 12 | 120 | 12000 | 2700 | 2160 | 2700 | 82 | 5 | 0.6 | 170 | | T4 Spiral®, Carded Single Pack | 153 | 1,7,8,9,10 |
| | | | | | | | | | | | | | | | | | | 16107 FLE42HLX/VT/827 | 10 | 120 | 10000 | 2650 | 2275 | 2700 | 82 | 14 | 0.6 | 170 | | BASE DOWN OPERATION ONLY, T4 Spiral®, Boxed | 154 | 1,7,10,15 |
| BIAX® | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Med | 12 | 4.4 | 20702 FLE12TT3/827 | 10 | 120 | 15000 | 600 | 480 | 2700 | 82 | 5 | 0.6 | 120 | | T3 Triple Biax®, Boxed | 153 | 1,7,8,9,10,12 | | | | | | | | | | | | | | |
| | | | | 14 | 5.9 | 49884 FLE14TBX/2/SW/CD | 12 | 120 | 8000 | 850 | 685 | 2700 | 82 | 5 | 0.6 | 120 | | Triple Biax®, Carded Single Pack | 153 | 1,7,8,9,10 | | | | | | | | | | | | |
| | | | | 15 | 4.9 | 12004 FLE15TT3/827 | 10 | 120 | 15000 | 900 | 720 | 2700 | 82 | 5 | 0.6 | 145 | | T3 Triple Biax®, Boxed | 153 | 1,7,8,9,10,12 | | | | | | | | | | | | |
| | | | | | | 12005 FLE15TT3/SW/CD | 3 | 120 | 15000 | 900 | 720 | 2700 | 82 | 5 | 0.6 | 145 | | T3 Triple Biax®, Carded Single Pack | 153 | 1,7,8,9,10,12 | | | | | | | | | | | | |
| | | | | 20 | 5.5 | 12008 FLE20TT3/827 | 10 | 120 | 15000 | 1200 | 960 | 2700 | 82 | 5 | 0.6 | 130 | | T3 Triple Biax®, Boxed | 153 | 1,7,8,9,10,12 | | | | | | | | | | | | |
| | | | | | | 12009 FLE20TT3/SW/CD | 3 | 120 | 15000 | 1200 | 960 | 2700 | 82 | 5 | 0.6 | 130 | | T3 Triple Biax®, Carded Single Pack | 153 | 1,7,8,9,10,12 | | | | | | | | | | | | |
| | | | | 24 | 5.6 | 49885 FLE20TBX/2/SW/CD | 12 | 120 | 8000 | 1200 | 965 | 2700 | 82 | 5 | 0.6 | 120 | | Triple Biax®, Carded Single Pack | 153 | 1,7,8,9,10 | | | | | | | | | | | | |
| | | | | | | 23669 FLE24QBX/A/827 | 6 | 120 | 12000 | 1520 | 1290 | 2700 | 82 | -9 | 0.6 | 170 | | New Quad Biax® design, even shorter MOL, boxed | 153 | 1,7,8,9,10,12 | | | | | | | | | | | | |
| | | | | 27 | 6.9 | 49887 FLE27QBX/2/SW/CD | 12 | 120 | 6000 | 1700 | 1365 | 2700 | 82 | 5 | 0.6 | 130 | | Quad Biax®, Carded Single Pack | 153 | 1,7,8,9,10 | | | | | | | | | | | | |
| | | | | | | 40351 FLE28QBX/LL/CD | 3 | 120 | 12000 | 1750 | 1485 | 2700 | 82 | -9 | 0.6 | 170 | | Soft White, Quad Biax®, Carded, Standard Shell Ballast | 153 | 1,7,8,9,10,12 | | | | | | | | | | | | |
| 28 | 5.9 | 46270 FLE28QBX/A/827 | 6 | 120 | 12000 | 1750 | 1485 | 2700 | 82 | -9 | 0.6 | 170 | | Shorter MOL | 153 | 1,7,8,9,10,12 | | | | | | | | | | | | | | | | |
| | | 41457 FLE29QBX/DV/827 | 6 | 120 | 10000 | 1750 | 1500 | 2700 | 82 | -9 | 0.6 | 170 | | Dimming, Standard Shell Ballast | 156 | 1,7,8,9,12,14 | | | | | | | | | | | | | | | | |
| 29 | 6.3 | 45599 FLE29QBX/DV/827/CD | 3 | 120 | 10000 | 1750 | 1500 | 2700 | 82 | -9 | 0.6 | 170 | | Dimming, Carded, Standard Shell Ballast | 156 | 1,7,8,9,12,14 | | | | | | | | | | | | | | | | |
| REFLECTORS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Med | 11 | 4.7 | 20704 FLE11/R20 | 10 | 120 | 10000 | 370 | 296 | 2700 | 82 | 5 | 0.6 | 120 | | Soft White, R20 Glass Reflector | 157 | 1,8,9,10,12 | | | | | | | | | | | | | | |
| | | | | 80892 FLE11/2/R20XL | 10 | 120 | 10000 | 400 | 320 | 2700 | 82 | 5 | 0.6 | 120 | | Soft White, R20 Glass Reflector, Boxed | 157 | 1,8,9,10,12 | | | | | | | | | | | | | | |
| | | | | 47477 FLE11/2/R20XL/CD | 12 | 120 | 10000 | 400 | 320 | 2700 | 82 | 5 | 0.6 | 120 | | Soft White, R20 Glass Reflector, Carded Single Pack | 157 | 1,8,9,10,12 | | | | | | | | | | | | | | |
| 15 | 5.5 | 49917 FLE15/A2/R30 | 6 | 120 | 10000 | 550 | 445 | 2700 | 82 | -22 | 0.6 | 170 | | Soft White, R30 Glass Reflector | 157 | 1,8,9,10,12 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 20708 FLE15/2/R30/SWCD | 3 | 120 | 8000 | 720 | 580 | 2700 | 82 | 5 | 0.6 | 120 | | Soft White, R30 Glass Reflector, Carded Single Pack | 158 | 1,8,9,10,12 | |
| | | | | | | | | | | | | | | | | | 80893 FLE15/2/R30XL | 10 | 120 | 10000 | 750 | 600 | 2700 | 82 | 5 | 0.6 | 120 | | Soft White, R30 Glass Reflector, Boxed | 157 | 1,8,9,10,12 | |
| | | | | | | | | | | | | | | | | | 47478 FLE15/2/R30XL/CD | 12 | 120 | 10000 | 750 | 600 | 2700 | 82 | 5 | 0.6 | 120 | | Soft White, R30 Glass Reflector, Carded Single Pack | 157 | 1,8,9,10,12 | |
| 5.6 | 21709 FLE15/2/DV/R30 | 6 | 120 | 6000 | 720 | 580 | 2700 | 82 | 5 | 0.6 | 110 | | Dimming, Soft White, R30 Glass Reflector, Boxed | 165 | 1,8,9,12,14 | | | | | | | | | | | | | | | | | |



Compact Fluorescent Lamps

| Base | Nominal Length | Order Code | Description | Case Qty | Volt | Rated Life Hours | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Min. Start Temp. (°F) | Power Factor | THD | Additional Information | Warning Notices | Footnotes |
|------|----------------|------------|-------------|----------|------|------------------|----------------|-------------|---------------|-----|-----------------------|--------------|-----|------------------------|-----------------|-----------|
|------|----------------|------------|-------------|----------|------|------------------|----------------|-------------|---------------|-----|-----------------------|--------------|-----|------------------------|-----------------|-----------|

SELF-BALLASTED LAMPS (CONTINUED)

REFLECTORS (CONTINUED)

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----------------------------------|---|-----|-------|------|------|------|----|-----|-----|-----|-----|---|-----|-------------|
| Med | 15 | 5.6 | 21710 FLE15/2/DV/R30/SW/CD | 3 | 120 | 6000 | 720 | 580 | 2700 | 82 | 5 | 0.6 | 110 | ⚡⚡★ | Dimming, Soft White, R30 Glass Reflector, Carded Single Pack | 165 | 1,8,9,12,14 |
| Med | 23 | 5.9 | 15382 FLE23/A4/R40 | 6 | 120 | 10000 | 950 | 760 | 2700 | 82 | -13 | 0.6 | 170 | ⚡⚡★ | Soft White, R40 Glass Reflector | 157 | 1,8,9,10,12 |
| | 26 | 6.5 | 21738 FLE26/2/R40/SW/CD | 3 | 120 | 6000 | 1300 | 1040 | 2700 | 82 | 5 | 0.6 | 120 | ⚡⚡★ | Soft White, R40 Glass Reflector, Carded Single Pack | 158 | 1,8,9,10,12 |
| | | | 80894 FLE26/2/R40XL | 6 | 120 | 10000 | 1300 | 1040 | 2700 | 82 | 5 | 0.6 | 120 | ⚡⚡★ | Soft White, R40 Glass Reflector, Boxed | 157 | 1,8,9,10,12 |
| | | | 47479 FLE26/2/R40XL/CD | 3 | 120 | 10000 | 1300 | 1040 | 2700 | 82 | 5 | 0.6 | 120 | ⚡⚡★ | Soft White, R40 Glass Reflector, Carded Single Pack | 157 | 1,8,9,10,12 |
| | 6.9 | | 21716 FLE26/2/DV/R40 | 6 | 120 | 6000 | 1300 | 1040 | 2700 | 82 | 5 | 0.6 | 110 | ⚡⚡★ | Dimming, Soft White, R40 Glass Reflector, Boxed | 165 | 1,8,9,12,14 |
| | | | 21718 FLE26/2/DV/R40/SW/CD | 3 | 120 | 6000 | 1300 | 1040 | 2700 | 82 | 5 | 0.6 | 110 | ⚡⚡★ | Dimming, Soft White, R40 Glass Reflector, Carded Single Pack | 165 | 1,8,9,12,14 |
| | 5.5 | | 21739 FLE26/2/PAR38/SW/CD | 3 | 120 | 6000 | 1200 | 970 | 2700 | 82 | 5 | 0.6 | 120 | ⚡⚡★ | Soft White, Par 38 Glass Reflector, Carded Single Pack | | 1,8,9,12,16 |
| | 5.6 | | 80895 FLE26/2/PAR38/XL | 6 | 120 | 10000 | 1300 | 1040 | 2700 | 82 | 5 | 0.6 | | ⚡⚡★ | Soft White, Par 38 Glass Reflector, Boxed, Wet rated | 166 | 1,8,9,12,16 |
| | | | 47483 FLE26/2/PAR38/XL | 3 | 120 | 10000 | 1300 | 1040 | 2700 | 82 | 5 | 0.6 | | ⚡⚡★ | Soft White, Par 38 Glass Reflector, Carded Single Pack, Wet rated | 166 | 1,8,9,12,16 |

GENURA®

| | | | | | | | | | | | | | | | | | |
|-----|----|-----|--------------------------|---|-----|-------|------|-----|------|----|----|-----|-----|----|---|-----|----------|
| Med | 23 | 4.9 | 25418 EL23/R25/SW | 6 | 120 | 15000 | 1100 | 880 | 2700 | 82 | 32 | 0.6 | 130 | ⚡⚡ | Genura® Electrodeless Design, Soft White | 160 | 1,8,9,10 |
| | | | 12273 EL23/R25/WW | 6 | 120 | 15000 | 1100 | 880 | 3000 | 82 | 32 | 0.6 | 130 | ⚡⚡ | Genura® Electrodeless Design, RE 830 Phosphor, Warm White | 160 | 1,8,9,10 |

DECORATIVE SHAPES

| | | | | | | | | | | | | | | | | | |
|------|-----|-----|----------------------------------|----|-----|-------|-----|-----|------|----|----|-----|-----|-----|---|-----|-----------|
| Cand | 5 | 4.8 | 16098 FLE5/2/CAC/827 | 10 | 120 | 6000 | 200 | 160 | 2700 | 82 | 5 | 0.6 | 145 | ⚡⚡ | Candle Shape, Candelabra Base, Boxed | 157 | 1,8,10,12 |
| Med | 5 | 4.8 | 16099 FLE5/2/CAM/827 | 10 | 120 | 6000 | 200 | 160 | 2700 | 82 | 5 | 0.6 | 145 | ⚡⚡★ | Candle Shape, Medium Base, Boxed | 157 | 1,8,10,12 |
| Cand | 7 | 5.2 | 16103 FLE7/2/CAC/827 | 10 | 120 | 6000 | 370 | 296 | 2700 | 82 | 5 | 0.6 | 130 | ⚡⚡ | Candle Shape, Candelabra Base, Boxed | 157 | 1,8,10,12 |
| Med | 7 | 5.2 | 16104 FLE7/2/CAM/827 | 10 | 120 | 6000 | 370 | 296 | 2700 | 82 | 5 | 0.6 | 130 | ⚡⚡★ | Candle Shape, Medium Base, Boxed | 157 | 1,8,10,12 |
| Cand | 9 | 5.4 | 85388 FLE9/2/CAC/SW/CD | 12 | 120 | 6000 | 430 | 344 | 2700 | 82 | 5 | 0.6 | 125 | ⚡⚡ | Candle Shape, Candelabra Base, Carded Single Pack | 157 | 1,8,10,12 |
| | | | 16105 FLE9/2/CAC/827 | 10 | 120 | 6000 | 430 | 344 | 2700 | 82 | 5 | 0.6 | 125 | ⚡⚡ | Candle Shape, Candelabra Base, Boxed | 157 | 1,8,10,12 |
| Med | 9 | 5.4 | 47488 FLE9/2/CAM/XL/CD | 12 | 120 | 10000 | 430 | 344 | 2700 | 82 | 5 | 0.6 | 125 | ⚡⚡★ | Candle Shape, Medium Base, Carded Single Pack | 157 | 1,8,10,12 |
| | | | 16106 FLE9/2/CAM/827 | 10 | 120 | 6000 | 430 | 344 | 2700 | 82 | 5 | 0.6 | 125 | ⚡⚡★ | Candle Shape, Medium Base, Boxed | 157 | 1,8,10,12 |
| | 11 | 4.4 | 47486 FLE11/2/A17XL/CD | 12 | 120 | 10000 | 550 | 440 | 2700 | 82 | 5 | 0.6 | | ⚡⚡★ | A-Line Shape, Carded Single Pack | 157 | 1,8,10,12 |
| | 11 | 4.8 | 47484 FLE11/2/G25XL/CD | 12 | 120 | 10000 | 550 | 440 | 2700 | 82 | 5 | 0.6 | | ⚡⚡★ | Globe Shape, Carded Single Pack | 157 | 1,8,10,12 |
| | | 5.2 | 49894 FLE11/2/TC14/SW/CD | 12 | 120 | 6000 | 520 | 420 | 2700 | 82 | 5 | 0.6 | 120 | ⚡⚡★ | Post Light, Carded Single Pack | 157 | 1,8,10,12 |
| | | 5.2 | 49895 FLE11/2/TC14/BUG/CD | 12 | 120 | 6000 | 520 | 420 | 2700 | 82 | 5 | 0.6 | 120 | ⚡⚡★ | Bug Yellow Post Light, Carded Single Pack | 157 | 1,8,10,12 |
| | 12 | 4.8 | 20703 FLE12/A19/827 | 10 | 120 | 10000 | 550 | 440 | 2700 | 82 | 5 | 0.6 | 120 | ⚡⚡ | A-Line Shape, Reduced Size, Boxed | 157 | 1,8,10,12 |
| | 14 | 5 | 47464 FLE14/2/TC16/BUG | 12 | 120 | 10000 | 750 | 600 | 2700 | 82 | 5 | 0.6 | | ⚡⚡★ | Bug Yellow Post Light, Carded Single Pack | 157 | 1,8,10,12 |
| | 15 | 4.8 | 47487 FLE15/2/A21XL/CD | 12 | 120 | 10000 | 825 | 660 | 2700 | 82 | 5 | 0.6 | | ⚡⚡★ | A-Line Shape, Carded Single Pack | 157 | 1,8,10,12 |
| | | | 47485 FLE15/2/G25XL/CD | 12 | 120 | 10000 | 800 | 640 | 2700 | 82 | 5 | 0.6 | | ⚡⚡★ | Globe Shape, Carded Single Pack | 157 | 1,8,10,12 |
| | 4.7 | | 21733 FLE15/2/A21/SW/CD | 12 | 120 | 8000 | 850 | 689 | 2700 | 82 | 5 | 0.6 | 120 | ⚡⚡★ | A-Line Shape, Carded Single Pack | 158 | 1,8,10,12 |
| | 5.4 | | 12010 FLE15/A19/827 | 6 | 120 | 10000 | 825 | 660 | 2700 | 82 | 5 | 0.6 | 145 | ⚡⚡ | A-Line Shape, Reduced Size, Boxed | 157 | 1,8,10,12 |
| | | | 12011 FLE15/A19/SW/CD | 3 | 120 | 10000 | 825 | 660 | 2700 | 82 | 5 | 0.6 | 145 | ⚡⚡ | A-Line Shape, Reduced Size, Carded Single Pack | 157 | 1,8,10,12 |
| | 15 | 5.3 | 41325 FLE15/6/T19/827 | 10 | 120 | 6000 | 800 | 640 | 2700 | 84 | 32 | 0.6 | 170 | ⚡⚡ | Bullet | 158 | 1,8,10,12 |
| | 5.8 | | 12501 FLE15TBX/L/G29 | 6 | 120 | 12000 | 750 | 600 | 2700 | 82 | -9 | 0.6 | 170 | ⚡⚡ | Soft White, G30 Globe Slimshell Ballast | 157 | 1,8,10,12 |
| | 5.4 | | 41546 FLE15/A3/G30 | 6 | 120 | 10000 | 730 | 590 | 2700 | 82 | -9 | 0.6 | 170 | ⚡⚡ | Soft White, G30 Globe, Reduced Overall Length | 157 | 1,8,10,12 |
| | 6 | | 41464 FLE15/L/TC16/827 | 6 | 120 | 12000 | 850 | 680 | 2700 | 82 | -9 | 0.6 | 170 | ⚡⚡ | Post Light, Slimshell Ballast | 157 | 1,8,10,12 |



Compact Fluorescent Lamps

| Base | Watts | Nominal Length in. | Order Code | Description | Case Qty | Voltage | Rated Life Hours | Lumens | | Color Temp. K | CRI | Min. Start Temp. (°F) | Power Factor | THD | Additional Information | Warning Notices | Footnotes |
|------|-------|--------------------|------------|-------------|----------|---------|------------------|---------|------|---------------|-----|-----------------------|--------------|-----|------------------------|-----------------|-----------|
| | | | | | | | | Initial | Mean | | | | | | | | |

SELF-BALLASTED LAMPS (CONTINUED)

DECORATIVE SHAPES (CONTINUED)



| | | | | | | | | | | | | | | | | | | |
|-----|----|-----|-------|----------------------|---|-----|------|------|-----|------|----|---|-----|-----|--|---|-----|-----------|
| Med | 20 | 6.1 | 41456 | FLE20/A2/A24/827 | 6 | 120 | 6000 | 1125 | 950 | 2700 | 82 | 0 | 0.6 | 170 | | A-Line Shape, Slimshell Ballast | 157 | 1,8,10,12 |
| | | | 41441 | FLE20/A2/A24/SW/CD 3 | 3 | 120 | 6000 | 1125 | 950 | 2700 | 82 | 0 | 0.6 | 170 | | A-Line Shape, Carded, Slimshell Ballast | 157 | 1,8,10,12 |

LAMPS AND ADAPTERS

CIRCLITE®



| | | | | | | | | | | | | | | | | | | |
|-----|----|-----|-------|-----------------|---|-----|-------|------|------|------|----|-----|-----|-----|---|---|-----------|-----------|
| Med | 21 | 3.4 | 11307 | FCA21/CD | 4 | 120 | 10000 | 1200 | 1020 | 3000 | 82 | 0.5 | 20 | | Circlite, Carded, FC8T9/KB Replacement Lamp | 163 | 1,7,10,11 | |
| | | | 48222 | FCA21/D CD TRAY | 4 | 120 | 10000 | | | | | | | | Circlite, Carded Tray Pack, FC8T9/KB Replacement Lamp | 163 | 1,7,10,11 | |
| | 30 | 3.5 | 27251 | FEA30CIR/SW/CD | 4 | 120 | 10000 | 1900 | 1520 | 2700 | 82 | 32 | 0.6 | 170 | | Electronic Circlite, Carded, Replacement Lamp FC8T9 | 164 | 1,7,10,11 |

2D®-ELECTRONIC



| | | | | | | | | | | | | | | | | | | |
|-----|----|-----|-------|------------------|---|-----|-------|------|------|------|----|----|-----|---|--|---|-----|----------------|
| Med | 39 | 4.3 | 27253 | FEA38/2D/3WAY/CD | 4 | 120 | 10000 | 2780 | 2365 | 2700 | 82 | 32 | 0.5 | 2 | | 3-Way, Carded Uses F382D/827 Replacement Lamp | 164 | 1,3,7,10,11,12 |
|-----|----|-----|-------|------------------|---|-----|-------|------|------|------|----|----|-----|---|--|---|-----|----------------|

BRIGHT STICK® LIGHTING UNITS



| | | | | | | | | | | | | | | | | | |
|--|----|----|-------|--------------|---|--|------|-----|--|------|----|--|--|--|---|--|------|
| | 33 | 25 | 12257 | FBS25/WX/PP | 6 | | 7500 | 725 | | 3450 | 59 | | | | Bright Stik, White Lamp-In-Holder Unit with Standard 2-Prong Plug, Integral Lamp(1)* | | 1,10 |
| | | | 12263 | FBS25/GS/PP | 6 | | 7500 | 470 | | 3050 | 90 | | | | Bright Stik, Gro & Sho, Lamp-In-Holder Unit with Standard 2-Prong Plug, Integral Lamp (1)* | | 1,10 |
| | | | 47912 | FBS25/BLB/PP | 6 | | 7500 | | | | | | | | Bright Stik, Blacklight Blue Lamp-In-Holder Unit with Standard 2-Prong Plug, Integral Lamp (1)* | | 1,10 |

| Bulb | Base | Nominal Length | | Order Code | Description | Case Qty | Rated Life Hours | Additional Information | Warning Notices | Footnotes |
|------|------|----------------|-----|------------|-------------|----------|------------------|------------------------|-----------------|-----------|
| | | Watts | in. | | | | | | | |

GERMICIDAL

| | | | | | | | | | | |
|----|------|----|-------|-------|----------------|-----|------|--|-----|-------|
| T4 | G23 | 5 | 3.35 | 16479 | GBX5/UVC | 100 | 8000 | Clear, Preheat, 2 Pin Internal Starter, UVC Source | 106 | 9, 16 |
| | | 9 | 5.71 | 15877 | GBX9/UVC | 100 | 8000 | Clear, Preheat, 2 Pin Internal Starter, UVC Source | 106 | 9, 16 |
| | | 11 | 8.46 | 15879 | GBX11/UVC | 100 | 8000 | Clear, Preheat, 2 Pin Internal Starter, UVC Source | 106 | 9, 16 |
| | GH23 | 13 | 6.69 | 15881 | GBX13/UVC | 100 | 8000 | Clear, Preheat, 2 Pin Internal Starter, UVC Source | 106 | 9, 16 |
| T6 | 2G11 | 18 | 8.8 | 15882 | GBX18/UVC/2G11 | 40 | 8000 | Clear, UVC Source | 106 | 9, 16 |
| | | 36 | 16.33 | 15883 | GBX36/UVC/2G11 | 40 | 8000 | Clear, UVC Source | 106 | 9, 16 |
| | | 55 | 21.1 | 15885 | GBX55/UVC/2G11 | 25 | 8000 | Clear, UVC Source | 106 | 9, 16 |

BLACKLIGHT

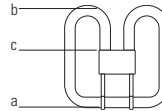
| | | | | | | | | | | |
|----|--------|----|-------|-------|------------------|----|-------|--|-----|---|
| T4 | G23 | 5 | 3.35 | 42935 | F9BX BL G23 | 10 | 10000 | Blacklight UVA Source 2 pin Internal Starter | 104 | 8 |
| | | 11 | 5.71 | 42936 | F11BX BL G23 | 10 | 10000 | Blacklight UVA Source 2 pin Internal Starter | 104 | 8 |
| | GX23 | 13 | 8.46 | 42937 | F13BX BL GX23 | 10 | 10000 | Blacklight UVA Source 2 pin Internal Starter | 104 | 8 |
| T4 | G24d-3 | 26 | 6.7 | 42938 | F26DBX BL G24d-3 | 10 | 10000 | Blacklight UVA Source 4 Pin Electronic | 104 | 8 |
| T6 | 2G11 | 24 | 12.8 | 42939 | F24BX BL 2G11 | 10 | 10000 | Blacklight UVA | 104 | 8 |
| | | 36 | 16.33 | 42940 | F36BX BL 2G11 | 10 | 10000 | Blacklight UVA | 104 | 8 |
| | | 55 | 21.1 | 42941 | F55BX BL 2G11 | 10 | 10000 | Blacklight UVA | 104 | 8 |



FOOTNOTES

Footnote

- 1 Fluorescent lamp lumens decline during life.
- 2 Based on 60Hz reference circuit.
- 3 10-watt, 16-watt and 28-watt 2D® lamps may be operated in any position. 21-watt, 38-watt, 39-watt and 55-watt 2D® lamps must be used with the leg marked (a) in the diagram below the bend (b), in order to avoid overheating the end of the cap marked (c).
- 4 Life ratings for the F18BX preheat lamps are based on operating the lamp at 3hrs. per start on a preheat type circuit. Operation on rapid start and instant start ballasts is not recommended.
- 5 Cold cathode resistance is approximately 6.0 Ohms.
- 6 4-Pin lamp minimum starting temperature is a function of the ballast. Most ballasts are rated with a minimum starting temperature of 50°F (10°C). Ballasts are also available that provide reliable starting to 0°F (-18°C) and -20°F (-29°C).
- 7 Most one piece self ballasted lamps for incandescent sockets and plug-in lamps with screw-in adapters do not work with clip-on shades.
- 8 Lumens on one piece self ballasted lamp systems are measured base up.
- 9 Best performance if operated base up and at 77°F (25°C) ambient temperature.
- 10 Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers. Do not use in wet locations.
- 11 Adapters rated at 40,000 hours life.
- 12 Amalgam products experience stable brightness over a wider temperature range and in various operating positions.
- 13 Life ratings are based on operating the lamp at 3hrs. per start on a rapid start type ballast. Life rating on a preheat or instant start ballast is 25% lower.
- 14 Use only on 120V, 60Hz circuits. Do not use on with photocells or timers. Do not use in wet locations.
- 15 These lamps are only recommended for use with single lamp ballasts or parallel wired 2-lamp ballasts.
- 16 UL Listed for wet locations. Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers.
- 17 Max. bulb wall temperature not to exceed 180°C. Consult GE sales representative for further information.



WARNING AND CAUTION NOTICES

151

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

152

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

153

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

Lamp may shatter and cause injury if broken

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154

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

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- Remove and install by grasping only plastic portion of the lamp

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safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, in totally enclosed recessed fixtures, or with dimmers

155

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

Lamp may shatter and cause injury if broken

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156

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

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157

⚠ CAUTION

Risk of electric shock

- Do not open - no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.



WARNING AND CAUTION NOTICES (CONTINUED)

158

▲ CAUTION

Risk of electric shock

- Do not open - no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

159

▲ CAUTION

Risk of electric shock

- Do not open - no user serviceable parts inside
- Do not use in wet locations
- Use indoors only

Risk of fire

- Do not use this adapter on dimmers, electronic timers, or photocells

Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width and which are provided with lamp shades. Not intended for use with emergency exit fixtures or lights.

160

▲ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product may cause interference to radio equipment operating in the frequency range of 2.2 - 2.8 MHz. Avoid placing this product near these devices. To reduce the possibility of radio interference to maritime safety communications, this device should not be installed:

- 1) On board cargo vessels of more than 300 tons
- 2) On board cargo vessels carrying more than 12 passengers for hire
- 3) At any medium frequency public coast station

Further, installation is not recommended on board vessels equipped with medium frequency, single sideband marine radios. If interference occurs, move this product away from the device or plug either into a different outlet. Such interference complaints should be reported to: Application Solutions at General Electric Company, 1975 Noble Road, Cleveland, Ohio 44112, or call toll free (800) 435-4448 from 8:00 am to 6:00 pm EST.

Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

161

▲ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers. Use only with portable lamps which are provided with lamp shades.

162

▲ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers. Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width. Use only with portable lamps which are provided with lamp shades.

163

▲ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width or with portable lamps which are provided with lamp shades. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers.

164

▲ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, in totally enclosed recessed fixtures, or with dimmers. Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width. Use only with portable lamps which are provided with lamp shades.

165

▲ CAUTION

Risk of electric shock

- Do not open - no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells or in totally enclosed recessed fixtures.

166

▲ CAUTION

Risk of electric shock

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.



Compact Fluorescent Lamps

CFL CROSS REFERENCE

| GE Description | Generic Description | Osram/Sylvania Description | Philips Description |
|--------------------------------|---|----------------------------|---------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | | |
| LOW WATTAGE BIAx® 2-PIN | | | |
| F5BX/SPX27 | CFT5W/G23/827 | CF5DS/827 | PL-S 5W/827 |
| F5BX/SPX41 | CFT5W/G23/841 | CFDS/841 | — |
| F7BX/SPX27 | CFT7W/G23/827 | CF7DS/827 | PL-S 7W/827 |
| F7BX/SPX35 | CFT7W/G23/835 | CF7DS/835 | PL-S 7W/835 |
| F7BX/SPX41 | CFT7W/G23/841 | CF7DS/841 | PL-S 7W/841 |
| F9BX/SPX27 | CFT9W/G23/827 | CF9DS/827 | PL-S 9W/827 |
| F9BX/SPX35 | CFT9W/G23/835 | CF9DS/835 | PL-S 9W/835 |
| F9BX/SPX41 | CFT9W/G23/841 | CF9DS/841 | PL-S 9W/841 |
| F13BX/SPX27 | CFT13W/G23/827 | CF13DS/827 | PL-S 13W/827 |
| F13BX/SPX30 | CFT13W/G23/830 | CF13DS/830 | PL-S 13W/830 |
| F13BX/SPX35 | CFT13W/G23/835 | CF13DS/835 | PL-S 13W/835 |
| F13BX/SPX41 | CFT13W/G23/841 | CF13DS/841 | PL-S 13W/841 |
| F13BX/SPX50 | CFT13W/G23/850 | CF13DS/850 | PL-S 13W/850 |
| F13BX/E/827 | CFT13W/G23/827 | — | — |
| F13BX/E/830 | CFT13W/G23/830 | — | — |
| F13BX/E/835 | CFT13W/G23/835 | — | — |
| F13BX/E/841 | CFT13W/G23/841 | — | — |
| F13BX/E/850 | CFT13W/G23/850 | — | — |
| HIGH LUMEN BIAx® | | | |
| F18BX/SPX30 | FT18W/2G11/830 | FT18DL/830 | PL-L 18W/830 |
| F18BX/SPX35 | FT18W/2G11/835 | FT18DL/835 | PL-L 18W/835 |
| F18BX/SPX41 | FT18W/2G11/841 | FT18DL/841 | PL-L 18W/841 |
| F18BX/SPX30/RS | FT18W/2G11/RS/830 | FT18DL/830/RS | PL-L 18W/830 |
| F18BX/SPX35/RS | FT18W/2G11/RS/835 | FT18DL/835/RS | PL-L 18W/835 |
| F18BX/SPX41/RS | FT18W/2G11/RS/841 | FT18DL/841/RS | PL-L 18W/841 |
| F18BX/SPX65/RS | FT18W/2G11/RS/865 | — | — |
| F27BX/SPX3/RS | FT24W/2G11/830 | FT24DL/830 | PL-L 24W/830 |
| F27BX/SPX35/RS | FT24W/2G11/835 | FT24DL/835 | PL-L 24W/835 |
| F27BX/SPX41/RS | FT24W/2G11/841 | FT24DL/841 | PL-L 24W/841 |
| F39BX/SPX3/RS | FT36W/2G11/830 | FT36DL/830 | PL-L 36W/830 |
| F39BX/SPX3/RS | FT36W/2G11/835 | FT36DL/835 | PL-L 36W/835 |
| F39BX/SPX3/RS | FT36W/2G11/841 | FT36DL/841 | PL-L 36W/841 |
| F40/30BX/SPX30 | FT40W/2G11/RS/830 | FT40DL/830/RS | PL-L 40W/830/RS/IS |
| F40/30BX/SPX35 | FT40W/2G11/RS/835 | FT40DL/835/RS | PL-L 40W/835/RS/IS |
| F40/30BX/SPX41 | FT40W/2G11/RS/841 | FT40DL/841/RS | PL-L 40W/841/RS/IS |
| F40/30BX/SPX50/RS | FT40W/2G11/RS/850 | — | — |
| F50/30BX/SPX30/RS | FT50W/2G11/RS/830 | — | PL-L 50W/830/RS |
| F50/30BX/SPX35/RS | FT50W/2G11/RS/835 | — | PL-L 50W/835/RS |
| F50/30BX/SPX41/RS | FT50W/2G11/RS/841 | — | PL-L 50W/841/RS |
| F55BX/830 | FT55W/2G11/RS/830 | FT55DL/830 | — |
| F55BX/835 | FT55W/2G11/RS/835 | FT55DL/835 | — |
| F55BX/841 | FT55W/2G11/RS/841 | FT55DL/841 | — |

| GE Description | Generic Description | Osram/Sylvania Description | Philips Description |
|---------------------------|---|----------------------------|---------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | | |
| DOUBLE BIAx® 2-PIN | | | |
| F9DBX23T4/SPX27 | CFQ9W/G23/827 | CF9DD/827 | — |
| F9DBX23T4/841 | CFQ9W/G23/841 | — | — |
| F13DBX23T4/SPX27 | CFQ13W/GX23/827 | CF13DD/827 | PL-C 13W/827/USA |
| F13DBX23T4/SPX30 | CFQ13W/GX23/830 | CF13DD/830 | PL-C 13W/830/USA |
| F13DBX23T4/SPX35 | CFQ13W/GX23/835 | CF13DD/835 | PL-C 13W/835/USA |
| F13DBX23T4/SPX41 | CFQ13W/GX23/841 | CF13DD/841 | PL-C 13W/841/USA |
| F13DBXT4/SPX27 | CFQ13W/G24d/827 | — | PL-C 13W/827 |
| F13DBXT4/SPX30 | CFQ13W/G24d/830 | — | PL-C 13W/830 |
| F13DBXT4/SPX35 | CFQ13W/G24d/835 | — | — |
| F13DBXT4/SPX41 | CFQ13W/G24d/841 | — | — |
| F18DBXT4/SPX27 | CFQ18W/G24d/827 | CF18DD/827 | PL-C 18W/827 |
| F18DBXT4/SPX30 | CFQ18W/G24d/830 | CF18DD/830 | PL-C 18W/830 |
| F18DBXT4/SPX35 | CFQ18W/G24d/835 | CF18DD/835 | PL-C 18W/835 |
| F18DBXT4/SPX41 | CFQ18W/G24d/841 | CF18DD/841 | PL-C 18W/841 |
| F26DBXT4/SPX27 | CFQ26W/G24d/827 | CF26DD/827 | PL-C 26W/827 |
| F26DBXT4/SPX30 | CFQ26W/G24d/830 | CF26DD/830 | PL-C 26W/830 |
| F26DBXT4/SPX35 | CFQ26W/G24d/835 | CF26DD/835 | PL-C 26W/835 |
| F26DBXT4/SPX41 | CFQ26W/G24d/841 | CF26DD/841 | PL-C 26W/841 |
| F26DBX/E/827 | CFQ26W/G24d/827 | — | — |
| F26DBX/E/830 | CFQ26W/G24d/830 | — | — |
| F26DBX/E/835 | CFQ26W/G24d/835 | — | — |
| F26DBX/E/841 | CFQ26W/G24d/841 | — | — |
| DOUBLE BIAx® 4-PIN | | | |
| F13DBX/SPX27/4P | CFQ13W/G24q/827 | CF13DD/E/827 | PL-C 13W/827/4P |
| F13DBX/SPX30/4P | CFQ13W/G24q/830 | CF13DD/E/830 | PL-C 13W/830/4P |
| F13DBX/SPX35/4P | CFQ13W/G24q/835 | CF13DD/E/835 | PL-C 13W/835/4P |
| F13DBX/SPX41/4P | CFQ13W/G24q/841 | CF13DD/E/841 | PL-C 13W/841/4P |
| F18DBX/SPX27/4P | CFQ18W/G24q/827 | CF18DD/E/827 | PL-C 18W/827/4P |
| F18DBX/SPX30/4P | CFQ18W/G24q/830 | CF18DD/E/830 | PL-C 18W/830/4P |
| F18DBX/SPX35/4P | CFQ18W/G24q/835 | CF18DD/E/835 | PL-C 18W/835/4P |
| F18DBX/SPX41/4P | CFQ18W/G24q/841 | CF18DD/E/841 | PL-C 18W/841/4P |
| F26DBX/SPX27/4P | CFQ26W/G24q/827 | CF26DD/E/827 | PL-C 26W/827/4P |
| F26DBX/SPX30/4P | CFQ26W/G24q/830 | CF26DD/E/830 | PL-C 26W/830/4P |
| F26DBX/SPX35/4P | CFQ26W/G24q/835 | CF26DD/E/835 | PL-C 26W/835/4P |
| F26DBX/SPX41/4P | CFQ26W/G24q/841 | CF26DD/E/841 | PL-C 26W/841/4P |



CFL CROSS REFERENCE

| <i>GE Description</i> | <i>Generic Description</i> | <i>Osram/Sylvania Description</i> | <i>Philips Description</i> |
|--------------------------------|---|-----------------------------------|----------------------------|
| ORDER THIS GE LAMP | IF YOU CURRENTLY USE THESE LAMPS | | |
| TRIPLE BIAx® 4-PIN | | | |
| F13TBX/SPX27/A/4P | CFTR13W/GX24q/827 | CF13DT/E/827 | — |
| F13TBX/SPX27/A/4P | CFTR13W/GX24q/830 | CF13DT/E/830 | — |
| F13TBX/SPX27/A/4P | CFTR13W/GX24q/835 | CF13DT/E/835 | — |
| F13TBX/SPX27/A/4P | CFTR13W/GX24q/841 | CF13DT/E/841 | — |
| F18TBX/SPX27/A/4P | CFTR18W/GX24q/827 | CF18DT/E/IN/827 | PL-T 18W/827/4P |
| F18TBX/SPX30/A/4P | CFTR18W/GX24q/830 | CF18DT/E/IN/830 | PL-T 18W/830/4P |
| F18TBX/SPX35/A/4P | CFTR18W/GX24q/835 | CF18DT/E/IN/835 | PL-T 18W/835/4P |
| F18TBX/SPX41/A/4P | CFTR18W/GX24q/841 | CF18DT/E/IN/841 | PL-T 18W/841/4P |
| F26TBX/SPX27/A/4P | CFTR26W/GX24q/827 | CF26DT/E/IN/827 | PL-T 26W/827/4P |
| F26TBX/SPX30/A/4P | CFTR26W/GX24q/830 | CF26DT/E/IN/830 | PL-T 26W/830/4P |
| F26TBX/SPX35/A/4P | CFTR26W/GX24q/835 | CF26DT/E/IN/835 | PL-T 26W/835/4P |
| F26TBX/SPX41/A/4P | CFTR26W/GX24q/841 | CF26DT/E/IN/841 | PL-T 26W/841/4P |
| F32TBX/SPX27/A/4P | CFTR32W/GX24q/827 | CF32DT/E/IN/827 | PL-T 32W/827/4P |
| F32TBX/SPX30/A/4P | CFTR32W/GX24q/830 | CF32DT/E/IN/830 | PL-T 32W/830/4P |
| F32TBX/SPX35/A/4P | CFTR32W/GX24q/835 | CF32DT/E/IN/835 | PL-T 32W/835/4P |
| F32TBX/SPX41/A/4P | CFTR32W/GX24q/841 | CF32DT/E/IN/841 | PL-T 32W/841/4P |
| F42TBX/827/A/4P/EOL | CFTR42W/GX24q/827 | CF42DT/E/IN/827 | PL-T 42W/827/4P |
| F42TBX/830/A/4P/EOL | CFTR42W/GX24q/830 | CF42DT/E/IN/830 | PL-T 42W/830/4P |
| F42TBX/835/A/4P/EOL | CFTR42W/GX24q/835 | CF42DT/E/IN/835 | PL-T 42W/835/4P |
| F42TBX/841/A/4P/EOL | CFTR42W/GX24q/841 | CF42DT/E/IN/841 | PL-T 42W/841/4P |
| HIGH OUTPUT BIAx® 4-PIN | | | |
| F57QBX/827/A/4P/EOL | CFM57W/GX24q/827 | CF57DT/E/IN/827 | — |
| F57QBX/830/A/4P/EOL | CFM57W/GX24q/830 | CF57DT/E/IN/830 | — |
| F57QBX/835/A/4P/EOL | CFM57W/GX24q/835 | CF57DT/E/IN/835 | — |
| F57QBX/841/A/4P/EOL | CFM57W/GX24q/841 | CF57DT/E/IN/841 | — |
| F57QBX/850/A/4P/EOL | CFM57W/GX24q/850 | CF57DT/E/IN/850 | — |
| F70QBX/827/A/4P/EOL | CFM70W/GX24q/827 | — | — |
| F70QBX/830/A/4P/EOL | CFM70W/GX24q/830 | — | — |
| F70QBX/835/A/4P/EOL | CFM70W/GX24q/835 | — | — |
| F70QBX/841/A/4P/EOL | CFM70W/GX24q/841 | — | — |
| F70QBX/850/A/4P/EOL | CFM70W/GX24q/850 | — | — |



GE ENHANCED PLUG-IN PRODUCT CONVERSION

| IF YOU USED TO ORDER GE PRODUCT: | | NOW ORDER GE PRODUCT: | | IF YOU USED TO ORDER GE PRODUCT: | | NOW ORDER GE PRODUCT: | |
|----------------------------------|------------------|-----------------------|------------------|----------------------------------|---------------------|-----------------------|------------------|
| PC | PC Description | New PC | New Description | PC | PC Description | New PC | New Description |
| 37654 | F5BX/SPX27/827 | 97551 | F5BX/827/ECO | 12870 | F18DBX/SPX41/4P | 97601 | F18DBX/841/ECO4P |
| 13575 | F5BX/SPX27/CD | 97552 | F5BX/827/CDECO | 46290 | F26DBX/E/827 | 97602 | F26DBX/E/827/ECO |
| 37661 | F5BX/SPX41/840 | 97553 | F5BX/841/ECO | 46291 | F26DBX/E/830 | 97603 | F26DBX/E/830/ECO |
| 37846 | F7BX/SPX27/827 | 97554 | F7BX/827/ECO | 46292 | F26DBX/E/835 | 97604 | F26DBX/E/835/ECO |
| 13576 | F7BX/SPX27/CD | 97555 | F7BX/827/CDECO | 46294 | F26DBX/E/841 | 97605 | F26DBX/E/841/ECO |
| 37659 | F7BX/SPX35/835 | 97556 | F7BX/835/ECO | 35250 | F26DBXT4/SPX27 | 97606 | F26DBX/827/ECO |
| 37660 | F7BX/SPX41/840 | 97557 | F7BX/841/ECO | 35237 | F26DBXT4/SPX30 | 97607 | F26DBX/830/ECO |
| 37651 | F9BX/SPX27/827 | 97558 | F9BX/827/ECO | 35251 | F26DBXT4/SPX35 | 97608 | F26DBX/835/ECO |
| 13577 | F9BX/SPX27/CD | 97559 | F9BX/827/CDECO | 35252 | F26DBXT4/SPX41 | 97609 | F26DBX/841/ECO |
| 37652 | F9BX/SPX35/835 | 97560 | F9BX/835/ECO | 35247 | F26DBXT4SPX27/4P | 97610 | F26DBX/827/ECO4P |
| 37653 | F9BX/SPX41/840 | 97561 | F9BX/841/ECO | 35235 | F26DBXT4SPX30/4P | 97611 | F26DBX/830/ECO4P |
| 41645 | F13BX/E/827 | 97562 | F13BX/E/827/ECO | 35248 | F26DBXT4SPX35/4P | 97612 | F26DBX/835/ECO4P |
| 41646 | F13BX/E/830 | 97563 | F13BX/E/830/ECO | 35236 | F26DBXT4SPX41/4P | 97613 | F26DBX/841/ECO4P |
| 41649 | F13BX/E/835 | 97564 | F13BX/E/835/ECO | 34391 | F13TBX/SPX27/A/4 | 97619 | F13TBX/827/A/ECO |
| 41651 | F13BX/E/841 | 97565 | F13BX/E/841/ECO | 34395 | F13TBX/SPX30/A/4 | 97620 | F13TBX/830/A/ECO |
| 41652 | F13BX/E850 | 97566 | F13BX/E/850/ECO | 34400 | F13TBX/SPX35/A/4 | 97621 | F13TBX/835/A/ECO |
| 14583 | F13BX/SPX27/CD | 97567 | F13BX/827/CDECO | 34387 | F13TBX/SPX41/A/4 | 97622 | F13TBX/841/A/ECO |
| 41757 | F13BX/SPX35 100P | 97568 | F13BX/835 100P | 47696 | F13TBX827/4P/EOL | 97623 | F13TBX827/4P/ECO |
| 17048 | F13BX/SPX35/835 | 97569 | F13BX/835/ECO | 34392 | F18TBX/SPX27/A/4 | 97624 | F18TBX/827/A/ECO |
| 41758 | F13BX/SPX41 100P | 97570 | F13BX/841 100P | 34396 | F18TBX/SPX30/A/4 | 97625 | F18TBX/830/A/ECO |
| 20434 | F13BX/SPX41/840 | 97571 | F13BX/841/ECO | 34405 | F18TBX/SPX35/A/4 | 97626 | F18TBX/835/A/ECO |
| 11671 | F13BX/SPX50 | 97572 | F13BX/850/ECO | 34385 | F18TBX/SPX41/A/4 | 97627 | F18TBX/841/A/ECO |
| 14650 | F13BXSPX27/827 | 97573 | F13BX/827/ECO | 48869 | F18TBX827/4P/EOL | 97628 | F18TBX827/4P/ECO |
| 17612 | F13BXSPX30/830 | 97574 | F13BX/830/ECO | 34393 | F26TBX/SPX27/A/4 | 97614 | F26TBX/827/A/ECO |
| 42065 | F9DBX23T4/841 | 97575 | F9DBX23/841/ECO | 34397 | F26TBX/SPX30/A/4 | 97615 | F26TBX/830/A/ECO |
| 12409 | F9DBX23T4SPX27/8 | 97576 | F9DBX23/827/ECO | 34406 | F26TBX/SPX35/A/4 | 97616 | F26TBX/835/A/ECO |
| 13578 | F13DBX/SPX27/CD | 97585 | F13DBX/827/CD | 34381 | F26TBX/SPX41/A/4 | 97617 | F26TBX/841/A/ECO |
| 18844 | F13DBX23T4/SPX27 | 97586 | F13DBX23/827/ECO | 48870 | F26TBX827/4P/EOL | 97618 | F26TBX827/4P/ECO |
| 10574 | F13DBX23T4/SPX30 | 97587 | F13DBX23/830/ECO | 39377 | F32TBX/SPX27A/4P | 97629 | F32TBX/827/A/ECO |
| 18556 | F13DBX23T4/SPX35 | 97588 | F13DBX23/835/ECO | 39378 | F32TBX/SPX30A/4P | 97630 | F32TBX/830/A/ECO |
| 20531 | F13DBX23T4/SPX41 | 97589 | F13DBX23/841/ECO | 39379 | F32TBX/SPX35A/4P | 97631 | F32TBX/835/A/ECO |
| 18557 | F13DBXT4/SPX27 | 97590 | F13DBX/827/ECO | 39380 | F32TBX/SPX41A/4P | 97632 | F32TBX/841/A/ECO |
| 12956 | F13DBXT4/SPX30 | 97591 | F13DBX/830/ECO | 46312 | F42TBX827A4P/EOL | 97633 | F42TBX/827/A/ECO |
| 18559 | F13DBXT4/SPX35 | 97592 | F13DBX/835/ECO | 46313 | F42TBX830A4P/EOL | 97634 | F42TBX/830/A/ECO |
| 20532 | F13DBXT4/SPX41 | 97593 | F13DBX/841/ECO | 46314 | F42TBX835A4P/EOL | 97635 | F42TBX/835/A/ECO |
| 30035 | F13DBX/SPX27/4P | 97594 | F13DBX/827/ECO4P | 46315 | F42TBX841A4P/EOL | 97636 | F42TBX/841/A/ECO |
| 10580 | F13DBX/SPX30/4P | 97595 | F13DBX/830/ECO4P | 48861 | F57QBX/827/A/4P/EOL | 48861 | F57QBX/827/A/ECO |
| 30037 | F13DBX/SPX35/4P | 97596 | F13DBX/835/ECO4P | 48862 | F57QBX/830/A/4P/EOL | 48862 | F57QBX/830/A/ECO |
| 30038 | F13DBX/SPX41/4P | 97597 | F13DBX/841/ECO4P | 48863 | F57QBX/835/A/4P/EOL | 48863 | F57QBX/835/A/ECO |
| 12860 | F18DBXT4/SPX27 | 97577 | F18DBX/827/ECO | 48864 | F57QBX/841/A/4P/EOL | 48864 | F57QBX/841/A/ECO |
| 12861 | F18DBXT4/SPX30 | 97578 | F18DBX/830/ECO | 93404 | F57QBX/850/A/4P/EOL | 93404 | F57QBX/850/A/ECO |
| 12863 | F18DBXT4/SPX35 | 97579 | F18DBX/835/ECO | 48865 | F70QBX/827/A/4P/EOL | 48865 | F70QBX/827/A/ECO |
| 12864 | F18DBXT4/SPX41 | 97580 | F18DBX/841/ECO | 48866 | F70QBX/830/A/4P/EOL | 48866 | F70QBX/830/A/ECO |
| 12865 | F18DBX/SPX27/4P | 97598 | F18DBX/827/ECO4P | 48867 | F70QBX/835/A/4P/EOL | 48867 | F70QBX/835/A/ECO |
| 12866 | F18DBX/SPX30/4P | 97599 | F18DBX/830/ECO4P | 48868 | F70QBX/841/A/4P/EOL | 48868 | F70QBX/841/A/ECO |
| 12869 | F18DBX/SPX35/4P | 97600 | F18DBX/835/ECO4P | 93406 | F70QBX/850/A/4P/EOL | 93406 | F70QBX/850/A/ECO |



QUARTZLINE® TUNGSTEN HALOGEN 6-7

QUARTZLINE® TUNGSTEN HALOGEN HIGH VOLTAGE..... 6-8

CINEMA LAMPS

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| Fluorescent covRguard® Lamps..... | 6-9 |
| Fluorescent Biax® | 6-10 |

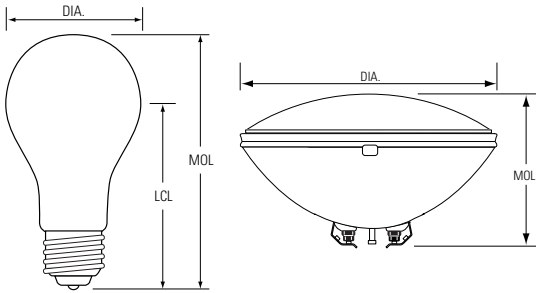
CSR METAL HALIDE LAMPS

| | |
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ANSI CODES..... 6-12



BULB IDENTIFICATION



DIA: Diameter of bulb at widest point.

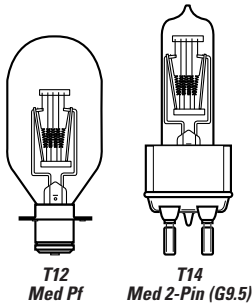
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

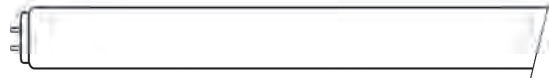
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. inches x 25.4 = millimeters).

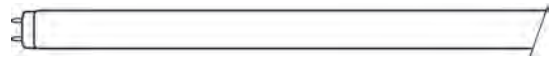
LAMP LOCATOR



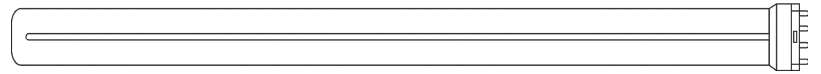
Incandescent Lamps



**T12
G13**

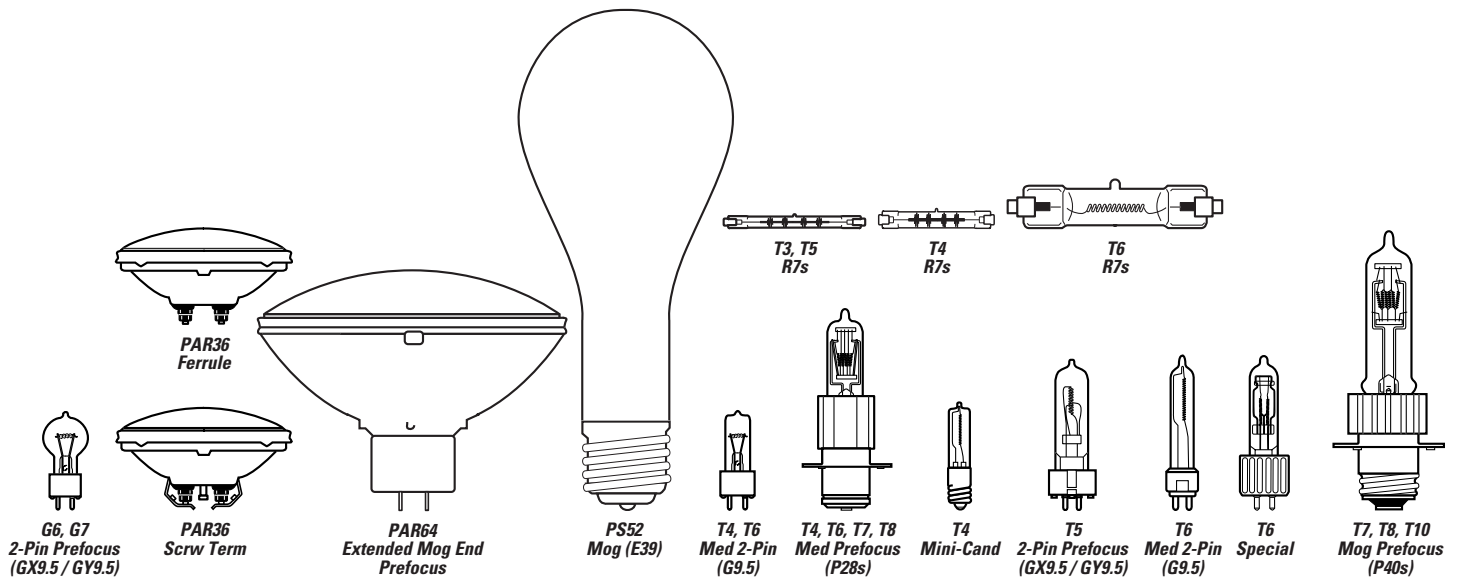


**T8
G13**

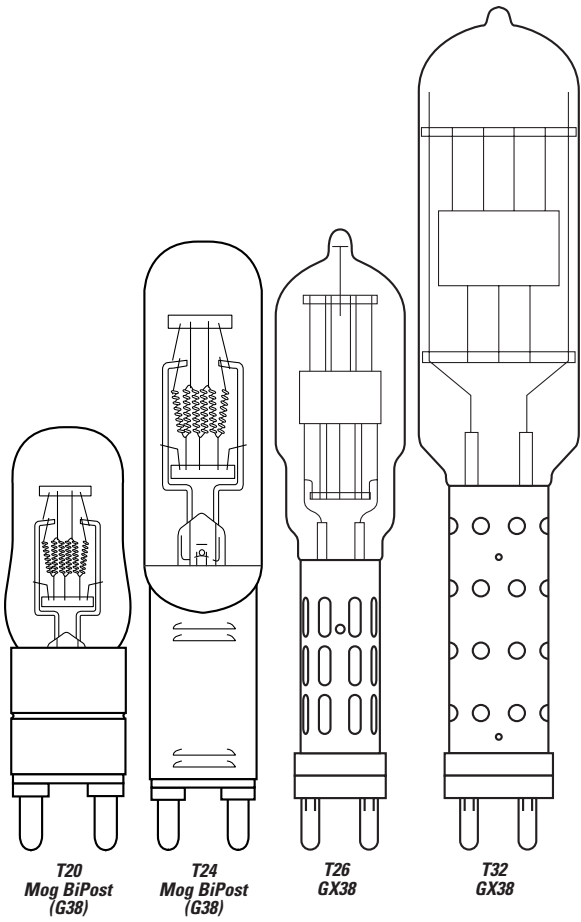


**Biax®
2G11**

Fluorescent Cinema Lamps



Quartzline® Tungsten Halogen

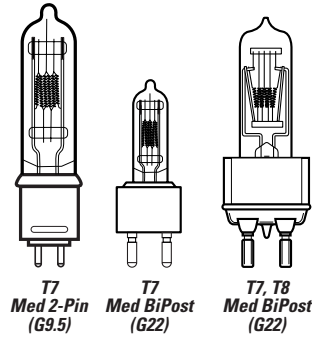


T20
Mog BiPost
(G38)

T24
Mog BiPost
(G38)

T26
GX38

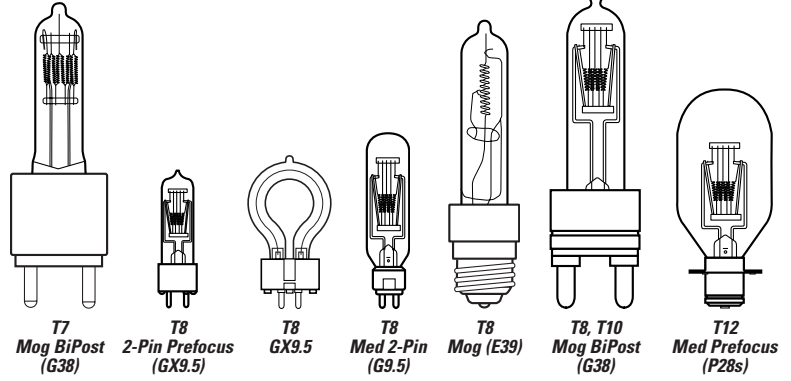
T32
GX38



T7
Med 2-Pin
(G9.5)

T7
Med BiPost
(G22)

T7, T8
Med BiPost
(G22)



T7
Mog BiPost
(G38)

T8
2-Pin Prefocus
(GX9.5)

T8
GX9.5

T8
Med 2-Pin
(G9.5)

T8
Mog (E39)

T8, T10
Mog BiPost
(G38)

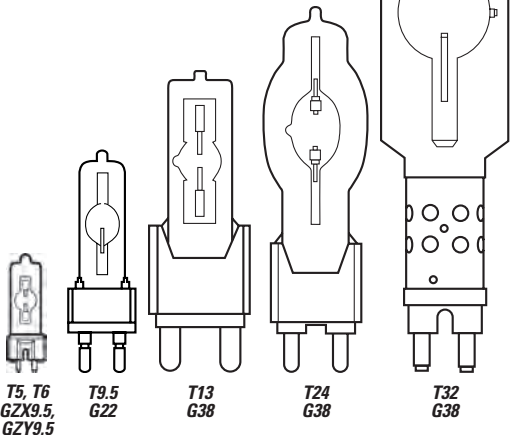
T12
Med Prefocus
(P28s)

Quartzline® Tungsten Halogen (Continued)



G7
GY9.5

Short Arc Discharge



T5, T6
GZX9.5,
GZY9.5

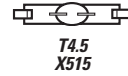
T9.5
G22

T13
G38

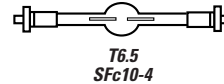
T24
G38

T32
G38

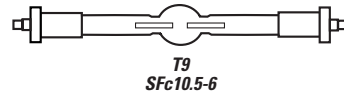
Single-Ended Hot Restrike



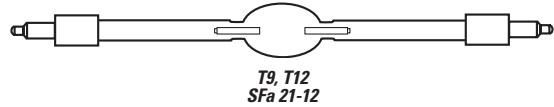
T4.5
X515



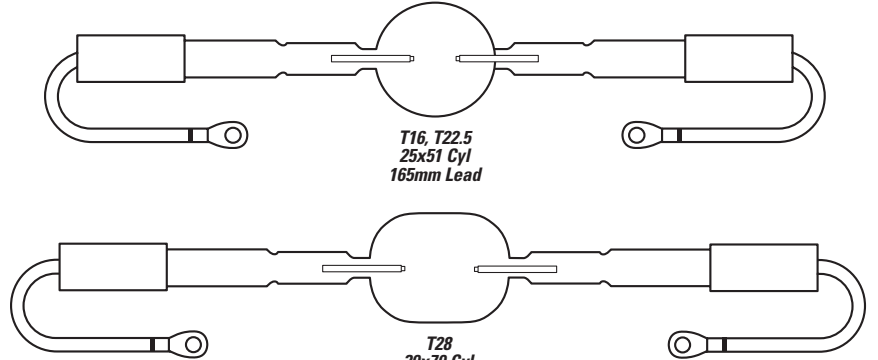
T6.5
SFc10-4



T9
SFc10.5-6



T9, T12
SFa 21-12



T16, T22.5
25x51 Cyl
165mm Lead

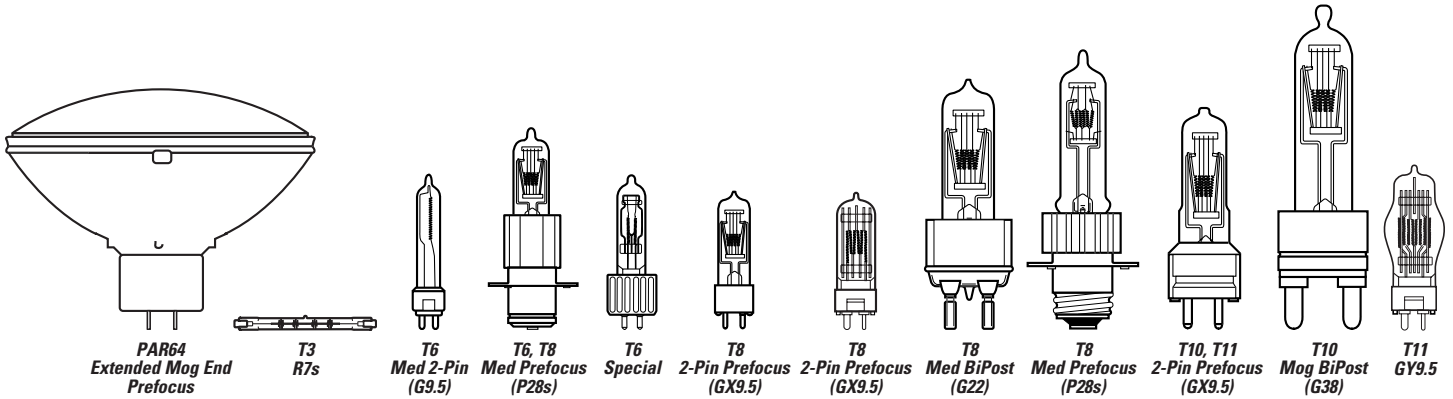
T28
30x70 Cyl
165mm Lead

Double-Ended Hot Restrike

CSR Metal Halide Lamps

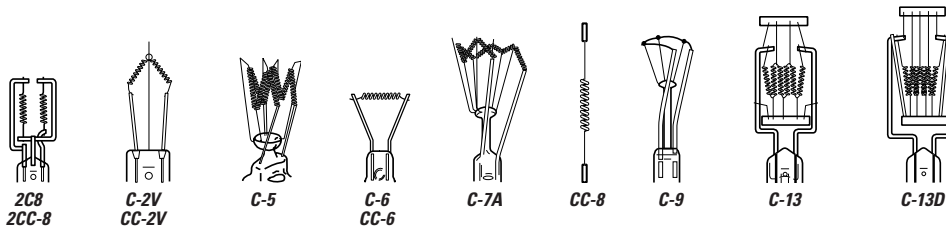


LAMP LOCATOR (CONTINUED)

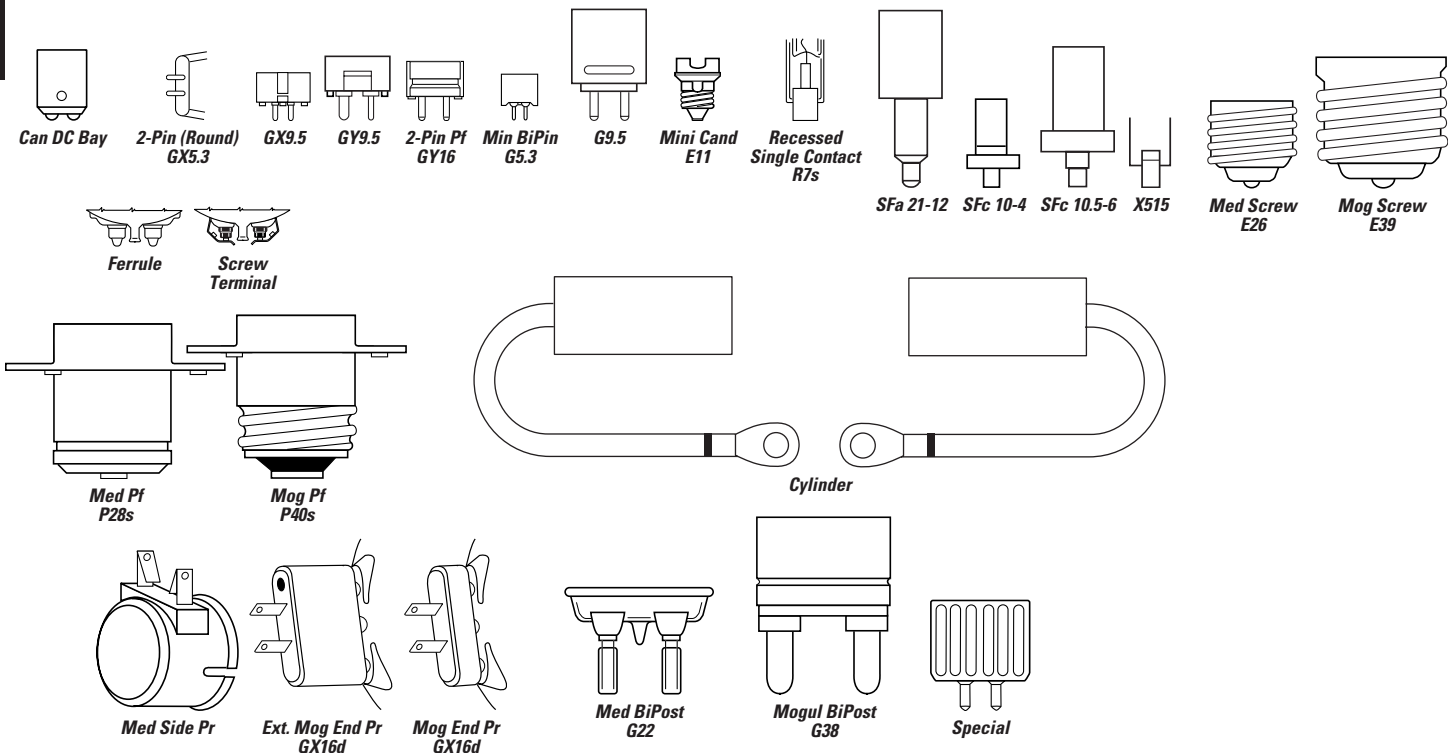


Quartzline® Tungsten Halogen High Voltage

FILAMENT IDENTIFICATION



BASE IDENTIFICATION





INTRODUCTION

GE has been a leading supplier to stage and studio users for many decades, and continues its pioneering work in the development of new and innovative light sources.

The primary change in recent years has been the migration from glass to quartz as the standard bulb material. The higher melting point of quartz enables bulb envelopes to be reduced in size and the halogen fillings to be run at higher pressures, leading to smaller, lighter, brighter, more energy-efficient and more reliable lamps.

GE's comprehensive range of single- and double-ended lamps is complemented by a group of PAR lamps, where the light source is enclosed in a sealed reflector unit.

GENERAL INFORMATION

OPERATIONAL CHARACTERISTICS

Quartz halogen lamps are designed to be operated within close voltage tolerances, and excessive voltage can lead to drastically shortened life, albeit with significantly higher light output.

A second important variable is temperature. The tungsten halogen cycle does not operate properly below about 482°F (250°C) and quartz may begin to devitrify above about 1832°F (1000°C). Bulb envelopes should therefore be held in the range 482-1472°F (250-800°C).

The contact pins are plated to ensure good electrical connection with the lampholder. However, at temperatures above 350°C, the plating may lose adhesion, leading to deterioration in contact and possibly local hot spots, arcing and consequent irreparable damage to both lamp and holder.

Note that if there is evidence that this has occurred, the lampholder should be replaced before the next lamp is fitted, otherwise it is likely to fail prematurely for the same reason.

Lamps normally fail by fusing of the filament. This is often followed by arcing, leading to very high currents which can cause the envelope and seals to fail and the lamp to shatter. A quick-acting, high-breaking capacity fuse should therefore be connected to the supply line in all applications. Suitable types are given in IEC 127, 241 and 269.

The beam patterns of PAR lamps range from very narrow spot to wide-angle floods. This ensures consistency from lamp to lamp, interchangeability to suit the beam pattern needs of the moment and instant replaceability without the need to refocus and re-aim fixtures.

The sealed beam design prolongs the life of the inner lamp as well as protecting it from dust, vapor and other hazards, thereby ensuring high lumen maintenance over the life of the lamp.

PAR lamps may be used with very simple, lightweight, economical fixtures.

CHROMISE SEAL PROTECTION

Many Quartzline® Stage/Studio lamps have a special chromised seal protection, which allows lamp seal temperatures up to 500° C (vs traditional 350° C), which increases life and reliability.



If the package does not have this seal, lamp base temperatures for Quartzline® lamps should not exceed 350°C because, above that point, lead wires in the sealing area will deteriorate, and base cement can loosen, both causing premature lamp failure. Note overvoltageing a lamp will increase the seal heat.

LAMP CODES

GE Stage & Studio lamps are coded as such:

Lamp Description. This may be either an American National Standards Institute (ANSI) three letter code such as EJJ, or a descriptive code in the general form Q750T3/4CL. ANSI codes are assigned to lamp specifications – mechanical, electrical and photometric characteristics – filed with the Institute.

They ensure interchangeability among similarly coded lamps from different manufacturers. Most of these lamps are rated for 120-volt operation. In a few cases a pair of ANSI codes are given (e.g. BFL/BFK), where the first is the official code for the lamp and the second code describes lamps the specifications of which are met or exceeded.

In such cases, the lamps may be used to replace lamps with either code.

Base designations conform to IEC standards.

PRODUCT INFORMATION

GE CSR/CSD METAL HALIDE LAMPS

New GE range of metal halide lamps for use in a variety of applications including TV and film, stage, concerts, photographic and large screen presentation and color simulation.

- Excellent color rendering $R_g > 90$
- Daylight color temperature, typically 6000K
- Universal burning position
- High efficiency up to 100 Lm/Watt
- Hot restrike and dimmable with stable color temperature
- Superior color stability
- Excellent lumen maintenance
- Use with electronic or AC magnetic ballast/ignitor control gear
- Applications include inside and outside TV and film production, stage, concerts, sporting events, photographic studios, overhead and large screen projection and color simulation.

GE CINEMA FLUORESCENT LAMPS

• High CRI (Color Rendering Index)... traditional fluorescent lamps have not been widely used in photography and film making because of relatively low CRI and the prominent green spike found in typical fluorescent phosphors. GE Lighting Cinema 32 and Cinema 55 lamps have corrected these deficiencies with products that now have a CRI of 95 (out of 100 max.) and colors that respond to the spectral sensitivity curves of film and electronic imaging media.

• Optional Shatter Resistance... GE Cinema 32 and 55 offer the option of GE's exclusive covRguard® shatter resistance that helps contain glass fragments if the lamps are broken. Reduce the possibility of glass related injuries to irreplaceable talent, damage to expensive sets, contamination of delicate equipment or missing critical deadlines because GE offers shatter resistance. GE's covRguard® process wraps the Cinema lamps in a full 15 ml thick casing of GE's exclusive Lexan™ polycarbonate that helps contain the glass, phosphor and chemicals if the lamp is broken. Unlike other shatter-resistant lamps, GE's covRguard® lamps require no assembly.



PRODUCT INFORMATION (CONTINUED)

- Superior Light Output... the GE covRguard® process offers maximum protection with minimal light loss... the lowest loss of initial light of other shielded products.
- Dependable UV Blocking... the GE covRguard® process also offers excellent UV blocking. CovRguard® blocks 98% of the UV that is normally transmitted from an unprotected fluorescent lamp — all UVC, all UVB and most of UVA. This is critical for protecting expensive sets and wardrobe from the fading effects of UV exposure.

- Chromaticity... the Cinema 32 has a chromaticity of X=.415 and Y=.377 with a CRI of 95. The Cinema 32 mixes well with both incandescent and quartz halogen light sources without color corrections. The Cinema 55 is a broad band spectrum daylight lamp with a chromaticity of X=.325 and Y=.321 and a CRI of 96. The Cinema 55 mixes well with ambient daylight and short arc discharge HID light sources without color corrections.

For more detailed information on all GE Stage and Studio lighting order "Showbiz®" 2005, PC 23766 from your GE sales representative.

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Stage/Studio lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.

| | | | | | | | | | | | |
|--|--|---|--|---|---|--|--|--|--|---|-----------------------------------|
| Watts: Energy used. To find actual energy used (kWh) multiply power (watts shown) x time divided by 1000. | Volts: Lamp data is based on operation at rated voltage. | Order Code: It is important to use this five-digit code when ordering to ensure that you receive the exact product you require. | Case Quantity: Number of product units packed in a case. | Color Temperature - Kelvins (K): A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears. | Approximate CBCP (Center Beam Candlepower): For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. | Filament Design: Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement. | MOL in.: Maximum Overall Length in inches. | LCL in.: Distance between the center of the filament and the Light Center Length reference plane, in inches. | Beam Spread: For reflector type lamps. The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% or 10% of the maximum value as indicated. | Rated Life - Hours: Lamp burning hours to median life expectancy. | Footnotes: See pg 6-12. |
| Shape: Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch). | Base: The type of base (ANSI). | LIF Code: These are assigned by the Lighting Federation of London, U.K. They ensure electrical and mechanical interchangeability of similarly coded lamps. LIF codes are divided into groups according to the primary application of the lamps. | Description: The lamp's identification code. | Lumens Initial: Initial light output. | | | | | | | |

| Watts | Shape | Base | Order Volts | LIF Code | Description | Case Qty. | Lumens Initial | Color Temp. K | Filament Design | MOL | | Beam Spread | | Rated Life Hours | Footnotes | |
|-------|-------|---------------|-------------|----------|-------------|-----------------|----------------|---------------|-----------------|------|------|-------------|-----------|------------------|-----------|-------|
| | | | | | | | | | | MOL | LCL | 10% Horiz. | 50% Vert. | | | |
| 500 | T6 | Med Pf (P28s) | 120 | 11966 | T17 | BTL-Q500T6/CL/P | 12 | 11000 | 3000 | C-13 | 5.25 | 2.18 | | | 500 | 3, 12 |

BTL- Q500 T6/CL/P

Identifies the lamp ANSI code.

Identifies the lamp's wattage.
Q=Quartz Halogen

Identifies the lamp shape and the bulb diameter in eighths of inches.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using tables on pages 6-2 – 6-4.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 6-4.
4. Find your lamp in the table containing the bulb shape, size and base.



Stage and Studio Lamps

| Watts | Shape | Base | Order Volts | LIF Code | Description | Case Qty. | Lumens Initial | CBCP | Color Temp. K | Filament Design | MOL | LCL | Beam Spread | | Rated Life Hours | Footnotes | | | |
|-------------------------------------|------------------|-------------------|----------------|---------------|-------------------|--------------|-------------------|------------------|---------------------|--------------------|------|------|---------------|--------------|------------------------|-----------|-----|------|----|
| | | | | | | | | | | | | | 10% Horiz. | 50% Vert. | | | | | |
| QUARTZLINE® TUNGSTEN HALOGEN | | | | | | | | | | | | | | | | | | | |
| 200 | T4 | Cand DC Bay BA15d | 120 14119 | | FEV-Q200/4CL/DC | 6 | 5500 | | 3200 | CC-2V | 2.43 | 1.37 | | | 50 | 12 | | | |
| 300 | T8 | 2-Pin Pf (GY9.5) | 120 39781 | CP81 | FKW-Q300T8 | 24 | 6900 | | 3200 | C-13 | 3.54 | 1.81 | | | 50 | 12 | | | |
| 350 | T2 | R7S | 120 20881 | | FDH/HIR-Q350T2/4 | 6 | 13250 | | 3200 | C-8 | 4.68 | | | | 400 | ↔ 2, 12 | | | |
| 375 | T6 | Special | 115 17608 | | HPL375/C 115V | 12 | 10540 | | 3250 | 4-C8 | 4.17 | 2.37 | | | 300 | 12 | | | |
| | | | 18189 | | HPL375/LL/C 115V | 12 | 8000 | | 3050 | 4-C8 | 4.17 | 2.37 | | | 1000 | 12 | | | |
| 420 | G7 | 2-Pin Pf (GY9.5) | 120 33934 | | EKB-Q420/4CL/2PP | 24 | 11000 | | 3200 | CC-6 | 2.5 | 1.43 | | | 75 | 12 | | | |
| 500 | T3 | R7S | 120 23735 | | FDH-Q500T3/4CL | 12 | 13250 | | 3200 | C-8 | 4.68 | | | | 400 | 2, 12 | | | |
| | | | 23734 | P2/31 | FDN-Q500T3/4 | 12 | 12800 | | 3200 | C-8 | 4.68 | | | | 400 | 2, 7, 12 | | | |
| T4 | Med Pf (P28s) | | 120 39135 | | EGE-Q500CL/P | 12 | 10450 | | 2950 | CC-8 | 6 | 3.5 | | | 2000 | 12 | | | |
| | | | 120 47950 | | EVR-Q500CL/MC | 6 | 10450 | | 2950 | CC-8 | 3.62 | 2 | | | 2000 | 8, 12 | | | |
| T6 | Med Pf (P28s) | | 120 11966 | T17 | BTL-Q500T6/CL/P | 12 | 11000 | | 3000 | C-13 | 5.25 | 2.18 | | | 500 | 3, 12 | | | |
| | | | 16465 | | BTM-Q500T64CL/2P | 12 | 13000 | | 3200 | C-13 | 5.25 | 2.18 | | | 150 | 3, 12 | | | |
| T7 | Med BiPost (G22) | | 120 30373 | | EGN-Q500T8 | 12 | 13000 | | 3200 | C-13 | 5.51 | 2.5 | | | 150 | 12 | | | |
| T6 | Med 2-Pin (G9.5) | | 120 39768 | | EHD-Q500CL/TP | 24 | 10000 | | 2900 | CC-8 | 4.1 | 2.37 | | | 2000 | 12 | | | |
| | | | 39789 | | EHC-Q500/5CL | 24 | 12700 | | 3150 | CC-8 | 4.1 | 2.37 | | | 500 | 12 | | | |
| T8 | 2-Pin Pf (GY9.5) | | 120 39623 | CP82 | FRG-Q500T8 | 24 | 13000 | | 3200 | C-13 | 3.54 | 1.81 | | | 150 | 3, 12 | | | |
| T4 | Med Pf (P28s) | | 120 39134 | | EGC-Q500/5CL/P | 12 | 12700 | | 3150 | CC-8 | 6 | 3.5 | | | 500 | 12 | | | |
| 525 | T3 | R7S | 120 20883 | | EJG/HIR-Q525T2 -1 | 6 | 20600 | | 3250 | C-8 | 4.68 | | | | 400 | ↔ 2, 12 | | | |
| 550 | T6 | Special | 115 17607 | | HPL550/C 77 V | 12 | 16170 | | 3250 | 4-C8 | 4.17 | 2.37 | | | 300 | 12 | | | |
| 575 | T6 | Med 2-Pin (G9.5) | 115 39730 | | FLK/LL-Q575T6 | 24 | 12800 | | 2950 | CC-8 | 4.1 | 2.37 | | | 1500 | 12 | | | |
| | | | 11450 | | FLK-Q575T6/4CL | 24 | 16500 | | 3200 | CC-8 | 4.1 | 2.37 | | | 300 | 12 | | | |
| | | | 93428 | | GLA-Q575T6/4CL | 24 | 13000 | | 3050 | C-13D | 4.1 | 2.37 | | | 1500 | 12 | | | |
| | | | 93429 | | GLC-Q575T6/5CL | 24 | 14500 | | 3200 | C-13D | 4.1 | 2.37 | | | 300 | 12 | | | |
| | | | 115 92431 | Special | | | | HPL575/C115V | 12 | 16500 | | 3200 | 4C-8 | 4.2 | 2.37 | | | 300 | 12 |
| | | | | | | 92434 | | HPL575/LL/C 115V | 12 | 12360 | | 3050 | 4C-8 | 4.2 | 2.37 | | | 1500 | 12 |
| | | | 120 92433 | | HPL575/C 120V | 12 | 16520 | | 3200 | 4C-8 | 4.2 | 2.37 | | | 300 | 12 | | | |
| | | | 120 92435 | | HPL575/LL/C 120V | 12 | 12360 | | 3050 | 4C-8 | 4.2 | 2.37 | | | 2000 | 12 | | | |
| 600 | T5 | 2-Pin Pf (GY9.5) | 120 30475 | | FMR-Q600T5 | 24 | 12600 | | 3050 | CC-8 | 3.4 | 2 | | | 2000 | 3, 12 | | | |
| 650 | G6 | 2-Pin Pf (GX9.5) | 120 34328 | | EKD-Q650/3CL/2PP | 24 | 20000 | | 3300 | CC-6 | 2.5 | 1.43 | | | 25 | 3, 12 | | | |
| | | | PAR36 | Ferrule | 120 41668 | | FAY-Q650PAR36/3D | 12 | 36000 | 5000 | C-7A | 2.75 | | | 25 | 15 | 30 | 13 | |
| | | | | | 41672 | | FCW-Q650PAR36/6 | 12 | 9000 | 3200 | C-7A | 2.75 | | | 60 | 55 | 100 | 13 | |
| | | | | | 41673 | | FCX-Q650PAR36/7 | 12 | 24000 | 3200 | C-7A | 2.75 | | | 40 | 30 | 100 | 13 | |
| | | | Screw Term | | 120 41667 | | DWE-Q650PAR36/1 | 12 | 24000 | 3200 | | 2.75 | | | 40 | 30 | 100 | 13 | |
| | | | | | 41669 | | FBE-Q650PAR36/5D | 12 | 36000 | 5000 | C-7A | 2.75 | | | 25 | 15 | 30 | 13 | |
| | | | 120 41671 | | FBO-Q650PAR36/5 | 12 | 67000 | 3400 | C-7A | 2.75 | | | 25 | 15 | 30 | 13 | | | |
| T3 | R7S | | 120 13895 | | FCM/HIR-Q650T3/4 | 6 | 25200 | | 3275 | C-8 | 4.68 | | | | 400 | ↔ 2, 12 | | | |
| T4 | R7S | | 120 30325 | P2/6 | FAD-Q650T4/4CL | 24 | 16500 | | 3200 | CC-8 | 3.13 | | | | 100 | 12 | | | |
| | | | 30343 | P2/6 | FBX-Q650T4/4 | 24 | 16500 | | 3200 | CC-8 | 3.13 | | | | 100 | 7, 12 | | | |
| T8 | 2-Pin Pf (GY9.5) | | 120 39637 | CP89 | FRK-Q650T8 | 24 | 16900 | | 3200 | C-13 | 3.54 | 1.81 | | | 200 | 3, 12 | | | |
| 675 | T3 | R7S | 120 20884 | | FFT/HIR-Q675T3/4 | 6 | 26400 | | 3250 | C-8 | 6.56 | | | | 400 | ↔ 2, 12 | | | |
| 750 | T3 | R7S | 120 23756 | | EJG-Q750T3/4CL | 12 | 20600 | | 3200 | C-8 | 4.68 | | | | 400 | 2, 12 | | | |
| | | | 23755 | | EMD-Q750T3/4 | 12 | 19500 | | 3200 | C-8 | 4.68 | | | | 400 | 2, 12 | | | |
| T6 | Med 2-Pin (G9.5) | | 120 39771 | | EHF-Q750/4CL | 24 | 20000 | | 3200 | CC-8 | 4.1 | 2.37 | | | 300 | 12 | | | |
| | | | 39770 | | EHG-Q750CL/TP | 24 | 15000 | | 3000 | CC-8 | 4.1 | 2.37 | | | 2000 | 12 | | | |
| | | | 92771 | | GLD-Q750T6/4CL | 24 | 19000 | | 3200 | C-13D | 4.1 | 2.37 | | | 300 | 12 | | | |
| | | | 92773 | | GLE-Q750T6/4CL | 24 | 17400 | | 3050 | C-13D | 4.1 | 2.37 | | | 1500 | 12 | | | |
| | | | 120 39136 | Med Pf (P28s) | | | | EGF-Q750/4CL/P | 12 | 20400 | | 3200 | CC-8 | 6 | 3.5 | | | 300 | 12 |
| | | | | | | 39137 | | EGG-Q750CL/P | 12 | 15750 | | 3000 | CC-8 | 6 | 3.5 | | | 2000 | 12 |
| Special | | | 115 92432 | | HPL750/C 115V | 12 | 22000 | | 3200 | 4-C-8 | 4.17 | 2.37 | | | 300 | 12 | | | |
| | | | 92770 | | HPL750/LL/C | 12 | 16400 | | 3050 | 4-C-8 | 4.17 | 2.37 | | | 1500 | 12 | | | |



Stage and Studio Lamps

| Watts | Shape | Base | Order Volts | LIF Code | Description | Case Qty. | Lumens Initial | Color Temp. K | Filament Design | MOL | LCL | Beam Spread | | | | Rated Life Hours | Footnotes |
|--|------------------|------------------|------------------|-----------------------|-----------------------|------------------|-------------------|---------------------|--------------------|-------|------|-------------|-----|--------|--------|------------------------|-----------|
| | | | | | | | | | | | | 10% | 50% | Horiz. | Vert. | | |
| QUARTZLINE® TUNGSTEN HALOGEN (CONTINUED) | | | | | | | | | | | | | | | | | |
| 750 | T7 | Med BiPost (G22) | 120 | 39190 | EGR-Q750T7/4CL | 12 | 21000 | 3200 | C-13D | 5 | 2.5 | | | | | 200 | 1, 3, 12 |
| | | Med Pf (P28s) | 120 | 11953 | BTN-Q750T7/CL/2P | 12 | 17600 | 3050 | C-13D | 4.75 | 2.18 | | | | | 500 | 1, 11, 12 |
| | | | | | 11954 | BTP-Q750T7/4CL2P | 12 | 21000 | 3200 | C-13D | 4.75 | 2.18 | | | | | 200 |
| | | Med 2-Pin (G9.5) | 120 | 39680 | BWM-Q750T7/4CLTP | 6 | 21000 | 3200 | C-13D | 4.5 | 2.37 | | | | | 200 | 1, 3, 12 |
| 1000 | PAR64 | ExMogEndPr | 120 | 13233 | FFN-Q1000PAR64/1 | 6 | 400000 | 3200 | C-7A | 6 | | 24 | 10 | 12 | 6 | 800 | 13 |
| | | | | 13229 | FFP-Q1000PAR64/2 | 6 | 330000 | 3200 | C-7A | 6 | | 26 | 14 | 14 | 7 | 800 | 13 |
| | | | | 13228 | FFR-Q1000PAR64/5 | 6 | 125000 | 3200 | C-7A | 6 | | 44 | 21 | 28 | 12 | 800 | 13 |
| | | | | 13227 | FFS-Q1000PAR64/6 | 6 | 40000 | 3200 | C-7A | 6 | | 71 | 45 | 48 | 24 | 800 | 13 |
| | | | | 13226 | FGM-Q1000PAR64/3 | 6 | 200000 | 5200 | C-7A | 6 | | 24 | 12 | 13 | 6 | 200 | 13 |
| | | | | 13225 | FGN-Q1000PAR647D | 6 | 70000 | 5200 | C-7A | 6 | | 43 | 20 | 27 | 11 | 200 | 13 |
| PS52 | Mog (E39) | 120 | 39582 | DKZ/DSE-Q1000PS5 | 12 | 28000 | 3200 | CC-8 | 13 | 9.5 | | | | | 750 | 1, 13 | |
| ED37 | Mog (E39) | 120 | 34377 | DSE/Q1000 | 10 | 28000 | 3200 | CC-8 | 13 | 9.5 | | | | | 750 | 1, 13 | |
| T3 | R7S | 120 | 23797 | P2/28 FCM-Q1000T3/4CL | 12 | 28000 | 3200 | C-8 | 4.68 | | | | | | 400 | 2, 12 | |
| | | | 33280 | FFT-Q1000T3/1CL | 12 | 26400 | 3200 | C-8 | 6.56 | | | | | | 400 | 2, 12 | |
| | | | 23792 | P2/29 FHM-Q1000T3/4 | 12 | 27300 | 3200 | C-8 | 4.68 | | | | | | 400 | 2, 7, 12 | |
| | 185 | 23788 | EJD-Q1000T3/3CL | 12 | 33600 | 3350 | C-8 | 4.68 | | | | | | 100 | 2, 12 | | |
| T5 | R7S | 120 | 30157 | DXW-Q1000T5/4CL | 24 | 28000 | 3200 | CC-8 | 3.75 | | | | | | 150 | 12 | |
| | | | 30374 | FBY-Q1000T5/4 | 24 | 26000 | 3200 | CC-8 | 3.75 | | | | | | 150 | 7, 12 | |
| T6 | Med 2-Pin (G9.5) | 120 | 39769 | CP77 FEL-Q1000/4CL | 24 | 27500 | 3200 | CC-8 | 4.1 | 2.37 | | | | | 300 | 10, 12 | |
| | | Med Pf (P28s) | 120 | 38853 | EGJ-Q1000/4CL/P | 12 | 27500 | 3200 | CC-8 | 6 | 3.5 | | | | 300 | 12 | |
| | | 38852 | EGK-Q1000/4/P | 12 | 26500 | 3200 | CC-8 | 6 | 3.5 | | | | | 300 | 12 | | |
| | | 39138 | EGM-Q1000CL/P | 12 | 21500 | 3000 | CC-8 | 6 | 3.5 | | | | | 2000 | 12 | | |
| | R7S | 120 | 33760 | FER-Q1000T6/4CL | 6 | 27500 | 3200 | CC-8 | 5.62 | | | | | 500 | 12 | | |
| | Med 2-Pin (G9.5) | 120 | 35853 | FCV-Q1000/4 | 6 | 26500 | 3200 | CC-8 | 4.1 | 2.37 | | | | 375 | 10, 12 | | |
| T7 | Med 2-Pin (G9.5) | 120 | 39792 | BWN-Q1000T7/4CL | 24 | 28500 | 3200 | C-13D | 4.5 | 2.37 | | | | | 250 | 1, 3, 12 | |
| | Med Pf (P28s) | 120 | 11955 | BTR-Q1000T74CL2P | 12 | 28500 | 3200 | C-13D | 4.75 | 2.18 | | | | | 250 | 1, 12 | |
| | Med BiPost (G22) | 120 | 39191 | EGT-Q1000T7/4CL | 12 | 28500 | 3200 | C-13D | 5 | 2.5 | | | | | 250 | 1, 3, 12 | |
| | Mog BiPost (G38) | 120 | 42697 | CYVQ1000T7/4CLBP | 6 | 28500 | 3200 | C-13D | 8 | 5 | | | | | 200 | 1, 3, 12 | |
| | Mog Pf (P40s) | 120 | 12554 | BVT-Q1MT7/CL/MP | 6 | 24500 | 3050 | C-13D | 7.25 | 3.93 | | | | | 500 | 1, 3, 12 | |
| | | 12553 | BVV-Q1MT7/4CL/MP | 6 | 28500 | 3200 | C-13D | 7.25 | 3.93 | | | | | | 200 | 1, 3, 12 | |
| 1200 | PAR64 | ExMogEndPr | 120 | 34812 | GFA-Q1200PAR64/5 | 6 | 160000 | 3200 | C-7A | 6 | | 22 | 36 | 13 | 24 | 400 | 13 |
| | | | | 34810 | GFB-Q1200PAR64/2 | 6 | 450000 | 3200 | C-7A | 6 | | 16 | 18 | 8 | 10 | 400 | 13 |
| | | | | 34808 | GFC-Q1200PAR64/1 | 6 | 540000 | 3200 | C-7A | 6 | | 14 | 16 | 8 | 10 | 400 | 13 |
| 1500 | PS52 | Mog (E39) | 120 | 40357 | DKX/DSFQ1500PS52 | 12 | 41000 | 3200 | C-8 | 13 | | | | | 1000 | 1, 13 | |
| | ED37 | Mog (E39) | 120 | 34378 | DSF/Q1500 | 10 | 41000 | 3200 | C-8 | 13 | | | | | 1000 | 1, 13 | |
| T4 | R7S | 120 | 23841 | FDB-Q1500T4/4CL | 12 | 41250 | 3200 | C-8 | 6.56 | | | | | | 400 | 2, 12 | |
| | | | 41229 | FGT-Q1500T4/4 | 12 | 40200 | 3200 | C-8 | 6.56 | | | | | | 400 | 2, 7, 12 | |
| T8 | Mog Pf (P40s) | 120 | 30522 | DTA-Q1500T8/4CL | 6 | 41000 | 3200 | C-13D | 7.87 | 3.43 | | | | | 300 | 3, 12 | |
| T10 | Mog BiPost (G38) | 120 | 37564 | CXZ-Q1500T10/4CL | 6 | 44500 | 3200 | C-13 | 8.5 | 5 | | | | | 400 | 1, 3, 12 | |
| 2000 | T10 | R7S | 120 | 39790 | P2/27 FEY-Q2000T8/4CL | 12 | 57000 | 3200 | CC-8 | 5.62 | | | | | 400 | 2, 12 | |
| | T8 | Mog (E39) | 120 | 37086 | BWF-Q2000/4CL | 6 | 54000 | 3200 | CC-8 | 7.5 | 5.25 | | | | | 500 | 12 |
| | | Mog BiPost (G38) | 120 | 39587 | BWA-Q2000/4CL/BP | 6 | 54000 | 3200 | CC-8 | 8.25 | 5 | | | | | 500 | 3, 12 |
| T10 | Mog BiPost (G38) | 120 | 36636 | CYX-Q2000T10/4CL | 6 | 59000 | 3200 | C-13 | 8.5 | 5 | | | | | 350 | 1, 3, 12 | |
| | Mog Pf (P40s) | 120 | 12555 | CP53 BVWQ2MT10/4CL/MP | 6 | 59000 | 3200 | C-13 | 8.46 | 3.93 | | | | | 350 | 3, 12 | |
| 5000 | T20 | Mog BiPost (G38) | 120 | 41736 | CP29 DPY-Q5000T20/4CL | 6 | 143000 | 3200 | C-13 | 11 | 6.5 | | | | 500 | 1, 4, 12 | |
| 10000 | T24 | Mog BiPost (G38) | 120 | 24886 | DTY-Q10M/T24/4CL | 4 | 290000 | 3200 | C-13 | 15.75 | 10 | | | | 300 | 1, 4, 12 | |
| 12000 | T26 | GX38 | 120 | 48770 | Q12MT26/4CL 120V | 1 | 420000 | 3400 | C-13 | 16.14 | 10 | | | | 150 | 4, 12 | |
| QUARTZLINE® TUNGSTEN HALOGEN HIGH VOLTAGE | | | | | | | | | | | | | | | | | |
| 575 | T6 | Special | 230 | 37128 | HPL575 | 12 | 14900 | 3200 | 6C-8 | 4.2 | 2.37 | | | | 300 | 12 | |
| | | | | 37817 | HPL575/LL 230V | 12 | 11780 | 3050 | 6C-8 | 4.2 | 2.37 | | | | | 1500 | 12 |



| Watts | Shape | Base | Order Volts | LIF Code | Description | Case Qty. | Lumens Initial | CBCP | Color Temp. K | Filament Design | MOL | LCL | Beam Spread | | | | Rated Life Hours | Footnotes |
|--|-------|------------------|----------------|-------------|----------------------|--------------|-------------------|------|---------------------|--------------------|-------|-------|---------------|--------------|---------------|--------------|------------------------|-----------|
| | | | | | | | | | | | | | 10% Horiz. | 50% Vert. | 10% Horiz. | 50% Vert. | | |
| QUARTZLINE® TUNGSTEN HALOGEN HIGH VOLTAGE (CONTINUED) | | | | | | | | | | | | | | | | | | |
| 600 | T6 | Med 2-Pin (G9.5) | 230 | 39739 | GKV-Q575T6/4CL | 24 | 14000 | | 3200 | C-13 | 4.1 | 2.37 | | | | | 250 | 12 |
| 750 | T6 | Special | 230 | 37824 | HPL750 | 12 | 19750 | | 3200 | 6C-8 | 4.2 | 2.37 | | | | | 300 | 12 |
| 1000 | T6 | Med 2-Pin (G9.5) | 230 | 39738 | CP77 FEP-Q1000T6/4CL | 24 | 25000 | | 3200 | CC-8 | 4.1 | 2.37 | | | | | 300 | 12 |
| | PAR64 | ExMogEndPr | 240 | 10925 | EXC-Q1MPAR64CP60 | 6 | 352000 | | 3200 | C-7A | 6 | | 20 | 17 | 12 | 9 | 300 | 13 |
| | | | | 10929 | EXD-Q1MPAR64CP61 | 6 | 297000 | | 3200 | C-7A | 6 | | 22 | 20 | 14 | 10 | 300 | 13 |
| | | | | 10931 | EXE-Q1MPAR64CP62 | 6 | 138000 | | 3200 | C-7A | 6 | | 38 | 20 | 24 | 11 | 300 | 13 |
| 2000 | T10 | R7S | 230 | 35338 | P2/27 FEX-Q2MT8/4CL | 12 | 50000 | | 3200 | CC-8 | 5.62 | | | | | | 300 | 2, 12 |
| 12000 | T26 | GX38 | 230 | 48771 | Q12MT26/4CL 230V | 1 | 420000 | | 3400 | C-13 | 16.14 | 10 | | | | | 130 | 4, 12 |
| | | | 240 | 48779 | Q12MT264/CL 240V | 1 | 420000 | | 3400 | C-13 | 16.14 | 10 | | | | | 130 | 4, 12 |
| 20000 | T32 | GX38 | 208 | 48772 | BCM Q20MT32/4CL | 1 | 580000 | | 3200 | C-13 | 22.05 | 13.94 | | | | | 400 | 4, 12 |
| | | | 220 | 48773 | BCM Q20MT32/4CL | 1 | 580000 | | 3200 | C-13 | 22.05 | 13.94 | | | | | 400 | 4, 12 |
| | | | 240 | 48774 | BCM Q20MT32/4CL | 1 | 580000 | | 3200 | C-13 | 22.05 | 13.94 | | | | | 400 | 4, 12 |
| 24000 | T32 | GX38 | 220 | 48776 | Q24MT32/4CL 220V | 1 | 800000 | | 3400 | C-13 | 22.05 | 13.94 | | | | | 150 | 4, 12 |
| | | | 240 | 48777 | Q24MT32/4CL 240V | 1 | 800000 | | 3400 | C-13 | 22.05 | 13.94 | | | | | 150 | 4, 12 |

CINEMA LAMPS

FLUORESCENT LAMPS

| | | | | | | | | | | | | | | | | | | |
|-----|-----|--------------------|-------|--------------------|----|------|--|------|--|----|--|--|--|--|--|--|-------|--|
| 15 | T8 | Medium BiPin (G13) | 15722 | F15T8/CINEMA32 | 24 | 720 | | 3200 | | 18 | | | | | | | 8000 | |
| | | | 15723 | F15T8/CINEMA55 | 24 | 700 | | 5500 | | 18 | | | | | | | 8000 | |
| 17 | T8 | Medium BiPin (G13) | 15724 | F17T8/CINEMA32 | 24 | 800 | | 3200 | | 24 | | | | | | | 20000 | |
| | | | 15725 | F17T8/CINEMA55 | 24 | 770 | | 5500 | | 24 | | | | | | | 20000 | |
| 20 | T12 | Medium BiPin (G13) | 15558 | F20T12/CINEMA32 | 24 | 780 | | 3200 | | 24 | | | | | | | 10000 | |
| | | | 15710 | F20T12/CINEMA55 | 24 | 760 | | 5500 | | 24 | | | | | | | 10000 | |
| 30 | T12 | Medium BiPin (G13) | 15714 | F30T12/CINEMA32 | 24 | 1450 | | 3200 | | 36 | | | | | | | 18000 | |
| | | | 15715 | F30T12/CINEMA55 | 24 | 1400 | | 5500 | | 36 | | | | | | | 18000 | |
| 32 | T8 | Medium BiPin (G13) | 47868 | F32T8/CINEMA32 | 36 | 1800 | | 3200 | | 48 | | | | | | | 20000 | |
| | | | 47869 | F32T8/CINEMA55 | 36 | 1750 | | 5500 | | 48 | | | | | | | 20000 | |
| 35 | T12 | Medium BiPin (G13) | 15712 | F20T12/CINEMA32/HO | 24 | 1130 | | 3200 | | 24 | | | | | | | 7500 | |
| | | | 15713 | F20T12/CINEMA55/HO | 24 | 1100 | | 5500 | | 24 | | | | | | | 7500 | |
| 40 | T12 | Medium BiPin (G13) | 47857 | F40T12/CINEMA32 | 30 | 2000 | | 3200 | | 48 | | | | | | | 20000 | |
| | | | 47864 | F40T12/CINEMA55 | 30 | 1950 | | 5500 | | 48 | | | | | | | 20000 | |
| 60 | T12 | Medium BiPin (G13) | 15716 | F40T12/CINEMA32/HO | 30 | 2900 | | 3200 | | 48 | | | | | | | 15000 | |
| | | | 15717 | F40T12/CINEMA55/HO | 30 | 2820 | | 5500 | | 48 | | | | | | | 15000 | |
| 85 | T12 | Medium BiPin (G13) | 15718 | F72T12/CINEMA32/HO | 15 | 4150 | | 3200 | | 72 | | | | | | | 15000 | |
| | | | 15719 | F72T12/CINEMA55/HO | 15 | 4050 | | 5500 | | 72 | | | | | | | 15000 | |
| 110 | T12 | Medium BiPin (G13) | 15720 | F96T12/CINEMA32/HO | 15 | 5800 | | 3200 | | 96 | | | | | | | 15000 | |
| | | | 15721 | F96T12/CINEMA55/HO | 15 | 5650 | | 5500 | | 96 | | | | | | | 15000 | |

FLUORESCENT COVRGUARD® LAMPS

| | | | | | | | | | | | | | | | | | | |
|----|-----|--------------------|-------|--------------------------|----|------|--|------|--|----|--|--|--|--|--|--|-------|--|
| 15 | T8 | Medium BiPin (G13) | 15800 | F15T8/CINEMA32/CVG | 24 | 720 | | 3200 | | 18 | | | | | | | 8000 | |
| | | | 15801 | F15T8/CINEMA55/CVG | 24 | 700 | | 5500 | | 18 | | | | | | | 8000 | |
| 17 | T8 | Medium BiPin (G13) | 15806 | F17T8/CINEMA32/CVG | 24 | 800 | | 3200 | | 24 | | | | | | | 20000 | |
| | | | 15810 | F17T8/CINEMA55/CVG | 24 | 770 | | 5500 | | 24 | | | | | | | 20000 | |
| 20 | T12 | Medium BiPin (G13) | 15766 | F20T12/CINEMA32/CVG | 24 | 780 | | 3200 | | 24 | | | | | | | 10000 | |
| | | | 15774 | F20T12/CINEMA55/CVG | 24 | 760 | | 5500 | | 24 | | | | | | | 10000 | |
| 30 | T12 | Medium BiPin (G13) | 15779 | F30T12/CINEMA32/CVG | 24 | 1450 | | 3200 | | 36 | | | | | | | 18000 | |
| | | | 15780 | F30T12/CINEMA55/CVG | 24 | 1400 | | 5500 | | 36 | | | | | | | 18000 | |
| 32 | T8 | Medium BiPin (G13) | 47881 | F32T8/CINEMA32/CVG | 36 | 1800 | | 3200 | | 48 | | | | | | | 20000 | |
| | | | 47882 | F32T8/CINEMA55/CVG | 36 | 1750 | | 5500 | | 48 | | | | | | | 20000 | |
| 35 | T12 | Medium BiPin (G13) | 15775 | F20T12/CINEMA32/HO/CVG24 | 24 | 1130 | | 3200 | | 24 | | | | | | | 7500 | |
| | | | 15776 | F20T12/CINEMA55/HO/CVG24 | 24 | 1100 | | 5500 | | 24 | | | | | | | 7500 | |



| Watts | Shape | Base | Order Volts | LIF Code | Description | Case Qty. | Lumens Initial | Color Temp. K | Filament Design | MOL | LCL | Beam Spread | | Rated Life Hours | Footnotes |
|---|-------|--------------------|----------------|--------------------------|-------------|--------------|-------------------|---------------------|--------------------|-----|-----|---------------|--------------|------------------------|-----------|
| | | | | | | | | | | | | 10% Horiz. | 50% Vert. | | |
| CINEMA LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| FLUORESCENT COVRGUARD® LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| 40 | T12 | Medium BiPin (G13) | 47876 | F40T12/CINEMA32/CVG | 30 | 2000 | 3200 | 48 | | | | | | 20000 | |
| | | | 47877 | F40T12/CINEMA55/CVG | 30 | 1950 | 5500 | 48 | | | | | | 20000 | |
| 60 | T12 | Medium BiPin (G13) | 15782 | F40T12/CINEMA32/HO/CVG30 | 30 | 2900 | 3200 | 48 | | | | | | 15000 | |
| | | | 15783 | F40T12/CINEMA55/HO/CVG30 | 30 | 2820 | 5500 | 48 | | | | | | 15000 | |
| 85 | T12 | Medium BiPin (G13) | 15785 | F72T12/CINEMA32/HO/CVG15 | 15 | 4150 | 3200 | 72 | | | | | | 15000 | |
| | | | 15786 | F72T12/CINEMA55/HO/CVG15 | 15 | 4050 | 5500 | 72 | | | | | | 15000 | |
| 110 | T12 | Medium BiPin (G13) | 15794 | F96T12/CINEMA32/HO/CVG15 | 15 | 5800 | 3200 | 96 | | | | | | 15000 | |
| | | | 15798 | F96T12/CINEMA55/HO/CVG15 | 15 | 5650 | 5500 | 96 | | | | | | 15000 | |
| FLUORESCENT BIAx® | | | | | | | | | | | | | | | |
| 36 | T5 | 2G11-4 Pin | 15816 | F36BX/CINEMA32 | 10 | 2900 | 3200 | 21.1 | | | | | | 8000 | |
| | | | 15819 | F36BX/CINEMA56 | 10 | 2900 | 5600 | 21.1 | | | | | | 8000 | |
| 55 | T5 | 2G11-4 Pin | 15811 | F55BX/CINEMA32 | 10 | 4100 | 3200 | 21.1 | | | | | | 8000 | |
| | | | 15814 | F55BX/CINEMA56 | 10 | 4100 | 5600 | 21.1 | | | | | | 8000 | |
| | | | 22084 | F55BX/CINPLUS/32 | 10 | 2400 | 3200 | 21.1 | | | | | | 8000 | |
| | | | 22085 | F55BX/CINPLUS/56 | 10 | 2400 | 5600 | 21.1 | | | | | | 8000 | |



| Bulb Watts OD | GE Description | Footnotes/ Safety Notices | Product Code | Std. Pack Qty. | Base | Initial Design Volts | Design Color Temp (K) | Color CRI Index | Arc Rated | | | LCL (hrs) | MOL (mm) | Burn (mm) | Position |
|---|-------------------|---------------------------------|-----------------|----------------------|------|----------------------------|-----------------------------|-----------------------|-----------|----------|----------------|--------------|-------------|--------------|----------|
| | | | | | | | | | CIE x | CIE y | Length (mm) | | | | |
| CSR METAL HALIDE LAMPS | | | | | | | | | | | | | | | |
| DISCHARGE-CSR/CSD (DAYLIGHT) METAL HALIDE, SINGLE-ENDED COLD START | | | | | | | | | | | | | | | |
| 250 | T7 | CSD250/2/SE | 14, 63 | 27817 | 10 | 90 | 18000 | 8500 | 65+ | .289 | .305 | 5 | 2000 | | Any |
| 575 | T9 | CSR575/2/T/SE | 14, 63 | 49492 | 10 | 97 | 49000 | 7200 | 80+ | .302 | .320 | 7 | 1000 | 65 | 12 |
| | | CSR575/2/SE | 14, 63 | 15378 | 10 | 97 | 49000 | 7200 | 80+ | .302 | .320 | 7 | 1000 | 65 | 125 |
| 700 | T9 | CSR700/2/SE | 14, 63 | 49491 | 10 | 70 | 55000 | 7200 | 80+ | .302 | .320 | 8 | 1000 | 75 | 155 |
| 1200 | T12 | CSR1200/2/SE | 14, 63 | 49490 | 6 | 100 | 110000 | 7200 | 85+ | .302 | .320 | 10 | 800 | 85 | 175 |
| DISCHARGE-CSR (DAYLIGHT) METAL HALIDE, SINGLE-ENDED SHORT ARC | | | | | | | | | | | | | | | |
| 700 | G7 | CSR700/SA | 14, 63 | 15380 | 6 | 70 | 58000 | 5600 | 75+ | .330 | .342 | 4 | 500 | 39 | 85 |
| 1200 | G9 | CSR1200/SA | 14, 18, 63 | 21849 | 6 | 100 | 100000 | 5800 | 80+ | .326 | .330 | 7 | 750 | 59 | 135 |
| 1800 | G9 | CSR2000/SA | 14, 18, 63 | 21801 | 4 | 100 | 155000 | 6000 | 80+ | .320 | .330 | 7 | 750 | 59 | 135 |
| DISCHARGE-CSR (DAYLIGHT) METAL HALIDE, SINGLE-ENDED HOT RESTRIKE | | | | | | | | | | | | | | | |
| 125 | T5 | CSR125/SE/HR | 14, 63 | 48461 | 10 | 80 | 9400 | 5600 | 90+ | .323 | .328 | 4 | 200 | 39 | 75 |
| 200 | T6 | CSR200/SE/HR | 14, 63 | 48462 | 10 | 70 | 15000 | 5600 | 90+ | .323 | .328 | 5 | 200 | 39 | 80 |
| 400 | T6 | CSR400/SE/HR | 14, 18, 63 | 21853 | 10 | 70 | 32000 | 6000 | 90+ | .323 | .328 | 6 | 750 | 60 | 110 |
| 575 | T9.5 | CSR575/SE/HR | 14, 63 | 48463 | 10 | 95 | 48000 | 6000 | 90+ | .323 | .328 | 7 | 750 | 70 | 145 |
| 1200 | T13 | CSR1200/SE/HR | 14, 63 | 48464 | 6 | 100 | 110000 | 6000 | 90+ | .323 | .328 | 11 | 750 | 107 | 200 |
| 2500 | T19.5 | CSR2500/SE/HR | 14, 63 | 48465 | 6 | 100 | 220000 | 6000 | 90+ | .323 | .328 | 14 | 500 | 127 | 240 |
| 4000 | T24 | CSR4000/SE/HR | 14, 63 | 48466 | 6 | 200 | 380000 | 6000 | 90+ | .323 | .328 | 20 | 500 | 142 | 260 |
| 6000 | T26.5 | CSR6000/SE/HR | 14, 63 | 48467 | 6 | 130 | 540000 | 6000 | 90+ | .323 | .328 | 24 | 300 | 210 | 360 |
| 12000 | T32 | CSR12000/SE/HR | 14, 63 | 48468 | 4 | 160 | 1100000 | 6000 | 90+ | .323 | .328 | 28 | 250 | 255 | 450 |
| 18000 | T32 | CSR18000/SE/HR | 14, 63 | 22496 | 1 | 225 | 1650000 | 6000 | 90+ | .323 | .328 | 35 | 250 | 260 | 460 |
| DISCHARGE-CSR (DAYLIGHT) METAL HALIDE, DOUBLE-ENDED HOT RESTRIKE | | | | | | | | | | | | | | | |
| 200 | T4.5 | CSR200/DE | 14, 63 | 48450 | 10 | 80 | 16000 | 6000 | 90+ | .323 | .325 | 8 | 300 | | 75 |
| 400 | T6.5 | CSR400/S/DE | 14, 63 | 22478 | 10 | 49 | 26000 | 7500 | 80+ | .323 | .325 | 3 | 750 | | 135 |
| 575 | T6.5 | CSR575/DE | 14, 63 | 48451 | 10 | 95 | 49000 | 6000 | 90+ | .323 | .325 | 7 | 750 | | 145 |
| 700 | T6.5 | CSR700/S/DE | 14, 63 | 22493 | 10 | 70 | 59000 | 6000 | 85+ | .323 | .325 | 4 | 750 | | 135 |
| 1200 | T6.5 | CSR1200/S/DE | 14, 63 | 22494 | 10 | 100 | 110000 | 6000 | 90+ | .323 | .325 | 7 | 500 | | 145 |
| | T8.5 | CSR1200/DE | 14, 63 | 48453 | 6 | 100 | 110000 | 6000 | 90+ | .323 | .325 | 10 | 750 | | 220 |
| 2500 | T9.5 | CSR2500/DE | 14, 63 | 48454 | 6 | 115 | 240000 | 6000 | 90+ | .323 | .325 | 14 | 500 | | 355 |
| 4000 | T12 | CSR4000/DE | 14, 63 | 48455 | 6 | 200 | 410000 | 6000 | 90+ | .323 | .325 | 34 | 500 | | 405 |
| 6000 | T16 | CSR6000/DE | 14, 63 | 48456 | 6 | 125 | 570000 | 6000 | 90+ | .323 | .325 | 24 | 300 | | 450 |
| 12000 | T22.5 | CSR12000/DE | 14, 63 | 48457 | 4 | 160 | 1100000 | 6000 | 90+ | .323 | .325 | 32 | 300 | | 470 |
| 18000 | T28 | CSR18000/DE | 14, 63 | 48459 | 4 | 225 | 1650000 | 6000 | 90+ | .323 | .325 | 45 | 300 | | 500 |
| | | CSR18000/S/DE | 14, 63 | 48460 | 4 | 225 | 1650000 | 6000 | 90+ | .323 | .325 | 45 | 300 | | 470 |
| CSR (DAYLIGHT) METAL HALIDE, SINGLE-ENDED HOT RESTRIKE UV-CONTROL | | | | | | | | | | | | | | | |
| 575 | T9.5 | CSR575/SE/HR/UV-C | 14, 63 | 40460 | 10 | 95 | 48000 | 5800 | 90+ | .323 | .328 | 7 | 750 | 70 | 145 |
| 800 | T9.5 | CSR800/SE/HR/UV-C | 14, 63 | 22495 | 10 | 95 | 64000 | 5800 | 90+ | .325 | .327 | 7 | 1000 | 70 | 145 |
| 1200 | T13 | CSR1200/SE/HR/UV-C | 14, 63 | 27764 | 6 | 100 | 110000 | 5800 | 90+ | .323 | .328 | 11 | 750 | 107 | 200 |
| 2500 | T19.5 | CSR2500/SE/HR/UV-C | 14, 63 | 40482 | 6 | 100 | 220000 | 5800 | 90+ | .323 | .328 | 14 | 500 | 127 | 240 |
| 4000 | T24 | CSR4000/SE/HR/UV-C | 14, 63 | 27765 | 6 | 200 | 380000 | 5800 | 90+ | .323 | .328 | 20 | 500 | 142 | 260 |
| 6000 | T26.5 | CSR6000/SE/HR/UV-C | 14, 63 | 40492 | 6 | 130 | 540000 | 5800 | 90+ | .323 | .328 | 24 | 300 | 210 | 360 |



STAGE AND STUDIO ANSI CODES REFERENCE

| ANSI Code | Order Code | Lamp Description | Volts |
|--------------------------------------|------------|-------------------|-------|
| STAGE & STUDIO ANSI CODES | | | |
| BCM | 48772 | BCM Q20MT32/4CL | 208 |
| BCM | 48773 | BCM Q20MT32/4CL | 220 |
| BCM | 48774 | BCM Q20MT32/4CL | 240 |
| BTL | 11966 | BTL-Q500T6/CL/P | 120 |
| BTM | 16465 | BTM-Q500T64CL/2P | 120 |
| BTN | 11953 | BTN-Q750T7/CL/2P | 120 |
| BTP | 11954 | BTP-Q750T7/4CL2P | 120 |
| BTR | 11955 | BTR-Q1000T74CL2P | 120 |
| BVT | 12554 | BVT-Q1MT7/CL/MP | 120 |
| BVV | 12553 | BVV-Q1MT7/4CL/MP | 120 |
| BVV | 12555 | BVV-Q2MT10/4CL/MP | 120 |
| BWA | 39587 | BWA-Q2000/4CL/BP | 120 |
| BWF | 37086 | BWF-Q2000/4CL | 120 |
| BWM | 39680 | BWM-Q750T7/4CLTP | 120 |
| BWN | 39792 | BWN-Q1000T7/4CL | 120 |
| CXZ | 37564 | CXZ-Q1500T10/4CL | 120 |
| CYV | 42697 | CYV-Q1000T7/4CLBP | 120 |
| CYX | 36636 | CYX-Q2000T10/4CL | 120 |
| DKX | 40357 | DKX/DSFQ1500PS52 | 120 |
| DKZ | 39582 | DKZ/DSE-Q1000PS5 | 120 |
| DPY | 41736 | DPY-Q5000T20/4CL | 120 |
| DSE | 34377 | DSE/Q1000 | 120 |
| DTA | 30522 | DTA-Q1500T8/4CL | 120 |
| DTY | 18305 | DTY-Q10M/T24/4CL | 120 |
| DWE | 41667 | DWE-Q650PAR36/1 | 120 |

| ANSI Code | Order Code | Lamp Description | Volts |
|--------------------------------------|------------|------------------|-------|
| STAGE & STUDIO ANSI CODES | | | |
| DXW | 30157 | DXW-Q1000T5/4CL | 120 |
| EGC | 39134 | EGC-Q500/5CL/P | 120 |
| EGE | 39135 | EGE-Q500CL/P | 120 |
| EGF | 39136 | EGF-Q750/4CL/P | 120 |
| EGG | 39137 | EGG-Q750CL/P | 120 |
| EGJ | 38853 | EGJ-Q1000/4CL/P | 120 |
| EGK | 38852 | EGK-Q1000/4/P | 120 |
| EGM | 39138 | EGM-Q1000CL/P | 120 |
| EGN | 30373 | EGN-Q500T8 | 120 |
| EGR | 39190 | EGR-Q750T7/4CL | 120 |
| EGT | 39191 | EGT-Q1000T7/4CL | 120 |
| EHC | 39789 | EHC-Q500/5CL | 120 |
| EHD | 39768 | EHD-Q500CL/TP | 120 |
| EHF | 39771 | EHF-Q750/4CL | 120 |
| EHG | 39770 | EHG-Q750CL/TP | 120 |
| EJD | 23788 | EJD-Q1000T3/3CL | 185 |
| EJG | 20883 | EJG/HIR-Q525T2-1 | 120 |
| EJG | 23756 | EJG-Q750T3/4CL | 120 |
| EKB | 33934 | EKB-Q420/4CL/2PP | 120 |
| EKD | 34328 | EKD-Q650/3CL/2PP | 120 |
| EMD | 23755 | EMD-Q750T3/4 | 120 |
| EVR | 47950 | EVR-Q500CL/MC | 120 |
| EXC | 93409 | EXC-Q1MPAR64CP60 | 230 |
| EXC | 10925 | EXC-Q1MPAR64CP60 | 240 |
| EXD | 10928 | EXD-Q1MPAR64CP61 | 230 |

| ANSI Code | Order Code | Lamp Description | Volts |
|--------------------------------------|------------|------------------|-------|
| STAGE & STUDIO ANSI CODES | | | |
| EXD | 10929 | EXD-Q1MPAR64CP61 | 240 |
| EXE | 10930 | EXE-Q1MPAR64CP62 | 230 |
| EXE | 10931 | EXE-Q1MPAR64CP62 | 240 |
| FAD | 30325 | FAD-Q650T4/4CL | 120 |
| FAY | 41668 | FAY-Q650PAR36/3D | 120 |
| FBE | 41669 | FBE-Q650PAR36/5D | 120 |
| FBO | 41671 | FBO-Q650PAR36/5 | 120 |
| FBX | 30343 | FBX-Q650T4/4 | 120 |
| FBY | 30374 | FBY-Q1000T5/4 | 120 |
| FCM | 13895 | FCM/HIR-Q650T3/4 | 120 |
| FCM | 23797 | FCM-Q1000T3/4CL | 120 |
| FCV | 35853 | FCV-Q1000/4 | 120 |
| FCW | 41672 | FCW-Q650PAR36/6 | 120 |
| FCX | 41673 | FCX-Q650PAR36/7 | 120 |
| FDB | 23841 | FDB-Q1500T4/4CL | 120 |
| FDI | 20881 | FDI/HIR-Q350T2/4 | 120 |
| FDI | 23735 | FDI-Q500T3/4CL | 120 |
| FDN | 23734 | FDN-Q500T3/4 | 120 |
| FEL | 39769 | FEL-Q1000/4CL | 120 |
| FEP | 39738 | FEP-Q1000T6/4CL | 230 |
| FER | 33760 | FER-Q1000T6/4CL | 120 |
| FEV | 14119 | FEV-Q200/4CL/DC | 120 |
| FEX | 35338 | FEX-Q2MT8/4CL | 230 |
| FEY | 39790 | FEY-Q2000T8/4CL | 120 |
| FFN | 13233 | FFN-Q1000PAR64/1 | 120 |

| ANSI Code | Order Code | Lamp Description | Volts |
|--------------------------------------|------------|-------------------|-------|
| STAGE & STUDIO ANSI CODES | | | |
| FFP | 13229 | FFP-Q1000PAR64/2 | 120 |
| FFR | 13228 | FFR-Q1000PAR64/5 | 120 |
| FFS | 13227 | FFS-Q1000PAR64/6 | 120 |
| FFT | 20884 | FFT/HIR-Q675T3/4 | 120 |
| FFT | 33280 | FFT-Q1000T3/1CL | 120 |
| FGM | 13226 | FGM-Q1000PAR64/3 | 120 |
| FGN | 13225 | FGN-Q1000PAR64/7D | 120 |
| FGT | 41229 | FGT-Q1500T4/4 | 120 |
| FHM | 23792 | FHM-Q1000T3/4 | 120 |
| FKW | 39781 | FKW-Q300T8 | 120 |
| FLK | 39730 | FLK/LL-Q575T6 | 115 |
| FLK | 11450 | FLK-Q575T6/4CL | 115 |
| FMR | 30475 | FMR-Q600T5 | 120 |
| FRG | 39623 | FRG-Q500T8 | 120 |
| FRK | 39637 | FRK-Q650T8 | 120 |
| GFA | 34812 | GFA-Q1200PAR64/5 | 120 |
| GFB | 34810 | GFB-Q1200PAR64/2 | 120 |
| GFC | 34808 | GFC-Q1200PAR64/1 | 120 |
| GKV | 39739 | GKV-Q575T6/4CL | 230 |
| GLA | 93428 | GLA-Q575T6/4CL | 115 |
| GLC | 93429 | GLC-Q575T6/5CL | 115 |
| GLD | 92771 | GLD-Q750T6/4CL | 120 |
| GLE | 92773 | GLE-Q750T6/4CL | 120 |

| ANSI Code | Order Code | Lamp Description | Volts |
|--------------------------------------|------------|------------------|-------|
| STAGE & STUDIO ANSI CODES | | | |
| (SEE SECTION - HALOGEN) | | | |
| DVS | 23733 | Q500T3/CL-DVS | 130 |
| EHM | 43703 | Q300T3/CL-EHM | 120 |
| EHP | 43705 | Q300T4/CL-EHP | 120 |
| EHR | 43708 | Q400T4/CL-EHR | 120 |
| EHT | 43699 | Q250CL/MC-EHT | 120 |
| EHZ | 43704 | Q300T3-EHZ | 120 |
| ESL | 44383 | Q150CL/MC/2V-ESL | 120 |
| ESM | 43695 | Q250MC-ESM | 120 |
| ESN | 44385 | Q100CL/MC/2V-ESN | 120 |
| ESP | 44384 | Q150CL/DC/2V-ESP | 120 |
| ESR | 44386 | Q100CL/DC/2V-ESR | 120 |
| ESS | 43697 | Q250CL/DC-ESS | 120 |
| ETB | 43701 | Q250DC-ETB | 120 |
| ETC | 43693 | Q150CL/DC-ETC | 120 |
| ETD | 44657 | Q100DC/2V-ETD | 120 |
| ETE | 44656 | Q100MC/2V-ETE | 120 |
| ETF | 44653 | Q150DC-ETF | 120 |
| ETG | 43694 | Q150CL/MC-ETG | 120 |
| ETH | 44654 | Q150MC-ETH | 120 |
| FCL | 23731 | Q500T3/CL-FCL | 120 |



FOOTNOTES

Footnote

- 1 Filament with low noise construction.
- 2 Burn position horizontal ± 4 degrees.
- 3 Burn position base down to horizontal.
- 4 Burning position vertical base down ± 45 degrees.
- 5 Burning position horizontal ± 15 degrees.
- 6 Enclosed fixture only per UL standard 1572. In accordance with Federal Regulations (21CFR 1040.30) the following notice applies.
WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if the outer envelope of the lamp is broken or punctured, and the arc tube continues to operate. Do not use where people will remain more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamp that will automatically extinguish when the outer envelope is broken or punctured are commercially available.
- 7 Frosted. Apparent lighted length slightly longer than similar clear lamp.
- 8 Life dependent on service conditions; for use only in equipment specially designed to maintain bulb and base temperatures within safe limits.
- 9 Available late 2003.
- 10 To avoid possible overheating, this lamp is not recommended for use without force-cooling in deep-bowled fixtures.
- 11 Burn vertical base down ± 30 degrees.

12

Safety Notice for exposed unshielded lamps (if shielded fixture use footnote 13)

▲ WARNING

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in enclosed fixture rated for this product

Pressurized lamp-unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not touch glass with bare hands
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Operate lamp only in specified position
- Do not exceed 110% of rated voltage

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Wear safety glasses and gloves when handling lamp

Lamp emits UV radiation which may cause eye/skin irritation. RG-2.

- Limit unshielded exposure to less than 15 minutes per day

13

Safety Notice for PAR lamps and enclosed, shielded lamps

▲ WARNING

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass is broken. Remove and dispose of lamp

Pressurized lamp-unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container



GENERAL INFORMATION

| | |
|-----------------------------------|-----|
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| Miniature Bases..... | 7-3 |
| Sealed Beam Lamps and Bases..... | 7-3 |
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LAMPS

| | |
|-------------------------|------|
| Miniature Lamps..... | 7-5 |
| Sealed Beam Lamps | 7-16 |

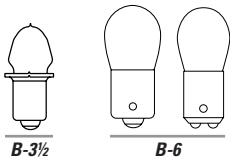
FOOTNOTES AND SAFETY NOTES 7-21



Miniature & Sealed Beam Lamps

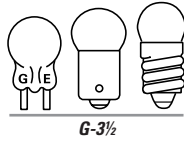
LAMP LOCATOR

The lamps listed here are not to scale. To determine the diameter of a bulb in inches, multiply the bulb number by one-eighth. For example T-2 means approximately $\frac{2}{8}$ " or $\frac{1}{4}$ " diameter.

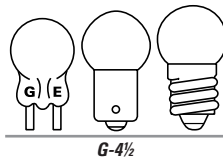


B-3 1/2

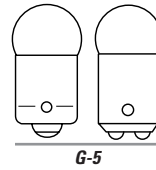
B-6



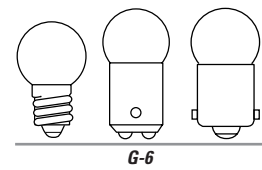
G-3 1/2



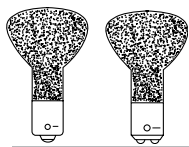
G-4 1/2



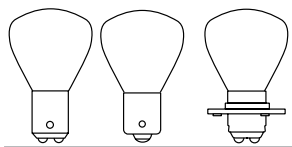
G-5



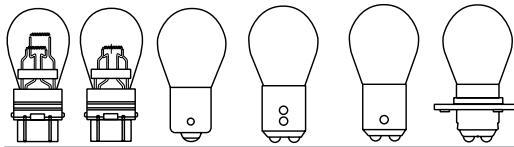
G-6



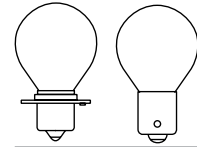
R-12



RP-11



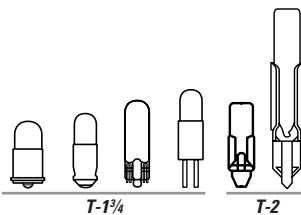
S-8



S-11

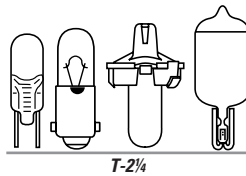


T-1

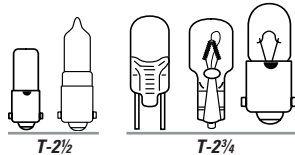


T-1 1/4

T-2



T-2 1/4

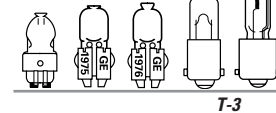


T-2 1/2

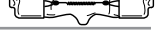
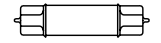
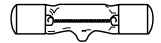
T-2 3/4



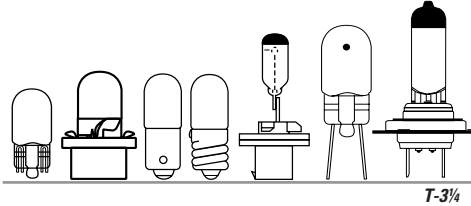
TL-2 1/4



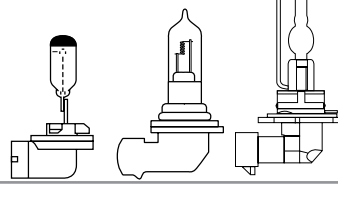
T-3



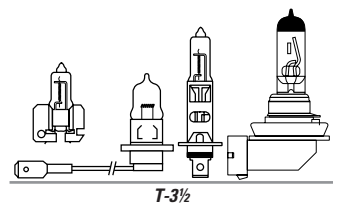
TL-3



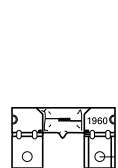
T-3 1/4



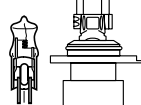
TL-3 1/4



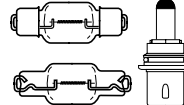
T-3 3/4



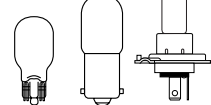
T-4



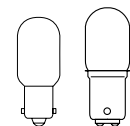
T-4 1/2



T-4 3/4



T-5



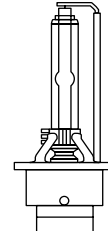
T-7



T-8



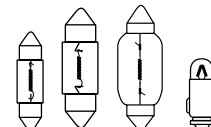
Electric Discharge



Central Discharge



Neon Glow



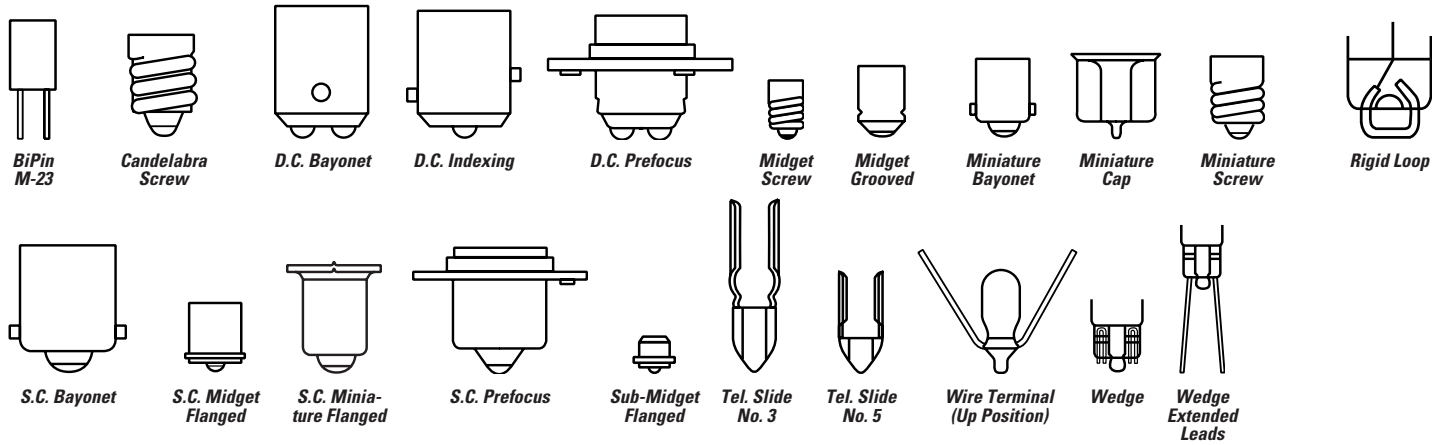
Festoon Type



MINIATURE BASES

Bases provide electrical contact to the lamp and, in most cases, also support the lamp in the fixture. For miniature and subminiature lamps, bayonet or wedge base types are generally preferred over screw types when vibration

is present. In addition, wedge bases reduce socket size and complexity. Flanged or collared types are usually associated with requirements for filament location.

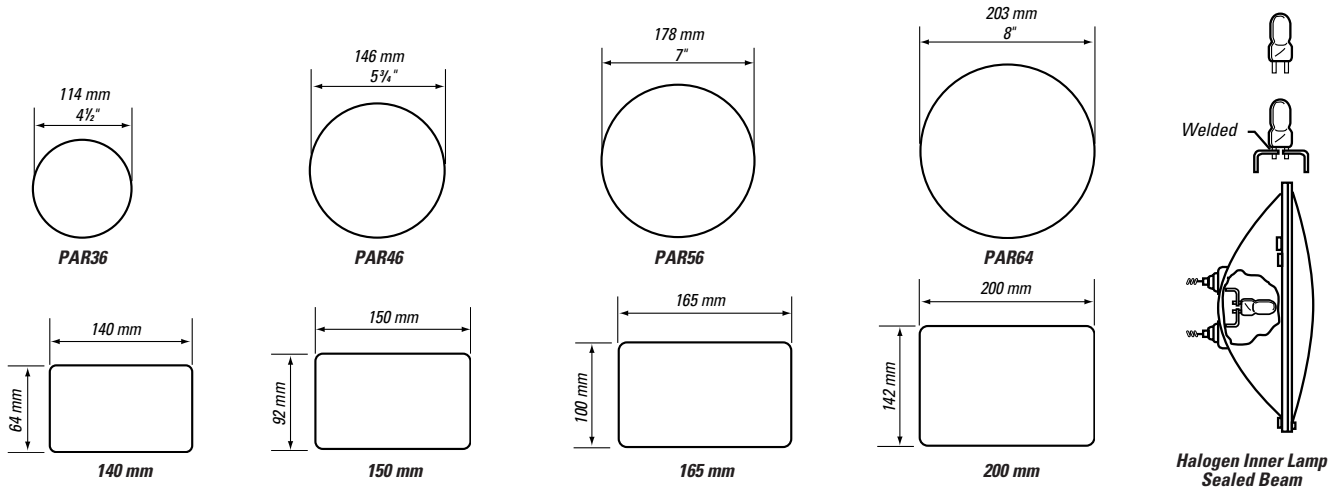


S.C. AND D.C. PREFOCUSED BASE LAMPS

The letter "A" following the base type designates that the distance from the bottom of the collar to the bottom of the base contact is $1\frac{3}{32}$ ". For "B" bases this distance is $\frac{5}{16}$ ". The few lamps identified by the letter "S" in the "Base"

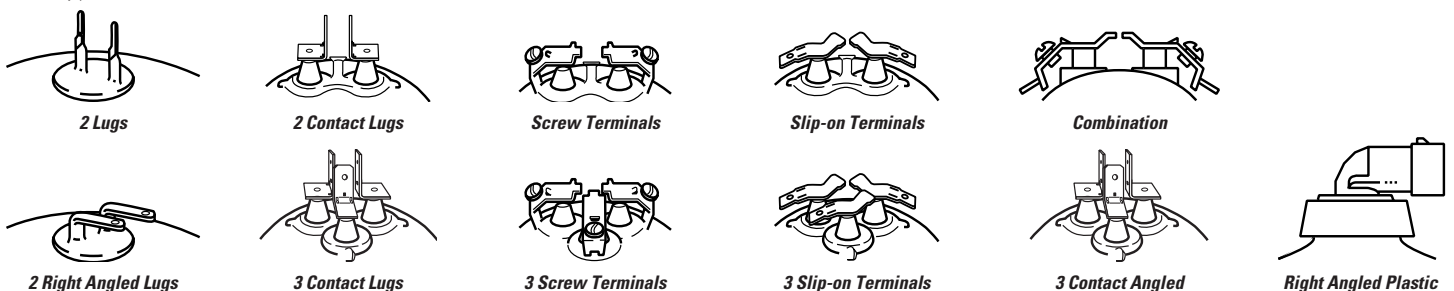
column are special in that the collar location and/or the orientation of the contacts differs from the above.

SEALED BEAM LAMPS



SEALED BEAM BASES

Bases provide electrical contact to the lamp. The most common bases for sealed beam lamps are the screw terminal and contact lug types. Other types are also available, as illustrated.





Miniature & Sealed Beam Lamps

INTRODUCTION

GE MINIATURE AND SEALED BEAM PRODUCT ORDERING INFORMATION

GE Miniature and Sealed Beam Lamps are designed for those applications requiring specific bulb size, base, and voltage. These lamps are operated on vehicles (cars, trucks, boats, aircraft, tractors) or in special applications utilizing low voltage sources. Most lamps are designated by common ANSI (American National Standards Institute) lamp numbers and lamps in this section are arranged in numerical order. To assist you in identifying lamps, drawings (not to scale) are provided, along with descriptions of bulb and base sizes.

Specific market segments covered in this section are products used in:

| | | |
|-------------|-----------------------------|---------------------|
| Aircraft | Emergency Building Lighting | Marine |
| Automotive | Flashlight/Hand Lanterns | Medical/Instruments |
| Agriculture | Garden/Outdoor | Telephone |
| CIM/Tractor | Indicator | Toys/Entertainment |

For additional specifications refer to **Miniature and Sealed Beam Catalog** obtained through your GE Sales Office. **Automotive Selection Guide** also available.

FINDING AND ORDERING A LAMP

Most Miniature Lamps have a number on the base or bulb. Generally it will match the lamp number in this catalog, which is sorted in numeric order (prefixes last). The catalog is divided into Miniature and Sealed Beam sections. Sealed Beam lamps start on page 7-16. Often the first prefix is another lamp manufacturer's identification and can be ignored. You can verify the lamp using the drawings provided. Order codes for Blister, Unit, and Bulk Pack for OEM's are provided.

FORMULAS

The following are commonly used formulas to assist any calculations you may need. For further information, contact your GE Lamp Representative.

- Watts = Volts x Amps
- Lumens = 12.57 x Mean Spherical Candlepower
- Kelvin = Celsius + 273
- Footcandles = Candlepower/Distance squared
- Hot Resistance (Ohms) = Volts/Amps (miniature lamps only)

ABBREVIATIONS

The abbreviations used in this catalog include:

| | |
|---|---|
| A Amperes | C.I.M. Construction & Industrial Machinery |
| ANSI American National Standards Institute | C.P. Candlepower |
| Bay. Bayonet | Cand. Candelabra |

| | |
|--|---|
| D.C. Double Contact | PAR Parabolic Aluminized Reflector |
| ECE European Common Market (European Motor Vehicle Standards) | Pf. Prefocus |
| Fig. Flanged | SAE Society of Automotive Engineers (US Motor Vehicle Standards) |
| HID High Intensity Discharge | Sc. Screw |
| HIR Halogen Infrared | S.C. Single Contact |
| LCL Light Center Length | Spec. Special |
| Min. Miniature | Tel. Telephone |
| MOL Maximum Overall Length | Term. Terminals |
| MSCP Mean Spherical Candlepower | V Volts |
| Nom. Nominal | W Watts |

GE MINIATURE LAMP PREFIXES

| | |
|---|---------------------------------------|
| DE Double-Ended | Q Quartz Halogen |
| H Halogen | SE Single-Ended |
| K Krypton Gas | W,T,R,C,P European Designation |
| PC Printed Circuit Application | |
| PR Prefocus Base (E.G., "Flashlight Lamp") | |

GE MINIATURE LAMP SUFFIXES

| | |
|--|--|
| A Amber | NA Natural Amber (automotive lighting) |
| AF All Frost (on outside) | PSB Pilot Indicator/Short Base |
| AS10 Ages and Selected (for candlepower) | R Red |
| B Blue | SB Silver Bowl (all or some portion of bulb is silver) |
| C1 Refers to a range of current on telephone lamps (A1, B1, D1, E1, etc. used also) | TY Letters after a quartz halogen lamp mean a deviation from the standard lamp - usually refers to the electrical terminals |
| CW Cool White (aircraft lighting) | U Lead wires up or no base, e.g., unbased sealed beam lamp |
| D Lead Wires Down | WW Warm White (aircraft lighting) |
| E Extended Lead Wires | X Indicates some arbitrary deviation from the normal product |
| E-1 Different lead wire material (NI plated) | Y Yellow |
| G Green | -1 Slip on terminals |
| HD Heavy Duty | -2 Represents various deviations |
| HIR Halogen Infrared | -3 Represents deviations (e.g. combination terminal) |
| HO High Output | W European Designation (Watts) |
| K Unique Base | |
| KR Krypton Fill | |
| L, XL, LL Long Life | |
| MB Miniature Bayonet | |

MSCP/MBCP

Approximate output expressed as initial mean spherical candlepower (see lumen conversion). For sealed beam MBCP is the maximum intensity of the beam in candelas, generally in the beam's center, and spread is beam size expressed in degrees.

Filament Design

C=coiled, CC=coiled coil, -6=horizontal, -8=vertical to base. See Miniature and Sealed Beam Catalog for all variations.

MOL:

In inches from the top of the bulb to the bottom of the base.

GE Lamp No.:

In nearly all cases lamps are marked with a General Electric Trade Number recorded with the ANSI. See glossary of prefixes and suffixes above.

Order Code:

Use this code when ordering to ensure that you receive the exact product you require.

Case Qty.

Quantity of lamps per case if blister pack (BP), unit, or bulk (OEM's).*

Amps or Watts

Energy used expressed as amperes (A) or watts (W) at design voltage.

Volts:

Voltage at which the lamp is designed to provide the amperes, candlepower, and laboratory life characteristics.

Bulb:

The prefix letter describes the shape and the number is the approximate bulb diameter.

Base:

Base types are depicted on the previous pages for both Miniature and Sealed Beam.

LCL

Distance in inches between base reference plane and filament center.

Rated Life

Lamp burning hours to medium life expectancy.

Safety Footnotes

See page 7-21 for explanation.

| Order Code | Case Qty. | GE | Amps or | Bulb: | Filament | LCL | MOL | Rated Life | Warning | | | | | | |
|------------|-----------|------|--------------|----------|---------------------|-------|-------|------------|---------|------|--------|------|------|-------|-------------|
| Blister | Unit | Bulk | BP/Unit/Bulk | Lamp No. | Primary Application | Volts | Watts | MSCP | Bulb | Base | Design | (in) | (in) | (hrs) | & Footnotes |

MINIATURE LAMPS

| | | | | | | | | | | | | | | |
|-------|-------|---------|-----|---------|------|-------|----|---------------------------------|-------------------|-----|------|------|-------|-----|
| 40848 | 14132 | /10/540 | 862 | Tractor | 12.8 | 2.93A | 60 | T-3 ¹ / ₄ | Rt Angle Prefocus | C-6 | 1.25 | 2.68 | 1,900 | 306 |
|-------|-------|---------|-----|---------|------|-------|----|---------------------------------|-------------------|-----|------|------|-------|-----|

T-2 is Tubular approximately 2/8" in diameter. Sealed Beam bulb sizes are also in eighths of an inch if round (PAR). PAR36 is 3/8" or 4 1/2" in diameter. If the Sealed Beam is rectangular in shape the longest side is measured in millimeters. A 165mm Sealed Beam measures 6 1/2" (165mm) across the top.

* Miniature Incandescent BP is 2 lamps, Miniature Halogen BP is 1 lamp, selected miniature headlamps available in 2 pack BP; PC not shown.

Identifies the shape (S= Pear, T= Tubular, G= Globe, R= Reflector)

Identifies the approximate bulb diameter in eighths of an inch.



Miniature & Sealed Beam Lamps

| Order Code | Case Qty. | GE | Primary Application | Volts | Amps or Watts | MSCP | Bulb | Base | Filament Design | LCL (in) | MOL (in) | Rated Life (hrs) | Warning & Footnotes | |
|------------------------|-----------|---------|---------------------|----------------------------|--------------------|-------|----------|-------------------|-------------------|----------|----------|------------------|---------------------|---------|
| Blister | Unit | Bulk | BP/Unit/Bulk | Lamp No. | | | | | | | | | | |
| MINIATURE LAMPS | | | | | | | | | | | | | | |
| | 25312 | /50/ | 10 | Indicator | 2.50 | .50A | .5 G-3½ | Miniature Two Pin | C-6 | .62 | .94 | 3,000 | 69 | |
| | 25319 | /50/ | 12 | Radio | 6.30 | .15A | .35 G-3½ | Miniature Two Pin | C-6 | .62 | .94 | 5,000 | 44, 69 | |
| | 25331 | /50/ | 13 | Flashlight – 3D Cells | 3.70 | .30A | .98 G-3½ | Miniature Screw | C-2R | .72 | .94 | 15 | 116 | |
| | 25354 | /50/ | 14 | Flashlight – 2D Cells | 2.47 | .30A | .5 G-3½ | Miniature Screw | C-2R | .72 | .94 | 15 | 116 | |
| | 25371 | /50/ | 15 | Indicator | 7.0 | .40A | 2 G-4½ | Miniature Two Pin | C-6 | .69 | 1.07 | 500 | 69 | |
| | 25377 | 25379 | /50/1000 | 19 | Toy Train | 14.4 | .10A | .9 G-3½ | Miniature Two Pin | C-6 | .62 | .94 | 1,000 | 69 |
| 12325 | 17853 | 48/50/ | 24 | Auto Side Marker | 14.0 | .24A | 2 T-2¾ | Wedge | C-2V | .46 | .91 | 1,500 | | |
| 12316 | | 48/ / | 24NA | Auto Side Marker | 14.0 | .24A | 1.5 T-2¾ | Wedge | C-2V | .46 | .91 | 1,500 | | |
| | 25388 | /50/ | 27 | Hand Lantern – 4F Cells | 4.9 | .30A | 1.4 G-4½ | Miniature Screw | C-2R | .72 | 1.07 | 30 | 116 | |
| 26480 | 39220 | 13689 | 48/50/4000 | 37 | Auto | 14.0 | .09A | .5 T-1¾ | Wedge | C-2F | .40 | .80 | 2,500 | |
| | 25442 | /50/ | 43 | Indicator | 2.5 | .50A | .5 T-3¼ | Miniature Bayonet | C-2R | .78 | 1.19 | 3,000 | | |
| | 25450 | /50/ | 44 | Indicator, Radio, and TV | 6.3 | .25A | .9 T-3¼ | Miniature Bayonet | C-2R | .78 | 1.19 | 3,000 | | |
| | 25485 | /50/ | 47 | Radio, TV, and Indicator | 6.3 | .15A | .52 T-3¼ | Miniature Bayonet | C-2R | .78 | 1.19 | 3,000 | | |
| | 25529 | /50/ | 51 | Indicator | 7.50 | .22A | 1 G-3½ | Miniature Bayonet | C-2R | .50 | .94 | 1,000 | | |
| | 25550 | 25552 | /50/4000 | 53 | Auto and Indicator | 14.4 | .12A | 1 G-3½ | Miniature Bayonet | C-2V | .50 | .94 | 1,000 | |
| | 25576 | /50/ | 55 | Instrument | 7.0 | .41A | 2 G-4½ | Miniature Bayonet | C-2R | .56 | 1.07 | 500 | | |
| 23218 | 25591 | 48/50/ | 57 | Auto and Instrument | 14.0 | .24A | 2 G-4½ | Miniature Bayonet | C-2V | .56 | 1.07 | 500 | | |
| 12321 | | 48/ / | 63 | Coin Machine | 7.0 | .63A | 3 G-6 | S.C. Bayonet | C-2R | .75 | 1.44 | 1,000 | | |
| | 25643 | /50/ | 64 | Aircraft and Marine | 7.0 | .63A | 3 G-6 | D.C. Bayonet | C-2R | .75 | 1.44 | 1,000 | | |
| 12324 | 25652 | 25654 | 48/50/1000 | 67 | Auto | 13.5 | .59A | 4 G-6 | S.C. Bayonet | C-2R | .81 | 1.44 | 5,000 | 4 |
| | 25692 | /50/ | 68 | Auto and Marine | 13.5 | .59A | 4 G-6 | D.C. Bayonet | C-2R | .81 | 1.44 | 5,000 | 4 | |
| | 43606 | 43607 | /50/4000 | 70 | Auto | 14.0 | .15A | 1.5 T-1¾ | Wedge | C-2F | .40 | .80 | 100 | 14 |
| 23015 | 39218 | 39219 | 48/50/4000 | 73 | Indicator | 14.0 | .08A | .3 T-1¾ | Wedge | C-2F | .40 | .80 | 15,000 | 79 |
| 21029 | 38457 | 38458 | 48/50/4000 | 74 | Auto | 14.0 | .10A | .7 T-1¾ | Wedge | C-2F | .40 | .80 | 1,000 | |
| | 25736 | /50/ | 81 | Auto, Aircraft | 6.5 | 1.02A | 6 G-6 | S.C. Bayonet | C-2R | .75 | 1.44 | 500 | | |
| | 25751 | /50/ | 82 | Auto and Marine | 6.5 | 1.02A | 6 G-6 | D.C. Bayonet | C-2R | .75 | 1.44 | 500 | | |
| | 40969 | /50/ | 85 | Indicator | 28.0 | .04A | .3 T-1¾ | Wedge | C-2F | .40 | .80 | 7,000 | 79 | |
| | 40967 | 40968 | /50/4000 | 86 | Indicator | 6.3 | .20A | .4 T-1¾ | Wedge | C-2F | .40 | .80 | 20,000 | 79, 130 |
| | 25772 | /10/ | 88 | Indicator | 6.8 | 1.91A | 15 S-8 | D.C. Bayonet | C-6 | 1.12 | 2.0 | 300 | | |
| 12363 | 25778 | 18618 | 48/50/1000 | 89 | Auto | 13.0 | .58A | 6 G-6 | S.C. Bayonet | C-2R | .75 | 1.44 | 750 | |
| 47797 | | 48/ / | 89KR | Auto. Krypton. Long Life | 13.0 | .58A | 6 G-6 | S.C. Bayonet | C-2R | .75 | 1.44 | 1,500 | | |
| 12364 | 25794 | 25796 | 48/50/1000 | 90 | Auto and Marine | 13.0 | .58A | 6 G-6 | D.C. Bayonet | C-2R | .75 | 1.44 | 750 | |
| 23217 | 25811 | 25813 | 48/50/500 | 93 | Auto | 12.8 | 1.04A | 15 S-8 | S.C. Bayonet | C-6 | 1.12 | 2.0 | 700 | |
| | 25829 | 25831 | /50/500 | 94 | Auto and Marine | 12.8 | 1.04A | 15 S-8 | D.C. Bayonet | C-6 | 1.12 | 2.0 | 700 | |
| 12322 | 25836 | 25838 | 48/50/1000 | 97 | Auto – Heavy Duty | 13.5 | .69A | 4 G-6 | S.C. Bayonet | C-2V | .81 | 1.44 | 5,000 | 4 |
| | 16287 | 16286 | /50/1000 | 98 | Auto, Heavy Duty | 13.0 | .62A | 6 G-6 | S.C. Bayonet | C-2V | .75 | 1.44 | 800 | |
| | 36147 | /50/ | 105 | Auto Interior – Heavy Duty | 12.8 | 1.00A | 12 B-6 | S.C. Bayonet | C-6 | 1.06 | 1.75 | 500 | | |
| | 25848 | /50/ | 112 | Flashlight – 1AA, C or D | 1.2 | .22A | – TL-3 | Miniature Screw | S-2 | – | .93 | 5 | 116 | |
| | 25916 | /50/ | 147 | Indicator | 7.0 | .43A | 2 T-3¼ | Wedge | C-2R | .56 | 1.06 | 1,500 | | |
| | 15731 | / /1000 | 149 | Emergency Lighting | 6.15 | .53A | 3.5 T-3¼ | Wedge | C-2R | .56 | 1.06 | 15 | | |
| | 25927 | /50/ | 157 | Medical | 5.8 | 1.10A | 8.1 G-6 | Miniature Screw | C-2R | 1.0 | 1.22 | 50 | 127 | |
| | 25931 | 25933 | /50/4000 | 158 | Auto, Instrument | 14.0 | .24A | 2 T-3¼ | Wedge | C-2V | .56 | 1.06 | 500 | |
| 23016 | 25956 | 16489 | 48/50/4000 | 161 | Auto, Instrument | 14.0 | .19A | 1 T-3¼ | Wedge | C-2F | .56 | 1.06 | 4,000 | |
| 12327 | 25962 | 16302 | 48/50/4000 | 168 | Auto Instrument | 14.0 | .35A | 3 T-3¼ | Wedge | C-2F | .56 | 1.06 | 1,500 | |
| 47827 | | 48/ / | 168XL | Auto-Long Life | 14.0 | .35A | 3 T-3¼ | Wedge | C-2F | .56 | 1.06 | 3,000 | | |
| | 19553 | 19852 | /50/4000 | 193 | Heavy Duty Truck | 14.0 | .33A | 2 T-3¼ | Wedge | C-2F | .56 | 1.06 | 15,000 | |
| | | 19921 | / /4000 | 193E | Heavy Duty Truck | 14.0 | .33A | 2 T-3¼ | Wire Terminal | C-2F | .56 | 1.06 | 15,000 | 122 |
| | | 11807 | / /4000 | 193E-1 | Truck Clearance | 14.0 | .33A | 2 T-3¼ | Wire Terminal | C-2F | – | 1.06 | 15,000 | 122 |
| 12328 | 25965 | 16303 | 48/50/4000 | 194 | Auto, Instrument | 14.0 | .27A | 2 T-3¼ | Wedge | C-2F | .56 | 1.06 | 2,500 | |
| 12356 | | 48/ / | 194B | Auto courtesy – Blue | 14.0 | .27A | 2 T-3¼ | Wedge | C-2F | – | 1.06 | 2,500 | 132 | |
| 12357 | | 48/ / | 194G | Auto courtesy – Green | 14.0 | .27A | 2 T-3¼ | Wedge | C-2F | – | 1.06 | 2,500 | 132 | |



Miniature & Sealed Beam Lamps

| Blister | Order Code Unit | Case Qty. Bulk | GE BP/Unit/Bulk | GE Lamp No. | Primary Application | Volts | Amps or Watts | MSCP | Bulb | Base | Filament Design | LCL (in) | MOL (in) | Rated Life (hrs) | Warning & Footnotes |
|------------------------------------|-----------------|----------------|-----------------|-------------|---------------------|--------------------------|---------------|---------------|------|---------|---------------------|----------|----------|------------------|-------------------------|
| MINIATURE LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| | 12319 | 44859 | 27470 | 48/50/4000 | 194NA | Auto Sidemarker. Amber | 14.0 | .27A | 1.5 | T-3/4 | Wedge | C-2F | — | 1.06 | 2,500 |
| | 47794 | | | 48/ | 194NAXL | Auto Sidemarker. Amber | 14.0 | .27A | 1.5 | T-3/4 | Wedge | C-2F | — | 1.06 | 5,000 |
| | 12355 | | | 48/ | 194R | Auto courtesy – Red | 14.0 | .27A | 2 | T-3/4 | Wedge | C-2F | — | 1.06 | 2,500 132 |
| | 25832 | | | 48/ | 194XL | Auto, Long Life | 14.0 | .27A | 2 | T-3/4 | Wedge | C-2F | .56 | 1.06 | 12,000 |
| | 37983 | 37984 | | /50/500 | 198 | Truck Stop, Signal | 12.8 14.0 | 2.25A .59A | 32 | S-8 | D.C. Index | C-6 | 1.25 | 2.0 | 1,200 5,000 110, 147 |
| | 37985 | 37986 | | /50/500 | 199 | Truck Signal | 12.8 | 2.25A | 32 | S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 1,200 110 |
| | 25988 | | | /50/ | 210 | Instrument | 6.5 | 1.78A | 15 | B-6 | D.C. Bayonet | C-6 | 1.06 | 1.75 | 100 |
| | 12673 | 39224 | 39225 | 48/50/1000 | 211-2 | Auto | 12.8 | .97A | 12 | T-3 | Miniature Cap | C-8 | — | 1.72 | 1,000 |
| | 23220 | | 39223 | 48/1000 | 212-2 | Auto | 13.5 | .74A | 6 | T-3 | Miniature Cap | C-8 | — | 1.72 | 2,000 4 |
| | 39356 | 39357 | | /50/1000 | 214-2 | Auto | 13.5 | .52A | 4 | T-3 | Miniature Cap | C-8 | — | 1.72 | 1,000 4 |
| | 26008 | | | /50/ | 222 | Flashlight – AA cells | 2.25 | .25A | — | TL-3 | Miniature Screw | C-2R | — | .93 | 5 116 |
| | 26063 | | | /50/ | 243 | Flashlight – 2 C cells | 2.33 | .27A | — | TL-3 | Miniature Screw | C-2R | — | .93 | 10 116 |
| | 26095 | | | /50/ | 258 | Toy Train, Flasher Lamp | 14.0 | .27A | 1.6 | G-4 1/2 | Miniature Screw | C-2R | .81 | 1.07 | 500 3, 70 |
| | 26099 | | | /50/ | 259 | Radio, TV, and Indicator | 6.3 | .25A | .65 | T-3/4 | Wedge | C-2R | .65 | 1.06 | 5,000 44, 147 |
| | 44719 | | | /50/ | 265 | Indicator | 28.0 | .08A | .75 | G-3 1/2 | Miniature Bayonet | C-2F | .50 | .94 | 5,000 |
| | 42758 | | | /50/ | 267 | Indicator – Flasher Lamp | 6.3 | .15A | .33 | T-3/4 | Miniature Bayonet | C-2R | .62 | 1.19 | 5,000 3, 70 |
| | 32688 | | | /50/ | 293 | Auto and Radio | 14.0 | .33A | 2 | G-4 1/2 | Miniature Bayonet | C-2F | .56 | 1.07 | 7,500 |
| | 81642 | | | /50/ | 301 | Aircraft | 28.0 | .17A | 3 | G-5 | S.C. Bayonet | C-2F | .69 | 1.25 | 500 |
| | 26120 | | | /50/ | 302 | Aircraft | 28.0 | .17A | 3 | G-5 | D.C. Bayonet | C-2F | .69 | 1.25 | 500 |
| | 81641 | | | /50/ | 303 | Aircraft | 28.0 | .30A | 6 | G-6 | S.C. Bayonet | C-2F | .75 | 1.44 | 500 |
| | 81643 | | | /50/ | 304 | Aircraft | 28.0 | .30A | 6 | G-6 | D.C. Bayonet | C-2F | .75 | 1.44 | 500 |
| | 26143 | | | /50/ | 305 | Aircraft | 28.0 | .51A | 15 | S-8 | S.C. Bayonet | C-2V | 1.12 | 2.0 | 300 |
| | 26145 | | | /50/ | 305AF | Aircraft – All frosted | 28.0 | .51A | — | S-8 | S.C. Bayonet | C-2V | — | 2.0 | 300 |
| | 26152 | | | /50/ | 306 | Aircraft | 28.0 | .51A | 15 | S-8 | D.C. Bayonet | C-2V | 1.12 | 2.0 | 300 |
| | 81644 | | | /50/ | 307 | Aircraft | 28.0 | .67A | 21 | S-8 | S.C. Bayonet | C-2V | 1.12 | 2.0 | 300 |
| | 26161 | | | /50/ | 307AF | Aircraft – All frosted | 28.0 | .67A | 21 | S-8 | S.C. Bayonet | C-2V | — | 2.0 | 300 |
| | 81645 | | | /50/ | 308 | Aircraft | 28.0 | .67A | 21 | S-8 | D.C. Bayonet | C-2V | 1.12 | 2.0 | 300 |
| | 81646 | | | /50/ | 308AF | Aircraft – All frosted | 28.0 | .67A | — | S-8 | D.C. Bayonet | C-2V | — | 2.0 | 300 |
| | 26175 | | | /10/ | 309 | Aircraft | 28.0 | .90A | 32 | S-11 | S.C. Bayonet | C-2V | 1.25 | 2.38 | 300 |
| | 81647 | | | /10/ | 311 | Aircraft | 28.0 | 1.29A | 50 | S-11 | S.C. Bayonet | C-2V | 1.25 | 2.38 | 300 |
| | 81649 | 81650 | | /50/4000 | 313 | Aircraft | 28.0 | .17A | 3.5 | T-3/4 | Miniature Bayonet | C-2F | .62 | 1.19 | 500 |
| | 81651 | | | /50/ | 315 | Aircraft | 28.0 | .90A | 32 | S-8 | S.C. Bayonet | C-2V | 1.12 | 2.0 | 300 |
| | 81652 | | | /50/ | 316 | Aircraft | 6.0 | .70A | 3.4 | T-3/4 | Miniature Bayonet | C-2R | .62 | 1.19 | 500 |
| | 80862 | | | /10/ | 317 | Aircraft | 12.0 | 3.5W | 2.63 | T-3 | G4 2-Pin | C-2R | .78 | 1.16 | 1000 |
| | 28519 | | | /50/ | 327 | Aircraft | 28.0 | .04A | .34 | T-1 1/4 | S.C. Midget Flanged | C-2F | .38 | .63 | 4,000 79 |
| | 28546 | | | /50/ | 328 | Aircraft | 6.0 | .20A | .34 | T-1 1/4 | S.C. Midget Flanged | C-2R | .38 | .63 | 1,000 10 |
| | 28567 | | | /50/ | 330 | Aircraft | 14.0 | .08A | .5 | T-1 1/4 | S.C. Midget Flanged | C-2F | .38 | .63 | 1,500 |
| | 28588 | | | /50/ | 334 | Aircraft | 28.0 | .04A | .34 | T-1 1/4 | Midget Grooved | C-2F | .38 | .63 | 4,000 79 |
| | 29917 | | | //1000 | 338 | Aircraft | 2.7 | .06A | .04 | T-1 1/4 | Midget Flanged | C-2R | — | .63 | 6,000 |
| | 29918 | | | //1000 | 345 | Aircraft | 6 | .04A | .055 | T-1 1/4 | Midget Flanged | C-2R | — | .63 | 10,000 |
| | 26255 | | | /50/ | 356 | Aircraft | 28.0 | .17A | 3.5 | G-3 1/2 | Miniature Bayonet | C-2F | .50 | .94 | 500 14 |
| | 87381 | | | //1000 | 380 | Aircraft | 6.3 | .04A | .03 | T-1 1/4 | Midget Flanged | C-2V | — | .64 | 50,000 |
| | 28653 | | | /50/ | 381 | Indicator | 6.3 | .20A | .4 | T-1 1/4 | S.C. Midget Flanged | C-2F | .38 | .63 | 20,000 79 |
| | 28657 | | | /50/ | 382 | Indicator | 14.0 | .08A | .3 | T-1 1/4 | S.C. Midget Flanged | C-2F | .38 | .63 | 40,000 79 |
| | 28660 | | | /50/ | 385 | Indicator | 28.0 | .04A | .15 | T-1 1/4 | S.C. Midget Flanged | C-2F | .44 | .81 | 10,000 78,79 |
| | 87306 | | | //1000 | 385AS15 | Aircraft | 28.0 | .04A | .2 | T-1 1/4 | Midget Flanged | C-2F | — | .36 | 25,000 |
| | 28662 | | | /50/ | 386 | Indicator | 14.0 | .08A | .3 | T-1 1/4 | Midget Grooved | C-2F | .38 | .63 | 40,000 79 |
| | 28664 | 25090 | | /50/1000 | 387 | Indicator | 28.0 | .04A | .3 | T-1 1/4 | Midget Flanged | C-2F | — | .63 | 7,000 |
| | 28672 | | | /50/ | 388 | Indicator | 28.0 | .04A | .3 | T-1 1/4 | Midget Grooved | C-2F | .38 | .63 | 7,000 79 |
| | 87398 | | | //1000 | 394 | Aircraft | 12 | .04A | .12 | T-1 1/4 | Midget Flanged | C-2F | — | .64 | 10,000 |
| | 38918 | | | /50/ | 400 | Aircraft | 28.0 | .10A | 1.6 | T-3/4 | Wedge | C-2F | .56 | 1.06 | 1,000 |



Miniature & Sealed Beam Lamps

| Order Code Blister | Case Qty. Unit | GE Lamp No. | Primary Application | Volts | Amps or Watts | MSCP | Bulb | Base | Filament Design | LCL (in) | MOL (in) | Rated Life (hrs) | Warning & Footnotes | |
|------------------------------------|-------------------|----------------|-------------------------|------------------------|------------------|-------|-------|--------------------|--------------------|-------------|-------------|---------------------|------------------------|----------|
| MINIATURE LAMPS (CONTINUED) | | | | | | | | | | | | | | |
| 26354 | /50/ | 425 | Hand Lantern – 4F Cells | 5.0 | .50A | 2.3 | G-4½ | Miniature Screw | C-2R | .72 | 1.07 | 15 | 116 | |
| 26441 | /50/ | 456 | Instrument | 28.0 | .17A | 2 | G-4½ | Miniature Bayonet | C-2F | .56 | 1.07 | 5,000 | | |
| 39645 | /50/ | 464 | Aircraft | 28.0 | .17A | 3 | T-3¼ | Wedge | C-2F | .56 | 1.06 | 1,500 | | |
| 26460 | /50/ | 502 | Hand Lantern – 4F Cells | 5.1 | .15A | .6 | G-4½ | Miniature Screw | C-2R | .72 | 1.07 | 100 | 116 | |
| 26485 | /50/ | 509K | Indicator | 24.0 | .18A | 2.8 | G-6 | Candelabra Screw | C-2R | .75 | 1.47 | 1,000 | 303 | |
| 44773 | 44774 | /50/4000 | 555 | Coin, Novelty | 6.3 | .25A | .9 | T-3¼ | Wedge | C-2R | .65 | 1.06 | 3,000 | |
| 38269 | /50/ | 558 | Auto Lens end | 13.0 | .33A | – | TL-3¼ | Wedge | C-2V | – | 1.06 | 500 | 68 | |
| 12358 | 39746 | 40023 | 48/50/1000 | 561 | Auto | 12.8 | .97A | 12 | T-3 | Rigid Loop | C-8 | – | 1.72 | 1,000 |
| 23019 | 40024 | 48//1000 | 562 | Auto | 13.5 | .74A | 6 | T-3 | Rigid Loop | C-8 | – | 1.72 | 2,000 | 4 |
| 26205 | 48// | 563 | Auto | 13.5 | .52A | 4 | T-3 | Rigid Loop | C-8 | – | 1.72 | 1,000 | 4 | |
| 12672 | 48// | 570 | Truck Bed Light | 12.8 | 2.10A | 32 | T-4¾ | Rigid Loop | C-8 | – | 1.72 | 600 | | |
| 23020 | 48// | 577 | Auto | 12.8 | 1.40A | 21 | T-4¾ | Double End Cap | C-8 | – | 1.72 | 1,000 | | |
| 18442 | 18439 | /50/4000 | 590 | Strip Lighting (Xenon) | 13.5 | .37A | 4 | T-3¼ | Wedge | C-2V | .5 | 1.06 | 2,000 | |
| 25199 | 25200 | /50/4000 | 591 | Strip Lighting (Xenon) | 14.0 | .24A | 2 | T-3¼ | Wedge | C-2V | .5 | 1.06 | 3,000 | |
| 26549 | /50/ | 605 | Flashlight – 5D Cells | 6.15 | .50A | 3.4 | G-4½ | Miniature Screw | C-2R | .72 | 1.07 | 15 | 116 | |
| 81653 | 81654 | /50/1000 | 623 | Instrument | 28.0 | .37A | 6 | G-6 | S.C. Bayonet | 2C-2V | .75 | 1.44 | 1,000 | |
| 26567 | 26568 | /50/1000 | 624 | Marine | 28.0 | .37A | 6 | G-6 | D.C. Bayonet | 2C-2V | .75 | 1.44 | 1,000 | |
| 23023 | 26570 | 48/50/ | 631 | Auto | 14.0 | .63A | 6 | G-6 | S.C. Bayonet | 2C-2R | .75 | 1.44 | 1,000 | |
| 38866 | /50/ | 656 | Indicator | 28.0 | .06A | .62 | T-3¼ | Wedge | C-2F | .56 | 1.06 | 2,500 | | |
| 38196 | /50/ | 657 | Indicator | 28.0 | .08A | .62 | T-3¼ | Wedge | C-2F | .56 | 1.06 | 15,000 | 79 | |
| 81670 | /50/ | 658 | Indicator | 14.0 | .08A | 0.31 | T-3¼ | Wedge | C-2F | 0.56 | 1.06 | 15,000 | | |
| 87407 | //1000 | 680 | Aircraft | 5.0 | .06A | .03 | T-1 | Wire Terminal | C-2R | | .24 | 100,000 | | |
| 87336 | //1000 | 683 | Aircraft | 5.0 | .06A | .05 | T-1 | Wire Terminal | C-2R | | .24 | 100,000 | | |
| 87321 | //1000 | 683AS15 | Aircraft | 5.0 | .06A | .05 | T-1 | Wire Terminal | C-2R | | .24 | 100,000 | | |
| 28706 | //1000 | 685 | Aircraft | 5.0 | .06A | .05 | T-1 | Sub-Midget Flanged | C-2R | .19 | .38 | 40,000 | 79 | |
| 87276 | /1000 | 685AS15 | Aircraft | 5.0 | .06A | .05 | T-1 | Sub-Midget Flanged | C-2R | | .36 | 100,000 | | |
| 43132 | /50/ | 705 | Aircraft | 28.0 | .51A | 15 | S-8 | S.C. Bayonet | CC-6 | 1.12 | 2.0 | 900 | | |
| 87411 | //1000 | 713 | Aircraft | 5.0 | .75A | .09 | T-1 | Wire Terminal | C-2R | | .24 | 100,000 | | |
| 29903 | //1000 | 715 | Aircraft | 5.0 | .115A | .15 | T-1 | Wire Terminal | C-2R | | .25 | 40,000 | | |
| 29901 | //1000 | 715AS15 | Aircraft | 5.0 | .115A | .15 | T-1 | Wire Terminal | C-2R | | .25 | 40,000 | | |
| 29916 | //1000 | 718 | Aircraft | 5.0 | .115A | .15 | T-1 | Sub-Midget Flanged | C-2R | | .36 | 40,000 | | |
| 29905 | //1000 | 718AS15 | Aircraft | 5.0 | .115A | .15 | T-1 | Sub-Midget Flanged | C-2R | | .36 | 40,000 | | |
| 26591 | /50/ | 755 | Indicator | 6.3 | .15A | .33 | T-3¼ | Miniature Bayonet | C-2R | .78 | 1.19 | 20,000 | | |
| 26593 | /50/ | 756 | Indicator | 14.0 | .08A | .31 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 15,000 | | |
| 81655 | /50/ | 757 | Indicator | 28.0 | .08A | .62 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 15,000 | 79 | |
| 11014 | /20/ | 767 | Instrument | 6.0 | 2.00A | 19 | T-2¼ | Miniature Bayonet | C-6 | .56 | 1.13 | 50 | 306 | |
| 11250 | /10/ | 773 | Special Service | 12.0 | .67A | 10 | T-2¾ | G-4 Two Pin | C-6 | .77 | 1.05 | 1,000 | 124, 306 | |
| 12723 | 12724 | /10/500 | 774 | Emergency Lighting | 12.0 | .67A | 13 | T-2¼ | G-4 Two Pin | C-6 | .77 | 1.0 | 50 | 124, 306 |
| 47618 | //500 | 777 | Flashlight, Halogen | 4.0 | 1.20A | 5.5 | T-2¼ | G-4 Two Pin | C-6 | .77 | 1.0 | 275 | 124, 306 | |
| 49718 | /10/ | 778 | Instrument | 6.0 | 3.33A | 32 | T-2¾ | G-4 Two Pin | C-6 | .77 | 1.05 | 100 | 124, 306 | |
| 18344 | 18345 | /10/500 | 780 | Strip Light | 12.0 | 10W | 12 | T-2¾ | G-4 Two Pin | C-6 | .77 | 1.05 | 2,000 | 124, 306 |
| 44840 | 44841 | /10/500 | 782 | Special Service | 12.0 | 1.66A | 25 | T-2¾ | G-4 Two Pin | C-6 | .77 | 1.05 | 2,000 | 124, 306 |
| 44500 | 44501 | /10/500 | 783 | Emergency Lighting | 12.0 | 1.00A | 22 | T-2¼ | G-4 Two Pin | C-6 | .77 | 1.0 | 50 | 124, 306 |
| 43760 | 43761 | /10/500 | 784 | Emergency Lighting | 6.0 | 1.00A | 9 | T-2¼ | G-4 Two Pin | C-6 | .77 | 1.0 | 50 | 124, 306 |
| 43762 | 43763 | /10/500 | 785 | Emergency Lighting | 6.0 | 1.33A | 13 | T-2¼ | G-4 Two Pin | C-6 | .77 | 1.0 | 50 | 124, 306 |
| 43764 | 43765 | /10/500 | 786 | Emergency Lighting | 6.0 | 2.00A | 19 | T-2¼ | G-4 Two Pin | C-6 | .77 | 1.0 | 50 | 124, 306 |
| 43115 | 43116 | /10/500 | 787 | Instrument | 6.0 | 1.67A | 16 | T-2¼ | G-4 Two Pin | C-6 | .77 | 1.0 | 100 | 124, 306 |
| 43117 | 43118 | /10/500 | 788 | Instrument | 6.0 | 3.33A | 32 | T-2¼ | G-4 Two Pin | C-6 | .77 | 1.0 | 100 | 124, 306 |
| 43119 | /10/ | 789 | Instrument | 12.0 | 1.17A | 22 | T-2¾ | G-4 Two Pin | C-6 | .77 | 1.05 | 200 | 124, 306 | |
| 43121 | 43122 | /10/500 | 790 | Instrument | 14.0 | 1.79A | 42 | T-2¾ | G-4 Two Pin | C-6 | .77 | 1.05 | 200 | 124, 306 |
| 43123 | 43124 | /10/500 | 791 | Instrument | 14.0 | 2.50A | 61 | T-2¾ | G-4 Two Pin | C-6 | .77 | 1.05 | 200 | 124, 306 |
| 20469 | /10/ | 795 | Signal | 12.8 | 50W | 108 | T-4 | S.C. Bayonet | C-6 | 1.25 | 2.50 | 200 | 4, 306 | |



Miniature & Sealed Beam Lamps

| Blister | Order Code Unit | Case Qty. Bulk | GE BP/Unit/Bulk | Lamp No. | Primary Application | Volts | Amps or Watts | MSCP | Bulb | Base | Filament Design | LCL (in) | MOL (in) | Rated Life (hrs) | Warning & Footnotes |
|------------------------------------|-----------------|----------------|-----------------|----------|--------------------------|-------|---------------|-------|------|-------------------|-----------------|----------|----------|------------------|---------------------|
| MINIATURE LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| | 40848 | 14132 | /10/540 | 862 | Tractor | 12.8 | 2.93A | 60 | T-3¼ | Rt Angle Prefocus | C-6 | 1.25 | 2.68 | 1,900 | 306 |
| 12320 | | 20904 | 48/ /540 | 880 | Auto Fog. H27W/1 | 12.8 | 2.10A | 43 | T-3¼ | Axial Prefocus | C-6 C-6 | 1.25 | 2.68 | 300 | 17, 160, 306 150 |
| | | 27582 | / /540 | 880L | Auto Fog. H27W/1 | 12.8 | 2.10A | 43 | T-3¼ | Axial Prefocus | C-6 | 1.25 | 2.68 | 300 | 17, 160, 306 |
| | | 14694 | / /540 | 880X | Auto Fog. H27W/1 | 12.8 | 2.10A | 43 | T-3¼ | Axial Prefocus | C-6 | 1.25 | 2.68 | 1,000 | 17, 160, 306 |
| 12334 | | 20905 | 48/ /540 | 881 | Auto Fog. H27W/2 | 12.8 | 2.10A | 43 | T-3¼ | Rt Angle Prefocus | C-6 C-6 | 1.25 | 2.68 | 300 | 17, 160, 306 150 |
| | | 27583 | / /540 | 881L | Auto Fog. H27W/2 | 12.8 | 2.10A | 43 | T-3¼ | Rt Angle Prefocus | C-6 | 1.25 | 2.68 | 1,000 | 17, 160, 306 |
| | | 11646 | / /540 | 881X | Auto Fog. H27W/2 | 12.8 | 2.10A | 43 | T-3¼ | Rt Angle Prefocus | C-6 | 1.25 | 2.68 | 300 | 17, 160, 306 |
| | 13158 | 13161 | /10/1000 | 882 | Auto Inst. | 12.8 | .35A | 3.8 | T-2¼ | Socket | C-6 | .37 | 1.18 | 2,000 | 306 |
| | 18167 | 16772 | /10/500 | 882X | Auto Inst. | 12.8 | .35A | 3.8 | T-2¼ | G-4 Two Pin | C-6 | .77 | 1.0 | 2,000 | 124, 306 |
| 12335 | | 20907 | 48/ /540 | 885 | Auto Fog | 12.8 | 3.90A | 100 | T-3¼ | Axial Prefocus | C-6 | 1.25 | 2.68 | 200 | 4, 306 |
| 14689 | | 20909 | 48/ /540 | 886 | Auto Fog | 12.8 | 3.90A | 100 | T-3¼ | Rt Angle Prefocus | C-6 | 1.25 | 2.68 | 200 | 4, 306 |
| | | 25639 | / /540 | 887 | Tractor Work Light | 12.8 | 3.90A | 95 | T-3¼ | Axial Prefocus | C-6 | 1.25 | 2.68 | 400 | 4, 306 |
| | | 25703 | / /540 | 888 | Tractor Work Light | 12.8 | 3.90A | 95 | T-3¼ | Rt Angle Prefocus | C-6 | 1.25 | 2.68 | 400 | 4, 306 |
| 12336 | | 20910 | 48/ /540 | 889 | Auto – Signal | 12.8 | 2.10A | 43 | T-3¼ | Right Angle | C-6 | 1.00 | 2.68 | 300 | 306 |
| 12337 | | 20911 | 48/ /540 | 890 | Auto – Signal | 12.8 | 2.10A | 43 | T-3¼ | Axial | C-6 | 1.00 | 2.68 | 300 | 306 |
| 12308 | 15246 | 15248 | 48/10/500 | 891 | Auto High Mounted Stop | 12.8 | .63A | 11 | T-2¼ | G-4 Two Pin | C-6 | .77 | 1.0 | 500 | 306,124 |
| | 16481 | | /10/ | 892 | Auto, Signal | 12.8 | 1.25A | 28 | T-3¼ | Axial | C-6 | 1.00 | 2.68 | 300 | 306 |
| 12338 | | 20913 | 48/ /540 | 893 | Auto Fog | 12.8 | 2.93A | 75 | T-3¼ | Axial Prefocus | C-6 | 1.25 | 2.68 | 200 | 4, 17, 160, 306 |
| | | 12727 | / /540 | 893X | Auto Fog | 12.8 | 2.93A | 75 | T-3¼ | Axial Prefocus | C-6 | 1.25 | 2.68 | 200 | 4, 17, 160, 306 |
| 22112 | 20238 | 18455 | 48/10/540 | 894 | Tractor | 12.8 | 2.93A | 75 | T-3¼ | Rt Angle Prefocus | C-6 | 1.25 | 2.68 | 200 | 4, 306 |
| | | 26345 | / /540 | 894X | Tractor | 12.8 | 2.93A | 75 | T-3¼ | Rt Angle Prefocus | C-6 | 1.25 | 2.68 | 200 | 4, 306 |
| 22113 | | 20914 | 48/ /540 | 896 | Auto Fog | 12.8 | 2.93A | 75 | T-3¼ | Rt Angle Prefocus | C-6 | 1.25 | 2.68 | 200 | 4, 17, 160, 306 |
| | | 12271 | / /540 | 898 | Auto Fog | 12.8 | 2.93A | 60 | T-3¼ | Rt Angle Prefocus | C-6 | 1.25 | 2.68 | 1,900 | 4, 17, 160, 306 |
| 22111 | | 12272 | 48/ /540 | 899 | Auto Fog | 12.8 | 2.93A | 60 | T-3¼ | Axial Prefocus | C-6 | 1.25 | 2.68 | 1,900 | 4, 17, 160, 306 |
| 14273 | | 14007 | 48/ /1000 | 901 | Garden & Security | 12.8 | .31A | 2.9 | T-5 | Wedge | C-2R | 0.81 | 1.49 | 500 | |
| 40675 | | | 30/ / | 901A | Garden & Security. Amber | 12.8 | .31A | - | T-5 | Wedge | C-2R | 0.81 | 1.49 | 500 | |
| 23024 | 40462 | 40463 | 48/50/1000 | 904 | Auto – Heavy Duty | 13.5 | .69A | 4 | T-5 | Wedge | C-2F | .81 | 1.49 | 5,000 | 4 |
| 12366 | 40289 | 40290 | 48/50/1000 | 906 | Auto – Heavy Duty | 13.0 | .69A | 6 | T-5 | Wedge | C-2F | .81 | 1.49 | 1,000 | |
| | | 48505 | / /1000 | 906A | Auto, Side Signal-Amber | 13.0 | .69A | - | T-5 | Wedge | C-2F | .81 | 1.49 | 1,000 | |
| | 44754 | 44755 | /50/1000 | 908 | Emergency Lighting | 6.0 | 1.50A | 12 | T-5 | Wedge | C-2R | 0.81 | 1.49 | 50 | |
| | 44756 | 44757 | /50/1000 | 909 | Emergency Lighting | 6.0 | .62A | 3 | T-5 | Wedge | C-2R | 0.81 | 1.49 | 50 | |
| 12365 | 40504 | 40505 | 48/50/1000 | 912 | Auto – Heavy Duty | 12.8 | 1.00A | 12 | T-5 | Wedge | C-2R | .81 | 1.49 | 1,000 | |
| | | 44769 | /50/ | 914 | Emergency Lighting | 4.0 | .90A | 3.5 | T-5 | Wedge | C-6 | 0.75 | 1.49 | 50 | |
| | 44771 | 44772 | /50/1000 | 915 | Emergency Lighting | 12.0 | .75A | 11 | T-5 | Wedge | C-2R | 0.81 | 1.49 | 50 | |
| 23025 | | 16288 | 48/ /1000 | 916 | Auto, Side Marker | 13.5 | .54A | 2 | T-5 | Wedge | C-2F | .81 | 1.49 | 10,000 | |
| 23026 | 21860 | | 48/50/ | 916NA | Auto, Side Marker. Amber | 13.0 | .54A | 1.5 | T-5 | Wedge | C-2F | .81 | 1.49 | 10,000 | |
| | | 44801 | / /1000 | 917 | Home Appliance | 12.0 | 1.20 | 10 | T-5 | Wedge | C-2F | .81 | 1.49 | 1,200 | |
| 40179 | 17837 | 14008 | 30/50/2000 | 918 | Garden & Security | 12.8 | .56A | 6.5 | T-5 | Wedge | C-2R | .81 | 1.49 | 500 | |
| 26199 | | | 48/ / | 920 | Auto | 12.8 | 1.20A | 10 | T-5 | Wedge | - | .81 | 1.49 | 1,200 | |
| 12307 | 43374 | 11743 | 48/50/1000 | 921 | Auto – Heavy Duty | 12.8 | 1.40A | 21 | T-5 | Wedge | C-2R | .81 | 1.49 | 500 | 121 |
| 85938 | | | 25/ / | 921XEBP | Undercabinet Fixture | 12.8 | 18W | 21.17 | T-5 | Wedge | C-2R | .81 | 1.49 | 10,000 | |
| 23027 | 13274 | 13275 | 48/50/1000 | 922 | Auto – Heavy Duty | 12.8 | .98A | 15 | T-5 | Wedge | C-2R | .81 | 1.49 | 200 | |
| 40180 | | | 30/ / | 923 | Garden & Security | 12.8 | .91A | 12.5 | T-5 | Wedge | C-2R | .81 | 1.49 | 500 | |
| | | 13483 | /50/ | 926 | Emergency Lighting | 4.0 | 1.80A | 7.5 | T-5 | Wedge | C-2R | 0.81 | 1.49 | 50 | |
| | 13485 | 13486 | /50/1000 | 927 | Emergency Lighting | 6.0 | 1.20A | 8 | T-5 | Wedge | C-2R | 0.81 | 1.49 | 50 | |
| | 16975 | 15285 | /50/1000 | 939 | Emergency Lighting | 6.0 | .90A | 5.4 | T-5 | Wedge | C-2R | 0.81 | 1.49 | 50 | |



Miniature & Sealed Beam Lamps

| Order Code Blister | Case Qty. Unit | GE Lamp No. | Primary Application | Volts | Amps or Watts | MSCP | Bulb | Base | Filament Design | LCL (in) | MOL (in) | Rated Life (hrs) | Warning & Footnotes | |
|------------------------------------|-------------------|----------------|---------------------|---------------------------------|---------------------------|---------------|---------------|-------------------|--------------------|-------------|-------------|---------------------|------------------------|-----|
| MINIATURE LAMPS (CONTINUED) | | | | | | | | | | | | | | |
| | 23684 | //2000 | 963 | Emergency Lighting | 6.0 | 2.00A | 15 T-5 | Wedge | C-2R | 0.81 | 1.49 | 50 | | |
| 12367 | 26709 | 48/50/ | 1003 | Auto Interior | 12.8 | .94A | 15 B-6 | S.C. Bayonet | C-6 | 1.06 | 1.75 | 200 | | |
| 47800 | | 48// | 1003KR | Auto Interior. Long Life | 12.8 | .94A | 15 B-6 | S.C. Bayonet | C-6 | 1.06 | 1.75 | 400 | | |
| 12373 | 26726 | 26728 | 48/50/500 | 1004 | Auto Interior and Marine | 12.8 | .94A | 15 B-6 | D.C. Bayonet | C-6 | 1.06 | 1.75 | 200 | |
| | 26775 | /50/ | 1034 | Auto Stop Tail Signal | 12.8 14.0 | 1.80A .59A | 32 S-8 | D.C. Index | C-6 | 1.25 | 2 | 200 5,000 | | |
| | 32147 | /10/ | 1062 | Special Service | 40.0 | .92A | 50 RP-11 | D.C. Bayonet | C-5 | 1.25 | 2.25 | 100 | 305 | |
| 40134 | 26838 | 48/50/ | 1073 | Auto Signal | 12.8 | 1.80A | 32 S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 200 | | |
| | 26854 | /50/ | 1076 | Auto | 12.8 | 1.80A | 32 S-8 | D.C. Bayonet | C-6 | 1.25 | 2.0 | 200 | | |
| | 37169 | /10/ | 1096 | Instrument, Microscope | 6.0 | 4.50A | 30 S-8 | D.C. Pf. (S) | C-2R | 1.00 | 2.0 | 500 | | |
| | 26872 | /10/ | 1129 | Special Service | 6.4 | 2.63A | 21 S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 200 | | |
| | 26885 | /10/ | 1133 | Instrument | 6.2 | 3.91A | 32 RP-11 | S.C. Bayonet | C-2R | 1.25 | 2.25 | 200 | 305 | |
| 12346 | 26903 | 26905 | 48/50/500 | 1141 | Auto | 12.8 | 1.44A | 21 S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 1,000 | |
| 47802 | | 48// | 1141KR | Auto. Long Life | 12.8 | 1.44A | 21 S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 2,000 | | |
| | 26917 | 26919 | /50/500 | 1142 | Auto | 12.8 | 1.44A | 21 S-8 | D.C. Bayonet | C-6 | 1.25 | 2.0 | 1,000 | |
| | 26945 | /10/ | 1152 | Special Service | 12.8 | 1.34A | 21 S-8 | D.C. Bayonet | C-2R | 1.25 | 2 | 500 | | |
| 12297 | | 48// | 1154 | Auto Stop, Tail, Signal | 6.4 7 | 2.63A .75A | 21 S-8 | D.C. Index | C-6 | 1.25 | 2 | 200 1,000 | | |
| | 26955 | /50/ | 1155 | Auto, Truck Marker | 13.5 | .59A | 4 G-6 | S.C. Bayonet | 2C-2R | .81 | 1.44 | 5,000 | 4 | |
| 12344 | 26960 | 26962 | 48/50/500 | 1156 | Auto Stop | 12.8 | 2.10A | 32 S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 1,200 | |
| 23334 | | 48// | 1156KR | Auto Stop. Long Life | 12.8 | 2.10A | 32 S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 2,400 | | |
| 21028 | 20248 | 48/50/ | 1156NA | Auto Stop. Amber | 12.8 | 2.10A | 24 S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 1,200 | | |
| 12294 | 26969 | 26971 | 48/50/500 | 1157 | Auto Stop, Signal | 12.8 14.0 | 2.10A .59A | 32 S-8 | D.C. Index | C-6 C-6 | 1.25 | 2.0 | 1,200 5,000 | |
| 23337 | | 48// | 1157KR | Auto Stop, Signal. Long Life | 12.8 14.0 | 2.10A .59A | 32 S-8 | D.C. Index | C-6 C-6 | 1.25 | 2.0 | 2,400 10,000 | | |
| 12310 | 26975 | 26976 | 48/50/500 | 1157NA | Amber Amber | 12.8 14.0 | 2.10A .59A | 24 S-8 | D.C. Index | C-6 C-6 | 1.25 | 2.0 | 1,200 5,000 | |
| 47798 | | 48// | 1157 NAKR | Auto Stop, Amber. Long Life | 12.8 14.0 | 2.10A .59A | 24 S-8 | D.C. Index | C-6 C-6 | 1.25 | 2.0 | 2,400 10,000 | | |
| | 27004 | /10/ | 1176 | Auto Stop, Tail, Signal | 12.8 14.0 | 1.34A .59A | 21 S-8 | D.C. Bayonet | C-6 C-6 | 1.25 | 2.0 | 300 1,500 | | |
| | 27021 | 27023 | /50/500 | 1195 | Auto – Nickel-plated base | 12.5 | 3.00A | 50 RP-11 | S.C. Bayonet | C-2R | 1.25 | 2.25 | 300 | 305 |
| | 27026 | /10/ | 1196 | Auto | 12.5 | 3.00A | 50 RP-11 | D.C. Bayonet | C-2R | 1.25 | 2.25 | 300 | 305 | |
| | 27032 | /10/ | 1203 | Special Service | 28.0 | .71A | 21 S-8 | S.C. Bayonet | C-2V | 1.25 | 2.0 | 400 | | |
| | 27044 | /50/ | 1224 | Marine | 34.0 | .16A | 3.8 G-6 | D.C. Bayonet | C-2F | .69 | 1.44 | 500 | 147 | |
| | 39904 | /10/ | 1229 | Emergency Lighting | 40.0 | .38A | 15 S-8 | D.C. Bayonet | C-2V | 1.12 | 2.0 | 400 | | |
| | 81679 | /50/ | 1251 | Instrument, filaments in series | 28.0 | .23A | 3 G-6 | S.C. Bayonet | 2C-2V | .75 | 1.44 | 2,000 | | |
| | 27097 | /50/ | 1252 | Instrument, filaments in series | 28.0 | .23A | 3 G-6 | D.C. Bayonet | 2C-2V | .75 | 1.44 | 2,000 | | |
| 41755 | 22523 | 48/10/ | 1295NA | Auto Signal | 12.5 | 3.00A | 37 S-8 | S.C. Bayonet | C-2R | 1.25 | 2.0 | 200 | | |
| | 12824 | /50/ | 1308 | Aircraft Reading | 28.0 | .56A | 16 B-6 | S.C. Bayonet | CC-8 | 1.06 | 1.75 | 2,000 | | |
| | 81656 | /50/ | 1309 | Aircraft Interior | 28.0 | .52A | 15 B-6 | S.C. Bayonet | 2C-2R | 1.06 | 1.75 | 300 | | |
| | 81667 | /50/ | 1315 | Aircraft Emergency Lighting | 2.5 | 1.00A | 1.75 G-5 | S.C. Bayonet | C-6 | .69 | 1.25 | 20 | 116 | |
| | 34265 | /50/ | 1317 | Aircraft Emergency Lighting | 6.00 | .51A | 3.4 B-6 | S.C. Bayonet | C-6 | 1.12 | 1.75 | 100 | 116 | |
| | 27150 | /10/ | 1383 | Auto, Reading Light | 13.0 | 20W | – R-12 | S.C. Bayonet | C-8 | – | 2.63 | 300 | | |
| | 27154 | /10/ | 1385 | Special Reading Light | 28.0 | 20W | – R-12 | S.C. Bayonet | CC-8 | – | 2.63 | 300 | | |
| | 27159 | /10/ | 1388 | Special Telephone Trouble | 24.0 | 20W | – R-12 | D.C. Bayonet | CC-8 | – | 2.63 | 500 | | |
| | 27179 | /50/ | 1408 | Signal | 10.0 | .13A | .85 T-3/4 | Miniature Bayonet | C-2V | .62 | 1.19 | 250 | 13 | |
| | 27193 | /10/ | 1434 | Instrument, Photocell exciter | 3.7 | 2.75A | 11 T-5 | S.C. Bayonet | C-6 | 1.12 | 1.75 | 100 | | |



Miniature & Sealed Beam Lamps

| Blister | Order Code Unit | Case Qty. Bulk | GE BP/Unit/Bulk | Lamp No. | Primary Application | Volts | Amps or Watts | MSCP | Bulb | Base | Filament Design | LCL (in) | MOL (in) | Rated Life (hrs) | Warning & Footnotes |
|------------------------------------|-----------------|----------------|-----------------|----------|---------------------------|-------|---------------|------|------|-------------------|-----------------|----------|----------|------------------|---------------------|
| MINIATURE LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| 12329 | 27207 | 27209 | 48/50/4000 | 1445 | Auto / Toy Train Ratings | 14.4 | .135A | .7 | G-3½ | Miniature Bayonet | C-2V | .50 | .94 | 2,000 | 13 |
| | 27252 | | /50/ | 1449 | Toy Train | 14.0 | .20A | 2 | G-3½ | Miniature Screw | C-2V | .72 | .94 | 250 | 13 |
| | 27263 | | /50/ | 1450 | Indicator | 24.0 | .035A | .23 | G-3½ | Miniature Bayonet | C-2F | .50 | .94 | 3,000 | |
| | 28310 | | /10/ | 1460 | Medical | 6.5 | 2.75A | 23 | S-8 | D.C. Pf. (A) | C-6 | 1.25 | 2.0 | 100 | 11 |
| | 81669 | 37343 | /10/500 | 1460X | Microscope Illuminator | 6.5 | 2.75A | 23 | S-8 | D.C. Pf. (A) | C-6 | 1.25 | 2.0 | 100 | 11 |
| | 27305 | | /10/ | 1468 | Medical Instrument | 6.0 | 4.50A | 30 | S-8 | D.C. Pf. (S) | C-2R | 1.25 | 2.0 | 500 | |
| | 27356 | | /50/ | 1487 | Indicator | 14.0 | .20A | 1.4 | T-3¼ | Miniature Screw | C-2F | .94 | 1.19 | 3,000 | |
| | 27382 | | /10/ | 1493 | Instrument, Microscope | 6.5 | 2.75A | 23 | S-8 | D.C. Bayonet | C-6 | 1.12 | 2.0 | 100 | 11 |
| | 81657 | | /10/ | 1495 | Aircraft | 28.0 | .30A | 6 | T-4½ | Miniature Bayonet | C-2F | .62 | 1.38 | 500 | 14 |
| | 81678 | | /10/ | 1495X | Aircraft – Gas filled | 28.0 | .30A | 6 | T-4½ | Miniature Bayonet | C-2F | .62 | 1.38 | 500 | |
| | 27431 | | /10/ | 1561 | Instrument, Colorimeter | 6.3 | 4.00A | 24 | S-11 | S.C. Pf. (B) | C-8Z | .88 | 2.38 | 1,500 | |
| | 81672 | | /10/ | 1591 | Auto | 28.0 | .61A | 15 | S-8 | S.C. Bayonet | C-2V | 1.12 | 2.0 | 1,000 | 13 |
| | 40945 | | /50/ | 1591AF | Aircraft – All frosted | 28.0 | .61A | – | S-8 | S.C. Bayonet | C-2V | – | 2.0 | 1,000 | 13 |
| | 27439 | | /10/ | 1594 | Instrument, Microscope | 6.0 | 5.00A | 36 | S-8 | D.C. Bayonet | C-6 | 1.25 | 2.0 | 250 | |
| | 27461 | | /10/ | 1612 | Instrument | 5.4 | 1.90A | 10 | S-8 | D.C. Bayonet | C-6 | 1.25 | 2.0 | 1,000 | 147 |
| | 27472 | | /10/ | 1619 | Instrument | 6.7 | 1.90A | 15 | S-8 | S.C. Bayonet | C-6 | 1.12 | 2.0 | 500 | |
| | 27488 | 27489 | /10/500 | 1630 | Instrument, Microscope | 6.5 | 2.75A | 23 | S-8 | D.C. Pf. (A) | C-6 | 1.00 | 2.0 | 100 | 11 |
| | 27491 | | /10/ | 1631X | Instrument, Colorimeter | 6.5 | 2.75A | 23 | S-8 | D.C. Pf. (A) | C-6 | 1.00 | 2.0 | 100 | 11 |
| | 27496 | | /10/ | 1634 | Instrument, Microscope | 20.0 | 1.00A | 24 | S-8 | D.C. Pf. (A) | CC-6 | 1.25 | 2.0 | 200 | |
| | 27504 | | /50/ | 1638 | Marine | 28.0 | 1.02A | 32 | S-8 | D.C. Bayonet | 2C-6 | 1.25 | 2.0 | 500 | |
| | 27529 | 27530 | /10/500 | 1662 | Aircraft | 28.0 | .93A | 32 | S-8 | D.C. Index | CC-6 | 1.25 | 2.0 | 400 | 13, 15, 33 |
| | | | | | | 28.0 | .34A | 6 | S-8 | D.C. Index | C-2V | – | – | 1,000 | |
| | 27532 | | /50/ | 1665 | Aircraft | 28.0 | .80A | 21 | S-8 | S.C. Bayonet | C-2V | 1.12 | 2.0 | 1,000 | 13 |
| | 81658 | | /50/ | 1665AF | Aircraft – All frosted | 28.0 | .80A | – | S-8 | S.C. Bayonet | C-2V | – | 2.0 | 1,000 | 13 |
| | 27548 | | /10/ | 1680 | Aircraft | 6.0 | 4.10A | 32 | S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 300 | |
| | 81668 | | /10/ | 1680X | Aircraft | 6.0 | 4.10A | 32 | S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 300 | |
| | 27557 | | /50/ | 1683 | Aircraft. Series filament | 28.0 | 1.02A | 32 | S-8 | S.C. Bayonet | 2C-6 | 1.25 | 2.0 | 500 | |
| | 27566 | | /50/ | 1691 | Aircraft. Series filament | 28.0 | .61A | 15 | S-8 | S.C. Bayonet | 2C-2R | 1.12 | 2.0 | 1,000 | |
| | 27568 | | /50/ | 1691AF | Aircraft. Frosted | 28.0 | .61A | – | S-8 | S.C. Bayonet | 2C-2R | – | 2.0 | 1,000 | |
| | 27571 | | /10/ | 1692 | Marine | 28.0 | .61A | 15 | S-8 | D.C. Bayonet | 2C-2R | 1.12 | 2.0 | 1,000 | |
| | | 87408 | / /1000 | 1764 | Aircraft | 28.0 | .04A | .34 | T-1¼ | Wire Terminal | C-2F | – | .4 | 4,000 | |
| | 27630 | | /10/ | 1777 | Aircraft Tail Light | 12.8 | 1.52A | 26 | S-8 | S.C. Bayonet | C-2R | 1.12 | 2.0 | 400 | |
| | 27667 | | /50/ | 1813 | Radio | 14.4 | .10A | .86 | T-3¼ | Miniature Bayonet | C-2V | .62 | 1.19 | 1,000 | 13 |
| | 27677 | 27679 | /50/4000 | 1815 | Indicator | 14.0 | .20A | 1.4 | T-3¼ | Miniature Bayonet | C-2F | .75 | 1.19 | 3,000 | 147 |
| 12359 | 27688 | | 48/50/ | 1816 | Aircraft and Auto | 13.0 | .33A | 3 | T-3¼ | Miniature Bayonet | C-2V | .62 | 1.19 | 1,000 | 13 |
| | 81659 | | /50/ | 1818 | Aircraft | 24.0 | .17A | 3.3 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 250 | 147 |
| | 81660 | 81661 | /50/1000 | 1819 | Indicator | 28.0 | .04A | .34 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 2,500 | |
| | 81663 | | /50/ | 1820 | Indicator | 28.0 | .10A | 1.6 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 1,000 | |
| | 27749 | | /50/ | 1822 | Indicator | 36.0 | .10A | 2.1 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 1,000 | |
| | 27772 | | /50/ | 1828 | Indicator | 37.5 | .05A | .65 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 3,000 | |
| | 81664 | | /50/ | 1829 | Indicator | 28.0 | .07A | 1 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 1,000 | |
| | 27804 | | /50/ | 1835 | Indicator | 55.0 | .05A | 1.1 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 5,000 | |
| | 27816 | | /50/ | 1843 | Indicator | 28.0 | .022A | .2 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 3,000 | 15 |
| | 27819 | | /50/ | 1847 | Radio, TV | 6.3 | .15A | .38 | T-3¼ | Miniature Bayonet | C-2R | .78 | 1.19 | 5,000 | 44 |
| | 27833 | | /50/ | 1850 | Signal | 5.0 | .09A | .25 | T-3¼ | Miniature Bayonet | C-2R | .62 | 1.19 | 1,500 | 116 |
| | 81665 | 81666 | /50/1000 | 1864 | Aircraft | 28.0 | .17A | 3 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 1,500 | |
| | 27868 | | /50/ | 1866 | Radio | 6.3 | .25A | .65 | T-3¼ | Miniature Bayonet | C-2R | .78 | 1.19 | 5,000 | 44 |
| | 40383 | 40384 | /50/1000 | 1873 | Aircraft | 28.0 | .20A | 3 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 7,000 | |
| | 27889 | | /10/ | 1876 | Photoelectric Scanner | 3.5 | 2.50A | 6.5 | T-5 | S.C. Bayonet | C-6 | 1.12 | 1.75 | 2,000 | |
| | 27907 | | /50/ | 1889 | Auto – Heavy Duty | 14.0 | .27A | 2 | T-3¼ | Miniature Bayonet | C-2F | .56 | 1.19 | 2,000 | |
| 12331 | 27917 | | 48/50/ | 1891 | Auto, Radio and Indicator | 14.0 | .24A | 2 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 500 | |



| Order Code Blister | Case Qty. Unit | GE Bulk | Case Qty. BP/Unit/Bulk | GE Lamp No. | Primary Application | Volts | Amps or Watts | MSCP | Bulb | Base | Filament Design | LCL (in) | MOL (in) | Rated Life (hrs) | Warning & Footnotes |
|------------------------------------|-------------------|------------|---------------------------|----------------|-------------------------------------|--------------|------------------|-----------|-------|--------------------|--------------------|--------------|-------------|---------------------|------------------------|
| MINIATURE LAMPS (CONTINUED) | | | | | | | | | | | | | | | |
| | 27927 | | /50/ | 1892 | Auto and Indicator | 14.4 | .12A | .75 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 1,000 | |
| 12332 | 27935 | 27937 | 48/50/4000 | 1893 | Auto – Heavy Duty | 14.0 | .33A | 2 | T-3¼ | Miniature Bayonet | C-2F | .62 | 1.19 | 7,500 | |
| 12330 | 27945 | 27948 | 48/50/4000 | 1895 | Auto, Truck Marker | 14.0 | .27A | 2 | G-4½ | Miniature Bayonet | C-2F | .56 | 1.07 | 2,000 | |
| | 34021 | | /10/ | 1939X | Aircraft Marker | 28.0 | 1.79A | 70 | T-7 | S.C. Bayonet | C-2V | 1.25 | 2.16 | 300 | 13, 14 |
| | 28008 | | /10/ | 1940 | Aircraft Marker | 14.0 | 3.57A | 75 | T-7 | S.C. Bayonet | C-8Z | 1.25 | 2.16 | 300 | 14 |
| | 45087 | | /10/ | 1944X | Special Service - silver contact | 14.0 | 3.57A | 75 | T-7 | S.C. Bayonet | C-8Z | 1.25 | 2.25 | 300 | 14 |
| | 18617 | | /10/ | 1946 | Aircraft | 28.0 | 250W | 660 | T-3 | Two Pin with Leads | CC-6 | .87 | 1.46 | 50 | 304 |
| | 28011 | | /10/ | 1958 | Aircraft | 28.0 | 150W | 250 | T-4 | Tab | CC-8 | .75 | 2.25 | 300 | 304 |
| | 39641 | | /10/ | 1962B | Special Service | 8.5 | 62W | 110 | T-3 | Wire Terminal | C-6 | .285 | 1.14 | 50 | 304 |
| | 12859 | | //100 | 1962BG | Aircraft | 8.5 | 62W | 110 | T-3 | Wire Terminals | C-6 | .285 | 1.14 | 50 | 304 |
| | 37947 | | //100 | 1962DX | Special Service | 8.5 | 62W | 80 | T-3 | Wire Terminals | C-6 | .285 | 1.14 | 150 | 304 |
| | 44152 | | /10/ | 1962DZ | Special Service | 8.5 | 62W | 80 | T-3 | Wire Terminals | C-6 | .285 | 1.14 | 150 | 304 |
| | 13667 | | /10/ | 1962TY | Medical | 8.5 | 62W | 110 | T-3 | Wire Terminals | C-6 | .285 | 1.14 | 50 | 304 |
| | 28034 | | /10/ | 1968 | Aircraft Gunsight | 28.0 | 25W | 15 | T-3 | Double Slide | C-2V | .41 | 1.17 | 500 | 13, 304 |
| | 28036 | | /10/ | 1970 | Aircraft | 28.0 | 100W | 150 | T-3 | Special Sleeve | CC-8 | – | 2.25 | 1,000 | 304 |
| | 41938 | | /10/ | 1970X | Aircraft | 28.0 | 100W | 140 | T-3 | Special Sleeve | CC-8 | – | 2.25 | 1,000 | 13, 304 |
| | 32780 | | /10/ | 1974 | Instrument | 6.0 | 20W | 10 | T-3 | Wire Terminals | C-6 | .285 | 1.14 | 10,000 | 304 |
| | 38545 | | /10/ | 1978X | Aircraft Navigation | 10.0 | 100W | 130 | T-3 | Special | C-8 | – | 2.15 | 2,000 | 304 |
| | 38627 | | /10/ | 1982 | Aircraft Navigation | 28.0 | 75W | 110 | T-3 | S.C. Bayonet | CC-8 | 1.06 | 1.88 | 1,000 | 13, 304 |
| | 21061 | | /10/ | 1982SP | Aircraft – Quartz Bulb | 28.0 | 75W | 107 | T-3 | S.C. Bayonet | CC-6 | 1.00 | 1.97 | 2,000 | 304 |
| | 39718 | | /10/ | 1983 | Aircraft – Navigation | 10.0 | 100W | 130 | T-4 | Two Pin | C-8 | 1.25 | 1.80 | 2,000 | 304 |
| | 44717 | | /10/ | 1986 | Aircraft – Quartz bulb | 28.0 | 250W | 600 | T-4 | Wire Terminal | CC-6 | 1.03 | 2.00 | 100 | 304 |
| | 47695 | | /10/ | 1987 | Aircraft – Quartz bulb | 28.0 | 150W | 240 | T-4 | D.C. Bayonet | CC-6 | 1.18 | 2.44 | 700 | 304 |
| | 38535 | | /10/ | 1988 | Aircraft Gunsight | 10.0 | 100W | 130 | T-3 | Special Wire Leads | C-8 | – | 2.15 | 2,000 | 304 |
| 12326 | 19280 | | 48/10/ | 2040 | Auto Light Bar | 12.8 | .625A | 10.5 | T-2¼ | Wedge | C-6 | .40 | 1.25 | 500 | 306 |
| 12296 | 44760 | 18620 | 48/50/500 | 2057 | Auto Stop, Signal | 12.8 14.0 | 2.10A .48A | 32 2 | S-8 | D.C. Index | C-6 C-6 | 1.25 | 2.0 | 1,200 5,000 | |
| 23339 | 10018 | | 48/ /500 | 2057KR | Auto Stop, Signal. Long Life | 12.8 14.0 | 2.10A .48A | 32 2 | S-8 | D.C. Index | C-6 C-6 | 1.25 | 2.0 | 2,400 10,000 | |
| 12312 | 44763 | 44764 | 48/50/500 | 2057NA | Auto Stop, Signal. Amber | 12.8 14.0 | 2.10A .48A | 24 1.5 | S-8 | D.C. Index | C-6 C-6 | 1.25 | 2.0 | 1,200 5,000 | |
| 47799 | | | 48/ / | 2057 NAKR | Auto Stop. Amber. Long Life | 12.8 14.0 | 2.10A .48A | 24 1.5 | S-8 | D.C. Index | C-6 C-6 | 1.25 1.25 | 2.0 | 2,400 10,000 | |
| | 12899 | | //600 | 2058U | Auto/Truck Stop, Signal | 12.8 14.0 | 2.10A .48A | 32 2 | S-8 | Wire Terminals | C-6 C-6 | – | 1.81 | 1,200 5,000 | 113 |
| | 26697 | | /10/ | 2059 | Aircraft-Reading Lamps | 12.0 | .833A | 9.1 | T-2½ | Miniature Bayonet | C-8 | 0.59 | 1.30 | 4,000 | 304 |
| | 26698 | | /10/ | 2059X | Aircraft-Reading Lamps | 12.0 | .833A | 8 | T-2½ | Miniature Bayonet | C-8 | 0.59 | 1.30 | 4,000 | 304 |
| | 21494 | | /10/ | 2074 | Instrument | 7.0 | 25W | 24 | T-3 | Wire Terminals | C-6 | .285 | 1.14 | 2,700 | 304 |
| | 28085 | | //600 | 2144 | Auto/Truck | 12.8 | 2.10A | 32 | S-8 | Wire Terminals | C-6 | – | 1.75 | 1,200 | 113 |
| | 32701 | | //500 | 2155 | Truck | 28.0 28.0 | .93A .34A | 32 6 | S-8 | Wire Terminals | CC-6 C-2V | – | 1.75 | 400 1,000 | 13, 15 |
| | 34763 | | /50/ | 2232 | Aircraft | 28.0 | .643A | 18 | S-8 | S.C. Bayonet | CC-8 | 1.19 | 2.0 | 2,000 | |
| | 26702 | | /50/ | 2232LL | Aircraft Long Life | 28.0 | .643A | 18 | S-8 | S.C. Bayonet | CC-8 | 1.19 | 2.0 | 4,000 | |
| | 81677 | | /10/ | 2232SB | Aircraft. Reflectorized | 28.0 | .643A | – | S-8 | S.C. Bayonet | CC-8 | 1.19 | 2.0 | 2,000 | |
| | 36906 | | /10/ | 2233 | Aircraft | 28.0 | .766A | 21 | S-8 | S.C. Bayonet | CC-8 | 1.19 | 2.0 | 2,000 | |
| | 44964 | | //1000 | 2286D | Auto/Truck | 14.0 | .35A | 2.7 | T-3¼ | Wire Term Down | C-2F | – | 1.05 | 1,500 | |
| | 28100 | | /10/ | 2331 | Instrument | 5.9 6.2 | 4.66A 4.49A | 32 32 | RP-11 | D.C. Pf. (S) | C-6 | 1.18 | 2.25 | 400 400 | 305 |
| 12298 | 16291 | 16290 | 48/50/500 | 2357 | Auto Stop, Signal | 12.8 14.0 | 2.20A .59A | 40 3 | S-8 | D.C. Index | C-6 C-6 | 1.25 | 2.0 | 400 5,000 | |
| 12299 | 15698 | 15699 | 48/50/500 | 2357NA | Auto Stop, Signal. Amber | 12.8 14.0 | 2.20A .59A | 30 2.2 | S-8 | D.C. Index | C-6 C-6 | 1.25 | 2.0 | 400 5,000 | |



Miniature & Sealed Beam Lamps

| Order Code Blister Unit | Case Qty. Bulk | GE BP/Unit/Bulk Lamp No. | Primary Application | Volts | Amps or Watts | MSCP | Bulb | Base | Filament Design | LCL (in) | MOL (in) | Rated Life (hrs) | Warning & Footnotes | |
|------------------------------------|-------------------|--------------------------------|-----------------------------------|----------------------------------|------------------|---------------|----------------------------------|--------------------|--------------------|--------------|--------------|---------------------|------------------------|--|
| MINIATURE LAMPS (CONTINUED) | | | | | | | | | | | | | | |
| 18047 | /10/ | 2396 | Auto Stop | 12.8 | 2.23A | 40 | S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 400 | | |
| 27560 | 48/ | 2397 | Auto Stop, Signal | 12.8 14.0 | 2.23A .48A | 40 2 | S-8 | D.C. Index | C-6 C-6 | 1.25 | 2.0 | 400 5,000 | | |
| 19792 | /100 | 2556 | Aircraft | 28.0 | 200W | 525 | T-3 | Two Pin | CC-6 | .87 | 1.46 | 50 | 304 | |
| 19566 | /100 | 2586 | Aircraft | 28.0 | 250W | 600 | T-4 | Two Pin with Leads | CC-6 | 1.30 | 1.90 | 100 | 304 | |
| 43805 | /10/ | 2604X | Instrument – Lens end | 5.0 | 2.00A | | TL-2 ³ / ₄ | G-4 Two Pin | C-6 | – | 1.18 | 5,000 | 124, 128, 306 | |
| 36508 | /10/ | 3011 | Aircraft | 28.0 | 1.29A | 44 | S-11 | S.C. Bayonet | C-2V | 1.25 | 2.38 | 1,000 | 13 | |
| 12305 | 18389 | 48/50/ | 3057 | Auto Stop, Signal | 12.8 14.0 | 2.10A .48A | 2 2 | S-8 | Plastic Wedge | C-6 C-6 | 1.10 | 2.09 | 1,200 5,000 | |
| 26378 | 48/ | 3057KR | Auto Stop, Signal. Long Life | 12.8 14.0 | 2.10A .48A | 32 2 | S-8 | Plastic Wedge | C-6 C-6 | 1.1 | 2.09 | 2,000 10,000 | | |
| 12313 | 18391 | 48/50/ | 3057NA | Auto Stop, Signal. Amber | 12.8 14.0 | 2.10A .48A | 24 1.5 | S-8 | Plastic Wedge | C-6 C-6 | 1.10 | 2.09 | 1,200 5,000 | |
| 14698 | /10/ | 3078 | Aircraft Navigation | 10.0 | 100W | 95 | T-3 | Special | C-8 | – | 2.15 | 4,500 | 304 | |
| 23028 | 48/ | 3155 | Auto Signal | 12.8 | 1.60A | 21 | S-8 | Plastic Wedge | C-6 | 1.10 | 2.09 | 1,500 | | |
| 12351 | 21863 | 48/50/ | 3156 | Auto Stop | 12.8 | 2.10A | 32 | S-8 | Plastic Wedge | C-6 | 1.10 | 2.09 | 1,200 | |
| 27565 | 48/ | 3156KR | Auto Stop. Long Life | 12.8 | 2.10A | 32 | S-8 | Plastic Wedge | C-6 | 1.10 | 2.09 | 2,000 | | |
| 12306 | 17172 | 48/50/ | 3157 | Auto Stop, Signal | 12.8 14.0 | 2.10A .59A | 32 3 | S-8 | Plastic Wedge | C-6 C-6 | 1.10 | 2.09 | 1,200 5,000 | |
| 26377 | 48/ | 3157KR | Auto Stop, Signal. Long Life | 12.8 14.0 | 2.10A .59A | 32 3 | S-8 | Plastic Wedge | C-6 C-6 | 1.10 | 2.09 | 2,000 10,000 | | |
| 12314 | 17173 | 48/50/ | 3157NA | Auto Stop, Signal. Amber | 12.8 14.0 | 2.10A .59A | 24 2.2 | S-8 | Plastic Wedge | C-6 C-6 | 1.10 | 2.09 | 1,200 5,000 | |
| 26380 | 48/ | 3157 NAKR | Stop, Signal. Amber. Long Life | 12.8 14.0 | 2.10A .59A | 24 2.2 | S-8 | Plastic Wedge | C-6 C-6 | 1.10 1.10 | 2.09 2.09 | 2,000 10,000 | | |
| 14387 | 22525 | 48/50/ | 3357/3457 | Auto Stop, Signal | 12.8 14.0 | 2.10A .59A | 40 3 | S-8 | Plastic Wedge | C-6 C-6 | 1.10 | 2.09 | 400 5,000 | |
| 26379 | 48/ | 3457KR | Auto Stop, Signal. 3357 Sub | 12.8 14.0 | 2.10A .59A | 40 3 | S-8 | Plastic Wedge | C-6 C-6 | 1.10 | 2.09 | 800 10,000 | | |
| 14388 | 22526 | 48/50/ | 3357NA/ 3457NA | Auto Stop, Signal. 3457NA Sub | 12.8 14.0 | 2.10A .59A | 30 2.2 | S-8 | Plastic Wedge | C-6 C-6 | 1.10 | 2.09 | 400 5,000 | |
| 25834 | 48/ | 3496 | Auto Japanese Vehicles | 12.8 14.0 | 2.10A .59A | 43 3 | T-7 | D.C. Index | C-6 C-6 | – | 2.00 | 600 5,000 | | |
| 25835 | 48/ | 3497 | Auto Japanese Vehicles | 12.8 | 2.10A | 45 | T-7 | S.C. Bayonet | C-6 | – | 2.00 | 600 | | |
| 25837 | 48/ | 3652 | Auto-Japanese Vehicles | 13.5 | .37A | 6 | T-3 ³ / ₄ | Wedge | – | – | 1.06 | 700 | | |
| 15657 | 48/ | 4157KR | Auto Stop, Signal. Long Life | 12.8 14.0 | 2.23A .59A | 32 3 | S-8 | Plastic Wedge | C-6 C-6 | 1.10 | 2.09 | 3,600 10,000 | | |
| 47458 | 48/ | 4157 NAKR | Stop, Signal. Amber. Long Life | 12.8 14.0 | 2.23A .59A | 24 2.2 | S-8 | Plastic Wedge | C-6 C-6 | 1.10 1.10 | 2.09 2.09 | 3,600 10,000 | | |
| 28154 | /24/ | 5004CW | Aircraft – Cool White | A.C. | 4W | 11.9 | T-5 | Miniature Pinless | | | 6.00 | 7,500 | 32, 162, 309 | |
| 28155 | /24/ | 5004WW | Aircraft – Warm White | A.C. | 4W | 11.1 | T-5 | Miniature Pinless | | | 6.00 | 7,500 | 32, 162, 309 | |
| 28160 | /24/ | 5008CW | Aircraft – Cool White | A.C. | 8W | 35.4 | T-5 | Miniature Pinless | | | 12.00 | 7,500 | 32, 162, 309 | |
| 28163 | /24/ | 5008WW | Aircraft – Warm White | A.C. | 8W | 34.6 | T-5 | Miniature Pinless | | | 12.00 | 7,500 | 32, 162, 309 | |
| 28168 | /24/ | 5013CW | Aircraft – Cool White | A.C. | 13W | 65.2 | T-5 | Miniature Pinless | | | 21.00 | 7,500 | 32, 162, 309 | |
| 28169 | /24/ | 5013WW | Aircraft – Warm White | A.C. | 13W | 62.8 | T-5 | Miniature Pinless | | | 21.00 | 7,500 | 32, 162, 309 | |
| 27367 | /24/ | 5104CW | Aircraft – Cool White | A.C. | 4W | 11.9 | T-5 | Miniature BiPin | | | 6.00 | 7,500 | 32, 162, 309 | |
| 28173 | /24/ | 5104WW | Aircraft – Warm White | A.C. | 4W | 11.1 | T-5 | Miniature BiPin | | | 6.00 | 7,500 | 32, 162, 309 | |
| 12774 | /24/ | 5106CW | Aircraft – Cool White | A.C. | 6W | 24.7 | T-5 | Miniature BiPin | | | 9.00 | 7,500 | 32, 162, 309 | |
| 33612 | /24/ | 5106WW | Aircraft – Warm White | A.C. | 6W | 23.9 | T-5 | Miniature BiPin | | | 9.00 | 7,500 | 32, 162, 309 | |
| 27466 | /24/ | 5108CW | Aircraft – Cool White | A.C. | 8W | 35.4 | T-5 | Miniature BiPin | | | 12.00 | 7,500 | 32, 162, 309 | |
| 28175 | /24/ | 5108WW | Aircraft – Warm White | A.C. | 8W | 34.6 | T-5 | Miniature BiPin | | | 12.00 | 7,500 | 32, 162, 309 | |
| 12775 | /24/ | 5113CW | Aircraft – Cool White | A.C. | 13W | 65.2 | T-5 | Miniature BiPin | | | 21.00 | 7,500 | 32, 162, 309 | |
| 28178 | /24/ | 5113WW | Aircraft – Warm White | A.C. | 13W | 62.8 | T-5 | Miniature BiPin | | | 21.00 | 7,500 | 32, 162, 309 | |



| Order Code Blister | Case Qty. Unit | GE Lamp No. | Primary Application | Volts | Amps or Watts | MSCP | Bulb | Base | Filament Design | LCL (in) | MOL (in) | Rated Life (hrs) | Warning & Footnotes |
|------------------------------------|-------------------|----------------|---------------------|------------------------------------|-----------------------------|-------|-----------------------|-----------------------|--------------------|-------------|-------------|---------------------|------------------------|
| MINIATURE LAMPS (CONTINUED) | | | | | | | | | | | | | |
| | 29897 | //1000 | 6034BP | Aircraft | 28.0 | .024A | .15 T-1 $\frac{3}{4}$ | BiPin | C-2F | .64 | | 5,000 | |
| | 29895 | //1000 | 6034BPGPL | Aircraft | 28.0 | .024A | .15 T-1 $\frac{3}{4}$ | BiPin | C-2F | .64 | | 5,000 | |
| | 87360 | //1000 | 6832 | Aircraft | 5.0 | .06A | .05 T-1 | Short Wire Terminal | C-2R | .14 | | 100,000 | |
| | 87351 | //1000 | 6832AS15 | Aircraft | 5.0 | .06A | .05 T-1 | Short Wire Terminal | C-2R | .14 | | 100,000 | |
| | 87291 | //1000 | 6839 | Aircraft | 28.0 | .024A | .15 T-1 | Sub-Midget Flanged | CC-2F | .36 | | 16,000 | |
| | 29893 | //1000 | 6839BPE | Aircraft | 28.0 | .024A | .15 T-1 | BiPin | CC-2F | .35 | | 16,000 | |
| | 29894 | //1000 | 6839BPGPL | Aircraft | 28.0 | .024A | .15 T-1 | BiPin | CC-2F | .35 | | 16,000 | |
| | 87274 | //1000 | 7132AS15 | Aircraft | 5.0 | .075A | .09 T-1 | Short Wire Terminal | C-2R | .14 | | 40,000 | |
| | 87402 | //1000 | 7152 | Aircraft | 5.0 | .115A | .15 T-1 | Short Wire Terminal | C-2R | .14 | | 40,000 | |
| | 97548 | //1000 | 7152AS15 | Aircraft | 5.0 | .115A | .15 T-1 | Short Wire Terminal | C-2R | .14 | | 40,000 | |
| | 28926 | /50/ | 7387 | Indicator | 28.0 | .04A | .3 T-1 $\frac{3}{4}$ | BiPin M-23 | C-2F | .50 | .61 | 7,000 | 79 |
| 26200 | | 48// | 7440 | Auto Japanese Vehicles | 13.5 | 1.85A | 37 T-7 | Wedge / 103 x 16DQ | C-6 | - | 1.75 | 300 | |
| 26201 | 10014 | 48//1000 | 7443 | Auto Japanese Vehicles | 13.5 | 1.85A | 35 T-7 | Wedge / 103 x 16DQ | C-6 | - | 1.75 | 500 | |
| | | | | | 13.5 | .4A | 3 | | C-6 | - | 1.75 | 1,000 | |
| 22432 | 22389 | 14542 | 48/100/200 | 9003/HB2 | Headlamp Type HB2/H4 | 12.8 | 67W | 119 T-4 $\frac{3}{4}$ | P43T-38 | C-8 | 1.12 | 3.62 | 150 4, 306 |
| | | | | | 12.8 | 60W | 72 | | C-8 | | | 800 | |
| 45470 | | 48// | 9003SB | Headlamp. White Light. | 12.8 | 67W | 119 T-4 $\frac{3}{4}$ | P43T-38 | C-8 | 1.12 | 3.62 | 80 4, 306 | |
| | | | | | 12.8 | 60W | 72 | | C-8 | | | 150 | |
| 18508 | 13382 | 18699 | 48/100/250 | 9004/HB1 | Headlamp. Type HB1 | 12.8 | 65W | 95 T-4 $\frac{3}{4}$ | Axial Prefocus | C-6 | 1.75 | 4.17 | 150 4, 161, 306 |
| | | | | | 12.8 | 45W | 55 | | C-6 | | | 320 | |
| 27561 | | 48// | 9004HO | Headlamp. HB1. Higher output. | 12.8 | 65W | 95 T-4 $\frac{3}{4}$ | Axial Prefocus | C-6 | 1.75 | 4.17 | 150 4, 161, 306 | |
| | | | | | 12.8 | 42W | 56 | | C-6 | | | 640 | |
| 45471 | | 48// | 9004SB | Headlamp. HB1. White Light. | 12.8 | 65W | 95 T-4 $\frac{3}{4}$ | Axial Prefocus | C-6 | 1.75 | 4.17 | 40 4, 161, 306 | |
| | | | | | 12.8 | 45W | 56 | | C-6 | | | 200 | |
| 13993 | 11249 | 20559 | 48/100/250 | 9004XL | Headlamp Long life. HB1 | 12.8 | 65W | 95 T-4 $\frac{3}{4}$ | Axial Prefocus | C-6 | 1.75 | 4.17 | 150 4, 161, 306 |
| | | | | | 12.8 | 47W | 55 | | C-6 | | | 850 | |
| 18509 | 13384 | 14710 | 48/100/200 | 9005/HB3 | Headlamp. High Beam. HB3 | 12.8 | 65W | 135 T-4 | Rt Angle Prefocus | C-8 | 1.24 | 3.13 | 800 4, 306 |
| 45472 | | 48// | 9005SB | Headlamp. High. White Light | 12.8 | 65W | 135 T-4 | Rt Angle Prefocus | C-8 | 1.24 | 3.13 | 150 4, 75, 306 | |
| 45866 | | 48// | 9005XSLL | Headlamp. High. HB3A. | 12.8 | 65W | 135 T-4 | Axial Prefocus | C-8 | 1.24 | 3.13 | 700 4, 306 | |
| 18510 | 13397 | 14711 | 48/100/200 | 9006/HB4 | Headlamp, Low Beam. HB4 | 12.8 | 55W | 80 T-4 | Rt Angle Prefocus | C-8 | 1.24 | 3.13 | 850 4, 306 |
| 47640 | | 48// | 9006HO | Headlamp. Low. Higher Output | 12.8 | 55W | 80 T-4 | Rt Angle Prefocus | C-8 | 1.24 | 3.13 | 1000 4, 306 | |
| 45473 | | 48// | 9006SB | Headlamp. Low. HB4. White Light | 12.8 | 55W | 80 T-4 | Rt Angle Prefocus | C-8 | 1.24 | 3.13 | 320 4, 75, 306 | |
| 45868 | | 48// | 9006XSLL | Headlamp, Low. HB4A. | 12.8 | 55W | 80 T-4 | Axial Prefocus | C-8 | 1.24 | 3.13 | 2,000 4, 306 | |
| 22388 | 20551 | 48/100/ | 9007/HB5 | Headlamp High/Low. Type HB5. | 12.8 | 65W | 107 T-4 $\frac{3}{4}$ | Axial Prefocus | C-8 | 1.75 | 4.17 | 150 4, 161, 306 | |
| | | | | | 12.8 | 55W | 79 | | C-8 | | | 1,100 | |
| 47642 | | 48// | 9007HO | Headlamp High/Low. High Output. | 12.8 | 65W | 107 T-4 $\frac{3}{4}$ | Axial Prefocus | C-8 | 1.75 | 4.17 | 150 4, 161, 306 | |
| | | | | | 12.8 | 53W | 80 | | C-8 | | | 320 | |
| | 10209 | //250 | 9007LL | Headlamp High/Low. Long life | 12.8 | 65W | 107 T-4 $\frac{3}{4}$ | Axial Prefocus | C-8 | 1.75 | 4.17 | 150 4, 161, 306 | |
| | | | | | 12.8 | 55W | 79 | | C-8 | | | 1,450 | |
| 45474 | | 48// | 9007SB | Headlamp High/Low. White Light | 12.8 | 65W | 107 T-4 $\frac{3}{4}$ | Axial Prefocus | C-8 | 1.75 | 4.17 | 110 4, 161, 306 | |
| | | | | | 12.8 | 58W | 80 | | C-8 | 1.75 | 4.17 | 250 | |
| | 14776 | //360 | 9011 | Headlamp High. HIR1. Infrared. | 12.8 | 65W | 183 T-3 $\frac{1}{4}$ | PX20D | C-8 | 1.25 | 3.50 | 150 4, 306 | |
| | 47327 | //900 | 9011X HIR | Headlamp High. Infrared. | 12.8 | 65W | 183 T-3 $\frac{1}{4}$ | PX20D | C-8 | 1.25 | 3.50 | 150 4, 306 | |
| | 41495 | //360 | 9012 (HIR2) | Headlamp Low. HIR2. Infrared | 12.8 | 55W | 135 T-3 $\frac{1}{4}$ | PX 22D | C-8 | 1.25 | 2.8 | 900 4, 306 | |
| 40843 | 37735 | 48//200 | 9145 (H10) | Auto Fog ECE H10 | 12.8 | 45W | 65 T-4 | PY20D | C-8 | 1.24 | 3.01 | 1,500 4, 306 | |
| 45591 | | 48// | 56110 | Auto-Interior-12V 20W | 13.2 | 1.83A | 40 T-3 | Miniature Bayonet | C-2R | .59 | 1.22 | 100 308 | |
| 47461 | | 48// | 58540 | Auto-Interior-12V 5W | 13.5 | .37A | 63 T-3 | Miniature Bayonet | C-2R | .59 | 1.22 | 240 308 | |



Miniature & Sealed Beam Lamps

| Order Code Blister Unit | Case Qty. Bulk | GE BP/Unit/Bulk Lamp No. | Primary Application | Volts | Amps or Watts | MSCP | Bulb | Base | Filament Design | LCL (in) | MOL (in) | Rated Life (hrs) | Warning & Footnotes | |
|------------------------------------|-------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------------|---------------|------------|------------------------|--------------------|-------------|-------------|---------------------|------------------------|---------|
| MINIATURE LAMPS (CONTINUED) | | | | | | | | | | | | | | |
| 26696 | /10/ | A-103 | Aircraft-Quartz Bulb- Navigation | 28.0 | 50W | 60 | T-3 | Special | CC-8 | - | 1.87 | 1,000 | 304 | |
| 12064 | /10/ | B1A | Neon Glow (NE-51) | 120 | 1/25W | | T-3¼ | Miniature Bayonet | | | 1.19 | 15,000 | 164 | |
| 12065 | /10/ | B2A | Neon Glow (NE-51H) | 120 | 1/7W | | T-3¼ | Miniature Bayonet | | | 1.19 | 25,000 | 164 | |
| 31675 | /10/ | B7A | Neon Glow (NE-45) | 120 | 1/4W | | T-4½ | Candelabra Screw | | | 1.53 | 7,500 | 164 | |
| 23312 | 48/ | C5W | Auto. ECE C5W | 13.5 | .37A | 3.6 | T-3½ | SV8.5/8 | | | 1.45 | 450 | | |
| 16124 | //144 | D2R | Low Beam Reflector System | 85 | 35W | 114 | T-3 | P32d-3 | - | 1.06 | 3.09 | 1,000 | 1, 2, 310 | |
| 15999 | //144 | D2S | Low Beam Projector System | 85 | 35W | 254 | T-3 | P32d-2 | - | 1.06 | 3.09 | 1,000 | 1, 2, 310 | |
| 25323 | 48/ | DE3021 | Dome & Courtesy | 14.0 | .24A | 2 | T-2¼ | SV7MM | | | 1.15 | 1,000 | | |
| 12353 | 48/ | DE3022 | Dome & Courtesy | 13.0 | .38A | 3 | T-2¼ | SV7MM | | | 1.18 | 1,000 | | |
| 12354 | 12084 | 48/50/ | DE3175 | Dome & Courtesy | 13.0 | .77A | 9.55 | T-3¼ | SV8.5MM | | 1.25 | 400 | | |
| 12085 | /10/ | DE3425 | Dome & Courtesy | 13.0 | .77A | 9.55 | T-4 | SV8.5MM | | | 1.50 | 400 | | |
| 23324 | 48/ | DE7576 | Strip. Auto DIN 72601K | 13.5 | .74A | 9.8 | T-3½ | SV8.5/8 | | | 1.65 | 200 | | |
| 40336 | 27328 | 32376 | 48/10/300 | H1-55 | Auto ECE. GE50310/1 | 13.2 | 62W | 123 | T-3½ | P14.5S | C-8 | 1.08 | 2.66 | 225 308 |
| 27569 | /10/ | H1-70/28V | Auto. ECE. GE50320/1 | 28.0 | 80W | 151 | T-3½ | P14.5S | C-8 | 1.08 | 2.46 | 600 | 308 | |
| 27329 | /10/ | H1-100 | Off Road Auxiliary. GE52140 | 13.2 | 100W | 219 | T-3½ | P14.5S | C-8 | 1.08 | 2.66 | 100 | 308 | |
| 27330 | /10/ | H2-55 | Auto. GE50410 | 13.2 | 62W | 143 | T-3½ | X511 | C-8 | .48 | 1.22 | 225 | 308 | |
| 23442 | //400 | H3-35 | C.I.M. GE50390 | 13.2 | 40W | 60 | T-3½ | PK22S | C-6 | .71 | 1.65 | 200 | 308 | |
| 12339 | 27331 | 22132 | 48/10/400 | H3-55 | Auto ECE. GE50340 | 13.2 | 62W | 115 | T-3½ | PK22S | C-6 | .71 | 1.65 | 225 308 |
| 23445 | //400 | H3-55HD | C.I.M. GE50340HD | 13.2 | 62W | 111 | T-3½ | PK22S | C-6 | .71 | 1.65 | 600 | 308 | |
| 35044 | //400 | H3-55LL | Auto ECE GE50340LL. Long Life | 13.2 | 64W | 106 | T-3½ | PK22S | C-6 | .71 | 1.65 | 2,000 | 308 | |
| 23428 | //400 | H3-65/28V | C.I.M. GE52590HD | 28.0 | 66W | 102 | T-3½ | PK22S | C-6 | .71 | 1.65 | 1,000 | 308 | |
| 27332 | 23438 | /10/400 | H3-70/28V | C.I.M. GE50350 | 28.0 | 75W | 135 | T-3½ | PK22S | CC-6 | .71 | 1.65 | 225 308 | |
| 12341 | 48/ | H3-100 | Off Road Auxiliary. GE52130 | 13.2 | 92W | 187 | T-3½ | PK22S | C-6 | .71 | 1.65 | 100 | 308 | |
| 18132 | 27334 | 22133 | 48/10/200 | H4-60/55 | Auto. GE50440 | 13.2 | 71W | 138 | T-5 | P43T-38 | C-8 | 1.12 | 3.62 | 225 306 |
| | | | | | | 13.2 | 66W | 80 | C-8 | | | | 900 | |
| 27342 | 30833 | /10/200 | H4-75/ 70/28V | Bus GE50450 | 28.0 | 80W | 151 | T-5 | P43T-38 | C-8 | 1.14 | 3.62 | 150 308 | |
| | | | | | | 28.0 | 73W | 95 | C-8 | | | | 300 | |
| 26374 | 35755 | 48//200 | H7-55 | Auto ECE, DOT GE58520 | 13.2 | 56.5W | 115 | T-3½ | PX26D | C-8 | .98 | 2.36 | 500 308 | |
| 15765 | //300 | H8 | Auto ECE Fog | 13.2 | 40W | 64 | T-3½ | PGJ19-1 | C-8 | 1.06 | 2.63 | 400 | 2, 308 | |
| 15827 | //300 | H9 | Auto ECE High Beam | 13.2 | 65W | 167 | T-3½ | PGJ19-5 | C-8 | 1.08 | 2.63 | 125 | 2, 308 | |
| 15828 | //300 | H11 | Auto ECE Low Beam | 13.2 | 55W | 107 | T-3½ | PGJ19-2 | C-8 | 1.07 | 2.63 | 550 | 2, 308 | |
| 15963 | //300 | H11LL | Auto ECE Low Beam | 13.2 | 55W | 107 | T-3½ | PGJ19-2 | C-8 | 1.07 | 2.63 | 1,400 | 4, 308 | |
| 22961 | 48// | KPR102 | Flashlight - 2D Krypton | 2.4 | .70A | 1.3 | B-3½ | S.C. Miniature Flanged | C-2R | .25 | 1.25 | 15 | 116 | |
| 23151 | 48// | KPR104 | Flashlight - 2D Krypton | 2.2 | .47A | .47 | B-3½ | S.C. Miniature Flanged | C-2R | .25 | 1.25 | 15 | 116 | |
| 23153 | 48// | KPR113 | Flashlight - 4D Krypton | 4.8 | .75A | 4.1 | B-3½ | S.C. Miniature Flanged | C-2R | .25 | 1.25 | 20 | 116 | |
| 23154 | 48// | KPR118 | Flashlight - 6D Krypton | 7.2 | .55A | 5.2 | B-3½ | S.C. Miniature Flanged | C-2R | .25 | 1.25 | 15 | 116 | |
| 12571 | /48/ | ML20/ OF-28 | Aircraft. Lumiline. Frosted | 28.0 | 20W | - | T-8 | Disk | 2C-8 | - | 5.75 | 500 | 12 | |
| 23306 | 11601 | 48//1000 | P21W | Auto Stop. (ECE). P25-1. | 13.5 | 1.85A | 36.6 | S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 250 | |
| 38655 | //1000 | P21W LL | Auto Stop (ECE). Long Life | 13.5 | 1.85A | 36.6 | S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 300 | | |
| 27561 | 30857 | 48//1000 | P21/4W | Auto Stop, Signal. (ECE) | 13.5 | 1.85A .37A | 35 1.19 | S-8 | D.C. Index | C-6 | 1.25 | 2.0 | 100 | |
| | | | | | 13.5 | .44A | 2.78 | S-8 | D.C. Index | C-6 | 1.25 | 2.0 | 100 | |
| 23303 | 11604 | 48//1000 | P21/5W | Auto Stop, Signal. (ECE). P25-2. | 13.5 | 1.85A .44A | 35 2.78 | S-8 | D.C. Index | C-6 | 1.25 | 2.0 | 250 | |
| | | | | | 13.5 | .44A | 2.78 | S-8 | D.C. Index | C-6 | 1.25 | 2.0 | 1,000 | |
| | 92475 | //1000 | P21/5W LL | Auto Stop, Signal. Long Life | 13.5 | 1.85A .44A | 35 2.78 | S-8 | D.C. Index | C-6 | 1.25 | 2.0 | 600 | |
| | | | | | 13.5 | .44A | 2.78 | S-8 | D.C. Index | C-6 | 1.25 | 2.0 | 3,000 | |
| 40778 | /10/ | P21W 24V | Bus Stop-European (ECE) | 28.0 | 1.00A | 36.6 | S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 150 | | |



Miniature & Sealed Beam Lamps

| Order Code Blister Unit | Case Qty. Bulk | GE BP/Unit/Bulk | Lamp No. | Primary Application | Volts | Amps or Watts | MSCP | Bulb | Base | Filament Design | LCL (in) | MOL (in) | Rated Life (hrs) | Warning & Footnotes |
|------------------------------------|-------------------|--------------------|----------|--------------------------|-------------------------|------------------|------------|-------|------------------------|------------------------|-------------|-------------|---------------------|------------------------|
| MINIATURE LAMPS (CONTINUED) | | | | | | | | | | | | | | |
| | 30856 | //1000 | P21/5W | Bus Stop /Tail. (ECE) | 28.0 28.0 | 1.00A .36A | 35 3.18 | S-8 | D.C. Index | C-6 C-6 | 1.25 | 2.0 | 150 1,500 | |
| | 23036 | //1000 | PC161 | Auto Instrument | 14.0 | .19A | 1 | T-3¼ | Printed Circuit Socket | C-2F | .45 | 1.11 | 4,000 | |
| | 27222 | 23037 | /10/1000 | PC168 | Auto Instrument | 14.0 | .35A | 3 | T-3¼ | Printed Circuit Socket | C-2F | .45 | 1.11 | 1,500 |
| | 72221 | 23021 | /10/1000 | PC194 | Auto Inst. & Ind., H.D. | 14.0 | .27A | 2 | T-3¼ | Printed Circuit Socket | C-2F | .45 | 1.11 | 2,500 |
| 12675 | 25181 | | 48/50/ | PR2 | Flashlight – 2D Cells | 2.38 | .50A | .8 | B-3½ | S.C. Miniature Flanged | C-2R | .25 | 1.25 | 15 116 |
| 12676 | 25193 | | 48/50/ | PR3 | Flashlight – 3D Cells | 3.57 | .50A | 1.5 | B-3½ | S.C. Miniature Flanged | C-2R | .25 | 1.25 | 15 116 |
| 12677 | | | 48/ / | PR4 | Flashlight – 2C Cells | 2.33 | .27A | .4 | B-3½ | S.C. Miniature Flanged | C-2R | .25 | 1.25 | 10 116 |
| | 25222 | | /50/ | PR6 | Flashlight – 2D Cells | 2.47 | .30A | .45 | B-3½ | S.C. Miniature Flanged | C-2R | .25 | 1.25 | 30 116 |
| | 25235 | | /50/ | PR7 | Flashlight – 3D Cells | 3.70 | .30A | .9 | B-3½ | S.C. Miniature Flanged | C-2R | .25 | 1.25 | 30 116 |
| 12680 | 25252 | | 48/50/ | PR12 | Flashlight – 5D Cells | 5.95 | .50A | 3.1 | B-3½ | S.C. Miniature Flanged | C-2R | .25 | 1.25 | 15 116 |
| 12681 | 25262 | | 48/50/ | PR13 | Lantern – 4F Cells | 4.75 | .50A | 2.2 | B-3½ | S.C. Miniature Flanged | C-2R | .25 | 1.25 | 15 116 |
| | 25289 | | /50/ | PR18 | Flashlight – 6D Cells | 7.20 | .55A | 5.5 | B-3½ | S.C. Miniature Flanged | C-2R | .25 | 1.25 | 3 14, 116 |
| 41370 | 32648 | 48/ /500 | PY21W | Auto Stop. (ECE) – Amber | 13.5 | 1.85A | 22.3 | S-8 | S.C. Bayonet | C-6 | 1.25 | 2.0 | 250 | |
| 23314 | 30859 | 48/ /2000 | R5W LL | Auto. ECE R5W GE 2619 | 13.5 | 5W | 4.0 | G-6 | S.C. Bayonet | C-2R | .75 | 1.47 | 500 | |
| 23322 | 35417 | 48/ /2000 | R10W LL | Auto. ECE R10W GE 2641 | 13.5 | 10W | 10.0 | G-6 | S.C. Bayonet | C-2R | .75 | 1.47 | 400 | |
| 23318 | | 48/ / | T4W | Auto. ECE T4W GE 2662 | 13.5 | .30A | 2.8 | T-2¾ | Miniature Bayonet | C-2R | .59 | 1.08 | 450 | |
| | 12756 | | /50/ | TEL/6PSB | Indicator | 6.0 | .14A | 550 | T-2 | Tel. Slide #5 | C-2V | 1.11 | 20,000 | 80 |
| | 12760 | | /50/ | TEL/12PSB | Indicator | 12.0 | .17A | 2,000 | T-2 | Tel. Slide #5 | C-2F | 1.11 | 12,000 | 80 |
| | 29001 | | /50/ | TEL/24E2 | Telephone | 24.0 | .035A | 600 | T-2 | Tel. Slide #3 | C-2F | 1.69 | 7,000 | 80 |
| | 12071 | | /50/ | TEL/24PSB | Indicator | 24.0 | .073A | 3,000 | T-2 | Tel. Slide #5 | C-2F | 1.11 | 10,000 | 80 |
| | 12761 | | /50/ | TEL/28MB | Indicator | 28.0 | .04A | .29 | T-2½ | Miniature Bayonet | C-2F | – | 1.19 | 5,000 |
| | 12072 | | /50/ | TEL/28PSB | Indicator | 28.0 | .04A | 1,600 | T-2 | Tel. Slide #5 | C-2F | 1.11 | 5,000 | 80 |
| | 29041 | | /50/ | TEL/48C2 | Telephone | 48.0 | .035A | 750 | T-2 | Tel. Slide #3 | C-2F | 1.69 | 5,000 | 80 |
| | 12075 | | /50/ | TEL/48PSB | Indicator | 48.0 | .05A | 1,800 | T-2 | Tel. Slide #5 | C-7A | 1.11 | 10,000 | 80 |
| | 12076 | | /50/ | TEL/60MB | Indicator | 60.0 | .05A | .73 | T-2½ | Miniature Bayonet | C-7A | – | 1.19 | 7,500 |
| | 12077 | | /50/ | TEL/60PSB | Indicator | 60.0 | .05A | 1,800 | T-2 | Tel. Slide #5 | C-7A | 1.11 | 7,500 | 80 |
| | 12078 | | /50/ | TEL/ 120MB | Indicator | 120.0 | .025A | .36 | T-2½ | Miniature Bayonet | CC-7A | – | 1.19 | 7,500 |
| | 12080 | | /50/ | TEL/ 120PSB | Indicator | 120.0 | .025A | 1,000 | T-2 | Tel. Slide #5 | CC-7A | 1.11 | 7,500 | 80 |
| 27562 | 35030 | 48/ /2000 | W3W | Auto-European ECE | 13.5 | 3W | 1.75 | T-3¼ | Wedge | C-2V | .5 | 1.06 | 1,000 | 13 |
| 27563 | 37640 | 48/ /2000 | W5W | Auto-European ECE | 13.5 | 5W | 4 | T-3¼ | Wedge | C-2V | .5 | 1.06 | 300 | 13 |
| | 26353 | //1000 | W16W | Auto ECEW16W | 13.5 | 1.44A | 24.6 | T-5 | Wedge | C-2F | .81 | 1.49 | 250 | 121 |



Miniature & Sealed Beam Lamps

| Order Code Unit | Case Qty. Bulk | GE Lamp No. | Bulb | Primary Application | Design Volts | Design Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% Horiz | MBCP Warning Vert | Notes |
|--------------------|----------------|--------------|-------|-----------------------------|--------------|--------------|----------------|---------------------|----------|------------------|---------------------|-------------------|----------|
| SEALED BEAM | | | | | | | | | | | | | |
| 18511 | 6 | 4000 | PAR46 | Headlamp, Low Beam Type 2C1 | 12.8 12.8 | 37.5W 60W | SAE | 3 Contact Lugs | 4 | 200 320 | | | 4 |
| 24327 | 12 | 4013 | PAR46 | Tractor, Flood | 6.4 | 25W | 800 | Screw Terminals | 3.75 | 300 | 80 | 20 | |
| 24339 | 24338 | 12/60 4014 | PAR36 | Emergency Bldg. Lighting | 6.4 | 18W | 1,500 | Screw Terminals | 2.75 | 200 | 50 | 25 | |
| 24369 | 12 | 4019 | PAR46 | Tractor | 6.2 | 30W | 1,200 | Screw Terminals | 3.75 | 300 | Trapezoidal | 23 | |
| 38418 | 12 | 4040 | PAR46 | Headlamp, Low. Type 2C1 | 12.8 12.8 | 37.5W 60W | SAE | 3 Contact Lugs | 4 | 300 500 | | | 4 |
| 39585 | 39586 | 12/60 4042 | PAR36 | Emergency Bldg. Lighting | 6.4 | 12W | 1,100 | Screw Terminals | 2.75 | 150 | 45 | 20 | |
| 40588 | 40589 | 12/60 4044 | PAR36 | Emergency Bldg. Lighting | 12.0 | 12W | 1,100 | Screw Terminals | 2.75 | 150 | 50 | 25 | |
| 10540 | 10541 | 12/60 4044-1 | PAR36 | Emergency Bldg. Lighting | 12.0 | 12W | 1,100 | Slip-on Terminals | 2.75 | 150 | 50 | 25 | |
| 25051 | 12 | 4313 | PAR36 | Aircraft Landing | 13.0 | 250W | 140,000 | Screw Terminals | 2.75 | 25 | 16 | 7 | 302 |
| 39366 | 39367 | 12/60 4340 | PAR36 | Electric Truck Work Light | 48.0 | 80W | 2,500 | Slip-on Terminals | 2.75 | 400 | Trapezoidal | 15 | |
| 39362 | 39363 | 12/60 4350 | PAR36 | Electric Truck Work Light | 36.0 | 60W | 2,100 | Slip-on Terminals | 2.75 | 400 | Trapezoidal | 15 | |
| 12961 | 12 | 4402A | PAR36 | CIM Signal | 28.0 | 50W | 1,000 | Screw Terminals | 2.75 | 400 | 50 | 25 | |
| 24425 | 24423 | 12/60 4405 | PAR36 | Spotlight | 12.8 | 30W | 50,000 | Screw Terminals | 2.75 | 100 | 6 | 5 | 167 |
| 24430 | 24428 | 12/60 4406 | PAR36 | Tractor, Flood | 12.8 | 35W | 600 | Screw Terminals | 2.75 | 300 | 80 | 30 | 4 |
| 24439 | 12 | 4410 | PAR36 | Backup Lamp, Tractor Flood | 12.8 | 35W | 600 | Screw Terminals | 2.75 | 300 | 80 | 30 | 4 |
| 24448 | 24443 | 12/60 4411 | PAR36 | Tractor | 12.8 | 35W | 3,000 | Screw Terminals | 2.75 | 300 | Trapezoidal | 4 | |
| 37889 | 37890 | 12/60 4411-1 | PAR36 | Tractor | 12.8 | 35W | 3,000 | Slip-on Terminals | 2.75 | 300 | Trapezoidal | 4 | |
| | 48032 | 60 4411-3 | PAR36 | Tractor | 12.8 | 35W | 3,000 | Combination | 2.75 | 300 | Trapezoidal | 4 | |
| 24454 | 24453 | 12/24 4412 | PAR46 | Fog | 12.8 | 35W | 11,000 | Screw Terminals | 3.75 | 300 | 40 | 7 | 167 |
| 24460 | 24459 | 12/24 4412A | PAR46 | Fog, Yellow | 12.8 | 35W | 8,800 | Screw Terminals | 3.75 | 300 | 40 | 7 | 167 |
| 22981 | 24464 | 12/24 4413 | PAR46 | Tractor, Flood | 12.8 | 35W | 1,100 | Screw Terminals | 3.75 | 300 | 80 | 20 | 4 |
| 24478 | 24477 | 12/60 4414 | PAR36 | Warning Signal, Garden | 12.8 | 18W | 1,500 | Screw Terminals | 2.75 | 300 | 50 | 25 | |
| 24487 | 12 | 4414R | PAR36 | Warning Signal Red Lens | 12.8 | 18W | 275 | Screw Terminals | 2.75 | 300 | 50 | 25 | |
| 22982 | 24490 | 12/60 4415 | PAR36 | Fog | 12.8 | 35W | 9,000 | Screw Terminals | 2.75 | 300 | 40 | 5 | 167 |
| 24499 | 24497 | 12/60 4415A | PAR36 | Fog, Yellow Lens | 12.8 | 35W | 7,000 | Screw Terminals | 2.75 | 300 | 40 | 5 | 167 |
| 22983 | 24503 | 12/60 4416 | PAR36 | Spotlamp, Signal | 12.8 | 30W | 35,000 | Screw Terminals | 2.75 | 300 | 11 | 4 | |
| | 34901 | 12/60 4416-1 | PAR36 | Spotlamp, Signal | 12.8 | 30W | 35,000 | Slip-on Terminals | 2.75 | 300 | 11 | 4 | |
| 24506 | 12 | 4416A | PAR36 | Signal, Yellow Lens Cover | 12.8 | 30W | 26,000 | Screw Terminals | 2.75 | 300 | 11 | 4 | |
| 24513 | 12 | 4416R | PAR36 | Signal, Red Lens Cover | 12.8 | 30W | 4,000 | Screw Terminals | 2.75 | 300 | 11 | 4 | |
| 24531 | 24525 | 12/24 4419 | PAR46 | Tractor | 12.8 | 35W | 1,600 | Screw Terminals | 3.75 | 300 | Trapezoidal | 4 | |
| 24539 | 24541 | 12/24 4421 | PAR46 | Auto/Truck, Special | 13.0 | 100W | 23,000 | Slip-on Terminals | 3.75 | 300 | 50 | 7 | 109, 167 |
| 24542 | 12 | 4422 | PAR36 | Tractor | 12.8 | 35W | 600 | Screw Terminals | 2.75 | 300 | 75° Cone | 4 | |
| 24572 | 12 | 4434A | PAR46 | Bus Signal, Amber Lens | 12.8 | 40W | 1,000 | Screw Terminals | 3.75 | 100 | 55 | 25 | |
| 24577 | 24576 | 12/24 4435 | PAR46 | Spotlamp | 12.8 | 30W | 75,000 | Screw Terminals | 3.75 | 100 | 5 | 5 | 167 |
| 24582 | 12 | 4436 | PAR46 | Signal | 12.8 | 35W | 60,000 | Screw Terminals | 3.75 | 300 | 10 | 4 | |
| 39932 | 39933 | 12/60 4440X | PAR36 | Tractor | 12.8 12.8 | 40W 40W | 6,000 4,500 | 3 Contact Lugs | 3 | 320 320 | 40 33 | 7 9 | 4 |
| 39748 | 12 | 4440X-1 | PAR36 | Tractor | 12.8 12.8 | 40W 40W | 6,000 4,500 | 3 Slip-on Terminals | 2.75 | 320 320 | 40 33 | 7 9 | 4 |
| 37046 | 37047 | 12/60 4446 | PAR36 | Emergency Bldg. Lighting | 12.8 | 25W | 400 | Screw Terminals | 2.75 | 300 | 80 | 80 | |
| 40176 | 12 | 4460X | PAR36 | Tractor | 12.8 12.8 | 40W 40W | 6,500 5,000 | 3 Screw Terminals | 2.75 | 320 320 | 22 22 | 10 13 | 4 |
| 24592 | 12 | 4461 | PAR36 | Tractor | 12.8 | 60W | 6,000 | Screw Terminals | 2.75 | 300 | Trapezoidal | 4 | |
| 24596 | 12 | 4466 | PAR36 | Tractor | 12.8 | 60W | 1,000 | Screw Terminals | 2.75 | 300 | 80 | 30 | 4 |
| 24613 | 12 | 4478 | PAR46 | C.I.M. Flood | 13.0 | 60W | 1,600 | 2 Contact Lugs | 4 | 800 | 56 | 32 | 4 |
| 24627 | 12 | 4502 | PAR36 | Auto Headlamp, Military | 28.0 | 50W | 10,000 | Screw Terminals | 2.75 | 400 | 40 | 7 | |
| 24640 | 24638 | 12/60 4505 | PAR36 | Aircraft Navigation | 28.0 | 50W | 45,000 | Screw Terminals | 2.75 | 400 | 11 | 5 | |
| 24650 | 24649 | 12/60 4509 | PAR36 | Aircraft Landing Spotlamp | 13.0 | 100W | 110,000 | Screw Terminals | 2.75 | 25 | 12 | 6 | 167 |
| 41503 | 12 | 4509X | PAR36 | Marine Spotlamp | 13.0 | 100W | 110,000 | Screw Terminals | 2.75 | 25 | 12 | 6 | 167 |



Miniature & Sealed Beam Lamps

| Order Code Unit | Case Qty. Bulk | GE Lamp No. | GE Bulb | Primary Application | Design Volts | Design Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% Horiz | MBCP Warning Vert | Notes |
|--------------------------------|----------------|-------------|---------|---------------------------|--------------------------------|--------------|---------|-------------------|-------------------|------------------|---------------------|-------------------|--------------|
| SEALED BEAM (CONTINUED) | | | | | | | | | | | | | |
| 11524 | 12 | 4509Y | PAR36 | Special Service | 13.0 | 100W | — | Screw Terminals | 2.75 | 25 | 12 | 6 | |
| 24654 | 24653 | 12/60 | 4510 | PAR36 | Tractor Flood, Emergency | 6.4 | 25W | 800 | Screw Terminals | 2.75 | 300 | 80 | 20 |
| 24663 | 24661 | 12/60 | 4511 | PAR36 | Tractor | 6.2 | 30W | 2,300 | Screw Terminals | 2.75 | 300 | Trapezoidal | 23 |
| 24673 | 24671 | 12/60 | 4515 | PAR36 | Spotlamp | 6.4 | 30W | 55,000 | Screw Terminals | 2.75 | 100 | 5 | 5 167 |
| 24678 | 12 | 4516 | PAR36 | Spotlamp | 6.2 | 30W | 45,000 | Screw Terminals | 2.75 | 300 | 9 | 4 | |
| 24690 | 12 | 4519 | PAR36 | Marine | 13.0 | 100W | 30,000 | Screw Terminals | 2.75 | 25 | 40 | 7 | |
| 24700 | 12 | 4522 | PAR46 | Aircraft Landing | 13.0 | 250W | 290,000 | Screw Terminals | 3.13 | 25 | 12 | 10 | 92, 138, 167 |
| 24721 | 12 | 4530 | PAR46 | Signal, Flashing | 26.0 | 5.3A | 100,000 | Screw Terminals | 3.75 | 50 | 11 | 11 | |
| 24726 | 12 | 4531 | PAR46 | Auto Headlamp, Military | 12.5 | 40W | 30,000 | Screw Terminals | 3.75 | 400 | 20 | 5 | |
| 19628 | 12 | 4532 | PAR46 | Aircraft | 28.0 | 250W | 75M | Screw Terminals | 3.75 | 100 | 12 | 19 | |
| | | | | | 28.0 | 150W | 14,500 | | | 100 | 16 | 19 | |
| 24735 | 24733 | 12/24 | 4535 | PAR46 | Spotlamp | 6.4 | 30W | 95,000 | Screw Terminals | 3.75 | 100 | 5½ | 4 167 |
| 24742 | 12 | 4537 | PAR46 | Aircraft Landing | 13.0 | 100W | 200,000 | Screw Terminals | 3.13 | 25 | 11 | 6 | 167 |
| 40822 | 40823 | 12/24 | 4537-2 | PAR46 | Spotlamp | 13.0 | 100W | 200,000 | Screw Terminals | 3.13 | 25 | 11 | 6 |
| 39022 | 12 | 4537X | PAR46 | Marine Spotlamp | 13.0 | 100W | 200,000 | Screw Terminals | 3.13 | 25 | 11 | 6 | 167 |
| 24756 | 12 | 4541 | PAR56 | Aircraft Landing | 28.0 | 450W | 470,000 | Screw Terminals | 4.5 | 25 | 15 | 11 | 167, 302 |
| 24764 | 12 | 4543 | PAR56 | Marine Spotlamp | 12.5 | 100W | 250,000 | Screw Terminals | 4.5 | 50 | 9 | 5 | |
| 24768 | 12 | 4545 | PAR56 | Marine Searchlight | 12.0 | 100W | 225,000 | Screw Terminals | 4.5 | 100 | 9 | 5 | 167 |
| 24780 | 24783 | 12/60 | 4546 | PAR36 | Hand Lantern | 4.7 | .5A | 6,300 | Screw Terminals | 2.75 | 100 | 3 | 3 |
| 24770 | 24775 | 12/60 | 4546-1 | PAR36 | Hand Lantern | 4.7 | .5A | 6,300 | Slip-on Terminals | 2.75 | 100 | 3 | 3 |
| 24788 | 12 | 4547 | PAR36 | Hand Lantern | 4.75 | 1.25A | 20,000 | Screw Terminals | 2.75 | 100 | 3 | 3 | |
| 24795 | 12 | 4551 | PAR46 | Aircraft Taxiing | 28.0 | 250W | 75,000 | Screw Terminals | 3.75 | 25 | 50 | 10 | 138 |
| 40576 | 12 | 4552 | PAR64 | Aircraft Landing | 28.0 | 250W | 500,000 | Screw Terminals | 3.75 | 25 | 7 | 8 | 138, 167 |
| 24799 | 12 | 4553 | PAR46 | Aircraft Landing | 28.0 | 250W | 300,000 | Screw Terminals | 3.13 | 25 | 11 | 12 | 138, 167 |
| 24802 | 12 | 4554 | PAR46 | Aircraft Taxiing | 28.0 | 450W | 90,000 | Screw Terminals | 3.13 | 25 | 50 | 16 | 302 |
| 40583 | 12 | 4555 | PAR64 | Aircraft Landing | 115.0 | 1,000W | 600,000 | Screw Terminals | 3.75 | 25 | 20 | 11 | 138, 302 |
| 40581 | 12 | 4557 | PAR64 | Aircraft Landing/Taxiing | 28.0 | 1,000W | 540M | 3 Screw Terminals | 3.75 | 25 | 11 | 15 | 138, 302 |
| | | | | | 28.0 | 400W | 100M | | | 100 | 25 | 11 | |
| 40578 | 12 | 4559 | PAR64 | Aircraft Landing | 28.0 | 600W | 600,000 | Screw Terminals | 3.75 | 25 | 11 | 12 | 138, 167 |
| 24828 | 12 | 4570 | PAR46 | Aircraft Taxiing | 28.0 | 150W | 32,000 | Screw Terminals | 3.75 | 300 | 50 | 9 | |
| 24830 | 12 | 4571 | PAR46 | Flood, Special Service | 28.0 | 150W | 7,000 | Screw Terminals | 3.75 | 300 | 80 | 25 | |
| 24833 | 12 | 4572 | PAR46 | Auto Flood, Military | 28.0 | 150W | 4,500 | Screw Terminals | 3.75 | 300 | 55 | 55 | |
| 25005 | 25007 | 12/24 | 4578 | PAR46 | C.I.M. Flood | 28.0 | 60W | 1,600 | 2 Contact Lugs | 4 | 800 | 55 | 30 |
| 25009 | 25011 | 12/24 | 4579 | PAR46 | C.I.M. Headlamp | 28.0 | 80W | 24M | 3 Contact Lugs | 4 | 400 | 25 | 25 |
| | | | | | 28.0 | 60W | 11M | | | 400 | 7 | 7 | |
| 24859 | 12 | 4580 | PAR46 | Aircraft Landing | 28.0 | 450W | 400,000 | Screw Terminals | 3.75 | 10 | 13 | 14 | 302 |
| 24862 | 12 | 4581 | PAR46 | Aircraft Landing | 28.0 | 450W | 400,000 | Screw Terminals | 3.13 | 10 | 13 | 14 | 302 |
| 24853 | 12 | 4582 | PAR46 | Aircraft/Helicopter Flood | 28.0 | 450W | 20,000 | Screw Terminals | 3.75 | 10 | 50 | 55 | 302 |
| 24867 | 12 | 4587 | PAR36 | Aircraft Taxiing | 28.0 | 250W | 40,000 | Screw Terminals | 2.75 | 25 | 40 | 13 | 302 |
| 24873 | 24871 | 12/60 | 4589 | PAR36 | Aircraft Cockpit Flood, C.I.M. | 28.0 | 50W | 5,000 | Screw Terminals | 2.75 | 400 | Trapezoidal | |
| | 23509 | 60 | 4589-1 | PAR36 | Aircraft Cockpit Flood, C.I.M. | 28.0 | 50W | 5,000 | Slip-on Terminals | 2.75 | 400 | Trapezoidal | |
| 24882 | 12 | 4591 | PAR36 | Aircraft Landing | 28.0 | 100W | 90,000 | Screw Terminals | 2.75 | 25 | 12 | 6 | |
| 24887 | 12 | 4593 | PAR36 | Aircraft In-Air Refueling | 28.0 | 50W | 1,500 | Screw Terminals | 2.75 | 400 | 80 | 30 | |
| 24891 | 12 | 4594 | PAR36 | Aircraft Navigation | 28.0 | 100W | 70,000 | Screw Terminals | 2.75 | 300 | 13 | 7 | |
| 24892 | 12 | 4595 | PAR36 | Aircraft Navigation | 28.0 | 100W | 60,000 | Screw Terminals | 2.75 | 300 | 14 | 6 | |
| 24898 | 12 | 4596 | PAR36 | Aircraft Landing | 28.0 | 250W | 150,000 | Screw Terminals | 2.75 | 25 | 11 | 12 | 302 |
| 24964 | 12 | 4626 | PAR36 | Aircraft Taxiing | 28.0 | 150W | 25,000 | Screw Terminals | 2.75 | 300 | 40 | 9 | |
| 24966 | 12 | 4627 | PAR36 | Aircraft Flood | 28.0 | 100W | 3,000 | Screw Terminals | 2.75 | 300 | 80 | 30 | |
| 33284 | 12 | 4635 | PAR46 | Aircraft Landing | 16.5 | 450W | 325,000 | Screw Terminals | 3.75 | 25 | 14 | 15 | 302 |
| 19632 | 16407 | 12/672 | 4636-3 | PAR46 | Signal | 14.0 | 80W | 90,000 | Combination | 3.75 | 200 | 9 | 7½ |



Miniature & Sealed Beam Lamps

| Order Code Unit | Case Qty. Bulk | GE Unit/Bulk | Lamp No. | Bulb | Primary Application | Design Volts | Design Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% MBCP Horiz Vert | | Warning & Footnotes |
|--------------------------------|----------------|--------------|----------|-------|---------------------------------|---------------|----------------|---------|----------------------------|----------|------------------|-------------------------------|----------|---------------------|
| SEALED BEAM (CONTINUED) | | | | | | | | | | | | | | |
| 18517 | 41861 | 6/576 | 4651 | 165mm | Headlamp, High Beam, 1A1 | 12.8 | 50W | SAE | 2 Contact Lugs | 4.8 | 200 | | | 4, 307 |
| 18518 | | 6 | 4652 | 165mm | Headlamp, Low Beam, 2A1 | 12.8 | 40W 60W | SAE | 3 Contact Lugs | 4.8 | 200 320 | | | 4, 307 |
| 39906 | 39907 | 12/60 | 4700 | PAR36 | Spot/Flood | 113.0 13.0 | 100W 100W | 100M | 3 Screw Terminals 50M | 2.75 | 25 255 | 12 17 | 7 18 | |
| 45427 | | 12 | 4713 | PAR36 | Aircraft Logo | 28.0 | 150W | 4,200 | Screw Terminals | 2.75 | 300 | 50 | 65 | |
| 44724 | | 12 | 4752 | PAR36 | C.I.M. Flood | 28.0 | 60W | 2,000 | Screw Terminals | 2.75 | 800 | 50 | 25 | |
| 24973 | | 12 | 4800 | PAR56 | Auto Headlamp, Military | 28.0 28.0 | 50W 40W | SAE | 3 Contact Lugs | 5 | 400 400 | | | |
| 24980 | | 12 | 4811 | PAR36 | Auto Headlamp, Military | 28.0 28.0 | 110W 55W | SAE | 3 Contact Lugs | 3 | 400 400 | | | |
| 24981 | 24982 | 12/60 | 4825R | PAR36 | C.I.M. Stop/Tail Red Lens | 28.0 28.0 | 50W 18W | 200 | 3 Screw Terminals 40 | 2.75 | 200 200 | - | - | |
| 24995 | | 12 | 4880 | PAR46 | C.I.M. Headlamp | 28.0 | 60W | 6,000 | 2 Contact Lugs | 4 | 800 | - | - | |
| 45110 | 45111 | 12/576 | 4912-1 | 165mm | Auto/Truck Fog | 12.8 | 50W | 14,000 | Slip-on Terminals | 4.53 | 300 | 40 | 7 | 167, 307 |
| | 45113 | 16 | 4913-1 | 165mm | Farm Tractor, Flood | 12.8 | 50W | 1,350 | Slip-on Terminals | 4.53 | 400 | 80 | 20 | 4, 307 |
| 45116 | 16195 | 12/576 | 4921-1 | 165mm | Auto/Truck, Special Service | 13.0 | 100W | 25,000 | Slip-on Terminals | 4.53 | 300 | 40 | 7 | 109, 307 |
| 11639 | | 6 | 5001 | PAR46 | Headlamp, High Beam, 1C1 | 12.8 | 50W | SAE | 2 Contact Lugs | 4 | 300 | | | 4 |
| 16152 | | 12 | 5557 | PAR64 | Aircraft Landing/Taxiing | 28.0 28.0 | 1,000W 400W | 540M | 3 Screw Terminals 100M | 3.75 | 50 100 | 11 25 | 15 11 | 138, 302 |
| 25114 | | 12 | 6006 | PAR56 | Auto Headlamp | 6.1 6.2 | 50W 40W | SAE | 3 Contact Lugs | 5 | 300 500 | | | |
| 18519 | | 6 | 6014 | PAR56 | Auto Headlamp, Type 2D1 | 12.8 12.8 | 60W 50W | SAE | 3 Contact Lugs | 5 | 320 150 | | | 4 |
| 38416 | 38607 | 12/432 | 6015 | PAR56 | Headlamp, Type 2D1 | 12.8 12.8 | 50W 50W | SAE | 3 Contact Lugs | 5 | 300 500 | | | 4 |
| 25153 | | 12 | 6045 | PAR56 | Signal | 26.0 | 170W | 230,000 | Screw Terminals | 4.5 | 100 | 9 | 8 | |
| 18521 | 43867 | 6/448 | 6052 | 200mm | Auto Headlamp, Type 2B1 | 12.8 12.8 | 65W 55W | SAE | 3 Contact Lugs | 5.44 | 150 320 | | | 4, 307 |
| 40190 | 40191 | 12/60 | 7400 | PAR36 | Signal, Rotating Beacon | 12.8 | 35W | 33,000 | Slip-on Terminals | 2.75 | 300 | 12 | 5 | |
| | 42385 | 60 | 7400-1 | PAR36 | Signal, Rotating Beacon | 12.8 | 35W | 33,000 | Screw Terminals | 2.75 | 300 | 12 | 5 | |
| 39987 | 39988 | 12/60 | 7414Y | PAR36 | Signal, Light Yellow Lens | 12.8 | 18W | 1,000 | Screw Terminals | 2.75 | 300 | 50 | 25 | |
| 41865 | 41866 | 12/60 | 7613 | PAR36 | Emergency Bldg. Lighting | 6.0 | 8W | 400 | Screw Terminals | 2.75 | 50 | 30 | 20 | |
| 45101 | 45102 | 12/60 | 7613-1 | PAR36 | Emergency Bldg. Lighting | 6.0 | 8W | 400 | Slip-on Terminals | 2.75 | 50 | 30 | 20 | |
| 11421 | 11422 | 12/60 | 7672-1 | PAR36 | Emergency Bldg. Lighting | 6.0 | 7.2W | 350 | Slip-on Terminals | 2.75 | 50 | 30 | 20 | |
| 22386 | | 6 | H4351 | 140mm | Headlamp Low Beam Type K | 12.8 | 55W | SAE | Right Angle | 4 | 500 | | | 307 |
| 10211 | | 6 | H4351LH | 140mm | Auto – Left Drive – Export only | 12.8 | 55W | - | Right Angle | 4 | 500 | | | 307 |
| 22387 | | 6 | H4352 | 140mm | Headlamp, Upper Beam, Type K | 12.8 | 65W | SAE | Right Angle | 4 | 150 | | | 307 |
| | 18350 | 48 | H4360 | 140mm | Tractor | 12.8 | 37.5W | 2,000 | 2 Right Angle Lugs | 3 | 320 | Trapezoidal | | 307 |
| 15129 | | 12 | H4405 | PAR36 | Spotlamp, Shielded Bulb | 12.8 | 30W | 66,000 | Screw Terminals | 2.75 | 100 | 7 | 4 | 167, 307 |
| | 17674 | 60 | H4460X | PAR36 | Tractor | 12.8 12.8 | 40W 40W | 11,000 | 3 Screw Terminals 8,500 | 2.75 | 320 320 | 22 22 | 10 13 | 4, 307 |
| 15133 | | 12 | H4515 | PAR36 | Spotlamp, Shielded Bulb | 6.4 | 30W | 67,000 | Screw Terminals | 2.75 | 100 | 5.5 | 4 | 167, 307 |
| 18532 | 45027 | 6/576 | H4651 | 165mm | Headlamp, High Beam, Type 1A | 12.8 | 50W | SAE | 2 Contact Lugs | 4.8 | 200 | | | 4, 307 |
| 46375 | | 6 | H4651SB | 165mm | Headlamp, High, 1A. White Light | 12.8 | 50W | SAE | 2 Contact Lugs | 4.8 | 200 | | | 4, 307 |
| 18533 | 49810 | 6/576 | H4656 | 165mm | Headlamp, Low Beam, 2A1 | 12.8 12.8 | 35W 35W | SAE | 3 Contact Lugs | 4.8 | 200 320 | | | 4, 307 |
| 14753 | | 6 | H4656H0 | 165mm | Headlamp, Low 2A1. High output | 12.8 12.8 | 40W 55W | SAE | 3 Contact Lugs | 4.8 | 200 700 | | | 4, 307 |
| 45475 | | 6 | H4656SB | 165mm | Headlamp, Low 2A1. White Light | 12.8 12.8 | 40W 55W | SAE | 3 Contact Lugs | 4.8 | 75 200 | | | 4, 307 |



Miniature & Sealed Beam Lamps

| Order Code Unit | Case Qty. Bulk | GE Unit/Bulk | Lamp No. | Bulb | Primary Application | Design Volts | Design Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% Horiz | MBCP Vert | Warning & Footnotes |
|--------------------------------|----------------|--------------|------------|-------|-------------------------------|--------------|--------------|---------|--------------------|----------|------------------|---------------------|-----------|---------------------|
| SEALED BEAM (CONTINUED) | | | | | | | | | | | | | | |
| 18535 | 22879 | 6/576 | H4666 | 165mm | Headlamp, High/Low Beam, 2E1 | 12.8 12.8 | 65W 55W | SAE | 3 Contact Lugs | 4.8 | 150 320 | | | 4, 166, 307 |
| 18536 | 48533 | 6/480 | H4701 | 150mm | Headlamp High Beam Type UF | 12.8 | 65W | SAE | 2 Lugs | 3.4 | 150 | | | 307 |
| 18538 | 48534 | 6/480 | H4703 | 150mm | Headlamp, Low Beam Type LF | 12.8 | 55W | SAE | 2 Lugs | 3.4 | 320 | | | 307 |
| 18522 | 6 | H5001 | PAR46 | | Headlamp High Beam, Type 1C1 | 12.8 | 50W | SAE | 2 Contact Lugs | 4 | 200 | | | 4, 307 |
| 18523 | 6 | H5006 | PAR46 | | Headlamp, Low Beam Type 2C1 | 12.8 12.8 | 35W 35W | SAE | 3 Contact Lugs | 4 | 200 320 | | | 4, 307 |
| 19428 | 19559 | 6/432 | H5024 | PAR56 | Headlamp. High/Low. 2D1. | 12.8 12.8 | 65W 42W | SAE | 3 Contact Lugs | 5 | 400 2000 | | | 4, 307 |
| 19411 | 19556 | 6/576 | H5051 | 165mm | Headlamp, High. 1A. Long Life | 12.8 | 50W | SAE | 2 Contact Lugs | 4.8 | 500 | | | 4, 307 |
| 19429 | 19558 | 6/448 | H5054 | 200mm | Headlamp. High/Low. 2B1. | 12.8 12.8 | 65W 42W | SAE | 3 Contact Lugs | 5.44 | 400 2000 | | | 4, 307 |
| 19412 | 19557 | 6/576 | H5062 | 165mm | Headlamp, High/Low. 2A1. | 12.8 12.8 | 40W 55W | SAE | 3 Contact Lugs | 4.8 | 400 2000 | | | 4, 307 |
| | 41453 | 48 | H5360 | 140mm | Halogen Tractor Work Light | 12.8 | 37.5W | 2,000 | 2 Right Angle Lugs | 3 | 900 | Trapezoidal | | 307 |
| 18525 | 6 | H6024 | PAR56 | | Headlamp, High/Low Beam, 2D1 | 12.8 12.8 | 65W 35W | SAE | 3 Contact Lugs | 5 | 150 320 | | | 4, 307 |
| 18534 | 11545 | 6/448 | H6054 | 200mm | Headlamp, High/Low Beam, 2B1 | 12.8 12.8 | 65W 35W | SAE | 3 Contact Lugs | 5.44 | 150 320 | | | 4, 307 |
| 14752 | 6 | H6054HO | 200mm | | Headlamp, 2B1. High Output. | 12.8 12.8 | 65W 55W | SAE | 3 Contact Lugs | 5.44 | 150 700 | | | 4, 307 |
| 45477 | 6 | H6054SB | 200mm | | Headlamp, 2B1. White Light | 12.8 12.8 | 65W 55W | SAE | 3 Contact Lugs | 5.44 | 75 200 | | | 4, 307 |
| 43561 | 43562 | 12/60 | H7550 | PAR36 | Hand Lantern | 6.0 | 8W | 25,000 | Screw Terminals | 2.75 | 50 | 3 | 3 | 307 |
| | 23541 | 60 | H7550-1 | PAR36 | Hand Lantern | 6.0 | 8W | 25,000 | Slip-on Terminals | 2.75 | 50 | 3 | 3 | 307 |
| 43564 | 43565 | 12/60 | H7551 | PAR36 | Emergency Bldg. Lighting | 6.0 | 8W | 550 | Screw Terminals | 2.75 | 50 | 30 | 20 | 307 |
| 43567 | 12 | H7552 | PAR36 | | Emergency Bldg. Lighting | 6.0 | 10W | 650 | Screw Terminals | 2.75 | 50 | 30 | 20 | 307 |
| 43570 | 43571 | 12/60 | H7553 | PAR36 | Emergency Bldg. Lighting | 6.0 | 12W | 850 | Screw Terminals | 2.75 | 50 | 30 | 20 | 307 |
| | 43574 | 60 | H7554 | PAR36 | Emergency Bldg. Lighting | 6.0 | 20W | 1,400 | Screw Terminals | 2.75 | 50 | 30 | 20 | 307 |
| 44642 | 44643 | 12/60 | H7555 | PAR36 | Emergency Bldg. Lighting | 12.0 | 8W | 550 | Screw Terminals | 2.75 | 50 | 30 | 20 | 307 |
| 44924 | 44925 | 12/60 | H7556 | PAR36 | Emergency Bldg. Lighting | 6.0 | 6W | 400 | Screw Terminals | 2.75 | 50 | 30 | 20 | 307 |
| 12720 | 12721 | 12/60 | H7557 | PAR36 | Emergency Bldg. Lighting | 12.0 | 12W | 850 | Screw Terminals | 2.75 | 50 | 30 | 20 | 307 |
| 42841 | 42842 | 12/60 | H7600 | PAR36 | Signal, Rotating Beacon | 12.8 | 37.5W | 60,000 | Screw Terminals | 2.75 | 300 | 9 | 4½ | 307 |
| 43576 | 43577 | 12/60 | H7604 | PAR36 | Halogen Spotlamp | 12.8 | 50W | 100,000 | Screw Terminals | 2.75 | 100 | 7 | 5 | 307 |
| 14616 | 43580 | 6/60 | H7606 | PAR36 | Tractor, Flood | 12.8 | 50W | 1,000 | Screw Terminals | 2.75 | 400 | 80 | 30 | 4, 307 |
| | 17672 | 60 | H7607 | PAR36 | Tractor Flood | 12.8 | 65W | 1,500 | Screw Terminals | 2.75 | 600 | Non-Symmetrical | | 4, 307 |
| 14617 | 43583 | 6/24 | H7609 | PAR46 | Tractor Flood | 12.8 | 50W | 2,200 | Screw Terminals | 3.75 | 400 | 80 | 20 | 4, 307 |
| 14618 | 43586 | 6/60 | H7610 | PAR36 | Halogen Tractor | 12.8 | 50W | 5,200 | Screw Terminals | 2.75 | 400 | Trapezoidal | | 4, 307 |
| 49695 | 12 | H7612 | PAR46 | | Halogen Fog | 12.8 | 37.5W | 15,000 | Screw Terminals | 3.75 | 450 | 40 | 7 | 307 |
| 49731 | 49732 | 12/60 | H7614 | PAR36 | Halogen Flood | 12.8 | 50W | 2,000 | Screw Terminals | 2.75 | 100 | 70 | 30 | 307 |
| 42838 | 42839 | 12/60 | H7616 | PAR36 | Halogen Spotlamp | 12.8 | 37.5W | 70,000 | Screw Terminals | 2.75 | 300 | 7 | 4 | 307 |
| 14619 | 43589 | 6/24 | H7619 | PAR46 | Halogen Tractor | 12.8 | 50W | 6,000 | Screw Terminals | 3.75 | 400 | Trapezoidal | | 4, 307 |
| | 45058 | 24 | H7621-1 | PAR46 | Auto/Truck Special Service | 12.8 | 50W | 20,000 | Slip-on Terminals | 3.75 | 200 | 50 | 7 | 4, 109, 307 |
| 43591 | 43592 | 12/24 | H7635 | PAR46 | Halogen Spotlamp | 12.8 | 50W | 160,000 | Screw Terminals | 3.75 | 100 | 6½ | 4 | 307 |
| | 18022 | 24 | H7635X | PAR46 | Halogen Spotlamp | 12.8 | 50W | 160,000 | Screw Terminals | 3.75 | 100 | 6½ | 4 | 167, 307 |
| 17894 | 17890 | 12/24 | H7680 HIR | PAR46 | Infrared Spotlamp | 13.0 | 80W | 275,000 | Screw Terminals | 3.75 | 100 | 6½ | 6½ | 301 |
| 26694 | 26695 | 12/24 | H7680X HIR | PAR46 | Infrared-Spotlamp Long Life | 13.0 | 80W | 230,000 | Screw Terminals | 3.75 | 300 | 6½ | 6½ | 301 |



Miniature & Sealed Beam Lamps

| Order Code Unit | Case Qty. Bulk | GE Lamp No. | Bulb | Primary Application | Design Volts | Design Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% MBCP | | Warning & Footnotes |
|--------------------------------|----------------|--------------|-------|-----------------------------------|--------------|--------------|---------|--------------------|----------|------------------|--------------------|------|---------------------|
| | | | | | | | | | | | Horiz | Vert | |
| SEALED BEAM (CONTINUED) | | | | | | | | | | | | | |
| 23250 | 16 | H7913 HIR | 165mm | Farm Tractor, Flood Infrared | 12.8 | 65W | 4,000 | 2 Contact Lugs | 4.8 | 800 | 70 | 20 | 301 |
| 13426 | 16 | H7921-1 | 165mm | Auto/Truck Special Service | 12.8 | 50W | 23,900 | Slip-on Terminals | 4.53 | 200 | 35 | 5 | 4, 109, 307 |
| 47460 | 14892 | 6/16 H7935-1 | 165mm | Halogen Spotlamp | 12.8 | 50W | 175,000 | Slip-on Terminals | 4.53 | 100 | 6½ | 3½ | 307 |
| 15767 | 15763 | 12/48 H9405 | 150mm | Spotlamp, Halogen | 12.8 | 50W | 100,000 | 2 Right Angle Lugs | 3 | 100 | 7 | 4 | 307 |
| 15769 | 15768 | 12/48 H9406 | 150mm | Tractor, Flood, Halogen | 12.8 | 50W | 1,350 | 2 Right Angle Lugs | 3 | 400 | 70 | 30 | 4, 307 |
| 15771 | 15770 | 12/48 H9411 | 150mm | Tractor, Trapezoidal | 12.8 | 50W | 5,400 | 2 Right Angle Lugs | 3 | 400 | Trapezoidal | | 4, 307 |
| 15772 | 48 | H9414 | 150mm | Tractor Medium Flood | 12.8 | 50W | 2,700 | 2 Right Angle Lugs | 3 | 400 | 45 | 20 | 4, 307 |
| 16484 | 16483 | 12/48 H9415 | 150mm | Auto, Fog | 12.8 | 37.5W | 12,000 | 2 Right Angle Lugs | 3 | 200 | 45 | 5 | 4, 307 |
| 17988 | 12 | H9415A | 150mm | Auto Fog Amber | 12.8 | 37.5W | - | 2 Right Angle Lugs | 3 | 200 | 45 | 5 | 4, 307 |
| 16976 | 16978 | 12/48 H9420 | 150mm | Auto, Driving | 12.8 | 50W | 47,000 | 2 Right Angle Lugs | 3 | 200 | 15 | 5 | 4, 307 |
| 16482 | 16204 | 12/48 H9421 | 150mm | Auto, Truck, Special Service | 12.8 | 50W | 4,000 | 2 Right Angle Lugs | 3 | 200 | 45 | 8 | 4, 109, 307 |
| 22109 | 12 | Q4509 | PAR36 | Aircraft Landing | 13.0 | 100W | 140,000 | Screw Terminal | 2.75 | 100 | 7 | 7 | 301 |
| 37706 | 12 | Q4554 | PAR46 | Aircraft Taxiing | 28.0 | 450W | 65,000 | Screw Terminals | 2.63 | 100 | 50 | 11 | 301 |
| 40579 | 12 | Q4559 | PAR64 | Aircraft Landing | 28.0 | 600W | 600,000 | Screw Terminals | 3.75 | 100 | 12 | 8 | 138, 301 |
| 42552 | 12 | Q4559X | PAR64 | Aircraft Landing | 28.0 | 600W | 765,000 | Screw Terminals | 3.75 | 100 | 11 | 7½ | 139, 301 |
| 41097 | 12 | Q4566 | PAR46 | Aircraft Logo Light | 28.0 | 450W | 150,000 | Screw Terminals | 3.32 | 1,000 | 16 | 12 | 301 |
| 37372 | 12 | Q4597 | PAR46 | Aircraft Flood | 28.0 | 450W | 16,000 | Screw Terminals | 3.32 | 1,000 | 60 | 35 | 301 |
| 40577 | 12 | Q4629 | PAR64 | Aircraft Logo Light | 28.0 | 600W | 20,000 | Screw Terminals | 4.81 | 1000 | 55 | 35 | 301 |
| 34537 | 12 | Q4631 | PAR36 | Aircraft Landing, Wing Inspection | 13.0 | 250W | 80,000 | Screw Terminals | 2.75 | 500 | 13 | 12 | 301 |
| 39112 | 12 | Q4632 | PAR36 | Aircraft Logo | 13.0 | 250W | 75,000 | Screw Terminals | 2.75 | 500 | 14 | 12 | 301 |
| 36271 | 12 | Q4681 | PAR46 | Aircraft Landing | 28.0 | 450W | 310,000 | Screw Terminals | 2.63 | 50 | 15 | 9 | 301 |
| 41452 | 12 | Q5551 | PAR46 | Aircraft Taxiing | 28.0 | 250W | 60,000 | Screw Terminals | 3.32 | 100 | 48 | 12 | 301 |
| 16784 | 12 | Q5559 | PAR64 | Aircraft Landing | 28.0 | 600W | 650,000 | Screw Terminals | 3.75 | 200 | 11 | 7½ | 138, 301 |
| 29130 | 22227 | 12/60 Q7558 | PAR36 | Landscaping | 12.0 | 20W | 365 | Screw Terminals | 2.75 | 5000 | 55 | 45 | 301 |
| 28113 | 12 | Q7559 | PAR36 | Landscaping | 12.0 | 20W | 120 | Screw Terminals | 2.75 | 5000 | 70 | 70 | 301 |
| 28111 | 12 | Q7560 | PAR36 | Landscaping | 12.0 | 20W | 1,900 | Screw Terminals | 2.75 | 5000 | 24 | 23 | 301 |
| 28874 | 12 | Q7561 | PAR36 | Landscaping | 12.0 | 20W | 11,000 | Screw Terminals | 2.75 | 5000 | 9 | 8 | 301 |



FOOTNOTES

Footnote

- 1 Special ballast required per ECE R99.
- 2 B3 life, not average life.
- 3 Useful life hours.
- 4 Life at 14 volts.
- 10 Life at 5 volts.
- 11 Filament vertical.
- 12 Average overall length.
- 13 Filament supported.
- 14 This lamp may not be suitable for some uses because of its excessive wattage requirements for the bulb size.
- 15 This lamp may not be suitable for some uses because of its limited mechanical strength.
- 17 Filament shielded.
- 23 Life at 7 volts.
- 32 Designed and rated for operation in supplementary cathode preheat circuits.
- 33 Connections of major and minor filament to base are reversed from those for automotive lamps with Double Contact Index bases. Burn base down to horizontal.
- 44 Life at 6.6 volts.
- 68 Uses lens-end TL3¼ bulb. Provides 7,000 to 11,000 foot-candles in a ¼" diameter spot at ¼" from end of bulb.
- 69 Not recommended for new OEM applications - suggested for new design are wedge base.
- 70 These lamps produce a random flashing indication only. The majority should flash between 40-160 flashes per minute at normal room temperature, some will be outside this range. As ambient temperature and/or input voltage changes, the flash rate may vary considerably. At rated voltage and room temperature most lamps will flash within 60 seconds.
- 75 Life estimated. Based on limited test information.
- 78 ANSI specifies .38" LCL and .63" MOL.
- 79 Life shown is AC voltage only. DC life will be approx. 50% of AC.
- 80 Light output is approx. end foot candles, not spherical MSCP.
- 92 Filament segments parallel.
- 109 Special fixture required for highway use.
- 110 To be used with variable load flasher in applications where bulb outage indication is not required, or with an appropriate fixed load flasher. Flash rate may be altered if used with incorrect fixed load flasher.
- 113 This is a flange seal wire terminal lamp. When unbased lamps such as these are handled and wired into a device, damage can be kept to a minimum by allowing sufficient clearance so that no physical strain or excessive heat is placed on the exhaust tube, exhaust tube tip, or glass seal; by taking care in mounting lamp in equipment so that any material touching the glass is compatible in thermal expansion; and by avoiding excessive tensile strain on the lead wires.
- 116 Life tests are performed on DC voltage only.
- 121 To minimize the possible adverse effects on lamp life due to excessive wattage in relationship to bulb size: Burn Base Down to Base 45° Above Horizontal. Regardless of burning position, this excessive wattage will abnormally decrease light output during lamp life.
- 122 This is a wire terminal lamp. The glass-to-metal seal (and tip where applicable) are susceptible to damage by thermal shock, and soldering or welding within ¼" of the glass should be avoided as glass cracks and air leaks may develop. Solderability may be adversely affected by storage for an extended period in excess of six months or by storage in a high humidity environment. Lamps with tinned leads would be subject to these storage restrictions. Nickel-plated leads are not recommended for soldering; however, their ability to be welded is not affected by these storage restrictions.
- 124 .028" metal pins spaced 44mm (.157") apart. GE's two-pin lamps might not be compatible with all G-4 sockets since many sockets do not provide clearance for the exhaust tip.
- 127 LCL measured to top of filament.
- 128 Output is minimum ¼" spot at .100" from bulb top.
- 130 Subminiature wedge base lamps under 12 volts have copper-clad outer lead wires to decrease contact resistance at the expense of corrosion resistance in severe environments.
- 132 Paint may peel, craze or discolor when subjected to excessive moisture, heat, and freezing in housings with plugged drain holes or which otherwise leak or trap moisture.
- 138 Life Test Conditions: Cycled 5 minutes on, 5 off.
- 139 Life Test Conditions: Cycled 20 minutes on, 20 off.
- 147 Differs from ANSI.
- 160 Filament will generate specified MSCP in a non shielded bulb.
- 161 MSCP measured with black top.
- 162 Life based on three hours of burning per start. MSCP at 100 Hrs. Designed and rated for operation in supplementary cathode preheat circuits. Use these lamps with auxiliary equipment specially designed to produce proper electrical values according to established specification. For total load, add auxiliary watts to lamp watts.
- 164 Life to approximately 50% of initial output. Values shown apply to use on AC unless otherwise shown. Life on DC is approximately 60% of AC values when DC current is equal to R.M.S. (Root Mean Square) AC value. When equal DC and R.M.S. AC voltages and equal resistances are utilized, life will be approximately the same.
- 166 Contact Lugs are angled.
- 167 Filament shielded.

WARNINGS AND CAUTION NOTICES

301

▲ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

302

▲ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid contact with glass during operation
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product

303

▲ WARNING

Lamp may shatter if used in wrong circuit

- Do not use in 110-120 Volt household circuit

304

▲ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury

- Avoid exposure of eyes and skin to unshielded lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

FOR BEST PERFORMANCE

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage



WARNINGS AND CAUTION NOTICES (CONTINUED)

305

▲ CAUTION

Lamp may shatter and cause injury if broken

- Do not use excessive force when installing lamp

306

▲ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

307

▲ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

308

▲ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

FOR BEST PERFORMANCE

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

309

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

▲ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

310

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

Risk of fire

- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed
- Turn power off before installing lamp

Lamp may rupture if used on wrong ballast

- Use only properly rated ballast

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Remove and install by grasping only plastic portion of the lamp
- Do not use excessive force when installing lamp

INSTRUCTIONS

FDA Warning

WARNING - This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if outer envelope of the lamp is broken or punctured and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. 21 CFR 1040.30.

Hg - LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

See: www.lamprecycle.org or 1-800-435-4448

Lamp should be installed by an automotive service specialist.



GENERAL INFORMATION

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QUARTZLINE® REFLECTOR LAMPS

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INCANDESCENT PROJECTION

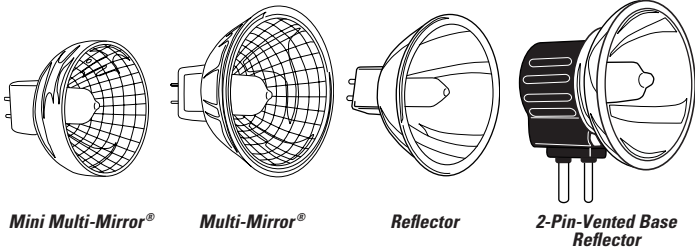
| | |
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LAMP LOCATOR

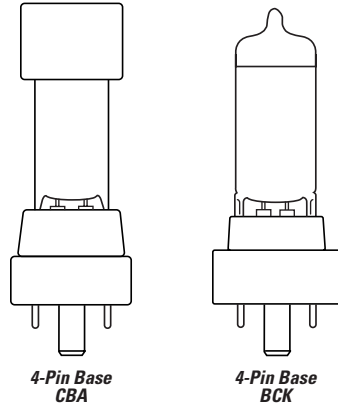


Mini Multi-Mirror®

Multi-Mirror®

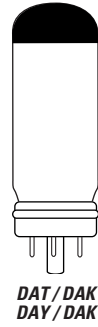
Reflector

2-Pin-Vented Base Reflector



4-Pin Base CBA

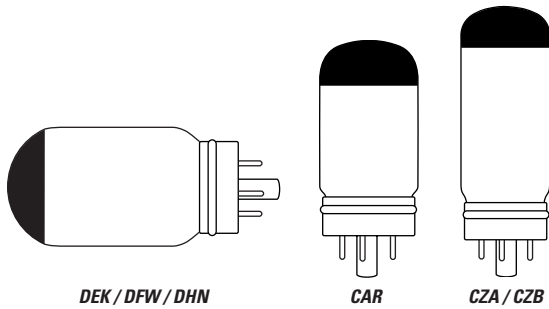
4-Pin Base BCK



DAT / DAK
DAY / DAK

Quartzline® Projection Lamps

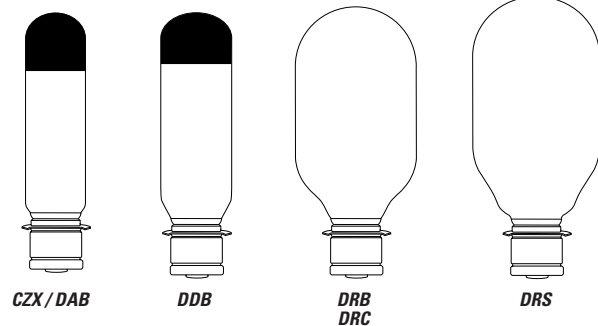
Incandescent Projection Lamps / 4-Pin Base



DEK / DFW / DHN

CAR

CZA / CZB



CZX / DAB

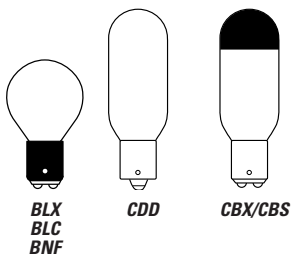
DDB

DRB
DRC

DRS

Incandescent Projection Lamps / 4-Pin Base – Proximity Reflector

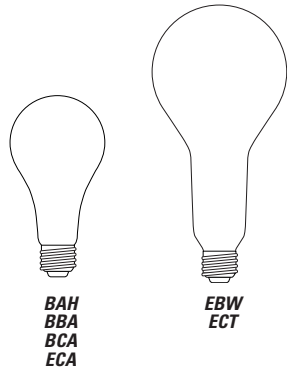
Incandescent Projection Lamps / Medium Prefocus Base



BLX
BLC
BNF

CDD

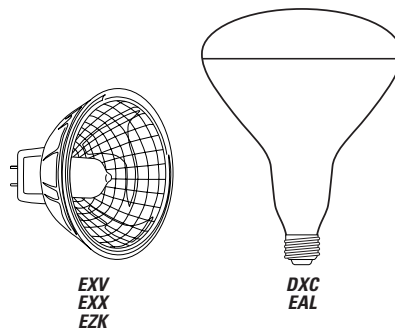
CBX/CBS



BAH
BBA
BCA
ECA

EBW
ECT

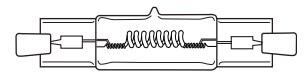
Standard Photofloods



EXV
EXX
EZK

DXC
EAL

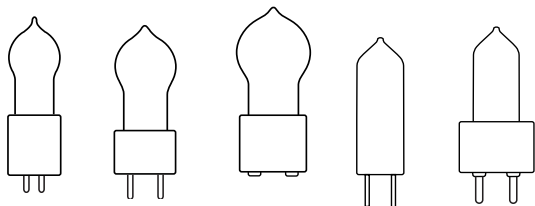
Reflector Photofloods



Double-Ended

Quartzline® Projection Lamps

Incandescent Projection Lamps / Single or Double Contact Bayonet Base



G-6
G5.3

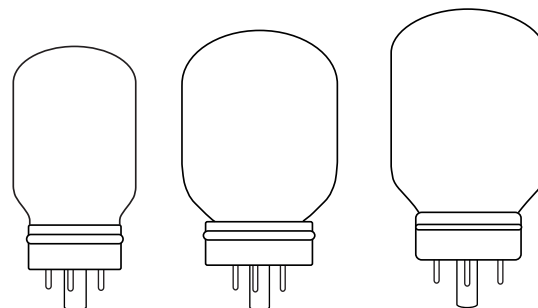
G-7
GZ9.5

G-7
2 Button

T-4
GY6.35

T-4
GZ9.5

Quartzline® Projection Lamps – Single-Ended



DFN / DFC / DCH /
DJA / DFP

DLD / DFZ
GX17q

DJL
G17q

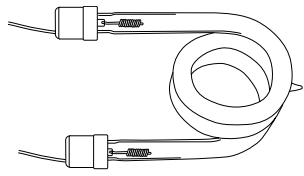
DPT
Mog Base

Incandescent Projection Lamps / 4-Pin Base – Focusing Reflector

Incandescent Projection Lamps / Misc.

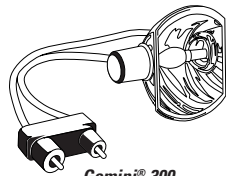


Projection Lamps



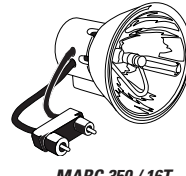
PXA-50
PXA-80

Pulsed Xenon Arc Lamps



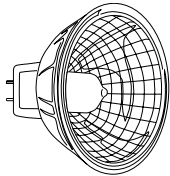
Gemini® 300
EZG

High-Intensity Gemini® Arc Lamps

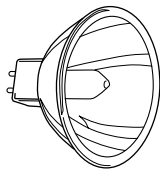


MARC 350 / 16T
EZT

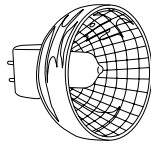
High-Intensity MARC™ Arc Lamps



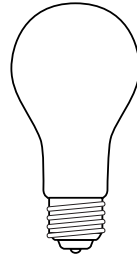
DDF ENH
EJV EJC
ESD ELC
ESJ ELH
EVW EYA



EJV



EZJ/EZJ



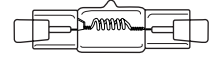
PH/211
PH/212
PH/213
BBA



PH/140



PH/111A

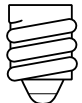


FAL
FFJ

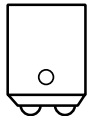
Enlarger & Printer Lamps

BASE IDENTIFICATION

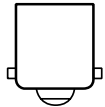
Typical bases used on Projection lamps in this catalog are shown below along with their names and common abbreviations. Where the base is an ANSI standard type, the ANSI reference code (which is the same as the IEC base code) is also shown. ANSI reference codes conform to American National Standard C81.10, C81.30, C81.50 specifications for electric lamp bases and lampholders. Illustrations are not to scale.



Candelabra
(Cand.)
E12/15



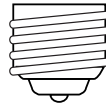
Double Contact
Bayonet
(D.C. Bay.)
BA15d



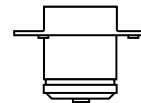
Single Contact
Bayonet
(S.C. Bay.)
BA15s



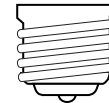
Candelabra Prefocus
(S.C. Pref.)
P30s
(D.C. Pref.)
P30d



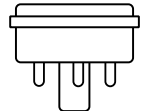
Medium
E26s



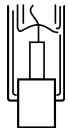
Medium Prefocus
P28/25



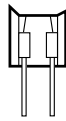
Mogul
E39



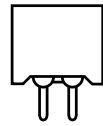
4-Pin
G17q (Std. Volts)
GX17q (Low Volts)



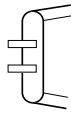
Recessed Single
Contact
R7



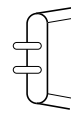
Glass 2-Pin
G6.35 (.040" diam. Pins)
GY6.35 (.050" diam. Pins)
GZ6.35 (Reflector Quartz-
line® lamps)



Miniature 2-Pin
G5.3



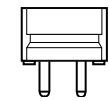
GY5.3 2-Pin
(Flat Pins)



GX5.3 2-Pin
(Round Pins)



2-Button



2-Pin Prefocus
GY & GZ9.5



2-Pin Vented
G7.9 (Std. Volts)
GX7.9 (Low Volts)

LIGHT CENTER LENGTH (LCL)

Light center length is the distance from the center of the light source to the point indicated below for the lamp base used. It is a measurement to which the lamp is designed and is subject to the manufacturer's tolerances.

| Base Type | LCL Reference |
|----------------------|------------------------|
| All Screw Bases | Bottom base contact |
| Medium Prefocus | Top of base fins |
| S.C. or D.C. Bayonet | Top of base pins |
| 2-Pin Prefocus | Bottom of base ceramic |
| Miniature 2-Pin | Bottom of base pins |
| Glass 2-Pin | Bottom of base pins |

| Base Type | LCL Reference |
|--------------------------|---|
| 2-Button | Top of ceramic base to top of filament coil |
| 2-Pin Vented | Bottom of base ceramic to lamp optical axis |
| 4-Pin | Bottom edge of base cup |
| Locking 4-Pin | Bottom edge of base cup |
| S.C., or D.C. Candelabra | |
| Prefocus | Plane of locating bosses on prefocus collar |



FILAMENT IDENTIFICATION

The configuration of the filament in all tungsten filament lamps (including Quartzline®) is identified by a prefix letter and a suffix number. The prefix letter indicates whether the filament wire is a single coil (C) or a coiled coil (CC). The suffix number indicates the form or arrangement of the filament coil or coils on its support structure. Illustrations are not to scale.



C-2V
CC2-V



C-9



2C-8
2CC-8



C-13



C-13D



C-6 Oval



C-6
CC-6



C-8
CC-8

INTRODUCTION

General Electric Projection Lamps are designed for a wide variety of applications... and now extending well beyond the original picture-taking and audio-visual projection uses into such fields as: fiber optical systems, graphic arts, video camera lights, airport runway markers, micrographics, photo printers and enlargers, medical/scientific instruments, and many others.

The information contained in this section is designed to provide end-users, equipment manufacturers, and lamp distributors and dealers with:

- Essential technical data on GE Projection Lamps (Quartzline®, Incandescent, MARC™ and Photoflood)
- Suggested substitutes for improved performance or discontinued lamps

The majority of Projection Lamps described herein are characterized by:

- Precisely manufactured, tailored filaments... maximizing source brightness, optimum performance in precision optical devices

- High light-generating efficacy (lumens per watt)... to help minimize power requirements and heat generation
- Prefocus type bases, or rim-reference mounting for Multi-Mirror® lamps... to position the filament accurately in relation to the associated optics
- Design life Rated Life (per ANSI Standard)
- Lamps with internal or external reflectors (as in Multi-Mirror® and some 4-pin projection lamps)... permitting high-efficiency illumination system designs with a minimum of additional optical control elements

Manufacturers and designers of equipment requiring lamps should select lamps of established design whenever possible for maximum economy, as well as for ease of replacement by their customers through regular trade channels. General Electric offers application engineering assistance to all customers for applying lamps in product design. Contact your local GE Lamp Representative for additional information or assistance.

CAUTION NOTICE

As with any product, certain precautions should be observed in the handling and use of GE Projection Lamps to provide optimum performance and safety. These are given in the Caution Notices that are printed on page 8-13.

Important Notice

This catalog contains accumulated data to March 2006. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps. For the latest lamp design data and information, contact your General Electric Lamp Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp for any particular

application or use in any particular equipment, nor are our representatives authorized to make any such representations or give any such warranties. Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make his own determination as to the suitability of a lamp for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products when it believes such changes will improve its products.



GENERAL INFORMATION

General Electric Projection Lamps are briefly described in the alphabetical lamp index (pages 8-6 – 8-7). More extensive descriptive and performance data are found in the lamp tables, which are organized as “families” of lamps with one or more features in common – such as Multi-Mirror® Quartzline®, Single-Ended Quartzline®, 4-Pin Based Incandescent, PhotoFlood, etc. Within each table, lamps are listed alphabetically by GE Lamp Code.

GE MULTI-MIRROR® QUARTZLINE® PROJECTION LAMPS

Invented By GE For Optimized Projection System Performance.

The Multi-Mirror® and its new companion, the Mini Multi-Mirror®, are reflector halogen Quartzline® lamps with innovative GE features that result in better system efficiency, screen uniformity, lamp-to-lamp consistency and relamping convenience.

| Feature | Benefit | Applications |
|--|--|--|
| • Dichroic reflector | <ul style="list-style-type: none"> • Cool light beam • Efficient light reflection • Quick lamp installation | <ul style="list-style-type: none"> • Slide Projection • Front/Rear Screen Projection • Microfilm • Overhead Projection • 16mm Movie • 8mm Movie • Film Strip • Enlargers/Printers • Fiber Optics • Medical/Scientific Instruments • Video Camera Lights • Airport Runways • Display |
| <ul style="list-style-type: none"> • Precise rim reference <ul style="list-style-type: none"> • Accurate snap-in alignment • Faceted reflector | <ul style="list-style-type: none"> • Efficient beam for brighter image • Uniform screen image • Precision beam control | |
| • Halogen Quartzline® lamp | <ul style="list-style-type: none"> • Whiter and brighter light • No bulb blackening/blistering • Constant light output through life • Stable color temperature | |

Each GE Multi-Mirror® lamp type is optically tailored to its application. First, the appropriate type of multi-faceted reflector is determined. Then a filament tube developed, using advanced Quartzline® technology. Finally, the two are combined, using sophisticated, computerized precision-assembly techniques. The result – consistently high performance... lamp after lamp after lamp.



Projection Lamps

| Order Code | Description | Watts | Volts | Bulb Shape | Base | Table No. | Page No. |
|---|-------------|-------|-------|------------|-------------|-----------|----------|
| INDEX-ANSI CODED GE PROJECTION LAMPS | | | | | | | |
| BAB USE Q20MR16CG40BAB | | | | | | | |
| 10933 | BAB/PH | 20 | 12 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 40886 | BAH | 300 | 115 | A21 | Medium | 18 | 12 |
| 40563 | BBA | 250 | 118 | A21 | Medium | 18 | 12 |
| 40564 | BCA | 250 | 118 | A21 | Medium | 18 | 12 |
| 36178 | BCK | 500 | 120 | T6 | G17q 4-Pin | 6 | 10 |
| 40658 | BHB | 250 | 120 | MR14 | G7.9 2-Pin | 5 | 10 |
| BHC USE DYS/DYV/BHC | | | | | | | |
| 29140 | BLC | 30 | 118 | S11 | D. C. Bay. | 15 | 12 |
| 30232 | BLK | 30 | 125 | S11 | Cand. | 18 | 12 |
| 29156 | BLX | 50 | 118 | S11 | D. C. Bay. | 15 | 12 |
| 32137 | BNF | 75 | 120 | S11 | D. C. Bay. | 15 | 12 |
| 29604 | BRH | 1000 | 120 | T5 | R7s | 9 | 11 |
| 18234 | BRL | 50 | 12 | T3.5 | G6.35 2-Pin | 7 | 10 |
| 30421 | BXB | 34 | 8.5 | T8 | S. C. Pref. | 16 | 12 |
| 29525 | CAL | 300 | 120 | T10 | G17q 4-Pin | 11 | 11 |
| 29380 | CAR | 150 | 120 | T10 | G17q 4-Pin | 11 | 11 |
| 29171 | CAX | 50 | 118 | T8 | D. C. Bay. | 15 | 12 |
| 29169 | CAX | 50 | 130 | T8 | D. C. Bay. | 15 | 12 |
| CBS USE CBX/CBS | | | | | | | |
| 29208 | CBX/CBS | 75 | 118 | T8 | D. C. Bay. | 15 | 12 |
| 29257 | CDD | 100 | 120 | T8 | S. C. Bay. | 14 | 12 |
| 29266 | CDJ | 100 | 118 | T8 | D. C. Bay. | 15 | 12 |
| 29244 | CEB | 100 | 118 | T8 | D. C. Bay. | 15 | 12 |
| 43330 | CEM | 120 | 120 | T8 | S. C. Bay. | 14 | 12 |
| 29664 | CZA/CZB | 500 | 120 | T10 | G17q 4-Pin | 11 | 11 |
| CZB USE CZA/CZB | | | | | | | |
| 29677 | CZX/DAB | 500 | 120 | T10 | Med. Pref. | 13 | 12 |
| DAB USE CZX/DAB | | | | | | | |
| DAK USE DAT/DAK | | | | | | | |
| 40214 | DAT/DAK | 400 | 120 | T10 | G17q 4-Pin | 10 | 11 |
| 29695 | DAY/DAK | 500 | 120 | T10 | G17q 4-Pin | 10 | 11 |
| 29360 | DCA | 150 | 21 | T12 | GX17q 4-Pin | 12 | 11 |
| 29364 | DCH/DJA/DFP | 150 | 120 | T12 | G17q 4-Pin | 12 | 11 |
| 43537 | DDL | 150 | 20 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 43206 | DDM | 80 | 19 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 43988 | DDS | 80 | 21 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 43950 | DED | 85 | 13.8 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 29737 | DEK/DFW/DHN | 500 | 120 | T12 | G17q 4-Pin | 11 | 11 |
| DFC USE DFN/DFC | | | | | | | |
| 36122 | DFE | 80 | 30 | T12 | GX17q 4-Pin | 12 | 11 |
| 29386 | DFN/DFC | 150 | 125 | T12 | G17q 4-Pin | 12 | 11 |
| DFP USE DHC/DJA/DFP | | | | | | | |
| DFW USE DEK/DFW/DHN | | | | | | | |
| DFZ USE DLD/DFZ | | | | | | | |

| Order Code | Description | Watts | Volts | Bulb Shape | Base | Table No. | Page No. |
|---|-------------|-------|-------|------------|----------------|-----------|----------|
| INDEX-ANSI CODED GE PROJECTION LAMPS (CONTINUED) | | | | | | | |
| DHN USE DEK/DFW/DHN | | | | | | | |
| DHX USE DLS/DLG/DHX | | | | | | | |
| DJA USE DHC/DJA/DFP | | | | | | | |
| 29338 | DJL | 150 | 120 | T14 | G17q 4-Pin | 12 | 12 |
| 44854 | DJT | 50 | 13.8 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 40216 | DLD/DFZ | 80 | 30 | T14 | GX17q 4-Pin | 12 | 12 |
| DLG USE DLS/DLG/DHX | | | | | | | |
| 29366 | DLS/DLG/DHX | 150 | 22 | T14 | GX17q 4-Pin | 12 | 12 |
| 40161 | DNE | 150 | 120 | MR16 | G7.9 2-Pin | 5 | 10 |
| 39742 | DNF | 150 | 21 | MR16 | GX7.9 2-Pin | 5 | 10 |
| 29959 | DPT | 1000 | 120 | T20 | Mogul | 17 | 12 |
| 29968 | DRB | 1000 | 118 | T20 | Med. Pref. | 13 | 12 |
| 29947 | DRS | 1000 | 120 | T20 | Med. Pref. | 13 | 12 |
| 30304 | DVY | 650 | 120 | G6 | G5.3 2-Pin | 7 | 10 |
| 30151 | DXB | 500 | 120 | R40 | Medium | 19 | 13 |
| 30145 | DXC | 500 | 120 | R40 | Medium | 19 | 13 |
| 36952 | DXX | 800 | 230 | T4 | R7s | 9 | 11 |
| 36953 | DXX | 800 | 240 | T4 | R7s | 9 | 11 |
| 30364 | DYH | 600 | 120 | G7 | G5.3 2-Pin | 7 | 10 |
| 32071 | DYP | 600 | 120 | G7 | 2-Button | 7 | 10 |
| 33248 | DYR | 650 | 220 | G7 | GZ9.5 2-Pin Pf | 7 | 10 |
| 33250 | DYR | 650 | 240 | G7 | GZ9.5 2-Pin Pf | 7 | 10 |
| 32955 | DYS/DYV/BHC | 600 | 120 | G7 | GZ9.5 2-Pin Pf | 7 | 10 |
| DYV USE DYS/DYV/BHC | | | | | | | |
| 19479 | DYS-5 | 600 | 120 | G7 | GZ9.5 2-Pin Pf | 7 | 10 |
| 37346 | DZA | 30 | 10.8 | T3.5 | G5.3 2-Pin | 7 | 10 |
| 37695 | DZE/FDS | 150 | 24 | T4 | GZ9.5 2-Pin Pf | 7 | 10 |
| 30202 | EAJ | 35/25 | 12 | T6.4 | D.C. Bay. | 15 | 12 |
| 30281 | EAL | 500 | 120 | R40 | Medium | 19 | 13 |
| 40566 | EBV | 500 | 118 | PS25 | Medium | 18 | 12 |
| 40567 | EBW PH/B2 | 500 | 118 | PS25 | Medium | 18 | 12 |
| 40565 | ECA | 250 | 120 | A23 | Medium | 18 | 12 |
| 40568 | ECT | 500 | 120 | PS25 | Medium | 18 | 12 |
| 21276 | EFM | 50 | 8 | MR16 | GZ6.35 2-Pin | 3 | 9 |
| 21277 | EFN | 75 | 12 | MR16 | GZ6.35 2-Pin | 3 | 9 |
| 21278 | EFP | 100 | 12 | MR16 | GZ6.35 2-Pin | 3 | 9 |
| 21279 | EFR | 150 | 15 | MR16 | GZ6.35 2-Pin | 3 | 9 |
| 37527 | EHA | 500 | 120 | T6 | GZ9.5 2-Pin Pf | 7 | 10 |
| 14874 | EHJ | 250 | 24 | T4 | G6.35 2-Pin | 7 | 10 |
| 32882 | EJA | 150 | 21 | MR16 | GX5.3 2-Pin | 4 | 10 |
| 29150 | EJL | 200 | 24 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 29151 | EJM | 150 | 21 | MR16 | GX5.3 2-Pin | 3 | 9 |
| EJN USE ELD/EJN | | | | | | | |
| 32831 | EJV | 150 | 21 | MR16 | GX5.3 2-Pin | 4 | 10 |
| 32886 | EJY | 80 | 19 | MR16 | GX5.3 2-Pin | 4 | 10 |
| 35200 | EKE | 150 | 21 | MR16 | GX5.3 2-Pin | 3 | 9 |



Projection Lamps

| Order Code | Description | Watts | Volts | Bulb Shape | Base | Table No. | Page No. |
|---|-------------|-------|-------|------------|--------------|-----------|----------|
| INDEX-ANSI CODED GE PROJECTION LAMPS (CONTINUED) | | | | | | | |
| 35800 | EKP/ENA | 80 | 30 | MR16 | GX5.3 2-Pin | 3 | 9 |
| EKS USE EMM/EKS | | | | | | | |
| 36899 | EKX | 200 | 24 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 36902 | EKZ | 30 | 10.8 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 37462 | ELC | 250 | 24 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 15377 | ELC/500 | 250 | 24 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 22023 | ELC/C | 250 | 24 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 38306 | ELD/EJN | 150 | 21 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 38476 | ELH | 300 | 120 | MR16 | GY5.3 2-Pin | 3 | 9 |
| ELR USE ELS/ELR | | | | | | | |
| 41885 | ELS/ELR | 50 | 18 | MR14 | GX7.9 2-Pin | 5 | 10 |
| 42612 | EML | 175 | 24 | T4 | G5.3 2-Pin | 7 | 10 |
| 40017 | EMM/EKS | 250 | 24 | MR14 | GX7.9 2-Pin | 5 | 10 |
| ENA USE EKP/ENA ENC USE ENW/ENC | | | | | | | |
| 38686 | ENH | 250 | 120 | MR16 | GY5.3 2-Pin | 3 | 9 |
| 25475 | ENL | 50 | 12 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 40248 | ENW/ENC | 80 | 19 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 41705 | ENX | 360 | 82 | MR16 | GY5.3 2-Pin | 3 | 9 |
| 19475 | ENX-5 | 360 | 86 | MR16 | GY5.3 2-Pin | 3 | 9 |
| 40598 | ENZ | 50 | 30 | MR16 | GX5.3 2-Pin | 4 | 10 |
| 41430 | EPN | 35 | 12 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 41729 | EPT | 42 | 10.8 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 41882 | EPV | 90 | 14.5 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 42614 | EPX | 90 | 14.5 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 41874 | ERV | 340 | 36 | MR16 | GX5.3 2-Pin | 3 | 9 |
| 43756 | ESD | 150 | 120 | MR16 | GY5.3 2-Pin | 3 | 9 |
| 11698 | ESJ | 85 | 82 | MR16 | GY5.3 2-Pin | 3 | 9 |
| 11322 | ETJ | 250 | 120 | MR16 | GY5.3 2-Pin | 3 | 9 |
| 38311 | ETT | 1000 | 120 | T5 | R7s | 9 | 11 |
| 41164 | EVD | 400 | 36 | T6 | GY6.35 2-Pin | 7 | 10 |
| 10099 | EVV | 120 | 6.6A | T4 | GZ9.5 2-Pin | 8 | 11 |
| 11110 | EVW | 250 | 82 | MR16 | GY5.3 2-Pin | 3 | 9 |
| 11427 | EWR | 150 | 6.6A | T4 | GZ9.5 2-Pin | 8 | 11 |
| 11478 | EXL | 30 | 6.6A | T3.5 | GZ9.5 2-Pin | 8 | 11 |
| 11482 | EXM | 45 | 6.6A | T3.5 | GZ9.5 2-Pin | 8 | 11 |
| 12092 | EXR | 300 | 82 | MR13 | GX5.3 2-Pin | 2 | 9 |
| 12003 | EXV | 100 | 12 | MR16 | GX5.3 2-Pin | 3 | 10 |
| 12095 | EXW | 300 | 82 | MR13 | GX5.3 2-Pin | 2 | 9 |
| 11750 | EXX | 250 | 120 | MR16 | GY5.3 2-Pin | 3 | 10 |
| 12097 | EXY | 250 | 82 | MR13 | GX5.3 2-Pin | 2 | 9 |
| 12696 | EYB | 360 | 82 | T3.5 | G5.3 2-Pin | 7 | 11 |
| 19322 | EYB-5 | 360 | 86 | T3.5 | G5.3 2-Pin | 7 | 11 |
| 13617 | EYH/FKT | 250 | 120 | G6 | G5.3 2-Pin | 7 | 11 |

| Order Code | Description | Watts | Volts | Bulb Shape | Base | Table No. | Page No. |
|---|------------------|-------|-------|------------|--------------------|-----------|----------|
| INDEX-ANSI CODED GE PROJECTION LAMPS (CONTINUED) | | | | | | | |
| 41783 | EZA/4 | 32 | 6.6A | MR16 | Wire Term. | 3 | 10 |
| 23071 | EZC | 45 | 6.6A | MR16 | GX5.3 2-Pin | 3 | 10 |
| 15832 | EZF/EZJ | 225 | 68 | MR13 | GX5.3 2-Pin | 2 | 9 |
| EZJ USE EZF/EZJ | | | | | | | |
| 15477 | EZK | 150 | 120 | MR16 | GY5.3 2-Pin | 3 | 10 |
| 15243 | EZL | 200 | 6.6A | T4 | GZ9.5 2-Pin | 8 | 11 |
| 29581 | FAL | 420 | 120 | T4 | R7s | 9 | 11 |
| FBD USE FBG/FBD | | | | | | | |
| 33663 | FBG/FBD | 500 | 120 | G6 | G5.3 2-Pin | 7 | 11 |
| 29598 | FCB | 600 | 120 | T4 | R7s | 9 | 11 |
| 14876 | FCR | 100 | 12 | T3 | GY6.35 2-Pin | 7 | 11 |
| 13598 | FCS | 150 | 24 | T4 | G6.35 2-Pin | 7 | 11 |
| FDS USE DZE/FDS | | | | | | | |
| 35321 | FDT | 100 | 12 | T3 | GZ9.5 2-Pin Pf | 7 | 11 |
| 36878 | FDV | 150 | 24 | T4 | G6.35 2-Pin | 7 | 11 |
| 29592 | FFJ | 600 | 120 | T4 | R7s | 9 | 11 |
| 30276 | FFM | 420 | 120 | T4 | R7s | 9 | 11 |
| 47614 | FHS | 300 | 82 | MR13 | GX5.3 2-Pin | 2 | 9 |
| 47914 | FHX | 25 | 13.8 | MR16 | GX5.3 2-Pin | 3 | 10 |
| FKT USE EYH/FKT | | | | | | | |
| 30894 | FLS | 28 | 12 | MR11 | GZ4 2-Pin | 1 | 9 |
| 25261 | FLT | 28 | 13.8 | MR11 | GZ4 2-Pin | 1 | 9 |
| 19886 | FLW | 300 | 24 | T4 | GY6.35 Ceramic | 7 | 11 |
| 14887 | FML | 50 | 13.8 | MR16 | GX5.3 2-Pin | 3 | 10 |
| 18241 | FNT/100 | 275 | 24 | T4 | G6.35 2-Pin | 7 | 11 |
| 21613 | FXL | 410 | 82 | MR16 | GY5.3 2-Pin | 3 | 10 |
| 80853 | GCA | 250 | 120 | T3.5 | G5.3 | 7 | 11 |
| 11134 | GEMINI 300(EZG) | 300 | 35 | PAR20 | Special 2-Pin Plug | 21 | 13 |
| 39936 | MARC 350-16T EZT | 350 | 45 | PAR24 | Special 2-Pin Plug | 21 | 13 |
| 30162 | PH/111A | 75 | 125 | S11 | S.C. Bay. | 20 | 13 |
| 43220 | PH/140 | 75 | 120 | S14 | Medium | 20 | 13 |
| 40569 | PH/211 | 75 | 120 | A21 | Medium | 20 | 13 |
| 40570 | PH/212 | 150 | 120 | A21 | Medium | 20 | 13 |
| 40571 | PH/213 | 250 | 120 | A21 | Medium | 20 | 13 |
| 30124 | PXA 50 | 4000 | | T3 | WireTerm/Ceramic | 21 | 13 |
| 30129 | PXA/80 | 8000 | | T3 | WireTerm/Ceramic | 21 | 13 |



HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Projection lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by ANSI code.

Maximum Overall Length (MOL)

This dimension include the lamp bulb and all rigid parts of the base. Since the listed lengths include maximum tolerances, actual lamps are generally slightly shorter.

Bulb

Projection Lamp bulb designations use a combination of letters and numerals to indicate bulb shape and maximum diameter in eighths of an inch. For example: a "T12" bulb is Tubular-shaped and 12-eighths of an inch, or 1 1/2" in diameter. Illustrations of typical Projector Lamps and their respective bulb designations are shown in the tables of lamp families, pages 8-9 – 8-13.

Base

Projection Lamp base illustrations appear on page 8-3, along with their common trade names and abbreviations, plus their letter-number ANSI/IEC designations where applicable.

Watts (or Amps)

This column shows the rated power consumption (watts) of the lamp at its design voltage. A few lamps, in Table 8, are rated in terms of current (amperes) drawn initially at their rated voltage. The watts shown for the lamps in Table 8 are the approximate initial values for operation at rated amperes.

Order Code:

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Description

This is a 3-letter or letter-number code uniquely identifying the lamp for ordering purposes. In some instances, lamps with 3-letter (ANSI) codes are offered in more than one design voltage, in which case the voltage required should also be specified when ordering.

Volts

The voltage shown is the design voltage of the lamp, on which the life and wattage ratings are based. Lamps are available only in the design voltage(s) shown. When ordering lamps listed for more than one voltage, be sure to specify the voltage required. (Supply voltage variation can significantly affect lamp life.)

Case Quantity:

Number of product units packed in a case.

Filament

Typical filament configurations for Projection Lamps are shown on page 8-4, along with an explanation of the filament designation system.

Light Center Length (LCL)

This dimension defines the location of the filament in relation to the base. It is measured from the geometric center of the filament to a specified point on, or plane through, the base. Light Center Length is subject to manufacturing tolerances. Reference points/planes from which LCL is measured are tabulated on page 8-3 for the various styles of lamp bases.

Rated Life

Life ratings of Projection Lamps are based on closely controlled laboratory tests of lamps, at their rated voltage, over a long period of production time. Rated Life is not necessarily the same as service life; mechanical shock and vibration, voltage fluctuation, temperature and other environmental factors may result in shorter service life. As with any median value, some individual lamps will operate longer, and some will operate shorter, than their Rated Life. (Supply voltage variation can significantly affect lamp life.)

Initial Lumens

The value shown is based on spherical photometry, at rated voltage, of lamps that have been seasoned for approximately 15% (or minimum of 2 hours) or more of their rated average life.

Color Temperature

The radiation within the visible spectrum from tungsten filament lamps is similar in spectral distribution to that from a "blackbody" at specific color temperatures. The Color Temperatures shown are approximate initial values in degrees kelvin (K) for lamps operated at rated voltage.

CBCP (Center Beam Candlepower):

For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

Operating Position

For good performance, lamps must be used within specified limitations on operating position. The following abbreviations are used in the lamp tables to indicate these limits:

- BD = Base Down. Operate only vertical, base down.
- HD = Base Down to Horizontal. Do not operate base above horizontal.
- H22 = Operate base down to 22° base up.
- U = Operate in any position.

Additional Information

Typical application and/or other important information.

Source Size

This is defined as the dimensions of the rectangular area, centered on the lamp axis, within which all luminous parts of the filament lie, when viewed perpendicular to the axis of the filament coil or to the plane of C-13 and C-13D filaments.

Typical Working Distance

For Multi-Mirror® and other reflector Quartzline® lamps and MARC™ lamps, the Working Distance shown is the distance from the front surface of the reflector rim to the film plane, in the optical system for which the lamp was first designed. In most cases, it provides a uniform plane of light for the intended aperture.

| Bulb Shape | Base | Order Watts | Order Code | Case Qty. | Filament Design | MOL | LCL | Rated Life | Color Temp. | Burn Position | Additional Information | Footnote | Typical Source Working Distance (WxH) | | |
|---|-------|-------------|------------|-----------|-----------------|-----|-----|------------|----------------|---------------|------------------------|----------|---------------------------------------|---|------|
| | | | | | | | | Hours | Initial Lumens | | | | | K | |
| QUARTZLINE® MULTI-MIRROR® REFLECTORS | | | | | | | | | | | | | | | |
| MR-16 FACETED DICHROIC REFLECTOR. 2" DIAMETER (51MM). TABLE 3. | | | | | | | | | | | | | | | |
| MR16 | GX5.3 | 2-Pin | 150 | 43537 | DDL | 20 | 20 | C-6 | 1.75 | 500 | 3150 | HD | Microfilm | A | 7.75 |

DDL

ANSI Code.



| Bulb Shape | Base | Order Watts | Code Description | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | Burn Position | Additional Information | Footnote | Typical Working Distance (WxH) | Source Size (WxH) |
|---|-------------|-------------|--------------------------|-----------|-----------------|------|------|------------------|----------------|---------------|---------------|--------------------------------|----------|--------------------------------|-------------------|
| QUARTZLINE® MULTI-MIRROR® REFLECTORS | | | | | | | | | | | | | | | |
| MR-11 FACETED DICHROIC REFLECTOR. 1 3/8" DIAMETER (35MM). TABLE 1. | | | | | | | | | | | | | | | |
| MR11 | GZ4 2-Pin | 28 | 30894 FLS | 12 | 10 | CC-6 | 1.38 | 1000 | | 3000 | HD | Microfilm | A | | |
| | | | 25261 FLT | 13.8 | 10 | CC-6 | 1.38 | 500 | | 3050 | HD | Microfilm | A | | |
| MR-13 FACETED DICHROIC REFLECTOR. 1 1/2" DIAMETER(42MM). TABLE 2. | | | | | | | | | | | | | | | |
| MR13 | GX5.3 2-Pin | 300 | 12092 EXR | 82 | 20 | CC-8 | 1.75 | 35 | | 3350 | HD | Slide projection | A | 6.00 | |
| | | | 12095 EXW | 82 | 20 | CC-8 | 1.75 | 15 | | 3450 | HD | Slide projection | A | 6.00 | |
| | | | 250 12097 EXY | 82 | 20 | CC-8 | 1.75 | 200 | | 3200 | HD | Slide projection | A | 6.00 | |
| | | | 225 15832 EZF/EZJ | 68 | 20 | CC-8 | 1.75 | 350 | | | HD | Color printer. | A, R | | |
| | | | 300 47614 FHS | 82 | 20 | CC-8 | 1.75 | 70 | | 3300 | HD | Slide projection | A | 6.00 | |
| MR-16 FACETED DICHROIC REFLECTOR. 2" DIAMETER (51MM). TABLE 3. | | | | | | | | | | | | | | | |
| MR16 | GX5.3 2-Pin | 20 | 10933 BAB/PH | 12 | 20 | C-6 | 1.88 | 2000 | | 2900 | HD | Flood | A | 5.00 | |
| | | | 150 43537 DDL | 20 | 20 | C-6 | 1.75 | 500 | | 3150 | HD | Microfilm | A | 7.75 | |
| | | | 80 43206 DDM | 19 | 20 | CC-6 | 1.75 | 50 | | 3350 | HD | Slide projection | A | 6.00 | |
| | | | 80 43988 DDS | 21 | 20 | CC-6 | 1.75 | 1000 | | 3125 | HD | Microfilm | A | 6.50 | |
| | | | 85 43950 DED | 13.8 | 20 | C-6 | 1.75 | 1000 | | 3150 | HD | Microfilm | A | 6.50 | |
| | | | 50 44854 DJT | 13.8 | 20 | CC-6 | 1.75 | 1000 | | 3150 | HD | Microfilm | A | 6.00 | |
| GZ6.35 2-Pin | | | 50 21276 EFM | 8 | 20 | C-6 | 1.75 | 50 | | 3300 | HD | 8mm projection | A | 1.25 | |
| | | | 75 21277 EFN | 12 | 20 | CC-6 | 1.75 | 50 | | 3350 | HD | 8mm projection | A | 1.25 | |
| | | | 100 21278 EFP | 12 | 20 | CC-6 | 1.75 | 50 | | 3350 | HD | 8mm projection | A | 1.25 | |
| | | | 150 21279 EFR | 15 | 20 | CC-6 | 1.75 | 50 | | 3350 | HD | 8mm projection | A | 1.25 | |
| GX5.3 2-Pin | | | 200 29150 EJL | 24 | 20 | CC-6 | 1.75 | 50 | | 3400 | HD | 16mm, Color printer | A | 1.25 | |
| | | | 150 29151 EJM | 21 | 20 | CC-6 | 1.75 | 40 | | 3350 | HD | 8mm projection | A | 1.50 | |
| | | | 150 35200 EKE | 21 | 20 | CC-6 | 1.75 | 250 | | 3250 | HD | 8mm projection, fiber optics | A | 1.75 | |
| | | | 80 35800 EKP/ENA | 30 | 20 | CC-6 | 1.75 | 25 | | 3350 | HD | 8mm projection | A | 1.75 | |
| | | | 200 36899 EKX | 24 | 20 | CC-6 | 1.75 | 25 | | 3400 | HD | Microfilm | A | 5.50 | |
| | | | 30 36902 EKZ | 10.8 | 20 | C-6 | 1.75 | 200 | | 3100 | HD | 16mm projection | A | 1.50 | |
| | | | 250 37462 ELC | 24 | 20 | CC-6 | 1.75 | 50 | | 3400 | HD | Fiber optics, color printer | A | 1.25 | |
| | | | 250 22023 ELC/C | 24 | 20 | CC-6 | 1.75 | 50 | | 3400 | HD | Fiber optics, color printer | A | 1.25 | |
| | | | 250 15377 ELC/500 | 24 | 20 | CC-6 | 1.75 | 500 | | 3350 | HD | Fiber optics, disco | A | 1.25 | |
| | | | 150 38306 ELD/EJN | 21 | 20 | CC-6 | 1.75 | 40 | | 3350 | HD | Microfilm | A | 6.50 | |
| GY5.3 2-Pin | | | 300 38476 ELH | 120 | 20 | CC-8 | 1.75 | 35 | | 3350 | HD | Slide projection | A | 6.00 | |
| | | | 250 38686 ENH | 120 | 20 | CC-8 | 1.75 | 175 | | 3250 11700 | HD | Slide projection | A | 6.00 | |
| GX5.3 2-Pin | | | 50 25475 ENL | 12 | 20 | C-6 | 1.75 | 4000 | | 3050 | HD | Fiber optics, display lighting | A | 1.50 | |
| | | | 80 40248 ENW/ENC | 19 | 20 | CC-6 | 1.75 | 200 | | 3200 | HD | 8mm projection | A | 1.75 | |
| GY5.3 2-Pin | | | 360 41705 ENX | 82 | 20 | CC-8 | 1.75 | 75 | | 3300 | HD | Overhead projection | A | 11.75 | |
| | | | 19475 ENX-5 | 86 | 20 | CC-8 | 1.75 | 75 | | 3300 | HD | Overhead projection | A | | |
| GX5.3 2-Pin | | | 35 41430 EPN | 12 | 20 | C-6 | 1.75 | 50 | | 3300 | HD | 8mm projection | A | 1.13 | |
| | | | 42 41729 EPT | 10.8 | 20 | C-6 | 1.75 | 10000 | | 2900 | HD | Fiber optics | A | 1.50 | |
| | | | 90 41882 EPV | 14.5 | 20 | CC-6 | 1.75 | 500 | | 3150 | HD | Microfilm | A | 6.13 | |
| | | | 42614 EPX | 14.5 | 20 | CC-6 | 1.75 | 500 | | 3150 | HD | Microfilm | A | 6.50 | |
| | | | 340 41874 ERV | 36 | 20 | CC-8 | 1.75 | 75 | | 3300 | HD | Overhead projection | A | 11.75 | |
| GY5.3 2-Pin | | | 150 43756 ESD | 120 | 20 | CC-8 | 1.75 | 12 | | 3350 | HD | Enlarger, projection | A | 1.75 | |
| | | | 85 11698 ESJ | 82 | 20 | CC-8 | 1.75 | 40 | | 3350 | HD | Enlarger, projection | A | 1.75 | |
| | | | 250 11322 ETJ | 120 | 20 | CC-8 | 1.75 | 175 | | 3300 | HD | Fiber Optics | A | 1.50 | |
| | | | 250 11110 EVW | 82 | 20 | CC-8 | 1.75 | 50 | | 3300 | H22 | Overhead projection | A | 11.75 | |



Projection Lamps

| Bulb Shape | Base | Order Watts | Order Code | Description | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | Burn Position | Additional Information | Footnote | Typical Source Working Distance (WxH) |
|---|---------------|-------------|--------------|---------------|-----------|-----------------|------|-----|------------------|----------------|---------------|---------------|------------------------|---------------------|---------------------------------------|
| QUARTZLINE® MULTI-MIRROR® REFLECTORS (CONTINUED) | | | | | | | | | | | | | | | |
| MR-16 FACETED DICHROIC REFLECTOR. 2" DIAMETER (51MM). TABLE 3. (CONTINUED) | | | | | | | | | | | | | | | |
| MR16 | GX5.3 2-Pin | 100 | 12003 | EXV | 12 | 20 CC-6 | 1.75 | | 50 | 3100 | 3350 | 3100 | U | Camera Light | A |
| | | 250 | 11750 | EXX | 120 | 20 CC-8 | 1.75 | | 25 | 6750 | 3300 | 6750 | U | Camera Light | A |
| | Wire Term. | 32 | 41783 | EZA/4 | 6.6A | 20 C-8 | 1.75 | | 1000 | | 2900 | 4500 | HD | Airport | A |
| | GX5.3 2-Pin | 45 | 23071 | EZC | 6.6A | 20 C-8 | 1.75 | | 1000 | | 2950 | | HD | Airport | A |
| | GY5.3 2-Pin | 150 | 15477 | EZK | 120 | 20 CC-8 | 1.75 | | 200 | | 3200 | 3600 | U | Camera Light | A |
| | GX5.3 2-Pin | 25 | 47914 | FHX | 13.8 | 20 CC-6 | 1.75 | | 250 | | 3200 | | HD | Microfilm | A 4.13 |
| | | 50 | 14887 | FML | 13.8 | 20 CC-6 | 1.75 | | 1000 | | 3150 | | HD | Microfilm | A 8.44 |
| | GY5.3 2-Pin | 410 | 21613 | FXL | 82 | 20 CC-8 | 1.75 | | 38 | | 3300 | | HD | Overhead projection | A 11.75 |
| | 2-Pin w/LEADS | 150 | 25137 | Q150MR | 15 | 20 C-8 | 1.88 | | 150 | | 3400 | | HD | | A 1.75 |

| | | | | | | | | | | | | | | | |
|--|-------------|-----|--------------|------------|----|---------|------|--|----|--|------|--|----|--------------------|--------|
| QUARTZLINE® REFLECTOR LAMPS | | | | | | | | | | | | | | | |
| MR-16 SMOOTH DICHROIC REFLECTOR. 2" DIAMETER (51MM). TABLE 4. | | | | | | | | | | | | | | | |
| MR16 | GX5.3 2-Pin | 150 | 32882 | EJA | 21 | 20 CC-6 | 1.75 | | 40 | | 3350 | | HD | Fiber Optics | A 1.10 |
| | | 150 | 32831 | EJV | 21 | 20 CC-6 | 1.75 | | 40 | | 3350 | | HD | 8mm proj., printer | A 1.75 |
| | | 80 | 32886 | EJY | 19 | 20 CC-6 | 1.75 | | 25 | | 3400 | | HD | Fiber Optics | A 1.50 |
| | | 50 | 40598 | ENZ | 30 | 20 CC-6 | 1.75 | | 25 | | 3450 | | HD | 8mm projection | A 1.25 |

| | | | | | | | | | | | | | | | |
|---|-------------|-----|--------------|----------------|-----|---------|------|--|-----|--|------|--|----|-----------------|--------|
| MR-14 (1 3/4" DIAMETER) OR MR-16 (2" DIAMETER) DICHROIC REFLECTOR. 2-PIN VENTED BASE. TABLE 5. | | | | | | | | | | | | | | | |
| MR14 | G7.9 2-Pin | 250 | 40658 | BHB | 120 | 24 CC-8 | 1.67 | | 25 | | 3350 | | HD | 16mm projection | A 2.63 |
| MR16 | G7.9 2-Pin | 150 | 40161 | DNE | 120 | 24 CC-8 | 1.77 | | 12 | | 3350 | | HD | 8mm projection | A 2.75 |
| | GX7.9 2-Pin | 150 | 39742 | DNF | 21 | 24 CC-8 | 1.77 | | 25 | | 3400 | | HD | 8mm projection | A 2.75 |
| MR14 | GX7.9 2-Pin | 50 | 41885 | ELS/ELR | 18 | 24 CC-8 | 1.41 | | 650 | | 3100 | | HD | Microfilm | A 4.75 |
| | | 250 | 40017 | EMM/EKS | 24 | 24 CC-8 | 1.66 | | 50 | | 3400 | | HD | 16mm projection | A 2.63 |

| | | | | | | | | | | | | | | | |
|---|------------|-----|--------------|------------|-----|----------|------|------|----|--|------|--|----|-------------------|------|
| QUARTZLINE® SINGLE-ENDED | | | | | | | | | | | | | | | |
| 4-PIN SLIDE PROJECTION. TABLE 6. | | | | | | | | | | | | | | | |
| T6 | G17q 4-Pin | 500 | 36178 | BCK | 120 | 24 C-13D | 3.25 | 1.56 | 50 | | 3200 | | HD | Slide Projection. | A, D |

| | | | | | | | | | | | | | | | |
|---|----------------|-----|--------------|--------------------|------|--------------|------|------|-----|-------|------|--|----|--------------------|----------------|
| APPLICATIONS: PROJECTION, MICROFILM, STUDIO, ETC. TABLE 7. | | | | | | | | | | | | | | | |
| T3.5 | G6.35 2-Pin | 50 | 18234 | BRL | 12 | 100 C-6 | 1.72 | 1.17 | 50 | 1400 | 3400 | | U | | A |
| G6 | G5.3 2-Pin | 650 | 30304 | DVY | 120 | 24 CC-6 | 2.48 | 1.44 | 25 | 20000 | 3300 | | HD | | A, E .50 x .20 |
| G7 | G5.3 2-Pin | 600 | 30364 | DYH | 120 | 24 CC-6 | 2.50 | 1.44 | 75 | 17000 | 3200 | | U | | A .50 x .25 |
| | 2-Button | 600 | 32071 | DYP | 120 | 24 CC-6 | 2.25 | 1.00 | 75 | 17000 | 3200 | | HD | | A .50 x .25 |
| | GY9.5 2-Pin Pf | 650 | 33248 | DYR | 220 | 24 2CC-8 | 2.50 | 1.44 | 50 | 16500 | 3200 | | U | | A .45 x .45 |
| | | | 33250 | DYR | 240 | 24 2CC-8 | 2.50 | 1.44 | 50 | 16500 | 3200 | | U | | A .45 x .45 |
| | | 600 | 19479 | DYS-5 | 120 | 24 CC-6 | 2.50 | 1.44 | 150 | 15500 | 3200 | | HD | | A .45 x .45 |
| | | | 32955 | DYS/DYV/BHC | 120 | 24 CC-6 | 2.50 | 1.44 | 75 | 17000 | 3200 | | HD | | A .50 x .25 |
| T3.5 | G5.3 2-Pin | 30 | 37346 | DZA | 10.8 | 24 C-6 | 2.00 | 1.06 | 400 | 530 | 3100 | | HD | | A .15 x .05 |
| T4 | GY9.5 2-Pin Pf | 150 | 37695 | DZE/FDS | 24 | 24 C-6 Oval | 2.68 | 1.31 | 100 | 4000 | 3250 | | HD | | A .25 x .15 |
| T6 | GY9.5 2-Pin Pf | 500 | 37527 | EHA | 120 | 24 C-13D | 3.00 | 1.44 | 50 | | 3300 | | HD | | A, D .35 x .35 |
| T4 | G6.35 2-Pin | 250 | 14874 | EHJ | 24 | 100 C-6 Oval | 2.25 | 1.31 | 50 | 8000 | 3400 | | HD | | A .30 x .15 |
| | G5.3 2-Pin | 175 | 42612 | EML | 24 | 24 C-6 | 2.12 | 1.06 | 125 | 5000 | 3200 | | HD | | A .21 x .19 |
| T6 | GY6.35 2-Pin | 400 | 41164 | EVD | 36 | 24 C-6 | 2.34 | 1.40 | 50 | 14500 | 3200 | | HD | Overhead projector | A |



| Bulb Shape | Base | Order Watts | Code Description | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | Burn Position | Additional Information | Footnote | Typical Working Distance (WxH) | Source Size (WxH) |
|---|----------------|-------------|-------------------|-----------|-----------------|------|------|------------------|----------------|---------------|---------------|------------------------------------|----------|--------------------------------|-------------------|
| QUARTZLINE® SINGLE-ENDED (CONTINUED) | | | | | | | | | | | | | | | |
| APPLICATIONS: PROJECTION, MICROFILM, STUDIO, ETC. TABLE 7. (CONTINUED) | | | | | | | | | | | | | | | |
| T3.5 | G5.3 2-Pin | 360 | 12696 EYB | 82 | 24 CC-8 | 2.25 | 1.25 | 75 | 10000 | 3300 | HD | | A | .30 x .20 | |
| | | | 19322 EYB-5 | 86 | 24 CC-8 | 2.25 | 1.25 | 75 | | 3200 | HD | | A | .30 x .20 | |
| G6 | G5.3 2-Pin | 250 | 13617 EYH/FKT | 120 | 24 CC-6 | 2.50 | 1.44 | 200 | 6000 | 3000 | HD | | A | .55 x .17 | |
| | | 500 | 33663 FBG/FBD | 120 | 24 CC-6 | 3.00 | 1.75 | 50 | 13200 | 3200 | U | | A | .50 x .20 | |
| T3 | GY6.35 2-Pin | 100 | 14876 FCR | 12 | 100 C-6 Oval | 1.75 | 1.18 | 50 | 2800 | 3300 | HD | | A | .20 x .15 | |
| T4 | G6.35 2-Pin | 150 | 13598 FCS | 24 | 100 C-6 Oval | 2.00 | 1.18 | 50 | 4500 | 3300 | HD | | A | .25 x .15 | |
| T3 | GZ9.5 2-Pin Pf | 100 | 35321 FDT | 12 | 24 C-6 Oval | 2.12 | 1.06 | 50 | 2900 | 3300 | HD | | A | .23 x .15 | |
| T4 | G6.35 2-Pin | 150 | 36878 FDV | 24 | 24 C-6 Oval | 2.00 | 1.19 | 100 | 4300 | 3050 | U | | A | .25 x .15 | |
| | GY6.35 Ceramic | 300 | 19886 FLW | 24 | 48 C-6 Oval | 2.15 | 1.21 | 50 | 10200 | 3500 | HD | | A | .34 x .23 | |
| | G6.35 2-Pin | 275 | 18241 FNT/100 | 24 | 100 C-6 Oval | 2.25 | 1.31 | 50 | 10000 | 3400 | HD | | A | .14 x .28 | |
| T3.5 | G5.3 | 250 | 80853 GCA | 120 | 12 CC-8 | 2.24 | 1.26 | 200 | 5700 | 3200 | U | | A | | |
| QUARTZLINE® SINGLE-ENDED – AMP RATED. TABLE 8. | | | | | | | | | | | | | | | |
| T4 | GZ9.5 2-Pin | 120 | 10099 EVV | 6.6A 24 | C-6 Oval | 2.50 | 1.54 | 500 | 3150 | 3200 | BD | Airport | A | .25 x .12 | |
| | | 150 | 11427 EWR | 6.6A 24 | C-6 Oval | 2.50 | 1.54 | 500 | 4100 | 3200 | BD | Airport | A | .25 x .16 | |
| T3.5 | GZ9.5 2-Pin | 30 | 11478 EXL | 6.6A 24 | C-8 | 1.75 | 1.00 | 1000 | 375 | 2900 | HD | Airport | A | .05 x .13 | |
| | | 45 | 11482 EXM | 6.6A 24 | C-8 | 1.75 | 1.00 | 1000 | 750 | 2950 | HD | Airport | A | .06 x .19 | |
| T4 | GZ9.5 2-Pin | 200 | 15243 EZL | 6.6A 24 | C-6 Oval | 2.50 | 1.54 | 500 | 5000 | 3100 | BD | Airport | A | .28 x .19 | |
| QUARTZLINE® DOUBLE-ENDED PROJECTION. TABLE 9. | | | | | | | | | | | | | | | |
| T5 | R7s | 1000 | 29504 BRH | 120 | 24 CC-8 | 3.75 | | 60 | 30000 | 3350 | U | Overhead Projection | A | .70 x .21 | |
| T4 | R7s | 800 | 36952 DXX | 230 | 24 CC-8 | 3.13 | | 75 | 21400 | 3200 | U | Copyboard, Studio | A | .90 x .17 | |
| | | | 36953 DXX | 240 | 24 CC-8 | 3.13 | | 75 | 21400 | 3200 | U | Copyboard, Studio | A | .90 x .17 | |
| T5 | R7s | 1000 | 38311 ETT | 120 | 24 CC-8 | 3.75 | | 70 | | 3350 | U | Spec. (PH1000H) | A | | |
| T4 | R7s | 420 | 29581 FAL | 120 | 24 CC-8 | 2.63 | | 90 | 11000 | 3200 | U | Printer | A | .35 x .17 | |
| | | 600 | 29598 FCB | 120 | 24 CC-8 | 3.75 | | 120 | 17000 | 3250 | U | Overhead Projection | A | .45 x .18 | |
| | | | 29592 FFJ | 120 | 24 CC-8 | 2.63 | | 85 | 17000 | 3250 | U | Printer | A | .60 x .17 | |
| | | 420 | 30276 FFM | 120 | 24 CC-8 | 3.13 | 0.50 | 90 | 11000 | 3200 | U | Copyboard | A | .50 x .25 | |
| INCANDESCENT PROJECTION | | | | | | | | | | | | | | | |
| 4-PIN BASE. TABLE 10. | | | | | | | | | | | | | | | |
| T10 | G17q 4-Pin | 400 | 40214 DAT/DAK | 120 | 24 C-13D | 4.00 | 1.56 | 25 | 9800 | 3200 | BD | Slide Projection | A | | |
| | | 500 | 29695 DAY/DAK | 120 | 24 C-13D | 4.00 | 1.56 | 30 | 12500 | 3200 | BD | Slide Projection. | A, J | | |
| 4-PIN BASE – PROXIMITY REFLECTOR. TABLE 11. | | | | | | | | | | | | | | | |
| T10 | G17q 4-Pin | 300 | 29525 CAL | 120 | 24 C-13 | 4.00 | 1.56 | 25 | | 3200 | BD | Slide, Film Strip. | A, I | | |
| | | 150 | 29380 CAR | 120 | 24 2CC-8 | 3.13 | 1.31 | 15 | | 3100 | BD | Slide, Film Strip. | A, J | | |
| | | 500 | 29664 CZA/CZB | 120 | 24 C-13D | 4.00 | 1.56 | 25 | | 3300 | BD | Slide Projection Gold Top (opaque) | A, I | | |
| T12 | G17q 4-Pin | 500 | 29737 DEK/DFW/DHN | 120 | 24 C-13D | 3.62 | 1.75 | 25 | | 3250 | HD | Slide Projection. | A, H, I | | |
| 4-PIN BASE – FOCUSING REFLECTOR. TABLE 12. | | | | | | | | | | | | | | | |
| T12 | GX17q 4-Pin | 150 | 29360 DCA | 21 | 24 CC-6 | 3.56 | 1.56 | 15 | | 3250 | HD | 8mm Projection. | A, I | 1.75 | |
| | G17q 4-Pin | 150 | 29364 DCH/DJA/DFP | 120 | 24 CC-6 | 3.38 | 1.56 | 15 | | 3150 | BD | 8mm Projection | A | 2.25 | |
| | GX17q 4-Pin | 80 | 36122 DFE | 30 | 24 CC-8 | 3.19 | 1.56 | 15 | | 3400 | HD | 8mm Projection | A | 2.25 | |
| | G17q 4-Pin | 150 | 29386 DFN/DFC | 125 | 24 CC-8 | 3.19 | 1.56 | 15 | | 3150 | HD | 8mm Projection | A | 2.25 | |



Projection Lamps

| Bulb Shape | Base | Order Watts | Order Code | Description | Case Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | Burn Position | Additional Information | Footnote | Typical Working Distance | Source Size (WxH) | |
|---|-------------|-------------|------------|-------------|------------|-----------|-----------------|------|------|------------------|----------------|---------------|---------------|--|----------|--------------------------|-------------------|--|
| INCANDESCENT PROJECTION (CONTINUED) | | | | | | | | | | | | | | | | | | |
| 4-PIN BASE – FOCUSING REFLECTOR. TABLE 12. (CONTINUED) | | | | | | | | | | | | | | | | | | |
| T14 | G17q 4-Pin | 150 | 29338 | DJL | 120 | 24 | CC-8 | 3.50 | 1.56 | 15 | | 3150 | HD | 8mm Projection | A | 1.75 | | |
| | GX17q 4-Pin | 80 | 40216 | DLD/DFZ | 30 | 24 | CC-6 | 3.50 | 1.56 | 15 | | 3400 | HD | 8mm Projection. | A, K | 1.75 | | |
| | | 150 | 29366 | DLS/DLG/DHX | 22 | 24 | CC-6 | 3.44 | 1.56 | 15 | | 3250 | HD | 8mm Projection. | A, K | 1.75 | | |
| MEDIUM PREFOCUS BASE. ANSI BASE DESIGNATION: P28/25. TABLE 13. | | | | | | | | | | | | | | | | | | |
| T10 | Med. Pref. | 500 | 29677 | CZX/DAB | 120 | 24 | C-13D | 5.75 | 2.19 | 25 | 12500 | 3200 | BD | 8mm Projection. | A, J | | | |
| T20 | Med. Pref. | 1000 | 29968 | DRB | 118 | 24 | C-13 | 5.75 | 2.19 | 25 | 32000 | 3350 | BD | Overhead projection | A | | | |
| | | | 29947 | DRS | 120 | 24 | C-13D | 5.75 | 2.19 | 25 | 28500 | 3325 | BD | Overhead projection | A | | | |
| SINGLE CONTACT BAYONET BASE. ANSI BASE DESIGNATION: BA15S. TABLE 14. | | | | | | | | | | | | | | | | | | |
| T8 | S. C. Bay. | 100 | 29257 | CDD | 120 | 24 | CC-2V | 3.13 | 1.38 | 50 | 2000 | 2975 | BD | Slide Projection | A | | | |
| | | 120 | 43330 | CEM | 120 | 24 | 2CC-8 | 3.13 | 1.38 | 200 | 1950 | 3000 | BD | Wheel Align Projection. | A, J | | | |
| DOUBLE CONTACT BAYONET BASE. ANSI BASE DESIGNATION: BA15D. TABLE 15. | | | | | | | | | | | | | | | | | | |
| S11 | D. C. Bay. | 30 | 29140 | BLC | 118 | 120 | CC-2V | 2.38 | 1.38 | 50 | 400 | 2775 | U | Editor Projection | | | | |
| | | 50 | 29156 | BLX | 118 | 120 | CC-2V | 2.38 | 1.38 | 50 | 780 | 2850 | HD | Toy Projection | | | | |
| | | 75 | 32137 | BNF | 120 | 120 | CC-2V | 2.38 | 1.38 | 25 | 1300 | 2900 | HD | Toy Projection | | | | |
| T8 | D. C. Bay. | 50 | 29171 | CAX | 118 | 24 | CC-2V | 3.13 | 1.38 | 50 | 775 | 2875 | BD | Optical Projection | | | | |
| | | 50 | 29169 | CAX | 130 | 24 | CC-2V | 3.13 | 1.38 | 50 | 775 | 2875 | BD | Optical Projection | | | | |
| | | 75 | 29208 | CBX/CBS | 118 | 24 | CC-13 | 3.13 | 1.38 | 50 | 1200 | 2925 | BD | Slide Projection. | A, J | | | |
| | | 100 | 29266 | CDJ | 118 | 24 | CC-2V | 3.13 | 1.38 | 50 | 2000 | 2975 | BD | Slide Projection | A | | | |
| | | | 29244 | CEB | 118 | 24 | CC-13 | 3.13 | 1.38 | 50 | 1850 | 2975 | BD | Slide Projection | A | | | |
| T6.4 | D.C. Bay. | 35 | 30202 | EAJ | 12 | 24 | C6 | 4.00 | 1.77 | 300 | 620 | | U | Flashtube Modeling. | A, L | | | |
| | | 25 | | | | | C6 | | | 300 | 420 | | | | | | | |
| SINGLE CONTACT PREFOCUS BASE. ANSI BASE DESIGNATION: P30S. TABLE 16. | | | | | | | | | | | | | | | | | | |
| T8 | S. C. Pref. | 34 | 30421 | BXB | 8.5 | 24 | C-8 | 3.13 | 1.63 | 100 | 690 | | HD | Sound Reproduction. Filament offset $\frac{3}{16}$ " from base axis. | | | | |
| MISCELLANEOUS. TABLE 17. | | | | | | | | | | | | | | | | | | |
| T20 | Mogul | 1000 | 29959 | DPT | 120 | 12 | C-13 | 9.06 | 4.75 | 50 | 28000 | 3200 | BD | Opaque Projection | A | | | |
| PHOTOFLOOD | | | | | | | | | | | | | | | | | | |
| STANDARD. TABLE 18. | | | | | | | | | | | | | | | | | | |
| A21 | Medium | 300 | 40886 | BAH | 115 | 24 | C-9 | 4.94 | | 20 | 9000 | 3200 | U | Photocopy, Inside Frost | A | | | |
| | | 250 | 40563 | BBA | 118 | 24 | C-9 | 4.94 | | 3 | 8000 | 3400 | U | No. 1 Photoflood, Frost | A | | | |
| | | | 40564 | BCA | 118 | 24 | C-9 | 4.94 | | 3 | 5000 | 4800 | U | No B1 Blue, Inside Frost | A | | | |
| S11 | Cand. | 30 | 30232 | BLK | 125 | 120 | CC-2V | 2.25 | | 50 | 400 | 2700 | U | Photocopy, Inside Frost | A | | | |
| PS25 | Medium | 500 | 40566 | EBV | 118 | 24 | C-9 | 6.94 | | 6 | 17000 | 3400 | U | No 2, Inside Frost | A | | | |
| | | | 40567 | EBW PH/B2 | 118 | 24 | C-9 | 6.94 | | 6 | 10500 | 4800 | U | No. B2, Blue, Inside Frost | A | | | |
| A23 | Medium | 250 | 40565 | ECA | 120 | 24 | C-9 | 6.00 | | 20 | 6500 | 3200 | U | Inside Frost | A | | | |
| PS25 | Medium | 500 | 40568 | ECT | 120 | 24 | C-9 | 6.94 | | 60 | 13650 | 3200 | U | Inside Frost | A | | | |



| Bulb Shape | Base | Order Watts | Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | Burn Position | Additional Information | Footnote | Typical Working Distance (WxH) | Source Size (WxH) | |
|--|-----------------------|-------------|-------|---------------------|-------|-----------|-----------------|------|-----|------------------|----------------|---------------|---------------|--------------------------|-----------------------|--------------------------------|-------------------|--|
| PHOTOFLOOD (CONTINUED) | | | | | | | | | | | | | | | | | | |
| REFLECTOR. TABLE 19. | | | | | | | | | | | | | | | | | | |
| R40 | Medium | 500 | 30151 | DXB | 120 | 24 | CC-2V | 6.63 | | 6 | | 3300 | 45000 | Spot Beam, 15 degrees. | A, Q | | | |
| | | | 30145 | DXC | 120 | 24 | C-9 | 6.63 | | 6 | | 3300 | 5500 | Flood Beam, 90 degrees. | A, Q | | | |
| | | | 30281 | EAL | 120 | 24 | CC-2V | 6.63 | | 15 | | 3200 | 6800 | Medium Beam, 60 degrees. | A, Q | | | |
| ENLARGER & PRINTER. TABLE 20. | | | | | | | | | | | | | | | | | | |
| S11 | S.C. Bay. | 75 | 30162 | PH/111A | 125 | 120 | | 2.38 | | 15 | 1120 | 2900 | HD | Enlarger, White | A | | | |
| S14 | Medium | 75 | 43220 | PH/140 | 120 | 120 | | 3.38 | | 35 | 1150 | 2900 | U | Enlarger, White | A | | | |
| A21 | Medium | 75 | 40569 | PH/211 | 120 | 24 | | 4.94 | | 65 | 1000 | 3000 | U | Enlarger, White | A | | | |
| | | 150 | 40570 | PH/212 | 120 | 24 | | 4.94 | | 100 | 2300 | 3050 | U | Enlarger, White | A | | | |
| | | 250 | 40571 | PH/213 | 120 | 24 | | 4.94 | | 3 | 7000 | 3400 | U | Enlarger, White | A | | | |
| PULSED XENON ARC, GEMINI®, AND MARC™. TABLE 21. | | | | | | | | | | | | | | | | | | |
| T3 | WireTerm/ Ceramic | 4000 | 30124 | PXA 50 | | 6 | | 4.63 | | | 125000 | 6000 | U | Graphic Arts | A, B | | | |
| | | 8000 | 30129 | PXA/80 | | 6 | | 4.63 | | | 240000 | 6000 | U | Graphic Arts | A, B | | | |
| T11 | Special | 175 | 29376 | CXE175/BF | 12 | 4 | | 1.67 | | 1000 | 2200 | 5600 | 350000 | BDTH | Light Engine, Medical | A, S | | |
| | | 300 | 46909 | CXE300/BF/SB | 14 | 4 | | 1.67 | | 1000 | 6000 | 5600 | 500000 | BDTH | Light Engine, Medical | A, S | | |
| | | 300 | 10115 | CXE300/BF | 14 | 4 | | 1.67 | | 1000 | 5000 | 5600 | 500000 | BDTH | Light Engine, Medical | A, S | | |
| PAR20 | Special 2-Pin Plug | 300 | 11134 | GEMINI 300(EZG) | 35 | 4 | | | | 75 | | 6000 | H | Replaces MARC 300/16A. | A, O | 1.46 | | |
| PAR24 | Special 2-Pin Plug | 350 | 39936 | MARC 350-16T EZT | 45 | 4 | | | | 50 | 50 | 5000 | H | | A, O | 2.05 | | |

POWER SUPPLY TO OPERATE GEMINI® AND MARC™ LAMPS

For information on the special power supply used to operate these lamps, contact:

Scientecular Lab Company
98 McKinney Avenue
Central Islip, NY 11722-4120
(516) 232-3345

NAPS/Fortron Source
328 Ley Road, Suite 300
Ft. Wayne, IN 46808
(219) 471-1368
Fax: (219) 471-1368

WARNING AND CAUTION NOTICES

A

▲ WARNING

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible material away from lamp
- Use in enclosed fixtures rated for this product

Pressurized lamp-unexpected rupture may cause injury, fire, or property damage

- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn off power before installing lamp
Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in enclosed container

S

▲ WARNING

Lamp emits UV radiation which may cause eye/skin irritation. RG-3

- Avoid exposure of eyes and skin to unshielded lamp

▲ CAUTION

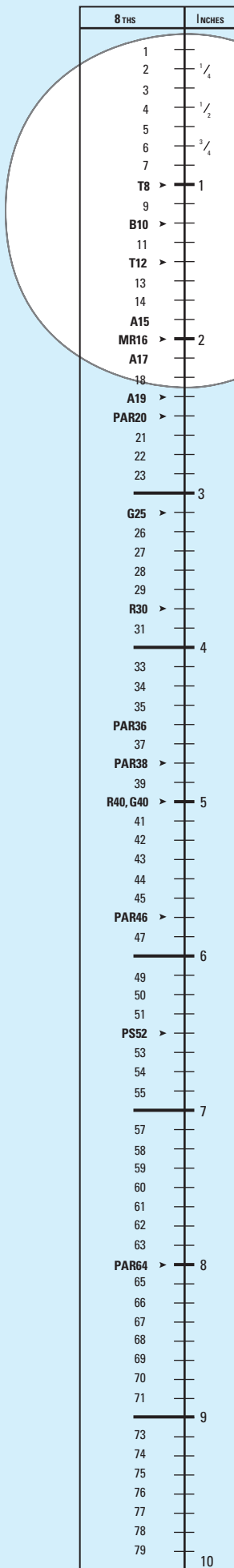
Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

FOOTNOTES

Footnote

- B Pulsed Xenon lamps emit high levels of ultraviolet (UV) radiation and must be completely enclosed in an inter-locked system with all walls made of UV absorbing material. The lamp must be made inoperative before the system is opened. The operator or user should never be exposed to the high level of UV radiation emitted by PXA lamps.
- C Opaque Ceramic top on bulb.
- D Proximity Reflector.
- E Ultraviolet absorbing bulb.
- G Heat resistant glass bulb.
- H Collector grid.
- I Gold Top (opaque).
- J Black Top (opaque).
- K Dichroic reflector.
- L Two-filament lamp.
- M Filament offset 3 3/8" from base axis.
- O Should not be operated for periods of less than three minutes.
- Q Approximate beam spread to 1/2 center-beam intensity.
- R Red-enhanced dichroic filter.



LAMP SIZING GUIDE

LAMP SIZE/DIAMETER

The diameter of a lamp, at its maximum dimension, is expressed in eighths of an inch. Examples: The diameter of an A19 lamp is 19-eighths of an inch, or 2 $\frac{3}{8}$ ", at its widest point. A T8 lamp has a diameter of 8-eighths, or one inch.

LIGHT CENTER LENGTH (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane — usually the bottom of the lamp base. See L.C.L. Reference Plane Location chart below.

L.C.L. Reference Plane Location

| Base Type | Location |
|------------------------------------|---|
| All Screw Bases (except Mini-Can.) | Bottom of base contact |
| Mini-Can | Where diameter of ceramic base insulator is .531 inches |
| 3-Contact Medium | Bottom of base contact |
| Mogul Medium Prefocus | Top of base fins |
| Mogul Prefocus | Top of base fins |
| Medium BiPost | Base end of bulb (Glass lamps) |
| | Bottom of ceramic base (Quartz lamps) |
| Mogul BiPost | Shoulder of posts (Glass lamps) |
| | Bottom of ceramic base (Quartz lamps) |
| 2-Pin Prefocus | Bottom of ceramic base. |
| S.C. or D.C. Bayonet Candelabra | Top of base pins |
| Medium Bayonet | Top of base pins |
| S.C. or D.C. Prefocus | Plane of locating bosses on prefocus collar |
| Medium 2-Pin | Bottom of metal base shell |

MAXIMUM OVERALL LENGTH (M.O.L.)

The end-to-end measurement of a lamp, expressed in inches or millimeters.

IMPORTANT NOTICE

This catalog is a compilation of accumulated data. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps and ballasts. Accordingly, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. For the latest lamp and ballast design data and information, contact your GE Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp or ballast for any particular application or use in any particular equipment, nor are our representatives authorized to make any such warranties. Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make his own determination as to the suitability of a lamp or ballast for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products, and to introduce new products or discontinue existing ones without notice.

APPENDIX LISTINGS:

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| Lamp Sizing Guide | A-1 |
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GE LIGHTING U.S. AND CANADIAN SALES OFFICES AND CUSTOMER SERVICE CENTERS

| US Sales Offices | | | |
|-----------------------------------|---------------------|--|------------------------------------|
| Region/States | Location | Address | Phone/Fax No. |
| GE Lighting Headquarters | | | |
| | | Nela Park, 1975 Noble Rd. Cleveland, OH 44112 | p. 216 266-2121 |
| Eastern | Plainville | 41 Woodford Ave. Plainville, CT 06062 | p. 860 747-7094 f. 860 747-7849 |
| NY, NJ | New York | 34 West Rt. 22 Branchburg, NJ 08876 | p. 908 203-6527 f. 908 231-6391 |
| NJ, East PA | Cherry Hill | 535 Rt. 38 East Cherry Hill, NJ 08002 | p. 856 317-5228 f. 856 317-5236 |
| NJ., NY, DE | Wayne | 155 Rt. 46 West Wayne, NJ 07470 | p. 973 256-8956 f. 973 256-4350 |
| MA, RI, VT, NH, ME, CT | Boston | 980 Washington St., Ste. 332N Dedham, MA 02026 | p. 781 320-4256 f. 781 320-4245 |
| Southeast | Atlanta | 20 Technology Pkwy. Norcross, GA 30092 | p. 770 662-4979 f. 770 447-7218 |
| NC, SC | Charlotte | 4601 Park Rd., Ste. 400 Charlotte, NC 28209 | p. 803 462-2016 f. 803 462-2017 |
| AL, GA | Birmingham | 31 Inverness Center Pkwy., Ste. 500 Birmingham, AL 35242 | p. 205 408-9902 f. 205 408-9903 |
| FL | Tampa | 4300 West Cypress Ste. 700 Tampa, FL 33607 | p. 813 910-0086 f. 813 972-9382 |
| Central | Cleveland | 1975 Noble Rd., Bldg. 335F Cleveland, OH 44112 | p. 216 266-8358 f. 216 266-5580 |
| DC, MD, VA | Washington | 7272 Park Circle Dr., Ste. 300 Hanover, MD 21076 | p. 410 737-7212 f. 410 737-7216 |
| TN, KY | Memphis | 1760 Moriah Woods Blvd., Ste. 9 Memphis, TN 38117 | p. 901 762-4332 f. 901 762-4336 |
| Cent OH | Columbus | 4079 Executive Pkwy., Ste. 310 Westerville, OH 43081 | p. 614 899-8931 f. 614 899-8908 |
| So OH, KY | Cincinnati | 10101 Alliance Rd., Ste. 135 Cincinnati, OH 45242 | p. 513 936-6591 f. 513 936-6599 |
| IN | Indianapolis | 12722 Hamilton Cross Blvd. Carmel, IN 46032 | p. 317 574-1577 f. 317 574-1970 |
| Midwest | Chicago | 701 E 22nd St., Ste. 300 Lombard, IL 60148 | p. 630 652-4400 f. 630 652-4486 |
| WI, IA | Milwaukee | 400 N Executive Dr., Ste. 300 Brookfield, WI 53005 | p. 262 797-4946 f. 262 797-4917 |
| MI, NW OH | Detriot | Two Towne Square Southfield, MI 48076 | p. 248 262-2762 f. 248 262-2856 |
| Southwest | Dallas | PO Box 610847 1717 West Airfield Dr. Dallas, TX 75261-0847 | p. 972 574-0548 f. 972 574-0561 |
| CO, WY | Denver | 2000 S. Colorado Blvd., Ste. 100 Denver, CO 80222 | p. 303 464-2823 f. 303 464-2879 |
| KS, MO, OK | Kansas City | 10550 Barkley St., Ste. 200 Overland Park, KS 66212 | p. 913 967-6373 f. 913 967-6378 |
| LA, MS, AR | New Orleans | 201 Evans Rd., Ste. 200 Harahan, LA 70123 | p. 504 731-5540 f. 504 731-5535 |
| South TX | Houston | 3530 W. 12th St., Ste. 100 Houston, TX 77008 | p. 713 880-7496 f. 713 880-7493 |
| West | Los Angeles | 3191 Temple Ave., Ste. 200 Pomona, CA 91768 | p. 909 444-5230 f. 909 444-5227 |

| CANADIAN OFFICES | | | |
|--------------------------|--|--|------------------------------------|
| Calgary, Alberta | | 2728 Hopewell Place NE, Calgary, Alberta T1Y 7J7 | p. 403 214-4435 f. 403 214-4772 |
| Montreal, Quebec | | 555 Dr. Frederick-Philips Blvd. 3rd FL. St. Laurent, Quebec H4M 2X4 | p. 514 215-2740 f. 514 215-2795 |
| Oakville, Ontario | | 468 South Service Rd. East Oakville, Ontario L6J 2X6 | p. 877 259-0941 f. 905 849-2911 |
| Vancouver, BC | | #100-8525 Baxter Place Burnaby, BC V5A 4V7 | p. 604 451-3216 f. 604 451-3241 |

In addition to the Sales Offices in the cities listed above, GE Lamp Sales Representatives are resident in other cities. Consult your local telephone directory under GE Lighting.

| OEM and Specialty Lighting Area Sales Offices | | |
|---|---|------------------------------------|
| Eastern | 251 Avenue of Americas 7th Floor, New York, NY 10020 | p. 212 575-6067 f. 212 575-6605 |
| Southeast Specialty | 625 S. Preston Ct. Alpharetta, GA 30022 | p. 678 762-0808 f. 678 393-0919 |
| Southeast OEM | 1760 Moriah Woods Blvd., Ste. 9 Memphis, TN 38117-7128 | p. 901 762-4323 f. 901 762-4336 |
| Midwest | 701 East 22nd St., Ste. 300 Lombard, IL 60148 | p. 630 652-4427 f. 630 652-4486 |
| Southwest Central | 1717 West Airfield Dr. Dallas, TX 75261-4014 | p. 817 427-3969 f. 817 485-7396 |
| Southwest Specialty | 741 Spring Valley Dr. Hurst, TX 76054 | p. 972 444-2021 f. 817 485-7396 |
| Rocky Mt & West Coast | 15334 Golden Eagle Blvd. Fountain, AZ 85268 | p. 480 836-2469 f. 480 836-2322 |
| West Specialty | 571 Rider Ct. Claremont, CA 91711 | p. 714 501-5905 f. 909 305-4662 |
| Canada OEM | 468 South Service Rd. East Oakville, Ontario L6J 2X6 | p. 905 849-2903 f. 905 849-2911 |
| Canada Specialty | 468 South Service Rd. East Oakville, Ontario L6J 2X6 | p. 905 469-6070 f. 905 469-6637 |
| Automotive | Two Towne Square Southfield, MI 48076 | p. 248 262-2754 |

| To Order Product | | |
|---|----------------|----------------|
| US/Canada Current Customer Ordering and Tracking - www.geelitenet.com | | |
| Customer Service Center | Telephone | Facsimile |
| OEM | 1-800-544-4680 | 1-800-544-4830 |
| Automotive OEM | 1-800-327-7155 | 1-800-327-0588 |
| Commercial & Industrial Distributors | 1-800-327-0097 | 1-800-544-4830 |
| Consumer & Retail | 1-800-327-2080 | 1-800-544-4850 |
| Canada (French/English) | 1-800-443-4925 | 1-800-443-4930 |
| Telesales | Telephone | Facsimile |
| OEM | 1-800-544-4780 | 1-800-327-0663 |
| C&I Midwest | 1-800-624-0601 | 1-800-327-0663 |
| C&I Central | 1-866-355-6210 | 1-800-327-0663 |
| C&I Northeast | 1-800-327-7085 | 1-800-327-0663 |
| C&I West | 1-800-443-6272 | 1-800-327-0663 |
| C&I Southeast | 1-800-544-4610 | 1-800-327-0663 |
| C&I Southwest | 1-800-624-0601 | 1-800-327-0663 |
| Canada | 1-800-443-5081 | 1-800-327-0663 |

| Distribution Centers | | |
|----------------------|--|--|
| Atlanta | 1700 Westgate Pkwy., Atlanta, GA 30336 | |
| Chicago | 7770 West 71st St., Bridgeview, IL 60455 | |
| Dallas | 1717 West Airfield Dr., PO Box 610847, DFW Airport, TX 75261 | |
| Hagerstown | 18212 Shawley Dr., Hagerstown, MD 21740 | |
| Los Angeles | 11600 Philadelphia Ave., Mira Loma, CA 91752 | |
| Oakville | 1290 South Service Rd. West, Oakville, Ontario, Canada L6L 5T7 | |
| Ravenna | 150 Loomis Pkwy., Ravenna, OH 44266 | |

| Lighting Technical Information | |
|------------------------------------|---------------------------|
| Consumer Inquiries | 1-800-GE LIGHT (435-4448) |
| Commercial, Trade Magazines | 1-800-GE LAMPS (435-2677) |

| International Customer Service and Sales (USA Exporters Only) | | |
|---|----------------|----------------|
| | Phone Number | Fax Number |
| Franchise Exporters | 1-800-327-6886 | 1-800-443-5130 |
| International Customers | 1-804-965-1015 | 1-804-965-1018 |

For Lamp or Technical Support Call or Click

1-800-GE LAMPS
www.GELighting.com



GLOSSARY OF TERMS

Ambient Temperature

Light output of fluorescent lamps depends on ambient temperature which refers to the temperature INSIDE the fixture in the air surrounding the fluorescent lamp.

Amperes

("Amps.") A measure of electrical current. In incandescent lamps, the current is related to voltage and power as follows: Current (Amps) = Power (Watts) / Voltage (Volts).

American National Standards Institute (ANSI)

A consensus-based organization which coordinates voluntary standards for the physical, electrical and performance characteristics of lamps, ballasts, luminaires and other lighting and electrical equipment.

ANSI Ballast Type

A reference to the ANSI document describing the lamp which also lists the characteristics of the ballast required to operate the lamp. The following naming system is used: H - mercury lamps; M - metal halide lamps; S - high pressure sodium lamps; L - low pressure sodium lamps.

Ballast

An auxiliary piece of equipment required to start and to properly control the flow of current to gas discharge light sources such as fluorescent and high intensity discharge (HID) lamps.

Ballast Factor (BF)

This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast. For example, a ballast with a ballast factor of 0.93 will result in the lamp's emitting 93% of its rated lumen output. A ballast with a lower BF results in less light output and also generally consumes less power.

Ballast Losses

Power or energy dissipated in the ballast as heat and not converted to lamp energy.

Beam Angle

The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 50% of maximum. The beam angle sometimes called "beam spread" is often part of the ordering code for reflectorized lamps. Example: The 50PAR30/HIR/NFL25 is a 50 watt PAR30 narrow flood lamp with a beam angle of 25 degrees. See also Field Angle.

Beam Lumens

The total lumens present within the portion of the beam contained in the beam angle.

Biax[®]

GE trademark for its biaxial family of high-efficiency and long-life compact fluorescent lamps. DBX (Double Biax) TBX (Triple Biax) and QBX (Quad Biax) refer to the number of U-shaped legs present in the lamp.

Canadian Standards Association (CSA)

An organization that writes standards and tests lighting equipment for performance as well as electrical and fire safety. Canadian provincial laws generally require that all products sold for consumer use in Canada must have CSA or equivalent approval.

Candela (cd)

The measure of luminous intensity of a source in a given direction. The term has been retained from the early days of lighting when a standard candle of a fixed size and composition was defined as producing one candela in every direction. A plot of intensity versus direction is called a candela distribution curve and is often provided for reflectorized lamps and for luminaires with a lamp operating in them.

Candlepower

An obsolete term for luminous intensity; current practice is to refer to this simply as candelas. See Candela.

Candlepower Distribution Curve

A graphical presentation of the distribution of light intensity of a light source, usually a reflector lamp or luminaire.

Cathode see electrode

Center Beam Candlepower (CBCP)

Refers to the luminous intensity at the center of the beam of a blown or pressed reflector lamp (such as a PAR lamp). Measured in candelas. See also Candela.

Ceramic Metal Halide (CMH[®])

A type of metal halide lamp that uses a ceramic material for the arc tube instead of glass quartz, resulting in better color rendering (>80 CRI) and improved lumen maintenance. GE ConstantColor[®] CMH[®] lamps feature a 3-piece arc tube design that delivers terrific color consistency and lamp reliability.

ChromaFit[®]

A GE brand name for metal halide lamps designed to operate on HPS ballasts, allowing a user to switch from the yellowish color of HPS to the white color of metal halide without retrofitting ballasts. These products are available in both quartz metal halide and ceramic metal halide (CMH) versions.

Coefficient of Utilization (CU)

In general lighting calculations, the fraction of initial lamp lumens that reach the work plane. CU is a function of luminaire efficiency, room surface reflectances and room shape.

Color Rendering Index (CRI)

An international system used to rate a lamp's ability to render object colors. The higher the CRI (based upon a 0-100 scale) the richer colors generally appear. CRI ratings of various lamps may be compared, but a numerical comparison is only valid if the lamps are close in color temperature. CRI differences among lamps are not usually significant (visible to the eye) unless the difference is more than 3 -5 points.

Color Temperature (Correlated Color Temperature - CCT)

A number indicating the degree of "yellowness" or "blueness" of a white light source. Measured in kelvins, CCT represents the temperature an incandescent object (like a filament) must reach to mimic the color of the lamp. Yellowish-white ("warm") sources, like incandescent lamps, have lower color temperatures in the 2700K - 3000K range; white and bluish-white ("cool") sources, such as cool white (4100K) and natural daylight (6000K), have higher color temperatures. The higher the color temperature the whiter, or bluer, the light will be.

Compact Fluorescent Lamp (CFL)

The general term applied to fluorescent lamps that are single-ended and that have smaller diameter tubes that are bent to form a compact shape. Some CFLs have integral ballasts and medium or candelabra screw bases for easy replacement of incandescent lamps.

ConstantColor[®]

A GE registered name for lamp families that show very little color shift over life, such as GE's Precise[®] MR16 lamps and GE's ceramic metal halide (CMH[®]) lamps.

Cost of Light

Usually refers to the cost of operating and maintaining a lighting system on an ongoing basis. The 88-8-4 rule states that (typically) 88% is the cost of electricity, 8% is labor and only 4% is the cost of lamps.



GLOSSARY OF TERMS

CovRGuard®

A lamp encased by a sleeve made of the highest quality GE Lexan® plastic and sealed using a patented process. The Lexan covering helps contain glass fragments if the lamp breaks.

Diamond Precise®

Diamond Precise® is the GE trade name for its line-voltage MR16 ConstantColor® halogen lamp. An integral ballast and a medium screw base enable Diamond Precise® lamps to operate on standard (120 volt) circuits. The MR16 technology of Diamond Precise® allows a tighter, more intense beam than can be attained by the 50-watt PAR20 and R20 types it's designed to replace, even though the lumen output is significantly less by comparison.

Discharge Lamp

A lamp where light is emitted from an electrical discharge between two electrodes as opposed to a filament lamp. Examples are: Fluorescent lamps and HID (High Intensity Discharge) lamps like Metal Halide, Mercury and High Pressure Sodium. All discharge lamps require some kind of current-limiting device, e.g. a ballast to operate them.

Ecolux®

A term for GE lamps that pass the TCLP test. See TCLP.



Edison

GE's trademark for a wide range of lighting products.

Efficacy

See Luminous Efficacy.

e-HID ballast see Electronic HID Ballast

Electrode

In a discharge lamp the arc is struck between two protruding metal terminals in the chamber. These are called electrodes. The negative electrode which emits electrons to fuel the electrical discharge is called the cathode.

Electrodeless Lamp

See Induction Lighting and GENURA®.

Electromagnetic Ballast

See Magnetic Ballast.

Electromagnetic Spectrum

A continuum of electric and magnetic radiation that can be characterized by wavelength or frequency. Visible light encompasses a small part of the electro-magnetic spectrum in the region from about 380 nanometers (violet) to 770 nanometers (red) by wavelength.

Electromagnetic Interference (EMI)

High frequency electronic ballasts and other electronic devices can produce a small amount of radio waves that can interfere with radio and TV. Federally-mandated requirements must be met for EMI levels before an electronic device is considered FCC compliant. (FCC is the Federal Communications Commission)

Electronic Ballast

A short name for a fluorescent or HID high frequency electronic ballast. Electronic ballasts use solid state electronic components and typically operate fluorescent lamps at frequencies in the range of 25-35 kHz. The benefits are: increased lamp efficacy, reduced ballast losses and lighter, smaller ballasts compared to electro-magnetic ballasts. Electronic ballasts may also be used with HID lamps.

Electronic HID Ballast

An electronic ballast capable of operating an HID lamp. GE's Ultramax® (electronic HID ballast operates Pulse Arc® (metal halide) and CMH® (ceramic metal halide) lamps between 250W and 400W and provides higher efficiency and significantly improved lumen maintenance over magnetic ballasts.

Elliptical Reflector (ER) Lamp

An incandescent lamp with a built-in elliptically-shaped reflecting surface. This shape produces a focal point directly in front of the lamp which reduces light absorption in some types of luminaires. It is particularly effective at increasing the efficiency of baffled downlights.

Enclosed Fixtures

Energy Policy Act (EPACT)

Comprehensive energy legislation passed by the U.S. Congress in 2005. The lighting portion includes minimum energy efficacy requirements for many lamp and ballast components, bans ballasts for mercury lamps from 2008 on and provides significant tax incentives in 2006 and 2007 for buildings retrofitted or constructed with low lighting power densities (watts per square foot).

Energy Star®

US Department of Energy (DOE) designation for products meeting certain energy efficiency and performance standards. Among manufacturers of Compact Fluorescent Lamps, GE has the largest number of Energy Star® products as listed on the Federal Government's website.

EOL (End-of-Life Protection)

A circuit that senses that a lamp has reached end of life (compact fluorescent lamps and small diameter linear fluorescent lamps) and turns off power to the lamp. Continuing to power the lamp beyond end of life can result in overheating of the lamp ends.

Federal Communications Commission (FCC)

The U.S. Federal agency that regulates emissions in the radio frequency portion of the electromagnetic spectrum. Part 18 of the FCC rules specifies electromagnetic interference (EMI) from lighting devices operating at frequencies greater than 9 kilohertz (kHz). Typical electronically-ballasted compact fluorescent lamps operate in the 24 – 100 kHz frequency range.

Field Angle

The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 10% of maximum. See Beam Angle.

Fluorescent HO

And VHO lamps require special ballasts that generate higher currents than standard ballasts and operate the lamps at higher wattage than standard lamps. These lamps are generally less efficient than the standard product. Metal Halide HO and XHO lamps operate on the same ballasts as standard lamps and at the same wattage but are more efficient and produce higher light output than standard lamps.

Fluorescent Lamp

A high efficiency lamp utilizing an electric discharge through low pressure mercury vapor to produce ultra-violet (UV) energy. The UV excites phosphor materials applied as a thin layer on the inside of a glass tube which makes up the structure of the lamp. The phosphors transform the UV to visible light.

Footcandle (fc)

A unit of illuminance or light falling onto a surface. It stands for the light level on a surface one foot from a standard candle. One footcandle is equal to one lumen per square foot. See also Lux.



Full Spectrum Lighting

A marketing term, typically associated with light sources that are similar to some forms of natural daylight (5000K and above, 90+ CRI), but sometimes more broadly used for lamps that have a smooth and continuous color spectrum.

Genura®

GE's electrodeless compact fluorescent lamp, Genura®, uses induction to power the discharge. The chamber generates UV (just like a discharge in a regular fluorescent lamp) that is converted by phosphors to visible light. Because Genura® uses no electrodes, the life of this unique reflector lamp is longer than typical compact fluorescent products. See Induction Lighting.

Glare

Visual discomfort caused by excessive brightness is called discomfort glare. If task performance is affected it is called disability glare. Glare can be direct glare or indirect (reflected) glare.

Halogen Lamp

A halogen lamp is an incandescent lamp with a filament that is surrounded by halogen gases, such as iodine or bromine. Halogen gases allow the filaments to be operated at higher temperatures and higher efficacies. The halogen participates in a tungsten transport cycle, returning tungsten to the filament and prolonging lamp life. All halogen lamps have a tungsten filament and, often, a quartz envelope.

Halogen-IR® (HIR) Lamp

GE designation for high-efficiency tungsten halogen lamps. HIR lamps utilize shaped filament tubes coated with numerous layers of materials that transmit light but reflect the heat (infrared) back onto the filament. This reduces the power needed to keep the filament hot.

Harmonic Distortion see Total Harmonic Distortion (THD)

Hertz

Unit of frequency of vibration, denoting cycles per second.

Highbay Lighting

Lighting designed for (typically) industrial locations with a ceiling height of 25 feet and above.

High-Intensity Discharge (HID) Lamp

A general term for mercury, metal halide (GE ConstantColor® CMH®, Multi-Vapor®, MXR or Arcstream®) and high-pressure sodium (GE Lucalox®) lamps. HID lamps contain compact arc tubes which enclose various gases and metal salts operating at relatively high pressures and temperatures.

High Output/Very High Output (HO, VHO) Lamps

Designation for lamps generating more light than standard lamps.

High-Pressure Sodium (HPS) Lamp

HPS lamps are high intensity discharge light sources that produce light by an electrical discharge through sodium vapor operating at relatively high pressures and temperatures. GE markets these lamps under the trade name of Lucalox®.

Hot Restart Time

If there is a momentary power interruption and the HID lamp goes out, there will be a delay of 10 to 15 minutes before the lamp has cooled down sufficiently to start again. This is called the Hot Restart time. PulseArc® lamps have a significantly shorter Hot Restart time (typically 3-5 minutes) than standard metal halide lamps. Lucalox® Standby lamps will start up immediately while standard Lucalox® lamps require a few minutes.

Ignitor

An electronic device providing a high voltage pulse to initiate an electrical discharge. Typically, the ignitor is paired with or is a part of the ballast.

Illuminance

The "density" of light (lumens/area) incident on a surface; i.e. the light level on a surface. Illuminance is measured in footcandles or lux.

Incandescent Lamp

A light source that generates light utilizing a thin filament wire (usually of tungsten) heated to white heat by an electric current passing through it.

Indirect Lighting

The method of lighting a space by directing the light from luminaires upwards towards the ceiling. The light scattered off the ceiling produces a soft, diffuse illumination for the entire area.

Induction Lighting

Gases can be excited directly by radio-frequency or microwaves from a coil that creates induced electromagnetic fields. This is called induction lighting and it differs from a conventional discharge, which uses electrodes to carry current into the arc. Induction lamps have no electrodes inside the chamber and generally, therefore, have longer life than standard lamps. Genura® is an example of an induction lamp.

Infrared Radiation

Electromagnetic energy radiated in the wavelength range of about 770 to 1,000,000 nanometers. Energy in this range cannot be seen by the human eye, but can be sensed as heat by the skin.

Input Watts, Input Volts

These refer to the ballast: the input watts represents the total power consumption of the ballast. It includes the power to the lamps and the power dissipated in the ballast. The input volts of the ballast is the line voltage the ballast is designed for, e.g. 120 volts or 277 volts.

Instant Start

A type of ballast designed to start fluorescent lamps as soon as the power is applied. Most T8 fluorescent lamps are being operated on electronic instant-start ballasts. Slimline fluorescent lamps operate only on instant start circuits.

Kelvins see Color Temperature

Kilowatt (kW)

A measure of electrical power equal to 1000 watts.

Kilowatt Hour (kWh)

The standard measure of electrical energy and the typical billing unit used by electrical utilities for electricity use. A 100-watt lamp operated for 10 hours consumes 1000 watt-hours (100 x 10) or one kilowatt-hour. If the utility charges \$.10/kWh, then the electricity cost for the 10 hours of operation would be 10 cents (1 x \$.10).

Lamp

The term used to refer to the complete light source package, including the inner parts as well as the outer bulb or tube. "Lamp", of course, is also commonly used to refer to a type of small light fixture such as a table lamp.

Life

See Rated Lamp Life.



GLOSSARY OF TERMS (CONTINUED)

Light

Radiant energy that can be sensed or seen by the human eye. Visible light is measured in lumens.

Light Center Length (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane – usually the bottom of the lamp base. See L.C.L. Reference Plane Location chart on page A-1.

Light Emitting Diode (LED)

A solid that directly converts electrical impulses into light. Some LED's today incorporate fluorescent materials to change the color characteristics of the emitted light.

Light Loss Factor (LLF)

The product of all factors that contribute to lowering the illumination level including reflector degradation, dirt, lamp depreciation over time, voltage fluctuations, temperature effects, burn-out factor, etc.

Lucalox®

The GE brand name for high-pressure sodium lamps.

Lumen

A measure of luminous flux or quantity of light emitted by a source. For example, a dinner candle provides about 12 lumens. A 60-watt Soft White incandescent lamp provides 840 lumens.

Lumen Depreciation, Lumen Maintenance

A measure of how well a lamp maintains its light output over time. It may be expressed numerically or as a graph of light output vs. time.

Lumens Per Watt (lpW)

A ratio expressing the luminous efficacy of a light source.

Typical lamp efficacies:

| | |
|----------------------------------|---------|
| Edison's first lamp | 1.4 lpW |
| Incandescent lamps | 10-40 |
| Halogen incandescent lamps | 20-45 |
| Fluorescent lamps | 35-105 |
| Mercury lamps | 50-60 |
| Metal halide lamps | 60-120 |
| High-pressure sodium lamps | 60-140 |

Note: The values above for discharge lamps do not include the effect of the ballasts, which must be used with those lamps. Taking ballast losses into account reduces "system" or lamp ballast efficacies typically by 10-20% depending upon the type of ballast used.

Luminaire

A complete lighting unit consisting of a lamp (or lamps), ballast (or ballasts) as required together with the parts designed to distribute the light, position and protect the lamps and connect them to the power supply. A luminaire is often referred to as a fixture.

Luminaire Efficiency

The ratio of total lumens emitted by a luminaire to those emitted by the lamp or lamps used in that luminaire.

Luminance

A photometric measure of "brightness" of a surface as seen by the observer, measured in candelas per square meter.

Luminous Efficacy

The light output (lumens) of a light source divided by the total power input (watts) to that source. It is expressed in lumens per watt. See Lumens per Watt.

Lux (lx)

A unit of illuminance or light falling onto a surface. One lux is equal to one lumen per square meter. Ten lux approximately equals one footcandle. See also Footcandle.

Magnetic Ballast

A ballast used with discharge lamps that consists primarily of transformer-like copper windings on a steel or iron core. See also Electronic Ballasts.

Maximum Overall Length (M.O.L.)

The end-to-end measurement of a lamp, expressed in inches or millimeters.

Mean Lumens

The average light output of a lamp over its rated life. Based on the shape of the lumen depreciation curve, for fluorescent and metal halide lamps, mean lumens are measured at 40% of rated lamp life. For mercury, high pressure sodium and incandescent lamps, mean lumen ratings refer to lumens at 50% of rated lamp life. See Lumen Maintenance.

Mercury Lamp

A high-intensity discharge light source operating at a relatively high pressure (about 1 atmosphere) and temperature in which most of the light is produced by radiation from excited mercury vapor. Phosphor coatings on some lamp types add additional light and improve color rendering.

Metal Halide Lamp

A high-intensity discharge light source in which the light is produced by the radiation from mercury, plus halides of metals such as sodium, scandium, indium and dysprosium. Some lamp types may also utilize phosphor coatings. GE trade names include: Multi-Vapor®, ConstantColor® CMH®, PulseArc®, Staybright®, Watt-Miser®, ChromaFit® and Arcstream®.

Mortality Curve

Lamps have a rated or expected life but individual failures occur earlier and some lamps will last longer. The mortality curve depicts the expected percent surviving in a group of lamps at various points between zero hours and rated life or beyond. The curve starts with 100% at zero hours and goes to 50% surviving at the rated life (e.g. 3000 hours or 20,000 hours, etc.) However, the shape of the curve between these two end points can vary depending on the lamp type.

Multi-Vapor®

Multi-Vapor® A GE brand name for metal halide lamps.

Nanometer

A unit of wavelength equal to one billionth of a meter.

National Electric Code (NEC)

A nationally accepted electrical installation code to reduce the risk of fire, developed by the National Fire Protection Association.

PAR Lamp

PAR is an acronym for parabolic aluminized reflector. A PAR lamp, which may utilize either an incandescent filament, a halogen filament tube or a HID arc tube, is a precision pressed-glass reflector lamp. PAR lamps rely on both the internal reflector and prisms in the lens for the control of the light beam.



Parallel Lamp Operation/Parallel Wiring

Refers to ballasts that employ multiple output current paths from a single ballast to allow lamps to operate independent of one another, allowing other lamps operated by the ballast to remain lit should companion lamp(s) fail. (See Series Lamp Operation).

Phosphor

An inorganic chemical compound processed into a powder and deposited on the inner glass surface of fluorescent tubes and some mercury and metal-halide lamp bulbs. Phosphors are designed to absorb short wavelength ultraviolet radiation and to transform and emit it as visible light.

Photometry

The measurement of light and related quantities.

Photopic see Scotopic/Photopic

Power Factor (PF)

A measure of the phase difference between voltage and current drawn by an electrical device, such as a ballast or motor. Power factors can range from 0 to 1.0 with 1.0 being ideal. Power factor is sometimes expressed as a percent. Incandescent lamps have power factors close to 1.0 because they are simple "resistive" loads. The power factor of a fluorescent and HID lamp system is determined by the ballast used. "High" power factor usually means a rating of 0.9 or greater. Power companies may penalize users for using low power factor devices.

Precise®

The GE trade name for the compact MR-16 and MR-11 low-voltage halogen dichroic cool beam reflectorized spot and flood lamps.

Preheat Circuit

A type of fluorescent lamp-ballast circuit used with the first commercial fluorescent lamp products. A push button or automatic switch is used to preheat the lamp cathodes to a glow state. Starting the lamp can then be accomplished using simple "choke" or reactor ballasts.

Programmed Rapid Start see UltraStart

PulseArc®

GE description for a type of metal halide lamp that provides improved lumen maintenance for longer useful life and extended relamp cycles. These products are designed to operate on ballasts that have ignitors to help with lamp starting.

Quartz-Halogen Lamp see Halogen Lamp

Quartzline®

A GE registered trademark term for some types of halogen lamps.

Rapid Start Circuit

A fluorescent lamp-ballast circuit that utilizes continuous cathode heating, while the system is energized, to start and maintain lamp light output at efficient levels. Rapid start ballasts may be either electromagnetic, electronic or of hybrid designs. Full-range fluorescent lamp dimming is only possible with rapid start systems.

Rated Lamp Life

For most lamp types, rated lamp life is the length of time of a statistically large sample between first use and the point when 50% of the lamps have died. It is possible to define "useful life" of a lamp based on practical considerations involving lumen depreciation and color shift.

Reflector Lamp (R)

A light source with a built-in reflecting surface. Sometimes, the term is used to refer specifically to blown bulbs like the "R" and "ER" lamps; at other times, it includes all reflectorized lamps like PAR and MR.

Reveal®

GE's product family of incandescent lamps with the element Neodymium added to the glass bulb. Neodymium filters out much of the yellow light produced by ordinary lamps. Less yellow means whites look whiter and colors appear more vibrant in spaces lighted with Reveal lamps.

Scotopic/Photopic (S/P) Ratio

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic vision) and cones to yellow light (Photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens for the light source on an ANSI reference ballast. Cooler sources (higher color temperatures lamps) tend to have higher values of the S/P Ratio compared to warm sources.

Series Lamp Operation

Refers to ballasts that employ a single current path passing through all lamps operated by the ballast. If one lamp should fail, companion lamps operated by the same ballasts will also extinguish or dim.

Specification Series (SP) Colors

Energy-efficient, all-purpose tri-phosphor fluorescent lamp colors that provide good color rendering. The CRI for SP colors is 70 or above and varies by specific lamp type. See Lamp Color Chart on page A-10.

Specification Series Deluxe (SPX) Colors

Energy-efficient tri-phosphor fluorescent lamp colors that provide better color rendering than Specification Series (SP) colors. The CRI for SPX colors is 80 or higher and varies by specific lamp type. All GE CFL products use SPX phosphors. See Lamp Color Chart on page A-10.

Spectral Power Distribution (SPD)

A graph of the radiant power emitted by a light source as a function of wavelength. SPD's provide a visual profile or "finger print" of the color characteristics of the source throughout the visible part of the spectrum.

Spiral® Lamp

GE trademark for its helical family of high-efficiency, long-life compact fluorescent lamps.

Starcoat®

GE's special barrier coating applied on the inside of all GE T8 fluorescent lamps, as well as some other lamp types, to enhance lamp life and deliver superior lumen maintenance.

Starting Temperature (Minimum)

The minimum ambient temperature at which the lamp will start reliably on the ballast.

TCLP Test

The Toxicity Characteristic Leaching Procedure (TCLP) test, specified in the Resource Conservation and Recovery Act (RCRA) of 1990, is used to characterize fluorescent lamp waste as hazardous or nonhazardous waste. The TCLP test measures the ability of the mercury and/or lead in a lamp to leach from a landfill into ground water.



GLOSSARY OF TERMS (CONTINUED)

Total Harmonic Distortion (THD)

A measure of the distortion of the input current on alternating current (AC) power systems caused by higher order harmonics of the fundamental frequency (60Hz in North America). THD is expressed in percent and may refer to individual electrical loads (such as a ballast) or a total electrical circuit or system in a building. ANSI C82.77 recommends THD not exceed 32% for individual commercial electronic ballasts, although some electrical utilities may require lower THD's on some systems. Excessive THD's on electrical systems can cause efficiency losses as well as overheating and deterioration of system components.

Troffer

A long, recessed lighting unit, usually installed in an opening in the ceiling.

Tungsten Halogen Lamp see Halogen Lamp

Ultra

GE designation for lamps and ballasts belonging to the new generation of energy-saving fluorescent systems.

UltraMax®

The designation for GE's electronic ballasts for both linear fluorescent systems and for HID systems (see "Electronic HID Ballast"). The family of high-efficiency GE instant-start electronic linear fluorescent ballasts are designed to optimize GE's T8 Ultra lamps for enhanced system energy savings. UltraMax ballasts have a low lamp current crest factor and virtually read and adapt to incoming voltage from 108V to 305V. Other features include UL Type CC Anti-Arc Rating and anti-striation control to eliminate lamp striations and spiraling.

UltraStart

GE's line of Programmed Rapid Start ballasts, for both T8 and T5 lamps, made specifically for applications where lamps are switched on and off frequently. The "ultra soft" starting associated with these ballasts ensures long lamp life even in frequently switched applications. Additional features include high efficiency and start times comparable to Instant Start ballasts, and series operation of lamps.

Ultraviolet (UV) Radiation

For practical purposes, any radiant energy within the range of 100-380 nanometers. It is beyond the blue or violet region of the spectrum, and is invisible to the eye just like the silent "ultrasound" dog whistle is inaudible to the ear.

UV is divided into 3 regions:

- UVA..... 100 to 280 nm
- UVB..... 280 to 315 nm
- UVC..... 315 to 400 nm

Some wavelengths (180-220) produce ozone, some (220-300) are bactericidal, some (280-320) erythema (reddened human skin); others (320-400) cause secondary luminance (black light).

Ultra Watt-Miser®

GE's family of energy-saving T8 fluorescent lamps.

Underwriter's Lab (UL)

A private organization which tests and lists electrical and other equipment for electrical and fire safety standards. Generally luminaires are UL listed, not lamps (except for CFL lamps with built-in ballasts.)

Voltage

A measurement of the electromotive force in an electrical circuit or device expressed in volts. Voltage can be thought of as being analogous to the pressure in a waterline.

Voltage Surge

Transient spikes in line voltage that can be harmful to electronic equipment like computers and electronic ballasts. Surge suppressors are often used to protect against such transients.

Warm-up Time

HID lamps typically take a few minutes to warm-up to full brightness after starting.

Watt

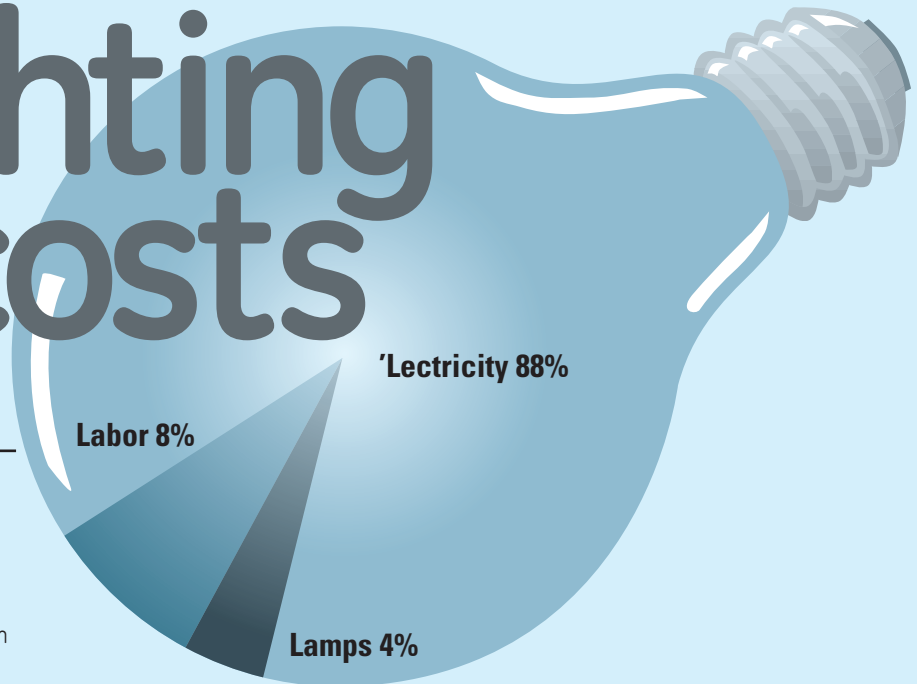
A unit of electrical power. Lamps are rated in watts to indicate the rate at which they consume energy. See Kilowatt Hour.

Watt-Miser®

A Watt-Miser® lamp is a term used by GE to indicate a reduced-wattage lamp with performance characteristics (life, light output, etc.) such that it can usually directly replace a higher-wattage product. Watt-Miser® lamps are available in a wide range of incandescent, fluorescent and HID lamp types.



the three of **L**'s Lighting costs



ELECTRICITY IS THE BIGGEST CHUNK OF YOUR LIGHTING COSTS

Averaging across different lamp types and systems, we estimate that only \$1 of every \$25 goes toward lamps, \$2 toward labor, and **\$22 toward electricity!**

The simplest way to save energy is to retrofit with energy-efficient products and systems from GE Lighting: your #1 energy-saving choice!

And remember... every watt reduced in your lighting system results in a one-third watt reduction in your A/C load (while A/C is running).

Energy-Saving Examples
(assuming 4500 hours per year, \$0.10 per kWh, and excluding A/C savings)

- Each F32T8 replaced with an F32T8/WM saves \$3.20 per lamp in energy over the life of the lamp.
- Each 4-lamp T12 fixture retrofitted with GE's latest UltraMax™ system saves \$27 per year in energy costs, with nearly the same light output (3% reduction in lumens: T12/WM on standard magnetic ballast vs. T8 on 0.77 BF electronic instant start ballast).
- Each 90W PAR halogen lamp replaced with a 70W PAR HIR™ lamp will save \$9 per year in energy costs, with nearly the same light output (4% reduction in lumens).
- MVR400/U retrofitted with MVR360/STB/WM saves \$80 per fixture in energy over the life of the lamp.
- Each 100W incandescent bulb replaced with a 26W CFL will save \$33 per year per socket in energy costs.

REDUCE LABOR COSTS WITH PLANNED MAINTENANCE/GROUP RELAMPING

Schedule your lighting maintenance instead of simply waiting for lamps to fail!

In any large installation, failure rates increase with age in a predictable way. The **optimal** point for group relamping is typically when 8% to 12% of lamps have failed, usually around two-thirds of rated life. At this point, both lumen output and lamp color may have deteriorated, yet the cost of electricity remains at "full price."

The per-lamp labor cost of installing new lamps is usually significantly less when an entire site is relamped, compared to the per-lamp labor cost of replacing lamps one at a time.

The result? The facility gets a face-lift and the maintenance costs over the next two or three years are generally significantly reduced. **Contact your GE Account Manager or GE Distributor to understand the full benefits of planned maintenance and to get set up on a money-saving group relamping schedule.**



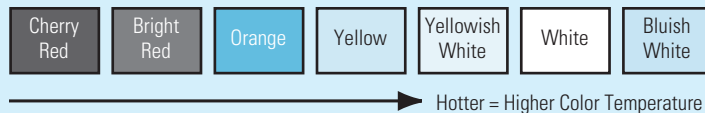
selecting the best color lamp

DESCRIPTIONS: "WARM" OR "COOL"

When talking about white light sources (or about white paint) we use the descriptions "warm" and "cool." White light with a yellowish tinge, reminiscent of candlelight and fireplaces, is called "warm white." Incandescent lamps produce a warm white color. Bluish white, reminiscent of moonlight on cold snow, is considered "cool white." Fluorescent lamps can produce warm white or cool white, or anywhere in-between, depending on the mix of phosphors used.

CORRELATED COLOR TEMPERATURE (CCT)

Correlated Color Temperature is a way of describing the degree of "yellowness" or "blueness" of a white light source. We relate the light source to the color of a hypothetical piece of hot metal. A piece of steel or tungsten as it is heated, will progressively change color in the sequence shown below:



When we say a lamp has a color temperature of 2700K—typical of incandescent lighting—it simply means that a piece of metal heated to a temperature of 2700 kelvins (which is about 3000°C or 5400°F) would mimic the color of the lamp. Such a source would be yellowish-white. In contrast, the color of a lamp at 6000K—typical of daylight entering through a window on a sunny day—can be mimicked by doubling the temperature of the hot metal piece to 6000 kelvins. This is significantly bluer or "cooler" than the light of incandescent lamps. Note that higher CCT refers to sources described as "cooler."

Generally, 4000K and above is considered "cool white", 3200K and below is "warm white", and 3500K is "neutral white."

BETTER COLOR RENDERING FOR BETTER APPEARANCE

There is no such thing as the "true" color of any material; the perceived color is a function of the light under which the material is viewed and the reflectance characteristics of the material itself. However, we can make a general statement: the higher the Color Rendering Index (CRI) of a light source (also denoted by R_a) the better—and more natural—colors typically appear under the light source.

In measuring CRI, scientists compare how eight specific colors appear under the source to how these same colors appear under a reference source. However, there are two reference sources: incandescent lighting is the reference for warm color lamps and daylight is the reference for cool color lamps. In this system, both incandescent lamps and daylight are considered to have "perfect" CRI's of nearly 100 even though, as we know, materials appear quite different when viewed under these light sources. These two sources are very different in color temperature (see below) although both have CRI's close to 100. CRI is, therefore, meaningful in comparing lamps that are close in color temperature.

CRI is not a perfect measure, but it is still useful as an indicator of the quality of light from a source.

| Typical Color Indicators for Various Lamps | Correlated Color Temperature | Color Rendering Index |
|---|------------------------------|-----------------------|
| INCANDESCENT LAMPS | | |
| Typical | 2500-2800K | 97-100 |
| HALOGEN LAMPS | | |
| Typical | 2800-3000K | 97-100 |
| FLUORESCENT LAMPS (ordered by CCT) | | |
| C75 "Chroma Series" | 7500K | 90 + |
| SPX65 (865) | 6500K | 80 + |
| SP65 (765) | 6500K | 70 + |
| C50 "Chroma Series" | 5000K | 90 + |
| SPX50 (850) | 5000K | 80 + |
| SP50 (750) | 5000K | 70 + |
| SPX41 (841) | 4100K | 80 + |
| SP41 (741) | 4100K | 70 + |
| Cool White | 4100K | 62 |
| SPX35 (835) | 3500K | 80 + |
| SP35 (735) | 3500K | 70 + |
| SPX30 (830) | 3000K | 80 + |
| SP30 (730) | 3000K | 70 + |
| Warm White | 3000K | 50 |
| covRfresh | 2750K | 87 |
| SPX27 (827) | 2700K | 80 + |
| <i>Note: Some 4' T8 "SP" lamps, including reduced wattage types, may have a CRI >80.</i> | | |
| HIGH PRESSURE SODIUM LAMPS | | |
| Lucalox® | 1900-2100K | 22 |
| Deluxe Lucalox® | 2200K | 65 |
| METAL HALIDE LAMPS | | |
| Standard and PulseArc® MVR Multi-Vapor® | 3000-4300K | 65-75 |
| MXR Multi-Vapor® | 3200-3500K | 65-70 |
| Arcstream® | 3000-6000K | 75-90 |
| Multi-Vapor® ChromaFit™ | 4000-4500K | 65-70 |
| CERAMIC METAL HALIDE LAMPS | | |
| CMH® | 3000-4200K | 80-93 |
| CMH® ChromaFit™ | 3000K | 85 |