



See what's possible with Philips Lighting

Lamp Specification and Application Guide 2006

PHILIPS

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Delivering Solutions

The world of lighting today has become complex and technical. Trends toward miniaturization, energy efficiency, ease of use, light and well being, quality of light, personalization, mood and emotion all drive new product developments. All Philips innovations are based on extensive knowledge of these trends and market insights.

At Philips, we are committed to making our products easier to experience. We are also committed to understanding current and future trends by listening to our business partners and customers. Together we can develop lighting solutions of the highest quality and originality that meets their needs and expands their possibilities.



Philips MasterColor® Integrated
25W PAR38



Philips Energy Advantage Long
Life 25W T8 System featuring
ALTO® Lamp Technology



Philips Aurelle™ Rechargeable
LED Candles

Philips Lighting: A history of innovation

For over 100 years now, Philips Lighting has been introducing lighting innovations to the market. It's what we do best and by doing so we create business opportunities for ourselves and for our partners.

Our new products and marketing initiatives are based on our detailed understanding of current and future trends within the many market segments we work in and input from end-users.

Our innovations over the past 25 years include:

1980



Compact Fluorescent
Technology

1985



Philips Long Life
Incandescent

1990



Dimmable
Compact Fluorescent

1991



Halogená®
Classic

1995



ALTO® Lamp
Technology





Photography by Jeff MacWright of MacWright Studio.

2000



QL Induction
Lighting

2001



Halogená®
Flood and Spot

2003



Halogen
PAR38 IRC

2004



Mini
MasterColor®

2005



MasterColor®
Integrated PAR38

Lighting can change your environment

Lighting the Task

How much light you need depends on the visibility of the task (its size and contrast), the speed and accuracy of the task and the age of the person performing the task. Requirements can vary widely so choosing the right light source is critical.

The colors of the walls, ceilings and furniture also affect lighting since darker finishes can absorb more light than more reflective surfaces.

Lighting People

To read people's expressions, you need lighting that renders facial tones well. Lighting that reveals a healthy skin tone also makes people feel better and more motivated. Most people feel that better color aids visual acuity and productivity.

Older lighting systems are particularly poor with respect to color but can be easily upgraded with today's systems, which have better color rendering and are more energy efficient.



What is Color Rendering?

Color rendering is the ability of a light source to represent colors in objects. Commonly called CRI or color rendering index, it is a relative measurement which rates light sources on a scale of 0–100, the higher the CRI, the more vibrant colors appear.

Light from lamps with good (70–80 CRI) and excellent (80+ CRI) color rendering properties is said to be “high quality light” because objects and people look more appealing and light level itself appears to be higher.

Excellent CRI is critical in settings where it is important that people appear natural, in retail applications where merchandise must look appealing and in restaurant applications where food must look appetizing. In office and factory applications, high color rendering can increase visual clarity and create a more pleasing and productive work environment.

Luminous Efficacy

Luminous efficacy is the rate at which a lamp is able to convert electrical power (watts) into light (lumens), expressed in terms of lumens per watt (LPW). Put simply, a watt of electricity is the amount of power into a lighting system and a lumen or light is the amount of power out of a lighting system. Luminous efficacy is key when evaluating a lamp because lighting represents a large portion of the total operating cost of a typical installation and can affect related costs such as air conditioning. By investing in energy efficient lighting upgrades, you can leverage the energy cost savings to achieve significant reductions in your operating costs. In addition, an energy-efficient system benefits the environment.

Color Temperature

The overall color appearance of the light that comes from a light source is called color temperature or chromaticity. Also referred to as Correlated Color Temperature (CCT) and measured in degrees Kelvin or “K”, color temperature creates the mood or ambience of the space you are lighting and can influence shopping behavior or work performance.

To help visualize color temperature in lamp types designated as “warm” or “cool,” imagine a piece of iron (or a horseshoe, for instance) in a fire. At first, the iron becomes “red-hot” and will be reddish-yellow in color. The reddish-yellow color corresponds to a warm color temperature. It would be equivalent to incandescent lamps operating at 2700K.

As you continue to heat the iron, it will become “white-hot” and will be white in color. This corresponds to a cool white fluorescent lamp operating at 4100K.

Heating the iron further causes it to become “blue-hot” or blue in appearance (like flash bulbs or stars), such as in 5K metal halide sources operating at 5000K.

The Influence of Color Temperature on Mood and Lighting Applications

Color Temperature	Warm	White	Neutral	Cool	Daylight
Kelvin Range	2700K	3000K	3500K	4100K	5000K
Associated Effects and Moods	Warm Cozy Open	Friendly Intimate Personal Exclusive	Friendly Inviting Non-threatening	Neat Clean Efficient	Bright Alert Exact coloration
Appropriate Applications	Restaurants Hotel lobbies Boutiques Homes	Libraries Office areas Retail stores	Public reception areas Showrooms Bookstores Office areas	Office areas Conference rooms Classrooms Mass merchandisers Hospitals	Galleries Museums Jewelry stores Medical examination areas Printing companies

Tips on Color Temperature

Tip: Cooler light, in the 4100K range, communicates neatness and efficiency. It's appropriate for the work areas in most offices. Philips T8 lamps are perfect for creating a cooler atmosphere.

Tip: A warm atmosphere, achieved with compact fluorescent lighting, can create a friendly, intimate or inviting surrounding. Philips Marathon® compact fluorescents create a warm atmosphere.



Cool atmosphere



Warm atmosphere

Every lighting application has its own unique requirement. Philips can provide the right solution to help transform all your spaces.

Brighten the shop





©2005 Photography by Josh Edenbaum.



Photo courtesy of Darris Lee, Padgett and Company.

ping experience



Photography by Jeff MacWright of MacWright Studio.

Retail Lighting

Effective retail lighting can drive traffic into a store by illuminating enticing store front displays. The right lighting can also create a comfortable environment inside the store that highlights the merchandise and makes customers feel comfortable. If a customer can focus on merchandise that is well lit then they may want to spend more time browsing.

Shoppers are becoming more demanding of retailers as their shopping purpose becomes more inspirational and social. Understanding how lighting effects the mood of the shopper is critical to maintaining the proper atmosphere in a retail environment.

The Philips Halogen lamp family is perfect for retail lighting. Lamps are available in three simple categories for decorative, accent, ambient, and track lighting. Designed to appeal visually, they also save on energy costs.

Philips MasterColor® lamps provide excellent color rendering in the retail environment and are available in a variety of shapes and sizes to fit your existing fixtures and suit your budget.

- 51** Philips Halogen, Halogen Long Life, and Halogen Energy Advantage IR Lamps
- 90** Philips Mini MasterColor® Lamps
- 90** Philips MasterColor T4 and T6 Lamps
- 92** Philips MasterColor Integrated PAR Lamps
- 92** Philips MasterColor PAR Lamps



Creating a respon and productive wo



sible workplace space



Photography © Z.Jedrus.



Photography © Z.Jedrus.

Office Lighting

What are the most challenging visual tasks in the office? Reading material on computer screens? Reading the fine print of photocopied documents? Or perhaps evaluating the facial expressions of people in sensitive discussions or sales situations? Whatever tasks are the most critical in your office, lighting can play a crucial role in achieving a productive and appealing visual environment.

In fluorescent lighting, which dominates office spaces, Philips sets the standard in cost-effective, energy saving, long life performance. Philips innovative tri-phosphor design gives modern fluorescent lamps both good color rendering and energy efficiency. Our ALTO® Technology is the pre-eminent low-mercury technology. And, our slim Silhouette T5 lamps have made indirect office lighting more efficient and more attractive.

Replacing standard 32W T8 fluorescent lamps with Philips Energy Advantage Long Life 25W T8 lamps can save you 7 watts per lamp instantly. Philips UV germicidal lamps, installed in HVAC ducts, protect against airborne pathogens, purifying the air we breathe and improving indoor air quality.

67 Philips Silhouette T5

72 Philips Energy Advantage Long Life 25W T8 Lamps

125 Philips UV Germicidal Lamp



Make your guests





feel at home



Hospitality Lighting

Lighting plays a big part in making a good first impression with your hotel guests. Lighting can dramatically change the mood, image and functionality of a space. Lighting can create a unique atmosphere for your guests and make them feel at home.

To create a unique lighting experience, use a combination of ambient, focal and decorative light. Ambient light provides general light in the room, while focal light draws particular attention to specific areas—for example art, in the guest room. Decorative light adds sparkle and atmosphere.

In addition to creating a unique atmosphere, lighting can significantly improve your bottom line. The largest cost when considering lighting comes from the energy used to operate lamps over time, not the initial cost of the lamp. A simple upgrade to long lasting, lower wattage lamps like Philips Marathon® compact fluorescents, can save on electricity and maintenance costs.

Philips offers a wide range of products that allow you to use less energy, while not sacrificing light quality, and at the same time provide you the opportunity to create a unique atmosphere in your space.

- 26 Philips Natural Light
- 47 Philips Halogená®
- 59 Philips Marathon
- 62 Philips PL Lamps
- 71 Philips Advantage 32W T8 Lamp
- 114 Philips Aurelle™



Improve lighting in industrial and ware





Warehouse spaces



Industrial and Warehouse Lighting

Industrial and warehousing facilities face increasingly complex challenges: an aging workforce, concerns for health and safety, volatile energy markets, and environmental mandates. Lighting plays a crucial role in responding to industrial demand for productivity, cost control, and environmental responsibility.

Whether you are changing your space from yellow to white light by using Philips HPS-Retro White™ or from HID to fluorescent by using our Silhouette™ T5 lamps, or upgrading to the latest HID technology available, Philips Lighting products can provide the visual requirements for your space and workforce.

If long life is what you are looking for, consider QL lamps which have a rated average life of 100,000 hours.

Fluorescent, HID (mostly metal halide) and QL Induction Lighting all compete in the industrial arena. Each light source has its strengths and weaknesses. Analyzing your needs and knowing your applications will guide you to the best lighting choices.

- 67** Philips T5 Fluorescent Lamps
- 72** Philips Energy Advantage Long Life T8 Lamps
- 95** Philips MasterColor® HPS-Retro White™
- 95** Philips MasterColor Pulse Start
- 96** Philips Pulse Start and Protected Lamps
- 103** Philips QL Induction Lighting



Photography by Jeff MacWright of MacWright Studio.

Energy conservation and emission reduction

Energy Savings Calculator

To calculate energy dollars saved over the life of a bulb, use this formula. All you need is your Present Bulb Wattage and the Replacement Bulb Wattage and Lamp Life.

Present Bulb Wattage		Watts
Subtract		
Replacement Bulb Wattage		Watts
Equals Wattage Saved		Watts
Multiply		
By Replacement Bulb Life		Hours Life
Equals Energy Saved		Watt-Hours

To Convert to Kilowatt Hours Divide by 1000	$\div 1000$	
Equals Energy Saved		KiloWatt Hours
Multiply		
By Your kWh Rate		
Equals Energy Dollars Saved by Each Bulb		\$
Multiply		
By Number of Bulbs in Your Facility		

TOTAL DOLLARS SAVED Over the Rated Average Life of the Bulbs		\$
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Conserving energy not only reduces electricity costs; it also decreases the emission of greenhouse gases produced in electricity generation. In addition to the energy saving strategies applicable to the primary fluorescent lighting systems in the office, you can reduce energy consumption in supplemental lighting by using compact fluorescent and metal halide lamps. They can save significantly on energy consumed as compared to incandescent lamps—with commensurate savings in electricity costs. So you can do well by doing good!

Using Lighting Controls

Dimming and occupancy sensing controls also save energy and are viable options for most fluorescent lighting. For dimming or frequent switching, the Philips Advantage T8 featuring ALTO® Lamp Technology offers superior energy efficiency and full controllability.

Additional Savings on HVAC

Lighting systems add heat to all spaces, which contributes to the air conditioning load. Depending on the climate, each watt saved on lighting can produce an additional savings on the energy used to cool the space.



Working towards sustainability

At Philips we believe sustainable development is imperative. It is our way of doing business—an investment that will create value and secure the future. And in the end, it is the right thing to do.

The Philips holistic approach to sustainable innovation:

Ecology: Technological Innovation

Society: New Values

Economy: New Business Models

The decisions we make are critical in stimulating and exploring new business initiatives and new markets focused on sustainability.



Philips Product Design

EcoDesign is environmentally conscious product design. Philips product development involves focusing on the following areas when developing products:



Weight



Hazardous
substances



Energy
consumption



Packaging



Recycling
and disposal

Green Flagship Product A product determined by Philips to offer better environmental performance in two or more of the above areas, compared with its predecessors or closest commercial competitors.

Packaging Wherever possible Philips product packaging must be reusable or recyclable.

Supplier Management We developed a Supplier Declaration on Sustainability that outlines minimum expectations of behavior in the areas of environment, health and safety and labor conditions.



Philips Lighting Company is proud to be the first lighting manufacturer to become a member of the USGBC.



Reduce, reuse and recycle

Philips Lighting Company has adopted an integrated approach to sustainable lighting solutions. Using the “3R’s” guideline set forth by the Environmental Protection Agency’s Division of Solid Waste Management, we affirmed our endorsement and outlined how we live by this principle of “reduce, reuse and recycle.”

Reduce: Philips fluorescent lamps featuring ALTO® Lamp Technology combine low mercury with long life and energy efficiency—which together help achieve sustainability:

Low Mercury: Philips fluorescent lamps featuring ALTO® Lamp Technology average 70% less mercury than the 2001 industry average for fluorescent lamps up to sixty inches which are not TCLP¹ compliant. Source reduction during the manufacturing phase is essential to mercury management throughout the product lifecycle.

Long Life: Philips 4' T8 lamps featuring ALTO Lamp Technology achieve longer life than standard 4' T8 lamps, reducing the impact of lamps on the environment.

Energy Efficiency: Since lighting, on average, consumes 25% of the energy use in a typical building, energy efficient lighting not only reduces operating costs it also supports a clean and sustainable environment.

Optimized Performance: Higher lumen output lamps potentially reduce the quantity of lamps required to achieve and maintain light levels. Better lumen output and maintenance can improve visual acuity. The IALD (International Association of Lighting Designers) defines sustainable lighting as “lighting design that meets the qualitative needs of the visual environment with the least amount of impact on the physical environment.” Balancing the visual needs and environmental needs to achieve a sustainable lighting design is imperative.

Reuse: ALTO lamps use 100% recycled mercury during the ALTO manufacturing process. We also reuse as much of our glass and packaging materials as possible.

Philips also has target reductions in packaging and production processes as outlined in the Annual Philips Sustainability Report.

Recycle: As part of our EcoVision program, we strive to reduce waste and increase recycling of all materials. Philips encourages recycling of all mercury-containing lamps.

Solutions for LEED-EB lighting standards

When it comes to lighting performance, existing buildings must have a maximum of 100 pico-grams per lumen hour to pass LEED-EB standards. At Philips we provide a wide array of low-mercury, long life, high lumen, high performance or optimized performing lamps that exceed this standard with a goal of achieving 80 pico-grams per lumen hour or below. Facility managers can visit www.philips.com to use an online Sustainable Lighting IndexSM calculator. Philips designed the calculator to be compatible with the LEED-EB lighting specifications.

¹) The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.



Find us online @ www.philips.com

Online Professional Tools Available 24/7

eCatalog

Full product information available 24/7, always up-to-date.

The screenshot displays the Philips eCatalog interface. The top navigation bar includes links for 'About Philips', 'Consumer Products', and 'Lighting'. The breadcrumb trail reads: 'You are here: Home > Lighting > eCatalog > Lamps > Fluorescent > T8'. The left sidebar shows a tree structure under 'eCatalog' with 'Lamps' expanded to 'Fluorescent' and then 'T8'. The main content area features a 'Download of visuals' section for 'F-T8-ISA MED BIPIN/GB' with a table of download options. Below this, the 'ALTO® Energy' product page is shown, including a 'General' tab with a 'Lamp Description' and 'Features/Benefits' section. A second, smaller screenshot is overlaid on the right, showing the 'Specs' tab with a table of 'BASIC SPECIFICATIONS - LAMPS'.

PHILIPS
Download of visuals

Description	Width x Height [pixels]	Download Size [KB]	Type
High Resolution 356 Pixel/inch CMYK	2000 x 338	64	JPG
Thumbnail 85 Pixel	85 x 14	1	GIF
Low Resolution 300 Pixel	300 x 50	2	GIF
Low Resolution 150 Pixel	150 x 25	1	GIF
Medium Resolution 600 Pixel RGB	600 x 101	8	JPG
High Resolution 2000pix/400dpi CMYK	2000 x 338	520	TIF

ALTO® Energy

General

Lamp Description
High performance, long life, environmentally-friendly and 25 watt Econ-o-watt Fluorescent lamp.

Features/Benefits

- Replace standard 32 watt T8 lamps with Philips 25 watt T8 lamps and save 2 watts per lamp instantly.
- Operates on any standard Instant Start system.
- Low mercury; TCLP* compliant.
- Energy efficient.
- Long Life.
- Sustainable lighting solution; less mercury and energy efficiency and long life reduces the impact on the environment.
- Our Green End-Caps mean you are using energy efficiently.
- HI-VISION® Phosphor combined with Philips' long life maintenance; reduced lamp-end blackening.
- 85 CRI for TL80 lamps.

ALTO® Energy Advantage™ T8

Specs

BASIC SPECIFICATIONS - LAMPS

Product number	Name	Wattage	Excitation	Feature	Pack Type
137810	F32T8	25W	EW	ALTO	11L
137828	F32T8	25W	EW	ALTO	11L
137836	F32T8	25W	EW	ALTO	11L
137844	F32T8	25W	EW	ALTO	11L
147922	F32T8	28W	EW	ALTO	25L
147930	F32T8	26W	EW	ALTO	25L
147948	F32T8	26W	EW	ALTO	25L
147955	F32T8	28W	EW	ALTO	25L
387803	F32T8	30W	EW	ALTO	11L
387811	F32T8	30W	EW	ALTO	11L

TradelinkSM

Check order status, order entry, and product updates

Navigation: [About Philips](#) [Consumer Products](#) [Lighting](#) [Medical Systems](#) [Semiconductors](#)

Lighting

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- TradeLink Global
- Quick Reference
- Registration

Philips TradelinkSM

Welcome to Philips TRADELINK SM

Philips TradeLink is a place where you'll always find the lights on. Now you can have the answers you want when you want them - 24 hours a day. You can order and track product shipments, receive up-to-the-minute product updates - even order marketing literature and register on-line for welcome package. We never turn the light off, so you can always find what you're looking for. Click [here](#) for quick reference of the functions provided by TradeLink web site.

Current Users Login

User ID

Password

[Have a login issue?](#)

Lighting Application Center

General info and registration

Semiconductors

Lighting

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+ Images

Show max. 10

Lighting	Packing Configuration	Base	Base
25	Medium Bi-Pin	G	
25	Medium Bi-Pin	G	
25	Medium Bi-Pin	G	
25	Medium Bi-Pin	G	
25	Medium Bi-Pin	G	
25	Medium Bi-Pin	G	
25	Medium Bi-Pin	G	
25	Medium Bi-Pin	G	
25	Medium Bi-Pin	G	
25	Medium Bi-Pin	G	

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eCatalog

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Breakthrough Products

Special Offers

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- Environment & Sustainability

Lighting Application Center

Experience Light

See what's possible at the Lighting Application Center.

Browse Literature

You can find all of our literature online including: catalogs/brochures, product bulletins, technical data sheets, case studies, photometric data

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Professional Lighting

Helping you change the environment inside.

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 - Product Bulletins**
 - Incandescent
 - Halogen
 - Fluorescent
 - Compact Fluorescent
 - HID
 - Specialty/SSTV
 - Solid State Lighting
 - Technical Data Sheets

Literature - Compact Fluorescent

P-Number	Description	PDF
PL Lamps		
P-3541-E	PL-T 57W 4-Pin	
P-3544-D	PL-S 2 Pin	
P-3545-B	PL-C 2-Pin	
P-5295-B	PL-C 4-pin	
P-5611-B	PL-H Compact Fluorescent Lamps	
P-5768	PL-L Long Fluorescent Lamps	
Marathon[™]		
P-3754-B	Marathon Energy Saver Universal	
P-3756-B	Marathon Energy Saver Flood—R30 and R40	
P-4000-B	Marathon Energy Saver Décor Globe	
P-4001-A	Marathon Energy Saver Bug-A-Way	

PL-H
Heightened possibilities with compact fluorescent lighting! PL-H is ideal for indoor and outdoor applications including:

- Canopy lighting
- Flood lighting
- Parking garages
- Gymnasiums
- Indirect wall washing
- Downlighting
- Outdoor architectural

Energy savings made simple

Philips Marathon[®] Compact Fluorescent Lamps

PHILIPS

Philips Advantage T8 Fluorescent Lamps
featuring ALTO[®] Lamp Technology

High Performance, Long Life, Environmentally-Responsible Lamps

- High Performance**
-200 lumens is 10% more than standard T8 lamps
-Up to 35,000 hours rated average life
-50% more life than standard T8 lamps means reduced maintenance and disposal costs
-Energy efficient
- Long Life**
-Up to 35,000 hours rated average life
-50% more life than standard T8 lamps means reduced maintenance and disposal costs
-Energy efficient
- Environmentally Responsible**
-Low mercury T8-Lamp compliance
-Long life
- Sustainable Lighting Solution**
Less mercury and lower lamp waste in landfills, combined with energy efficiency, reduces the impact on the environment.
- Look for the Green End-Cap[®]**
Our Green End-Cap[®] means you are using ALTO[®] environmentally-responsible lamps.
- Ultimate System Solution**
-Higher lumens enables multiple system options to maximize energy saving and reduce lighting costs.
-Fully dimmable without flicker
-Ideal for light harvesting
- Outstanding Lumen Maintenance**
-In 100,000 hours, Philips Advantage T8 lamps maintain 90% of their original lumen output.
-Reduced lamp and ballast failure
- Enhanced CRI**
-90 CRI for T8 lamps

Philips Advantage T8 Warranty: 36 months

Philips Advantage Lamp Rated Average Life Based on 10 Hours Per Day	Philips Advantage Lamp Rated Average Life Based on 12 Hours Per Day																
<table border="1"> <tr> <th>Rated Average Life in Hours</th> <th>Rated Average Life in Years</th> </tr> <tr> <td>35,000</td> <td>10</td> </tr> <tr> <td>35,000</td> <td>10</td> </tr> <tr> <td>35,000</td> <td>10</td> </tr> </table>	Rated Average Life in Hours	Rated Average Life in Years	35,000	10	35,000	10	35,000	10	<table border="1"> <tr> <th>Rated Average Life in Hours</th> <th>Rated Average Life in Years</th> </tr> <tr> <td>35,000</td> <td>10</td> </tr> <tr> <td>35,000</td> <td>10</td> </tr> <tr> <td>35,000</td> <td>10</td> </tr> </table>	Rated Average Life in Hours	Rated Average Life in Years	35,000	10	35,000	10	35,000	10
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35,000	10																
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35,000	10																
Rated Average Life in Hours	Rated Average Life in Years																
35,000	10																
35,000	10																
35,000	10																

PHILIPS

Sephora's Beauty Wonderland

Philips Advantage T8 lamps are the only lamps in the world that have an open self-cleaning mechanism. The self-cleaning mechanism is a unique feature that allows the lamp to clean itself during operation. This is achieved by the use of a special coating that allows the lamp to clean itself during operation. This is achieved by the use of a special coating that allows the lamp to clean itself during operation.

PHILIPS

Incandescent Lighting

Create a brighter standard

Bad lighting can make people and objects look washed out. **Philips Natural Light Bulbs** help you see things the way they should be. Natural Light's distinctive blue coating reduces dull light effects to provide light that is more vibrant and natural. Natural Light brings out the true colors of people and the décor.

Philips DuraMax® Long Life Light Bulbs reduce the hassle of replacing light bulbs every few months, since all DuraMax products last longer than standard incandescent light bulbs. A wide assortment of shapes, sizes and wattages ensures that there is a DuraMax product to meet most basic lighting needs.

Philips Family of Specialty Incandescents provide the perfect light for dramatic accents and display lighting as well as general lighting in a variety of applications. From tubular shapes and appliance bulbs, to colored lamps made specifically for holiday, party or special effects lighting, this family of lamps has everything needed for professional and consumer applications.





Incandescent Lighting

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Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCEP*	Lumens
DuraMax® Long Life Soft White														
15	A-15	Med.	16860-9	▲	15A/WL 12/2	120	24	Soft White Long Life	B, C-9		3 ½	3000		115
25	A-19	Med.	16868-2	▲	25A/WL 12/2	120	24	Soft White Long Life	C, CC-6		4 ⅞	3000		235
30	A-21	3 Ct.	16947-4	▲ (8)	30/100A/WL 12/1	120	12	Soft White Long Life	C, 2CC-8		5 ⅞	1750		285
70		Med.						3-Way						920
100														1205
40	A-19	Med.	16869-0	▲	40A/WL 12/4	120	48	Soft White Long Life	C, CC-6		4 ⅞	1500		475
			16737-9	▲	40A/WL 24/4	120	96	Soft White Long Life	C, CC-6		4 ⅞	1500		475
50	A-21	3 Ct.	16948-2	▲ (8)	50/150A/WL 12/1	120	12	Soft White Long Life	C, 2CC-8		5 ⅞	1750		575
100		Med.						3-Way						1440
150														2015
50	A-21	3 Ct.	16949-0	▲ (8)	50/250A/WL 12/1	120	12	Soft White Long Life	C, 2CC-8		5 ⅞	1750		575
200		Med.						3-Way						3120
250														3695
60	A-19	Med.	16874-0	▲	60A/WL 12/4	120	48	Soft White Long Life	C, CC-6		4 ⅞	1500		830
			16738-7	▲	60A/WL 24/4	120	96	Soft White Long Life	C, CC-6		4 ⅞	1500		830
75	A-19	Med.	16879-9	▲	75A/WL 12/4	120	48	Soft White Long Life	C, CC-6		4 ⅞	1500		1040
			16739-5	▲	75A/WL 24/4	120	96	Soft White Long Life	C, CC-6		4 ⅞	1500		1040
100	A-19	Med.	16862-5	▲	100A/WL 12/4	120	48	Soft White Long Life	C, CC-8		4 ⅞	1500		1550
			16740-3	▲	100A/WL 24/4	120	96	Soft White Long Life	C, CC-8		4 ⅞	1500		1550
150	A-21	Med.	16866-6	▲	150A/WL 12/1	120	12	Soft White Long Life	C, CC-8		5 ⅞	1500		2310
200	A-21	Med.	16867-4	▲	200A/WL 6/1	120	6	Soft White Long Life	C, CC-8		5 ⅞	1500		3300

DuraMax® Long Life Globes

25	G-25	Med.	16748-6	▲	25G25/W/LL 12/1	120	12	White Long Life Globe	C, CC-6		4 ⅞	2000		210
			16887-2	▲	25G25/CL/LL 12/1	120	12	Clear Long Life Globe	C, CC-6		4 ⅞	2000		235
			16901-1	▲	25G25/CL/LL 4/3	120	12	Clear Long Life Globe	C, CC-6		4 ⅞	2000		235
			16902-9	▲	25G25/W/LL 4/3	120	12	White Long Life Globe	C, CC-6		4 ⅞	2000		210
40	G-25	Med.	16903-7	▲	40G25/CL/LL 4/3	120	12	Clear Long Life Globe	C, CC-6		4 ⅞	2000		460
			16904-5	▲	40G25/W/LL 4/3	120	12	White Long Life Globe	C, CC-6		4 ⅞	2000		415
			16746-0	▲	40G25/W/LL 12/1	120	12	White Long Life Globe	C, CC-6		4 ⅞	2000		415
			16747-8	▲	40G25/CL/LL 12/1	120	12	Clear Long Life Globe	C, CC-6		4 ⅞	2000		460
			16702-3	▲	40G25/CT 6/1	120	6	Clear Long Life Chrome Top	C, C-9		4 ⅞	2000		200
	G-40	Med.	16857-5	▲	40G40/CL/LL 6/1	120	6	Clear Long Life Globe	C, C-9		6 ⅞	3000		372
			16858-3	▲	40G40/W/LL 6/1	120	6	White Long Life Globe	C, C-9		6 ⅞	3000		335
60	G-25	Med.	16749-4	▲	60G25/W/LL 12/1	120	12	White Long Life Globe	C, CC-6		4 ⅞	2000		700
			16896-2	▲	60G25/CL/LL 12/1	120	12	Clear Long Life Globe	C, CC-6		4 ⅞	2000		775
			16899-6	▲	60G25/CL/LL 4/3	120	12	Clear Long Life Globe	C, CC-6		4 ⅞	2000		775
			16900-3	▲	60G25/W/LL 4/3	120	12	White Long Life Globe	C, CC-6		4 ⅞	2000		700
	G-30	Med.	16849-2	▲	60G30/W/LL 6/1	120	6	White Long Life Globe	C, C-9		5 ½	3000		580
	G-40	Med.	16851-8	▲	60G40/W/LL 6/1	120	6	White Long Life Globe	C, C-9		6 ⅞	3000		595
			16852-6	▲	60G40/CL/LL 6/1	120	6	Clear Long Life Globe	C, C-9		6 ⅞	3000		665
100	G-25	Med.	13423-9	▲	100G25/W/LL 12/1	120	12	White Long Life Globe	C, CC-6		4 ⅞	2000		1180
	G-30	Med.	16850-0	▲	100G30/W/LL 6/1	120	6	White Long Life Globe	C, C-9		5 ½	3000		945
	G-40	Med.	16853-4	▲	100G40/W/LL 6/1	120	6	White Long Life Globe	C, C-9		6 ⅞	3000		985
			16859-1	▲	100G40/CL/LL 6/1	120	6	Clear Long Life Globe	C, C-9		6 ⅞	3000		1100
150	G-40	Med.	16854-2	▲	150G40/W/LL 6/1	120	6	White Long Life Globe	C, C-9		6 ⅞	3000		1770

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Incandescent symbols and footnotes located on page 44

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCP*	Lumens
DuraMax® Long Life Reflectors														
30	R-20	Med.	16753-6	▲ (87)	30R20/LL 12/I	120	12	Frost Long Life Reflector	C, CC-6		3 1/8	2500	350	205
45	BR-30	Med.	16751-0	▲ (87)	45BR30/FL55/LL 12/I	120	12	Long Life Reflector Flood	C, CC-6		5 3/8	2500		340
50	BR-19	Med.	16750-2	▲ (87)	50BR19/25/SP/LL 12/I	120	12	Long Life Spotline Reflector	C, CC-11		4 1/8	2500	700	385
	R-20	Med.	16755-1	▲ (87)	50R20/LL 12/I	120	12	Frost Long Life Reflector	C, CC-6		3 1/8	2500	600	385
65	BR-30	Med.	16768-4	▲ (87)	65BR30/FL55/LL 12/I	120	12	Long Life Reflector Flood	C, CC-6		5 3/8	2500	510	595
			16769-2	▲ (87)	65BR30/SP20/LL 12/I	120	12	Long Life Reflector Spot	C, CC-6		5 3/8	2500	530	610
	BR-40	Med.	16741-1	▲ (87)	65BR/FL60/LL 8/I	120	8	Long Life Reflector Flood	C, CC-6		6 1/2	2500	500	630
75	R-20	Med.	16763-5	▲ (87)	75R20/LL 12/I	120	12	Frost Long Life Reflector	C, CC-6		3 1/8	2500	1250	570
85	BR-30	Med.	16766-8	▲ (87)	85BR30/FL55/LL 6/I	120	6	Long Life Reflector Flood	C, CC-6		5 3/8	2500	700	855
			16767-6	▲ (87)	85BR30/SP20/LL 6/I	120	6	Long Life Reflector Spot	C, CC-6		5 3/8	2500	3100	865
	BR-40	Med.	16785-8	▲ (87)	85BR/FL60/LL 8/I	120	8	Long Life Reflector Flood	C, CC-6		6 1/2	2500	700	900
			16788-2	▲ (87)	85BR/SP20/LL 8/I	120	8	Long Life Reflector Spot	C, CC-6		6 1/2	2500	3100	900
100	R-20	Med.	16701-5	▲ (87)	100R20/LL 12/I	120	12	Frost Long Life Reflector	C, CC-6		3 1/8	2500		935
120	BR-40	Med.	16779-1	▲ (87)	120BR/FL60/LL 8/I	120	8	Long Life Reflector Flood	C, CC-6		6 1/2	2500	1000	1285
			16781-7	▲ (87)	120BR/SP20/LL 8/I	120	8	Long Life Reflector Spot	C, CC-6		6 1/2	2500	4600	1225

DuraMax® Long Life Sparkling Clear

40	A-19	Med.	16797-2	▲	40A/CL/LL 12/2	120	24	Clear Long Life	C, CC-6		4 1/8	1500		505
60	A-19	Med.	16794-0	▲	60A/CL/LL 12/2	120	24	Clear Long Life	C, CC-6		4 1/8	1500		900
75	A-19	Med.	16801-3	▲	75A/CL/LL 12/2	120	24	Clear Long Life	C, CC-6		4 1/8	1500		1080
100	A-19	Med.	16795-6	▲	100A/CL/LL 12/2	120	24	Clear Long Life	C, CC-6		4 1/8	1500		1470
150	A-21	Med.	16799-8	▲	150A/CL/LL 12/I	120	12	Clear Long Life	C, CC-8		5 3/8	1500		2570
200	A-23	Med.	16798-0	▲	200A/CL/LL 6/I	120	6	Clear Long Life	C, CC-8		6 3/8	1500		3665

DuraMax® Long Life Fan Lights

40	A-15	Med.	16934-2	▲	BC40A15/FAN/CL/LL 6/2	120	12	Clear Long Life Fan	C, CC-2R		3 1/2	2000		395
			16935-9	▲	BC40A15/FAN/W/LL 6/2	120	12	White Long Life Fan	C, CC-2R		3 1/2	2000		365
60	A-15	Med.	16945-8	▲	BC60A15/FAN/W/LL 6/2	120	12	White Long Life Fan	C, CC-2R		3 1/2	2000		570
			16946-6	▲	BC60A15/FAN/CL/LL 6/2	120	12	Clear Long Life Fan	C, CC-2R		3 1/2	2000		630

DuraMax® Long Life Decoratives

3	CA-10	Med.	16697-4	▲ (12)	BC3CA10/CL/LL 6/I	120	6	Clear Long Life Flicker Flame	B, CC-2V		3 3/8	2000		
		Cand.	16698-2	▲ (12)	BC3CA10C/CL/LL 6/I	120	6	Clear Long Life Flicker Flame	B, CC-2V		4 1/8	2000		
15	BA-9	Cand.	16811-2	▲ (12)	BC15BA9C/CL/LL 6/2	120	12	Clear Long Life Bent Tip	B, CC-2V C-7A		4 3/8	2000		110
			16696-6	▲ (12)	BC15BA9C/CL/LL 6/4	120	24	Clear Long Life Bent Tip	B, CC-2V C-7A		3 3/8	2000		110
	F-10	Cand.	16830-2	▲ (12)	BC15F10C/CL/LL 6/2	120	12	Clear Long Life Flame	B, C-7A		3 3/8	2000		95
			16831-0	▲ (12)	BC15F10C/A/LL 6/2	120	12	Amber Long Life Flame	B, C-7A		3 3/8	2000		85
25	BA-9	Cand.	16719-7	▲ (12)	BC25BA9C/CL/LL 6/4	120	24	Clear Long Life Bent Tip	C, CC-2V C-7A		4 3/8	2000		150
			16806-2	▲ (12)	BC25BA9C/CL/LL 6/2	120	12	Clear Long Life Bent Tip	C, CC-2V C-7A		4 3/8	2000		150
			16810-4	▲ (12)	BC25BA9C/F/LL 6/2	120	12	Frost Long Life Bent Tip	C, CC-2V C-7A		4 3/8	2000		145
	BA-9 1/2	Med.	16819-5	▲ (12)	BC25BA9-1/2/CL/LL 6/2	120	12	Clear Long Life Bent Tip	C, CC-2V C-7A		4 3/8	2000		150
	B-10 1/2	Cand.	16824-5	▲ (12)	BC25B10-1/2C/CL/LL 6/2	120	12	Clear Long Life Blunt Tip	C, C-7A		4 3/8	2000		150
	B-13	Med.	16827-8	▲ (12)	BC25B13/CL/LL 6/2	120	12	Clear Long Life Blunt Tip	C, C-7A		4 3/8	2000		150
	CA-8	Cand.	13568-1	▲ (12)	BC25CA8C/CL/LL 6/2	120	12	Clear Petite Long Life Bent Tip	C, CC-2V		3 1/2	2000		220
	F-10	Cand.	16832-8	▲ (12)	BC25F10C/CL/LL 6/2	120	12	Clear Long Life Flame	B, C-7A		3 3/8	2000		105

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Incandescent symbols and footnotes located on page 44

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCP*	Lumens
25	F-15	Med.	I6833-6	▲ (12)	BC25F15/CL/LL 6/2	120	12	Clear Long Life Flame	B, C-9		4 ½	2000		150
			I6839-3	▲ (12)	BC25F15/IR/LL 6/2	120	12	Incandescent Long Life Flame	C, C-9		4 ½	2000		150
			I6840-1	▲ (12)	BC25F15/W/LL 6/2	120	12	White Long Life Flame	C, C-9		4 ½	2000		120
			I6841-9	▲ (12)	BC25F15/A/LL 6/2	120	12	Amber Long Life Flame	B, C-9		4 ½	2000		130
	G-16 ½	Cand.	I6845-0	▲ (12)	BC25G16-1/2C/CL/LL 6/2	120	12	Clear Long Life Globe	B, CC-2V C-7A		3	2000		200
			I6847-6	▲ (12)	BC25G16-1/2C/W/LL 6/2	120	12	White Long Life Globe	B, CC-2V C-7A		3	2000		165
		Med.	I3535-0	▲ (12)	BC25G16-1/2/CL/LL 6/2	120	12	Clear Long Life Globe	C, CC-2V		2 ¾	2000		180
			I3534-3	▲ (12)	BC25G16-1/2/W/LL 6/2	120	12	White Long Life Globe	C, CC-2V		2 ¾	2000		120
40	BA-9	Cand.	I6720-5	▲ (12)	BC40BA9C/CL/LL 6/4	120	24	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ⅙	2000		300
			I6807-0	▲ (12)	BC40BA9C/CL/LL 6/2	120	12	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ⅙	2000		300
			I6809-6	▲ (12)	BC40BA9C/F/LL 6/2	120	12	Frost Long Life Bent Tip	C, CC-2V C-7A		4 ⅙	2000		295
	BA-9 ½	Med.	I6760-1	▲ (12)	BC40BA9-1/2/CL/LL 6/4	120	24	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ⅙	2000		300
			I6820-3	▲ (12)	BC40BA9-1/2/CL/LL 6/2	120	12	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ⅙	2000		300
			I6821-1	▲ (12)	BC40BA9-1/2/F/LL 6/2	120	12	Frost Long Life Bent Tip	C, CC-2V C-7A		4 ⅙	2000		295
	B-10 ½	Cand.	I6825-2	▲ (12)	BC40B10-1/2C/CL/LL 6/2	120	12	Clear Long Life Blunt Tip	C, C-7A		4 ⅙	2000		300
	B-13	Med.	I6828-6	▲ (12)	BC40B13/CL/LL 6/2	120	12	Clear Long Life Blunt Tip	C, C-7A		4 ⅙	2000		300
	F-15	Med.	I6835-1	▲ (12)	BC40F15/CL/LL 6/2	120	12	Clear Long Life Flame	C, C-9		4 ½	2000		385
			I6837-7	▲ (12)	BC40F15/IR/LL 6/2	120	12	Incandescent Long Life Flame	C, C-9		4 ½	2000		370
			I6838-5	▲ (12)	BC40F15/W/LL 6/2	120	12	White Long Life Flame	C, C-9		4 ½	2000		300
	G-16 ½	Cand.	I6846-8	▲ (12)	BC40G16-1/2C/CL/LL 6/2	120	12	Clear Long Life Globe	C, CC-2V C-7A		3	2000		300
			I6848-4	▲ (12)	BC40G16-1/2C/W/LL 6/2	120	12	White Long Life Globe	C, CC-2V C-7A		3	2000		245
		Med.	I3537-6	▲ (12)	BC40G16-1/2/CL/LL 6/2	120	12	Clear Long Life Globe	C, CC-2V		2 ¾	2000		300
			I3536-8	▲ (12)	BC40G16-1/2/W/LL 6/2	120	12	White Long Life Globe	C, CC-2V		2 ¾	2000		270
60	BA-9	Cand.	I6808-8	▲ (12)	BC60BA9C/CL/LL 6/2	120	12	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ⅙	2000		550
			I6721-3	▲ (12)	BC60BA9C/CL/LL 6/4	120	24	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ⅙	2000		550
			I6805-4	▲ (12)	BC60BA9C/F/LL 6/2	120	12	Frost Long Life Bent Tip	C, CC-2V C-7A		4 ⅙	2000		545
	BA-9 ½	Med.	I6822-9	▲ (12)	BC60BA9-1/2/CL/LL 6/2	120	12	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ⅙	2000		550
			I6823-7	▲ (12)	BC60BA9-1/2/F/LL 6/2	120	12	Frost Long Life Bent Tip	C, CC-2V C-7A		4 ⅙	2000		545
	B-10 ½	Cand.	I6826-0	▲ (12)	BC60B10-1/2C/CL/LL 6/2	120	12	Clear Long Life Blunt Tip	C, C-7A		4 ⅙	2000		550
	B-13	Med.	I6829-4	▲ (12)	BC60B13/CL/LL 6/2	120	12	Clear Long Life Blunt Tip	C, C-7A		4 ⅙	2000		550
	F-15	Med.	I6842-7	▲ (12)	BC60F15/CL/LL 6/2	120	12	Clear Long Life Flame	C, C-9		4 ½	2000		630
	G-16 ½	Cand.	I6699-0	▲ (12)	BC60G16-1/2C/CL/LL 6/2	120	12	Clear Long Life Globe	C, CC-2V C-7A		3	2000		540
			I6700-7	▲ (12)	BC60G16-1/2C/W/LL 6/2	120	12	White Long Life Globe	C, CC-2V C-7A		3	2000		450
			I3538-4	▲ (12)	BC60G16-1/2/CL/LL 6/2	120	12	Clear Long Life Globe	C, CC-2V		2 ¾	2000		540
			I3530-1	▲ (12)	BC60G16-1/2/W/LL 6/2	120	12	White Long Life Globe	C, CC-2V		2 ¾	2000		420
100	F-20	Med.	I6844-3	▲ (12)	I00F20/POSTLT/CL/LL 6/1	120	6	Clear Long Life PostLight	C, C-9		5 ⅙	4000		1250

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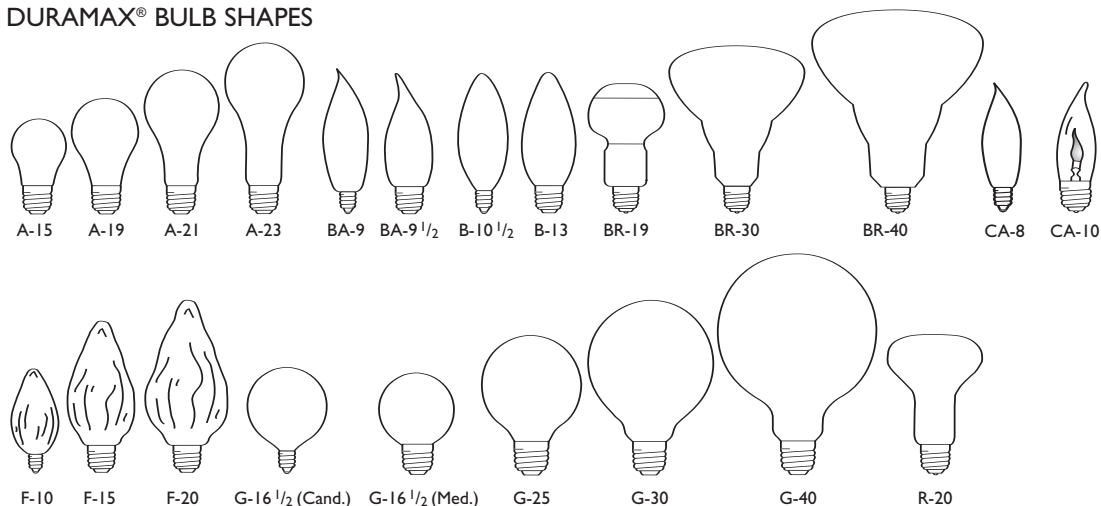
Natural Light

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCP*	Lumens
Natural Light Standard													
NEW! 40	A-19	Med.	13558-2 ▲		40A/NTL 12/4	120	48	Natural Light Standard	C,CC-6	4 1/6	1000		400
60	A-19	Med.	13559-0 ▲		60A/NTL 12/4	120	48	Natural Light Standard	C,CC-6	4 1/6	1000		680
75	A-19	Med.	13560-8 ▲		75A/NTL 12/4	120	48	Natural Light Standard	C,CC-6	4 1/6	750		950
100	A-19	Med.	13561-6 ▲		100A/NTL 12/4	120	48	Natural Light Standard	C,CC-6	4 1/6	750		1350
Natural Light 3-Way													
NEW! 50	A-21	3 Ct.	13564-0 ▲ (8)		50/150A/NTL 12/1	120	12	Natural Light 3-Way	C, 2CC-8	5 3/8	1200		490
100		Med.											1250
150													1740
Natural Light Globe													
NEW! 40	G-25	Med.	13563-3 ▲		40G25/NTL 6/1	120	6	Natural Light Globe	C,CC-6	4 1/6	1500		320
60	G-25	Med.	13562-4 ▲		60G25/NTL 6/1	120	6	Natural Light Globe	C,CC-6	4 1/6	1500		560
Natural Light Fan													
NEW! 40	A-15	Med.	13565-7 ▲		BC40A15/NTL 6/2	120	6	Natural Light Fan	C,CC-2R	3 1/2	1500		340
Natural Light Reflector													
NEW! 50	R-20	Med.	13797-5 ▲ (87)		50R20/FL/NTL 12/1	120	12	Natural Light Reflector	C,CC-6	3 1/6	2000		265
65	BR-30	Med.	13785-1 ▲ (87)		65BR30/FL/NTL 12/1	120	12	Natural Light Reflector	C,CC-6	5 3/8	2000		500
85	BR-40	Med.	14579-7 ▲ (87)		85BR/FL/NTL 8/1	120	8	Natural Light Reflector	C,CC-6	6 1/2	2000		640
Natural Light Decorative													
NEW! 40	G16 1/2	Cand.	14129-1 ▲ (12)		BC40G16-1/2C/NTL 6/2	120	12	Natural Light Decorative	C, C-7A	3	2000		270
	B10 1/2	Cand.	14125-9 ▲ (12)		BC40B10-1/2C/NTL 6/2	120	12	Natural Light Decorative	C, C-7A	4 1/6	2000		270
	B13	Med.	14127-5 ▲ (12)		BC40B13/NTL 6/2	120	12	Natural Light Decorative	C, C-7A	4 1/6	2000		270
60	G16 1/2	Cand.	14130-9 ▲ (12)		BC60G16-1/2C/NTL 6/2	120	12	Natural Light Decorative	C, C-7A	3	2000		510
	B10 1/2	Cand.	14126-7 ▲ (12)		BC60B10-1/2C/NTL 6/2	120	12	Natural Light Decorative	C, C-7A	4 1/6	2000		510
	B13	Med.	14128-3 ▲ (12)		BC60B13/NTL 6/2	120	12	Natural Light Decorative	C, C-7A	4 1/6	2000		510

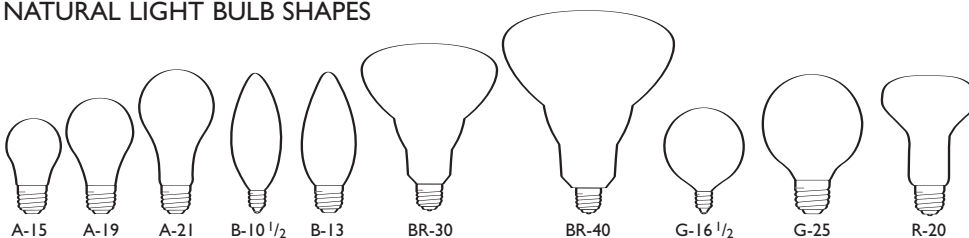
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DURAMAX® BULB SHAPES



NATURAL LIGHT BULB SHAPES



Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCP*	Lumens
3	S-6	Cand.	37374-6	▲	3S6/5	120-130	48	Clear Indicator	B, C-7A		1 7/8	3000		12
4	C-7	Cand.	25706-3	▲	BC4C7 12/2	120	24	Clear Night Light	B, C-7A		2 7/8	3000		16
			24741-1	▲	BC4C7/4 12/4	120	48	Clear Night Light	B, C-7A		2 7/8	3000		16
			25708-9	▲	BC4C7/W 12/2	120	24	White Night Light	B, C-7A		2 7/8	3000		14
6	S-6	Cand.	23443-5	▲	6S6	12	48	Clear Indicator	B, C-2V		1 7/8	1500		48
			23449-2	▲	6S6	24	48	Clear Indicator	B, C-2V		1 7/8	1500		53
			23451-8	▲	6S6	30	48	Clear Train	B, C-2V		1 7/8	1500		52
			23458-3		6S6/BR	32	48	Clear Train	B, C-2V		1 7/8	1500		51
			24835-1		6S6	120-130	48	Clear Indicator	B, C-7A		1 7/8	1500		39
			23461-7		6S6	135	48	Clear Indicator	B, C-7A		1 7/8	1500		38
			23462-5		6S6	145	48	Clear Indicator	B, C-7A		1 7/8	1500		37
			23476-5		6S6	155	48	Clear Indicator	B, C-7A		1 7/8	1500		37
			23477-3		6S6/3	130	48	Clear Vibration	B, C-7A		1 7/8	1500		18
		Inter.	23479-9		6S6/7	120	48	Clear Indicator	B, C-7A		1 3/8	1500		39
		D.C. Bay	37376-1		6S6DC	120-130	48	Clear Indicator	B, C-7A	1 7/8	1 3/8	1500		39
			23483-1		6S6DC	145	48	Clear Indicator	B, C-7A	1 7/8	1 3/8	1500		37
	T-4 1/2	Cand.	37377-9	▲	6T4 1/2 I	120-130	24	Clear Indicator	B, C-7A		1 7/8	1500		34
7	C-7	Cand.	37378-7	▲	7C7	120-130	24	Clear Indicator	B, C-7A		2 7/8	3000		45
			23643-0	▲	7C7/W	120	24	White Night Light	B, C-7A		2 7/8	3000		35
			25714-7	▲	BC7C7/W 12/2	120	24	White Night Light	B, C-7A		2 7/8	3000		35
			23635-6	▲	7C7/O 24PK	120	24	Orange Indicator	B, C-7A		2 7/8	3000		16
			23636-4	▲	7C7/R 24PK	120	24	Red Indicator	B, C-7A		2 7/8	3000		13
7 1/2	S-11	Med.	24811-2	▲	7 1/2 S	120-130	24	Clear	B, C-7A		2 7/8	1400		45
			37380-3	▲	7 1/2 S/W	120-130	24	White Night Light	B, C-7A		2 7/8	1400		35
			23611-7	▲	7 1/2 S/O 24PK	120	24	Orange	B, C-7A		2 7/8	1400		18
10	C-7	Cand.	24812-0	(3)	10C7	120	24	Clear Indicator	B, C-7A		2 7/8			50
		D.C. Bay	23639-8	▲ (3)	10C7DC	120	24	Clear Indicator	B, C-7A		2 7/8			50
	S-6	Cand.	23485-6	▲	10S6/10	230	48	Clear Indicator	B, C-7A		1 7/8	1500		65
			23488-0	▲	10S6/10	250	48	Clear Indicator	B, C-7A		1 7/8	1500		65
	S-11	Cand.	23598-6	▲	10S11/79	120	24	Clear Indicator	B, C-7A	1 7/8	2 7/8	1500		70
		Inter.	23606-7	▲	10S11N/IF	120	24	Frost Appliance	B, C-7A		2 7/8	1500		70
			37381-1	▲	10S11N	120-130	24	Clear	B, C-7A	1 7/8	2 7/8	1500		70
	S-14	Med.	21308-2	X	10S14/IF	130	120	Frost Sign	B, C-9		3 7/8	1500		
			13828-9		10S14/IF	130	120	Frost Sign	B, C-9		3 7/8	1500		72
			13829-7		10S14	120-130	120	Clear Sign	B, C-9		3 7/8	1500		72
11	S-14	Med.	38025-3	X	11S14/Y	130	120	Yellow Sign	B, C-9		3 7/8	3000		
			13831-3		11S14/Y 24/I	130	24	Yellow Sign	B, C-9		3 7/8	3000		
			13833-9		11S14/TB 24/I	130	24	Transparent Blue Sign	B, C-9		3 7/8	3000		
			39006-2	X	11S14/TR	130	120	Transparent Red Sign	B, C-9		3 7/8	3000		
			13832-1		11S14/TR 24/I	130	24	Transparent Red Sign	B, C-9		3 7/8	3000		
			39095-5	X	11S14/TY	130	120	Transparent Yellow Sign	B, C-9		3 7/8	3000		
			13834-7		11S14/TY 24/I	130	24	Transparent Yellow Sign	B, C-9		3 7/8	3000		
			373837		11S14	130	24	Clear Sign	B, C-9		3 7/8	3000		77
15	A-15	Med.	37384-5	▲	15A15	120-130	120	Frost	B, C-9		3 7/8	2500		110
			37385-2	▲	15A15/CL	120-130	120	Clear	B, C-9	2 7/8	3 7/8	2500		110
			21376-9	▲	15A/R	120	60	Red	B, C-9		3 7/8	2500		
			16860-9	▲	15A/WL 12/2	120	24	Soft White Long Life	B, C-9		3 7/8	3000		115
		Med.	25849-1	□	15A15/35	130	60	Frost Industrial Service	B, C-9		3 7/8	3500		113
	S-11	D.C. Bay	23599-4	(12)	15S11/3DC	75	24	Clear Train Marker Control	B, C-7A	1 7/8	2 7/8	1000		140
		Med.	23614-1	▲	15S11/102	120	24	Clear Refrigerator	B, C-7A	1 7/8	2 7/8	400		130
	T-6	Cand.	23582-0	▲	15T6	120	24	Clear Switchboard	B, C-7A		3 7/8	2000		110
			24815-3	▲ (63)	15T6	140-150	24	Clear Switchboard	B, C-7A		3 7/8	2000		100
		D.C. Bay	23590-3		15T6DC	120	24	Clear Switchboard	B, C-7A		3 7/8	2000		110
	T-7	D.C. Bay	22307-3	(4)	15T7DC	120	24	Clear Appliance	B, C-7A		2 7/8			104
		Cand.	22308-1	▲ (4)	15T7C	120	24	Clear Appliance	B, C-7A		2 7/8			104
		Inter.	24816-1	▲ (4)	15T7N	120	24	Clear Appliance	B, C-7A		2 7/8			104
			29904-0	▲ (4)	BC15T7N 12/I	120	12	Clear Appliance	B, C-7A		2 7/8			104
	T-8	Cand.	23591-1	▲	15T8C	120	24	Clear Appliance	B, C-7A		2 7/8	1000		110
		Inter.	23594-5	▲	15T8N	120	24	Clear Appliance	B, C-7A		2 7/8	1000		110
	T-10	Med.	39041-9	▲	BC15T10 6/I	120	6	Frost Showcase	B, C-8		5 7/8	1000		120

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Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCP*	Lumens
17	R-20	Med.	23263-7		17R20	6.3	60	Frost Reflector Lt.	C, C-6		3 1/16	2000		
18	S-11	S.C. Bay	29137-7		18S11/ISC/6	10	120	Railroad Signal	C, CC-6	1 1/4	2 3/8	6000		
20	S-11	S.C. Bay	29139-3		20S11/ISC/6	10	120	Railroad Signal	C, CC-6	1 1/4	2 3/8	6000		
	T-6 1/2	Inter.	24853-4	(3)	20T6-1/2IF	120	24	Frost Exit Sign	B, C-8		5 1/2			150
		D.C. Bay	24839-3	(3)	20T6-1/2DC/IF	120	24	Frost Exit Sign	B, C-8		5 1/2			150
			24838-5	(3)	20T6-1/2DC	120	24	Clear Exit Sign	B, C-8		5 1/2			160
24	T-6 1/2	Inter.	24848-4	□	24T6-1/2IF	120	24	Frost Exit Sign 1 Yr. Life	B, C-8		5 1/2	8760		200
25	A-15	Med.	23165-4	▲	25A15/I	120	120	Frost Refrigerator	B, C-9		3 1/2	1000		205
			16710-6	▲	BC25A15/IF 12/I	120	12	Frost Appliance	B, C-9		3 1/2	1000		210
	A-19	Med.	16868-2	▲	25A/WL 12/2	120	24	Soft White Long Life	C, CC-6		4 7/8	3000		235
			38942-9	▲ X	25A/TG 6/I	120	6	Transparent Green	B, C-9		3 15/16	3000		
			14421-2	▲	25A/TG 6/I	120	6	Transparent Green	B, C-9		3 15/16	3000		
			38943-7	▲ X	25A/TR 6/I	120	6	Transparent Red	B, C-9		3 15/16	3000		
			14422-0	▲	25A/TR 6/I	120	6	Transparent Red	B, C-9		3 15/16	3000		
			38945-2	▲ X	25A/TY 6/I	120	6	Transparent Yellow	B, C-9		3 15/16	3000		
			14423-8	▲	25A/TY 6/I	120	6	Transparent Yellow	B, C-9		3 15/16	3000		
			38946-0	▲ X	25A/TB 6/I	120	6	Transparent Blue	B, C-9		3 15/16	3000		
			14420-4	▲	25A/TB 6/I	120	6	Transparent Blue	B, C-9		3 15/16	3000		
			14152 3	▲	25A	24	120	Frost	C, C-6		4 1/4	1000		320
			14153 1	▲	25A	34	120	Frost Train	C, C-6		4 1/4	1000		270
			25564-6	▲	25A	120	24/2	Frost	C, CC-6		4 7/8	2500		232
			30031-9	▲	25A/TF	120	120	Frost Silicone Coated	B, C-9		3 15/16	2500		
			37988-3	▲ X	25A/B	120	60	Blue	B, C-9		3 15/16	2500		
			14159 8	▲	25A/B	120	60	Blue	B, C-9		3 15/16	2500		
			37994-1	▲ X	25A/G	120	60	Green	B, C-9		3 15/16	2500		
			14161 4	▲	25A/G	120	60	Green	B, C-9		3 15/16	2500		
			37989-1	▲ X	25A/R	120	60	Red	B, C-9		3 15/16	2500		
			14160 6	▲	25A/R	120	60	Red	B, C-9		3 15/16	2500		
			37978-4	▲ X	25A/Y	120	60	Yellow	B, C-9		3 15/16	2500		
			14158 0	▲	25A/Y	120	60	Yellow	B, C-9		3 15/16	2500		
			33365-8	▲	25A19/RS	75	120	Frost Train Rough Ser.	R, C-9		3 15/16	1000		240
			37386-0	▲	25A/RS	120-130	120	Frost Rough Service	R, C-9		3 15/16	1000		235
			37387-8	□	25A19/35	120-130	60	Frost Industrial Service	B, C-9		3 15/16	3500		220
	R-14	Inter.	24828-6	■	25R12/R14N Replaces 25R12N & 25R14	120	24	Mini-Ref. Lt. Fr. Actual Bulb Dia. 1 1/2"	C, CC-2V		2 3/8	1500		200
	S-11	S.C. Bay	29102-1		25S11/4SC/6	10	120	Railroad Signal	C, CC-6	1 1/4	2 3/8	6000		
		Cand.	23603-4	▲ (2)	25S11/2C	120	24	Clear Headlamp	B, C-7A	1 7/8	2 1/4	500		220
	T-6 1/2	Inter.	37388-6	▲	25T6-1/2IF	120-130	24	Frost Appliance	B, C-8		5 1/2	1000		210
			37389-4	▲	25T6-1/2	120-130	24	Clear Appliance	B, C-8		5 1/2	1000		220
		D.C. Bay	37391-0		25T6-1/2DC/IF	120-130	24	Frost Appliance	B, C-8		5 1/2	1000		210
			37392-8		25T6-1/2DC	120-130	24	Clear Appliance	B, C-8		5 1/2	1000		220
	T-8	D.C. Bay	29909-9	(4)	BC25T8DC 12/I	120	12	Clear Appliance	B, C-7A		2 3/8			210
			24827-8	(4)	25T8DC	120	24	Clear Appliance	B, C-7A		2 3/8			210
		Cand.	23592-9	▲ (4)	25T8C	120	24	Clear Appliance	B, C-7A		2 3/8			220
		Inter.	23593-7	▲ (4)	25T8N	120	24	Clear Appliance	B, C-7A		2 3/8			220
	T-10	Med.	39040-1	▲	BC25T10/IF/TP 6/I	120	6	Frost Showcase	B, C-8		5 3/8	1000		235
			13812-3	▲	25T10/IF 24/I	120-130	24	Frost Showcase	B, C-8		5 3/8	1000		235
			38985-8	▲	BC25T10/TP 6/I	120	6	Clear Showcase	B, C-8		5 3/8	1000		240
			13813-1	▲	25T10 24/I	120-130	24	Clear Showcase	B, C-8		5 3/8	1000		240

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Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBGP*	Lumens
30	A-15	Med.	30448-5		30A15	130	120	Frost Sign Service Ratings @ 120V = 27W	C, C-9		3 ½	8000 22828		155 118
			30452-7		30A15/CL	130	120	Clear Sign Service Ratings @ 120V = 27W	C, C-9	2 ¾	3 ½	8000 22828		155 118
	R-20	Med.	22078-0	▲ (87)	30R20 12/I	130	12	Lt. Frost Reflector	C, CC-6		3 ¾	2000		205
			20264-8		30R20/SFL	120	60	Lt. Frost Reflector Sign	C, C-9		3 ¾	6000		150
			22601-9	□ (66)	30R20/SFL/TF	130	60	Frost Silicone Coated Reflector Sign	C, CC-6		3 ¾	6000		135
			16753-6	▲ (87)	30R20/LL 12/I	120	12	Frost Long Life Reflector	C, CC-6		3 ¾	2500	335	205
30 70 100	A-21	3 Ct. Med.	16947-4	▲ (8)	30/100A/WL 12/I	120	12	Soft White Long Life 3-Way	C, 2CC-8		5 ¾	1750		285 920 1205
			36662-5	▲ (8)	30/100A/W 12/I	120	12	Soft White 3-Way	C, 2CC-8		5 ¾	1200		310 945 1255
	A-19	Med.	22145-7		33A19/5	130	60	Clear Sign Ratings @ 120V = 29W	C, C-9		3 ¼	3000 8561		220 168
33			30549-0		33A19/GR/CL	130	60	Clear Sign Ratings @ 120V = 29W	B, C-9		3 ¼	3000 8561		220 168
34	A-19	Med.	22234-9	▲ • \$	40A-34A/EW	120	48	Frost Econ-o-watt	C, CC-6		4 ¾	1500		410
			22235-6	▲ \$	40A-34A/EW	130	48	Frost Econ-o-watt Ratings @ 120V = 30W	C, CC-6		4 ¾	1500 4245		400 305
			37397-7	• \$ X	40A-34A/99/EW	120-130	48	Frost Econ-o-watt Extended Service Ratings @ 120V = 32W	C, CC-6		4 ¾	2500 4250		350 304
40	A-15	Med.	29999-0	▲	BC40A15/CL/LL 12/I	120	12	Clear Longer Life Home Appliance	C, CC-2R		3 ½	1750		400
			37398-5	▲	40A15	120-130	120	Frost Home Appliance	C, CC-2R		3 ½	1000		415
			25109-0	▲ □ (66)	40A15/TF	120-130	120	Frost Refrigerator Silicone Coated	C, CC-2R		3 ½	1000		
			16934-2	▲	BC40A15/FAN/CL/LL 6/2	120	12	Clear Long Life Fan	C, CC-2R		3 ½	2000		395
			16935-9	▲	BC40A15/FAN/W/LL 6/2	120	12	White Long Life Fan	C, CC-2R		3 ½	2000		365
			20002-2	▲	40A15/22	120	120	Clear Home Oven	C, CC-2R		3 ½	1000		420
			13565-7	▲	BC40A15/NTL 6/2	120	6	Natural Light Fan	C, CC-2R		3 ½	1500		340
	A-19	Med.	27081-9	▲	40A 12/4	120	48	Frost	C, CC-6		4 ¾	1500		495
			16797-2	▲	40A/CL/LL 12/2	120	24	Clear Long Life	C, CC-6		4 ¾	1500		505
			16737-9	▲	40A/WL 24/4	120	96	Soft White Long Life	C, CC-6		4 ¾	1500		475
			16869-0	▲	40A/WL 12/4	120	48	Soft White Long Life	C, CC-6		4 ¾	1500		475
			13558-2	▲	40A/NTL 12/4	120	48	Natural Light Standard	C, CC-6		4 ¾	1000		400
			37465-2	▲	40A	120	48	Frost	C, CC-6		4 ¾	1500		495
			37466-0	▲	40A	130	48	Frost Ratings @ 120V = 35W	C, CC-6		4 ¾	1500 4245		490 375
			30033-5	▲ (66)	40A/TF	120	120	Frost Silicone Coated	C, CC-6		4 ¾	1500		
			37399-3	▲	40A/CL	120-130	48	Clear Ratings @ 120V = 37W	C, CC-6	3 ½	4 ¾	1500 2550		500 435
			37400-9	▲	40A/99	120-130	48	Frost Extended Service Ratings @ 120V = 37W	C, CC-6		4 ¾	2500 5100		465 405
			24424-4	▲	BC40A/GD 12/2	120	24	Frost Garage Door	C, C-9		3 ¼	3500		370
			37481-9	▲	40A/W12/4	120	48	Soft White	C, CC-6		4 ¾	1000		500
			37482-7	▲	40A/W/TP 24/4	120	96	Soft White Tra-Pak	C, CC-6		4 ¾	1000		500
			35452-2	▲	40A/YL 12/2	120	24	Bug-A-Way® Yellow Longer Life	C, CC-6		4 ¾	1350		
			23096-1	□	40A19/35	130	48	Frost Industrial Service Ratings @ 120V = 35W	C, C-9		4 ¼	3500 9987		315 240

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			Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCP*	Lumens
40	A-21	Med.	37973-5	X	40A/B	120	120	Blue-Sign	B, C-9		4 7⁄8	1000		
			14336-2		40A/B	120	120	Blue-Sign	B, C-9		4 7⁄8	1000		
			37974-3	X	40A/G	120	120	Green-Sign	B, C-9		4 7⁄8	1000		
			38022-0	X	40A/R	120	120	Red-Sign	B, C-9		4 7⁄8	1000		
			14337-0		40A/R	120	120	Red-Sign	B, C-9		4 7⁄8	1000		
			38024-6	X	40A/Y	120	120	Yellow-Sign	B, C-9		4 7⁄8	1000		
			14338-8		40A/Y	120	120	Yellow-Sign	B, C-9		4 7⁄8	1000		
	K-19	Med.	30728-0	▲	40K19/DL 6/2	120	12	Director®	C, C-9		4 1⁄8	1150		500
	R-14	Med.	35454-8		40R14/SP	120	24	Light Fr. Mini. Refl.	C, CC-2V		2 3⁄8	1500		250
	S-11	Inter.	21216-7	▲	BC40S11/NTP 16/I	120	16	Clear High Intensity	C, CC-2V		2 1⁄4	500		440
			24830-2	▲	40S11N/IF	120	24	Frost High Intensity	C, CC-2V		2 1⁄4	500		420
	T-6 1/2	Inter.	24850-0	▲	40T6-1/2	120	24	Clear Refrigerator	B, C-8		5 1⁄2	1000		350
			24852-6	▲	40T6-1/2IF	120	24	Frost Refrigerator	B, C-8		5 1⁄2	1000		340
			20491-7	▲	BC40T6-1/2/2 12/I	120	12	Clear Refrigerator	B, C-8		5 1⁄2	1000		350
	T-10	Med.	38989 0	▲	BC40T10/IF/TP 6/I	120	6	Frost Showcase	B, C-8		5 3⁄8	1000		420
			13814 9	▲	40T10/IF 24/I	120-130	24	Frost Showcase	B, C-8		5 3⁄8	1000		420
			38988 2	▲	BC40T10/TP 6/I	120	6	Clear Showcase	B, C-8		5 3⁄8	1000		425
13815 6			▲	40T10 24/I	120-130	24	Clear Showcase	B, C-8		5 3⁄8	1000		425	
Med. Pf.		21941-0	X	40T10P	120	60	Aviation Airport Marker	C, CC-2V 1 1⁄2	3 1⁄8	1000		400		
		14406 3		40T10P	120	60	Aviation Airport Marker	C, CC-2V 1 1⁄2	3 1⁄8	1000		400		
		45	BR-30	Med.	16751-0	▲ (87)	45BR30/FL55/LL 12/I	120	12	Long Life Reflector Flood	C, CC-6		5 3⁄8	2500
50	A-19	Med.	34765-8	X	50A	24	120	Frost Train	C, C-6		4 1⁄4	1000		
			14154 9	▲	50A	24	120	Frost Train	C, C-6		4 1⁄4	1000		700
			14155 6	▲	50A	34	120	Frost Train	C, C-6		4 1⁄4	1000		750
			24569-6	▲	50A	250	120	Frost	C, RC-9		3 1⁄8	1000		
			24324-6	▲ X	50A/RS	34	120	Frost Rough Serv.Train	B, C-9		3 1⁄8	1000		500
			14156 4	▲	50A/RS	34	120	Frost Rough Serv.Train	B, C-9		3 1⁄8	1000		500
			24326-1	▲	50A19/RS	75	120	Frost Rough Serv.Train	B, RC-9		3 1⁄8	1000		500
			21952-7	▲	50A19/31	120	120	Clear Commercial Oven	B, C-9	2 1⁄2	3 1⁄8	1000		500
			37403-3	▲	50A/RS	120-130	120	Frost Rough Service Ratings @ 120V =47W	B, RC-9		3 1⁄8	1000		500
			20163-2	▲	50A/RS 12/2	120	24	Frost Rough Service	B, RC-9		3 1⁄8	1000		480
			24572-0	▲	50A/RS	250	120	Frost Rough Service	C, RC-9		3 1⁄8	1000		355
			30034-3	▲ (66)	50A/RS/TF	120-130	120	Frost Rough Service Silicone Coated	B, RC-9		3 1⁄8	1000		
	BR-19	Med.	16750-2	▲ \$ □ (66)	50BR19/25/SP/LL	120	12	Long Life Spotline Reflector	C, CC-11		4 1⁄8	2500	635	385
	BR-30	Med.	24889-8	▲	50BR30/FL	120	12	Reflector Flood	C, CC-6		5 3⁄8	2000		
	ER-30	Med.	37404-1	▲ \$ (87) X	50ER30	120-130	24	Elliptical Reflector	C, CC-6		6 3⁄8	2000		
			14355 2	▲ \$ (87)	50ER30	120-130	24	Elliptical Reflector	C, CC-6		6 3⁄8	2000		400
	PAR-36	M.P.	29603-8		50PAR36/WFL	12	12	Compact Wide Flood	C, C-6		2 3⁄4	2000		
			22859-3		50PAR36/NSP/8	12	12	Compact Narrow Spot	C, C-6		2 3⁄4	2000		
	P-25	3 Ct. Mog.	22018-6	(15)	50/50P25/28	120	60	Clear Marine	C, C-5, C-9	3 3⁄8	5 1⁄8	750		375
	R-20	Med.	22082-2	▲ (87)	50R20 12/I	130	12	Lt. Frost Reflector	C, CC-6		3 1⁄8	2000		380
			26635-3	▲ (19,87) X	50R20/PK	120	60	Pink Reflector	C, CC-6		3 1⁄8	2000		
			14349 5	▲ (19,87)	50R20/PK	120	60	Pink Reflector	C, CC-6		3 1⁄8	2000		
			16755-1	▲ (87)	50R20/LL 12/I	120	12	Frost Long Life Reflector	C, CC-6		3 1⁄8	2500		385
			13797-5	▲ (87)	50R20/FL/NTL 12/I	120	12	Natural Light Reflector	C, CC-6		3 1⁄8	2000		265
			167098	▲ (19,87)	50R20/Agro 12/I	120	12	Agro-Lite Plant Light	C, CC-6		3 1⁄8	2000		
			36671-6	▲ (8)	50/150A/W 12/I	120	12	Soft White 3-Way	C, 2CC-8		5 3⁄8	1200		610
50 100 150	A-21	Med.												1510
														2120
			31739-6	▲ (8)	50/150A/STP/PK 8/I	120	8	Pink Softone Pastel® 3-Way	C, 2CC-8		5 3⁄8	1200		550
														1310
														1860
			13564-0	▲ (8)	50/150A/NTL 12/I	120	12	Natural Light Reflector	C, 2CC-8		5 3⁄8	1200		490
														1250
														1740
			16948-2	▲ (8)	50/150A/WL 12/I	120	12	Soft White Long Life 3-Way	C, 2CC-8		5 3⁄8	1750		575
													1440	
														2015

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Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCP*	Lumens
50 100 150	A-21	3 Ct. Med.	16717-1	▲ (8)	DIS 50/150A/WL 48/I	120	48	Soft White Long Life 3-Way	C, 2CC-8		5 3/8	1750		575 1440 2015
			32359-2	▲ □ (8)	50/150A/DL 12/I	120	12	Director® 3-Way	C, 2CC-8		5 3/8	1200		
50 200 250	A-21	3 Ct. Med.	16949-0	▲ (8)	50/250A/WL 12/I	120	12	Soft White Long Life 3-Way	C, 2CC-8		5 3/8	1750		575 3120 3695
			20555-9	X	51A19/RR/TS	130	20	Clear Ring Reflector Traffic Signal	C, C-7A	2 3/8	3 3/4	8000		380
52	A-19	Med.	22237-2	▲ •	60A-52A/EW	120	48	Frost Econ-o-watt	C, CC-6		4 3/8	1000		700
			22239-8	▲ \$	60A-52A/EW	130	48	Frost Econ-o-watt Ratings @ 120V =46W	C, CC-6		4 3/8	1000		680 550
			37459-5	▲ \$ X	60A-52A/99/EW	120-130	48	Frost Econ-o-watt Extended Service Ratings @ 120V =49W	C, CC-6		4 3/8	2500		605
			14999-6	▲ \$	60A-52A/99/EW	120-130	48	Frost Econ-o-watt Extended Service Ratings @ 120V =49W	C, CC-6		4 3/8	4250 2000		564 660
54	A-19	Med.	37166-6	\$ (12)	K54A19/TS/EW	120-125	120	Clear Krypton Econ-o-watt Traffic Signal	C, C-11V	2 3/8	4 3/8	8000		530
60	A-15	Med.	16945-8	▲	BC60A15/FAN/W/LL 6/2	120	12	White Long Life Fan	C, CC-2R		3 1/2	2000		570
			16946-6	▲	BC60A15/FAN/CL/LL 6/2	120	12	Clear Long Life Fan	C, CC-2R		3 1/2	2000		630
	A-19	Med.	16794-0	▲	60A/CL/LL 12/2	120	24	Clear Long Life	C, CC-6		4 3/8	1500		900
			16738-7	▲	60A/WL 24/4	120	96	Soft White Long Life	C, CC-6		4 3/8	1500		830
			16874-0	▲	60A/WL 12/4	120	48	Soft White Long Life	C, CC-6		4 3/8	1500		830
			13559-0	▲	60A/NTL 12/4	120	48	Natural Light Standard	C, CC-6		4 3/8	1000		680
			27082-7	▲ •	60A 12/4	120	48	Frost	C, CC-6		4 3/8	1000		890
			37469-4	▲ •	60A	120	48	Frost	C, CC-6		4 3/8	1000		890
			37471-0	▲ •	60A	130	48	Frost Ratings @ 120V =53W	C, CC-6		4 3/8	1000 2830		850 650
			30038-4	▲ (66)	60A/TF	120	120	Frost Silicone Coated	C, CC-6		4 3/8	1000		
			22245-5	▲ •	60A/99	120	48	Frost Extended Service	C, CC-6		4 3/8	2500		800
			22246-3	▲ •	60A/99	130	48	Frost Extended Service Ratings @ 120V =53W	C, CC-6		4 3/8	2500 7075		790 595
			37522-0	▲	60A/CL	130	48	Clear Ratings @ 120V =53W	C, CC-6	3 3/8	4 3/8	1000 2830		880 665
			13532-7	▲ X	60A/AGRO 12/I	120	12	Agro-Lite Plant Light	C, C-9		4 3/8	1000		
			14424-6	▲	60A/AGRO 12/I	120	12	Agro-Lite Plant Light	C, C-9		4 3/8	1000		
			38027-9	▲ X	60A/D	120	120	Frost Daylight	C, CC-6		4 3/8	1000		515
			14165 5	▲	60A/D	120	120	Frost Daylight	C, CC-6		4 3/8	1000		515
			37517-0	▲	60A/Y	120-130	48	Bug-A-Way®	C, CC-6		4 3/8	1350		
			37987-5	▲ X	60A19/B	120	60	Blue	C, C-9		4 3/8	1000		
			14164 8	▲	60A19/B	120	60	Blue	C, C-9		4 3/8	1000		
			37977-6	▲ X	60A19/G	120	60	Green	C, C-9		4 3/8	1000		
			14163 0	▲	60A19/G	120	60	Green	C, C-9		4 3/8	1000		
			37976-8	▲ X	60A19/R	120	60	Red	C, C-9		4 3/8	1000		
			14162 2	▲	60A19/R	120	60	Red	C, C-9		4 3/8	1000		
			14399 9	▲	60A/IF/SB	120	120	Frost Silvered Bowl	C, CC-6		4 3/8	1000		810
			28111-3	▲	60A	230	120	Frost	C, RC-9		3 1/8	1000		545
			37483-5	▲ •	60A/W 12/4	120	48	Soft White	C, CC-6		4 3/8	1000		860
			37484-3	▲	60A/W/TP 24/4	120	96	Soft White Tra-Pak	C, CC-6		4 3/8	1000		860
			34822-7	▲ □	60A/STP/PK 12/2	120	24	Pink Softone Pastel®	C, CC-6		4 3/8	1000		
			22573-0	▲ • □	60A/YL 12/2	120	24	Bug-A-Way® Yellow Longer Life	C, CC-6		4 3/8	1350		
			22247-1	□	60A19/35	120	48	Frost Industrial Service	C, C-9		4 3/8	3500		600

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Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCP	Lumens
60	A-19	Med.	22248-9	□	60A19/35	130	48	Frost Industrial Service Ratings @ 120V =53W	C, C-9		4 7/8	3500 9987		585 446
			25836-8	□ (66)	60A35/TF	120	60	Frost Silicone Coated Industrial Service	C, C-9		4 7/8	3500		
			+ 21056-7	\$ (12)	K60A19/TS/EW	120-125	120	Clear Krypton Econ-o-watt Traffic Signal	C, C-11V	2 7/8	4 3/8	8000		610
			+ 37167-4	\$ (12)	K60A19/TS/EW	130	120	Clear Krypton Econ-o-watt Traffic Signal	C, C-11V	2 7/8	4 3/8	8000		610
			K-19	Med.	22486-5	▲ □	12	Director®	C, CC-6		4 7/8	1150		770
	T-10	Med.	13811-5	▲	60T10/64IF 24/I	120	24	Frost	B, C-8		5 3/8	1000		660
			13810-7	▲	60T10/64 24/I	120	24	Clear	B, C-8		5 3/8	1000		665
65	BR-30	Med.	24876-5	▲ • (87)	65BR30/FL55 12/I	120	12	Reflector Flood	C, CC-6		5 3/8	2000		635
			24884-9	▲ • (87)	65BR30/FL55	130	12	Reflector Flood	C, CC-6		5 3/8	2000		635
			24877-3	▲ (87)	65BR30/SP20 12/I	120	12	Reflector Spot	C, CC-6		5 3/8	2000		655
			24880-7	▲ (87)	65BR30/SP20	130	12	Reflector Spot	C, CC-6		5 3/8	2000		655
			24452-5	(87)	65BR30/SFL	120	24	Reflector Sign Frost	C, C-17A		5 3/8	5000		635
			13785-1	▲ (87)	65BR30/FL/NTL 12/I	120	12	Natural Light Reflector	C, CC-6		5 3/8	2000		500
			16768-4	▲ (87)	65BR30/FL55/LL 12/I	120	12	Long Life Reflector Flood	C, CC-6		5 3/8	2500	510	595
			16769-2	▲ (87)	65BR30/SP20/LL 12/I	120	12	Long Life Reflector Spot	C, CC-6		5 3/8	2500	530	610
	BR-40	Med.	22537-5	▲ • (87)	65BR/FL60	130	24	Reflector Flood	C, CC-6		6 1/8	2000		685
			22546-6	▲ (87)	65BR/SP20	120-130	24	Reflector Spot	C, CC-6		6 1/8	2000		655
			16741-1	▲ (87)	65BR/FL60/LL 8/I	120	8	Long Life Reflector Flood	C, CC-6		6 1/8	2500	500	630
			38913-0	▲ (87)	65BR/FL60 24/I	120	24	Long Life Reflector Flood	C, CC-6		6 1/8	2000	500	630
67	A-19	Med.	22240-6	▲ • \$	75A-67A/EW	120	48	Frost Econ-o-watt	C, CC-6		4 7/8	750		1010
			22241-4	▲ • \$	75A-67A/EW	130	48	Frost Econ-o-watt Ratings @ 120V =59W	C, CC-6		4 7/8	750 2120		990 805
			37405-8	▲ • \$ X	75A-67A/99/EW	120-130	48	Frost Econ-o-watt Extended Service Ratings @ 120V =63W	C, CC-6		4 7/8	2500 4250		835 780
			15000-3	▲ \$	75A-67A/99/EW	120-130	48	Frost Econ-o-watt Extended Service Ratings @ 120V =63W	C, CC-6		4 7/8	2000 3400		970 840
	A-21	Med.	+ 22192-9	• (12)	67A21/99TS	120	120	Clear Traffic Signal	C, C-11V		4 7/8	8000		610
			+ 22197-8	• (12)	67A21/99TS	130	120	Clear Traffic Signal	C, C-11V	2 7/8	4 7/8	8000		610
69	A-21	Med.	+ 22199-4	• (12)	69A21/TS	120	120	Clear Traffic Signal	C, C-9	2 7/8	4 7/8	8000		685
			+ 22204-2	• (12)	69A21/TS	130	120	Clear Traffic Signal	C, C-9	2 7/8	4 7/8	8000		685
75	A-19	Med.	37472-8	▲ •	75A	120	48	Frost	C, CC-6		4 7/8	750		1220
			16801-3	▲	75A/CL/LL 12/2	120	24	Clear Long Life	C, CC-6		4 7/8	1500		1080
			16879-9	▲	75A/WL 12/4	120	48	Soft White Long Life	C, CC-6		4 7/8	1500		1060
			16739-5	▲	75A/WL 24/4	120	96	Soft White Long Life	C, CC-6		4 7/8	1500		1060
			13560-8	▲	75A/NTL 12/4	120	48	Natural Light Standard	C, CC-6		4 7/8	750		950
			27083-5	▲ •	75A 12/4	120	48	Frost	C, CC-6		4 7/8	750		1220
			37473-6	▲	75A	130	48	Frost Ratings @ 120V =66W	C, CC-6		4 7/8	750 2120		1150 860
			37406-6	▲ •	75A/99	120-130	48	Frost Extended Service Ratings @ 120V =70W	C, CC-6		4 7/8	2500 4250		1070 930
			29360-5	▲	75A/RS/VS	120-130	12	Frost Rough & Vib. Serv. Ratings @ 120V =70W	R, C-9	2 1/2	3 1/8	1000 1700		712 660
			37525-3	▲	75A/CL	130	48	Clear Ratings @ 120V =66W	C, CC-6	3 1/8	4 7/8	750 2140		1195 885
			37485-0	▲ •	75A/W 12/4	120	48	Soft White	C, CC-6		4 7/8	750		1180
			37486-8	▲	75A/W/TP 24/4	120	96	Soft White Tra-Pak	C, CC-6		4 7/8	750		1180
	A-21	Med.	31305-6	▲	75A21	120-130	120	Frost Ratings @ 120V =66W	C, CC-8		5 3/8	1000 2854		1200 858
			20922-1	▲ (66)	75A/RH/TF 12/I	120-130	12	Frost Silicone Coated Tough Bulb	C, RC-9		5 3/8	1000		

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75	A-21	Med.	20470-1	▲	75A/RH 12/1	120-130	12	Frost Rough House Ratings @ 120V =70W	C, RC-9		5 3/4	1000		750
			14345-3	▲	75A21	12	120	Frost	C, C-6		5 3/4	1000		730
	BR-30	Med.	24903-7	▲ (66, 87)	75BR30/FL/TF	120	12	Frost Silicone Coated Reflector	C, CC-6		5 3/4	2000		1100
			24905-2	▲ (87)	75BR30/AGRO 6/I	120	6	Agro-Lite Plant Light	C, CC-6		5 3/4	2000		700
			24904-5	▲ (87)	75BR30/B 8/I	120	8	Blue	C, CC-6		5 3/4	2000		
			24902-9	▲ (87)	75BR30/PK 8/I	120	8	Pink	C, CC-6		5 3/4	2000		
			24899-7	▲ (87)	75BR30/R 8/I	120	8	Red	C, CC-6		5 3/4	2000		
	ER-30	Med.	20572-4	▲ \$ X (19,37,87)	75ER30	120	24	Elliptical Reflector	C, CC-6		6 3/4	2000		
			14353-7	▲ \$ (19,37,87)	75ER30	120	24	Elliptical Reflector	C, CC-6		6 3/4	2000		660
			29636-8	▲ \$ X (19,37,87)	75ER30	130	24	Elliptical Reflector	C, CC-6		6 3/4	2000		
			14354-5	▲ \$ (19,37,87)	75ER30	130	24	Elliptical Reflector	C, CC-6		6 3/4	2000		650
	K-19	Med.	22487-3	▲ □	75K19/DL 6/2	120	12	Director®	C, CC-6		4 1/4	1150		1000
	R-20	Med.	16763-5	▲ □ (87)	75R20/LL 12/1	120	12	Frost Long Life Reflector	C, CC-6		3 1/4	2500	800	570
85	BR-30	Med.	16766-8	▲ (87)	85BR30/FL55/LL 6/I	120	6	Long Life Reflector Flood	C, CC-6		5 3/4	2500	700	855
			16767-6	▲ (87)	85BR30/SP20/LL 6/I	120	6	Long Life Reflector Spot	C, CC-6		5 3/4	2500	3100	865
	BR-40	Med.	22527-6	▲ • (87)	85BR/FL60	120	24	Reflector Flood	C, CC-6		6 1/4	2000		900
			22528-4	▲ • (87)	85BR/FL60	130	24	Reflector Flood	C, CC-6		6 1/4	2000		925
			14579-7	▲ (87)	85BR/FL/NTL 8/I	120	8	Natural Light Reflector	C, CC-6		6 1/4	2000		640
			16785-8	▲ (87)	85BR/FL60/LL 8/I	120	8	Long Life Reflector Flood	C, CC-6		6 1/4	2500	700	900
			16788-2	▲ (87) X	85BR/SP20/LL 8/I	120	8	Long Life Reflector Spot	C, CC-6		6 1/4	2500	3100	900
90	A-19	Med.	22243-0	▲ • \$	100A-90A/EW	120	48	Frost Econ-o-watt	C, CC-6		4 3/4	750		1445
			37390-2	▲ \$ X	100A-90A/99EW	120-130	48	Frost Econ-o-watt Extended Service Ratings @ 120V =84W	C, CC-6		4 3/4	2500		1185
			15001-1	▲ \$	100A-90A/99EW	120-130	48	Frost Econ-o-watt Extended Service Ratings @ 120V =84W	C, CC-6		4 3/4	1500		1400
												2550		1220
			+ 37168-2	\$ (12)	K90A19/TS/EW	120-125	120	Clear Krypton Econ-o-watt Traffic Signal	C, C-11V	2 3/4	4 3/4	8000		1040
			+ 37615-2	\$ (12)	K90A19/1/TS/EW	120-125	120	Clear Krypton Econ-o-watt Traffic Signal	C, C-11V	3	4 3/4	8000		1040
	A-21	Med.	26829-2	\$ □	90A21/35	130	60	Frost Econ-o-watt Industrial Service Ratings @ 120V =80W	C, C-9		5 3/4	3500		1050
100	A-19	Med.	27086-8	▲	100A 12/4	120	48	Frost	C, CC-6		4 3/4	750		1600
			37474-4	▲ • X	100A	120	48	Frost	C, CC-6		4 3/4	750		1600
			13684-6	▲ •	100A	120	48	Frost	C, CC-8		4 3/4	750		1710
			37476-9	▲ •	100A	130	48	Frost	C, CC-6		4 3/4	750		1590
								Ratings @ 120V =88W				2120		1205
			22978-1	▲ •	100A/99	120	48	Frost Extended Service	C, CC-6		4 3/4	2500		1500
			22979-9	▲ •	100A/99	130	48	Frost Extended Service Ratings @ 120V =88W	C, CC-6		4 3/4	2500		1470
												7075		1110
			37527-9	▲	100A/CL	130	48	Clear Ratings @ 120V =88W	C, CC-6	3 1/2	4 3/4	750		1590
												2120		1205
			13254-8	▲ •	100A/W 12/4	120	48	Soft White	C, CC-6		4 3/4	750		1620
			13561-6	▲	100A/NTL 12/4	120	48	Natural Light Standard	C, CC-6		4 3/4	750		1350
			16795-6	▲	100A/CL/LL 12/2	120	24	Clear Long Life	C, CC-6		4 3/4	1500		1580
			16740-3	▲	100A/WL 24/4	120	96	Soft White Long Life	C, CC-8		4 3/4	1500		1550
			13255-5	▲	100A/W/TP 24/4	120	96	Soft White Tra-Pak	C, CC-6		4 3/4	750		1620
			22581-3	▲ • □	100A/YL 12/2	120	24	Bug-A-Way® Yellow Longer Life	C, CC-6		4 3/4	1350		
			16862-5	▲	100A/WL 12/4	120	48	Soft White Long Life	C, CC-8		4 3/4	1500		1550

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100	A-19	Med. LHT	37414-0	(18)	100A/LHT	120-130	48	Frost	C, CC-6		4 7/8	750		1560
	A-21	Med.	34803-7 ▲ X		100A	12	120	Frost	C, C-6		5 3/8	1000		
			14346-1 ▲		100A	12	120	Frost	C, C-6		5 3/8	1000		1500
			28171-7 ▲		100A21	120-130	120	Frost	C, CC-8		5 3/8	750		1680
								Ratings @ 120V =94W				1280		1463
			30051-7 ▲ (66)		100A21/TF	120	120	Frost Silicone Coated	C, CC-8		5 3/8	750		
			29956-0 ▲		100A	230	120	Frost	C, C-9		5 3/8	1000		1270
			29955-2 ▲		100A	250	120	Frost	C, C-9		5 3/8	1000		1270
			24661-1 ▲		100A	277	120	Frost Mine	C, C-9		5 3/8	1000		1070
			37460-3 ▲		100A21/99	120-130	60	Frost Extended Service	C, CC-8		5 3/8	2500		1475
								Ratings @ 120V =94W				4250		1280
			38026-1 ▲ X		100A/D	120	60	Frost Daylight	C, C-9		5 3/8	750		900
			14340-4 ▲		100A/D	120	60	Frost Daylight	C, C-9		5 3/8	750		900
			37969-3 ▲ (43,64) X		100A/ISBIF	120	120	Frost Silvered Bowl	C, CC-6		5 3/8	1000		
			14400-6 ▲ (43,64)		100A/ISBIF	120	120	Frost Silvered Bowl	C, CC-6		5 3/8	1000		1150
			27985-1 ▲ (66)		100A/RS/TF	120-130	60	Frost Silicone Coated Rough Service	C, RC-9		5 3/8	1000		
			27550-3 ▲		100A/RS	250	60	Frost Rough Service	C, RC-9		5 3/8	1000		1030
			27560-2 ▲		100A/CL/RS/VS	120-130	60	Clear Rough & Vibration Service	C, RC-9	3 3/4	5 3/8	1000		1100
								Ratings @ 120V =94W				1700		945
			37411-6 □		100A21/35	120-130	60	Frost Industrial Service	C, C-9		5 3/8	3500		1175
								Ratings @ 120V =94W				5975		1015
			25838-4 □ (14, 66)		100A21/35/TF	120	60	Frost Silicone Coated Industrial Service	C, C-9		5 3/8	3500		
			27569-3		100A/RS/VS/BR	120-130	60	Frost Rough & Vibration Service	C, RC-9		5 3/8	1000		1230
								Ratings @ 120V =94W				1700		945
			22390-9 (12)		100A21/TS	130	120	Clear Traffic Signal	C, C-9	2 7/8	4 7/8	2000		1260
	A-23	Med.	22430-3 ▲		100A23	120	120	Frost	C, CC-6		6 3/8	750		1730
	F-20	Med.	16844-3		100F20/POSTLT/CL/LL 6/I	120	6	Clear Long Life PostLight	C, C-9		5 3/8	4000		1250
100 200 300	PAR-38	Med. Skt.	36235-0 (29, 82)		100PAR/A 6/I	120	6	Amber PAR	C, CC-6		5 3/8	2000		
			20177-2 (29, 82)		100PAR/B 6/I	120	6	Blue PAR	C, CC-6		5 3/8	2000		
			20186-3 (29, 82)		100PAR/G 6/I	120	6	Green PAR	C, CC-6		5 3/8	2000		
			20228-3 (29, 82)		100PAR/R 6/I	120	6	Red PAR	C, CC-6		5 3/8	2000		
			20232-5 (29, 82)		100PAR/Y 6/I	120	6	Yellow PAR	C, CC-6		5 3/8	2000		
			36249-1 (29, 82)		100PAR/PK 6/I	120	6	Pink PAR	C, CC-6		5 3/8	2000		
			14550-8 (29, 82)		100PAR38/HEAT/CL	120	12	Clear PAR Infrared	C, C-9		5 3/8			
			22191-1 (29, 82) X		100PAR38/HEAT/CL	120	15	Clear PAR Infrared	C, C-9		5 3/8			
	K-19	Med.	22491-5 ▲ □		100K19/DL 6/2	120	12	Director®	C, CC-6		4 7/8	1150		1450
	R-20	Med.	14174-7 ■		100R20/FL/S	12	60	Clear Reflector Flood Swimming Pool	C, C-6		3 1/8	2000		1000
			16701-5 ▲ □ (82)		100R20/LL 12/I	120	12	Frost Long Life Reflector	C, CC-6		3 1/8	2500		935
	PS-25	3 Ct. Mog.	36734-2 ▲ (8)		100/300/W 12/I	120	12	Soft White 3-Way	C, 2CC-6		6 1/8	1200		1320 3300 4620
116	A-21	Med.	22483-2 (12)		116A21/TS	120	120	Traffic Signal Clear	C, C-9	2 7/8	4 7/8	8000		1260
			22485-7 (12)		116A21/TS	130	120	Traffic Signal Clear	C, C-9	2 7/8	4 7/8	8000		1260
120	BR-40	Med.	22541-7 ▲ • (87)		120BR/FL60	120	24	Reflector Flood	C, CC-6		6 1/2	2000		1300
			22532-6 ▲ • (87)		120BR/FL60	130	24	Reflector Flood	C, CC-6		6 1/2	2000		1300
			22544-1 ▲ (87)		120BR/SP20	120-130	24	Reflector Spot	C, CC-6		6 1/2	2000		1250
			16779-1 ▲ (87)		120BR/FL60/LL 8/I	120	8	Long Life Reflector Flood	C, CC-6		6 1/2	2500	1000	1285
			16781-7 ▲ (87)		120BR/SP20/LL 8/I	120	8	Long Life Reflector Spot	C, CC-6		6 1/2	2500	4600	1225
			167155 ▲ (87)		120BR/Agro 6/I	120	6	Agro-Lite Plant Light	C, CC-6		6 1/2	2000		
	ER-40	Med.	21562-4 ▲ \$ X		120ER40	120	24	Elliptical Reflector	C, CC-6		7 3/8	2000		1190
			21565-7 ▲ \$ X		120ER40	130	24	Elliptical Reflector	C, CC-6		7 3/8	2000		1190
			13928-7 ▲ \$		120ER40	120-130	24	Elliptical Reflector	C, CC-6		7 3/8	2000		1250

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124	A-21	Med.	20556-7	\$ □	124A21/RR/TS	120	20	Clear Ring Reflector Traffic Signal	C, C7A		4 7/8	8000		1150
			20557-5	X	124A21/RR/TS	125	20	Clear Ring Reflector	C, C7A	3	4 7/8	8000		1125
			20558-3		124A21/RR/TS	130	20	Clear Ring Reflector Traffic Signal	C, C7A	3	4 7/8	8000		1100
125	BR-40	Med.	38931-2	▲ (27,87,89)	125BR40/I 4/I	120	4	Clear Reflector Infrared	C, C-9		6 1/2			
	T-10	Med. Pf.	23640-6	X (8)	125T10P	120	24	Spotlight	C, C-13	2 3/8	5 3/8	500		1740
135	A-21	Med.	28175-8	▲ \$	150A-135A/EW	120-130	60	Frost Econ-o-watt Ratings @ 120V=127W	C, CC-8		5 3/8	750		2490
			37464-5	▲ \$ X	150A-135A/99/EW	120-130	60	Frost Econ-o-watt Ratings @ 120V=126W	C, CC-8		5 3/8	2500		2169
			15002-9	▲ \$	150A-135A/99/EW	120-130	60	Frost Econ-o-watt Ratings @ 120V=119W	C, CC-8		5 3/8	1000		2030
			37616-0	\$ (12)	K135A21/TS/EW	120-125	120	Clear Krypton Econ-o-watt Traffic Signal	C, C-11V	3	4 1/8	8000		1760
	A-25	Med.	26836-7	X \$ □	135A25/35	130	60	Frost Econ-o-watt Industrial Service Ratings @ 120V=119W	C, C-9		6 1/8	3500		2300
												1700		2000
												9987		2000
150	A-21	Med.	27003-3	▲ •	150A	120	48	Frost	C, CC-8		5 3/8	750		1865
			27069-4	▲ •	150A	130	48	Frost	C, CC-8		5 3/8	750		1423
								Ratings @ 120V=133W				2140		2850
			37417-3	▲ • (82)	150A/99	120-130	60	Frost Extended Service Ratings @ 120V=141W	C, CC-8		5 3/8	2500		2800
			37418-1	▲ (82)	150A/CL	120-130	60	Clear Ratings @ 120V=141W	C, CC-8	3 3/8	5 3/8	750		2174
			27983-6	▲ (66)	150A21/RS/TF	120-130	60	High-Temp. Coating	C, RC-9		5 3/8	1000		2440
			16799-8	▲	150A/CL/LL 12/I	120	12	Clear Long Life	C, CC-8		5 3/8	1500		2140
			16866-6	▲	150A/WL 12/I	120	12	Soft White Long Life	C, CC-8		5 3/8	1500		2600
			27578-4	▲	150A21/RS/BR	120-130	60	Frost Rough & Vibration Service Ratings @ 120V=141W	C, RC-9		5 3/8	1000		2310
												1700		2205
	A-23	Med. LHT	27586-7	▲	150A21/CL/RS/VS	120-130	60	Clear Rough & Vibration Service Ratings @ 120V=141W	C, RC-9	3 3/8	5 3/8	1000		1915
			32357-6	▲ □ (8)	150A/DL 12/I	120	12	Director®	C, CC-8		5 3/8	1000		2200
			27588-3	▲	150A/35/RS/BR	120-130	60	Frost Industrial Rough Service Ratings @ 120V=141W	C, RC-9	3 3/8	5 3/8	3500		1915
	A-25	Med.	28170-9	(18)	150A23/LHT	120-130	60	Frost	C, CC-8		6 3/8	750		1640
			37419-9	▲	150A23/CL	120-130	60	Clear Ratings @ 120V=141W	C, CC-8	4 3/8	6 3/8	750		1425
	BR-40	Med.	37421-5	□	150A25/35	120-130	60	Frost Industrial Service Ratings @ 120V=141W	C, C-9		6 3/8	3500		2855
			22965-8	□ (14,66)	150A25/35/TF	120	60	Frost Silicone Coated Industrial Service	C, C-9		6 1/8	3500		2475
	P-25	Med.	22725-6	▲ (87)	150BR/AGRO 6/I	120	6	Agro-Lite Plant Light	C, CC-6		6 1/2	2000		1825
	BR-38	Med.	14402 2		150P25/2SB	120	60	Clear Spotlight	C, C-5		4 3/8	200		1642
			14401 4		150P25/10	120	60	Light Frost Spotlight	C, C-5	3	4 3/8	200		1700
	PS-25	Med.	38568-2		150PAR/I/5FL	130	12	PAR Flood Anti-Vibration	C, C-11V		5 1/2	5000		2100
	PS-25	Med.	28173-3	▲	150	120-130	60	Frost Ratings @ 120V=141W	C, C-9		6 1/8	750		2460
			28174-1	▲	150PS25/99	120-130	60	Frost Extended Service Ratings @ 120V=141W	C, C-9		6 1/8	2500		2143
			30056-6	▲ (66)	150PS25/TF	120	60	Frost Silicone Coated	C, C-9		6 1/8	1000		2080
			24684-3	▲	150PS25/99CL	250	60	Clear Extended Service	C, CC-9		6 1/8	2500		1812

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175	PAR-38	Med. Skt.	14551-6	(27, 89)	175PAR38/HEAT/CL	120	12	Clear Infrared	C, C-9		5 5/8			
			13033-6	(27, 89) X	175PAR38/HEAT/CL	120	15	Clear Infrared	C, C-9		5 5/8			
189	PS-25	Med.	39423-9		189PS25/64	125	60	Clear	C, C-9	5 1/4	6 15/16	3000		2900
200	A-21	Med.	16867-4	▲	200A/WL 6/I	120	6	Soft White Long Life	C, CC-8		5 5/8	1500		3300
	A-23	Med.	16798-0	▲	200A/CL/LL 6/I	120	6	Clear Long Life	C, CC-8		6 5/8	1500		3665
			36289-7	▲	200A	120	60	Frost	C, CC-8		6 5/8	750		3800
			36291-3	▲	200A	130	60	Frost	C, CC-8		6 5/8	750		3800
								Ratings @120V=177W				2120		2865
			37427-2	▲	200A/CL	120-130	60	Clear	C, CC-8	4 5/8	6 5/8	750		3815
								Ratings @120V=187W				1275		3310
			28176-6	▲	200A/99	120-130	60	Frost Extended Service	C, CC-8		6 5/8	2500		3500
								Ratings @120V=187W				4268		3014
	A-25	Med.	39813-1	□	200A25/35	130	60	Frost Industrial Service	C, C-9		6 15/16	3500		2690
								Ratings @120V=177W				9987		2052
	BR-40	Med.	14341-2	▲ (87)	200BR/FL	120	24	Reflector Flood	C, C-9		6 1/2	2000		2200
	PAR-56	M-P	23371-8	(10)	200PAR56	30	8	PAR Headlight R.R.	C, CC-6		4 1/2	350		2300
		Mog. End Prong	28956-1	(9,59,90)	200PAR56/MFL	120	8	PAR Med. Flood	C, CC-13		5	2000		
	PS-25	Med.	34974-6	▲	200/IF	250	60	Frost	C, CC-9		6 15/16	1000		3000
			34976-1	▲	200	277	60	Clear Mine	C, CC-9	5 1/4	6 15/16	1000		2650
	PS-30	Med.	22729-8	▲ X	200	130	60	Clear	C, C-9	6	8 5/8	750		3710
								Ratings @120V=177W				2120		2825
			14301-6	▲	200	120-130	60	Clear	C, C-9		8 5/8	750		3250
								Ratings @120V=177W				2120		2470
			14299-1	▲	200/IF	120-130	12	Clear	C, C-9		8 5/8	750		3200
								Ratings @120V=177W				2120		2430
			14298-3	▲ (66)	200/TF	120	60	Frost Silicone Coated	C, C-9		8 5/8	750		2980
			14297-5	▲	200/99IF	120-130	60	Clear	C, C-9		8 5/8	750		2600
								Ratings @120V=177W				2120		1975
			14293-5	▲ (31, 43)	200/SBIF	120-130	60	Frost Silvered Bowl	C, C-9		8 5/8	1000		2700
								Ratings @120V=177W				2830		2050
			22704-1	▲ X	200PS30/23	120	60	Frost Rough Service	C, C-9		8 5/8	1000		3500
			22732-2	▲ X	200PS30/23	130	60	Frost Rough Service	C, C-9		8 5/8	1000		3500
								Ratings @120V=177W				2830		2670
			14304-0	▲	200PS30/23	120-130	60	Clear	C, C-9		8 5/8	1000		2800
								Ratings @120V=177W				2830		2130
			22726-4	▲ X	200PS30/24	130	60	Clear Rough Service	C, C-9	6	8 5/8	1000		3500
								Ratings @120V=177W				2830		2670
			14303-2	▲	200PS30/24	120-130	60	Clear Rough Service	C, C-9		8 5/8	1000		2900
								Ratings @120V=177W				2830		2210
			14305-7	▲ (66)	200PS30/RS/TF	120-130	60	Frost Rough Service	C, C-9		8 5/8	1000		2690
								Silicone Coated				2830		2044
			14302-4	▲	200PS30/RS	250	60	Clear Rough Service	C, C-9		8 5/8	1000		2600
			22995-5	□ X	200/35/TF	120	60	Frost Silicone Coated	C, C-9		8 5/8			3500
				(14, 66)				Industrial Service						
			14300-8		200/35/TF	120	60	Frost Silicone Coated	C, C-9		8 5/8	3500		2570
								Industrial Service						
		Mog.	22751-2	X	200PS30/12	130	60	Clear	C, C-9	6 3/8	8 5/8	750		3650
								Ratings @120V=177W				2140		2785
			14296-7		200PS30/12	120-130	60	Frost Silicone Coated	C, C-9		8 5/8	750		3250
								Industrial Service				2830		2470
250	BR-40	Med.	38932-0	▲ (27, 87)	250BR40/I 4/I	120	4	Clear Reflector Infrared	C, C-9		6 1/2			
	PAR-38	Med. Skt.	37432-2	□ (53, 82)	K250PAR38/FL	120-130	12	PAR Floodlight (Krypton)	C, CC-6		5 5/8	4000	5000	3100
			37433-0	□ (53, 82)	K250PAR38/SP	120-130	12	PAR Spotlight (Krypton)	C, CC-6		5 5/8	4000		3100
	R-40	Med.	38933-8	▲ \$ (27, 87, 89)	250R40/HR 4/I	120	4	Red Bowl Heat Ray	C, C-9		6 7/8	5000		

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300	BR-40	Med.	37441-3	▲ \$ (87) X	300BR/FL	120-130	24	Reflector Flood	C, CC-11		6 ½	2000		2480
			14343-8	▲ \$ (87)	300BR/FL	120-130	24	Reflector Flood	C, CC-11		6 ½	2000		2480
	PAR-56	M-P	23382-5		300PAR56/MFL	120	8	PAR Med. Flood	C, CC-13		5	2000		
			23405-4	(9, 55)	300PAR56/MFL	130	8	PAR Med. Flood	C, CC-13		5	2000		
			23388-2	(9, 55)	300PAR56/WFL	120	8	PAR Wide Flood	C, CC-13		5	2000		
			23410-4	(9, 55)	300PAR56/WFL	130	8	PAR Wide Flood	C, CC-13		5	2000		
			23378-3	(9, 46, 55)	300PAR56/NSP	120	8	PAR Narrow Spotlight	C, CC-13		5	2000		
	PS-25	Med.	28177-4	▲	300M/IF	120-130	60	Frost Ratings @120V=282W	C, CC-8		6 1/8	750 1280		6230 5471
			38941-1	▲	300M/IF	120	6	Frost	C, CC-8		6 1/8	750		6300
			37151-8	▲	300M	120	60	Clear	C, CC-8	5 ¼	6 1/8	750		6280
			37153-4	▲	300M	130	60	Clear Ratings @120V=265W	C, CC-8	5 ¼	6 1/8	750 2120		6280 4675
			13391-8	▲	300M	120-130	12	Clear Ratings @120V=265W	C, CC-8	5 ¼	6 1/8	750 2120		6280 4625
			35008-2	▲	300M/99IF	120	60	Frost Extended Service	C, CC-8		6 1/8	2500		5060
			35009-0	▲	300M/99IF	130	60	Frost Extended Service Ratings @120V=265W	C, CC-8		6 1/8	2500 7130		5060 4044
			35007-4	▲	300M/99	130	60	Clear Extended Service Ratings @120V=265W	C, CC-8	5 ¼	6 1/8	2500 7134		5300 4044
	PS-30	Med.	22783-5	▲ X	300M/PS30IF	120	60	Frost	C, C-9		8 1/8	750		6100
			14307-3	▲	300M/PS30IF	120-130	60	Frost Ratings @120V=265W	C, C-9		8 1/8	750 2120		5000 3800
			14306-5	▲	300M/PS30	120-130	60	Clear Ratings @120V=265W	C, C-9		8 1/8	750 2120		4900 3720
			14294-3		300M/PS30/35	120-130	60	Frost Industrial Service Ratings @120V=265W	C, C-9		8 1/8	3500 9900		3800 2885
	PS-35	Mog.	14320-6		300/RSIF	120	24	Frost Rough Service	C, C-9		9 ¾	1000		5150
			14309-9		300/99IF	120-130	24	Frost Extended Service Ratings @120V=265W	C, C-9		9 ¾	1000 2830		4500 3420
			22890-8	X	300/99	130	24	Clear Extended Service Ratings @120V=265W	C, C-9	7	9 ¾	2500 7134		5070 3868
			14321-4		300/99	120-130	24	Clear Extended Service Ratings @120V=265W	C, C-9		9 ¾	2500 7134		4600 3490
			13390-0	▲ X	300/IF	120-130	12	Frost Ratings @120V=265W	C, C-9		9 ¾	1000 2830		5700 4025
			14316-4		300/IF	120-130	12	Frost Ratings @120V=265W	C, C-9		9 ¾	1000 2830		4500 3415
			22862-7	▲ X	300	120	24	Clear	C, C-9	7	9 ¾	1000		5700
			22889-0	▲ X	300	130	24	Clear Ratings @120V=265W	C, C-9	7	9 ¾	1000 2830		5700 4063
			14314-9		300	120-130	24	Clear Ratings @120V=265W	C, C-9	7	9 ¾	1000 2830		4600 3490
			24759-3	▲ X	300	277	24	Clear	C, C-9	7	9 ¾	1000		4300
			14317-2		300	277	24	Clear	C, C-9	7	9 ¾	1000		4000
	R-40	Med.	14432-9	■ ★ (31, 37, 51, 53)	300R/FL/I	12	24	Reflector Flood Frost Swimming Pool	C, C-2V		6 ¾	2000		3240
			37442-1	■ ★ X (31, 37, 51, 53)	300R/FL/I	120-130	24	Reflector Flood Swimming Pool	C, CC-11		6 ¾	2000		2480
			14429-5	■ ★ (31, 37, 51, 53)	300R/FL/I	120-130	24	Reflector Flood Swimming Pool	C, CC-11		6 ¾	2000		2480
		Mog.	14433-7	★ (31, 37, 51, 53)	300R/3FL	120-130	24	Reflector Flood	CC-11		7 ¼	2000		2480

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Incandescent

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCP*	Lumens
350	PAR-56	M.P.	22904-7		350PAR56/SP	75	8	Train Light	C, CC-8		4 1/2	500	185,000	6200
375	BR-40	Med. Skt.	14342-0	(19, 31, 37, 38)	375BR40	120	24	Reflector Infrared Lt. Frost Industrial	C, C-7A		7 3/4	5000		
	R-40	Med. Skt.	14574-8	(11, 31, 37, 89)	375R40/I	120	24	Clear Reflector Infrared Industrial	C, C-7A		7 3/4	5000		
400	G-30	Med.	37443-9	■ X (12, 22)	400G/FL	120-130	60	Clear Floodlight	C, C-7A	3	5 1/4	800		6280
			14461-8	(12, 22)	400G/FL	120-130	60	Clear Floodlight	C, C-7A	3	5 1/4	800		6280
	R-40	Med.	31069-8	■ X	400R40/FL	120	24	Swimming Pool	C, C-7A	3 3/4	6 3/4	2000		
			14431-1	■ ★ (31, 37, 51, 53)	400R40/FL	120	24	Swimming Pool	C, C-7A	3 3/4	6 3/4	2000		3500
500	PAR-64	Ext. Mog. End Prong	23417-9	(9, 55)	500PAR64/MFL	120	6	PAR Med. Flood	C, CC-13		6	2000		
			23416-1		500PAR64/NSP	120	8	PAR Narrow Spot	C, CC-13		6	2000		
	PS-35	Mog.	37446-2	X (9,46,55)	500	120-130	24	Clear	C, C-9	7	9 3/4	1000		
			14407-1		500	120-130	24	Clear Ratings @120V=442W	C, C-9	7	9 3/4	1000		8900
												2830		6755
			14313-1		500/IF	120-130	24	Frost Ratings @120V=442W	C, C-9		9 3/4	1000		8700
												2830		6600
			37448-8	X	500/99	120-130	24	Clear Extended Service	C, C-9	7	9 3/4	2500		8750
			14319-8		500/99	120-130	24	Clear Extended Service Ratings @120V=442W	C, C-9	7	9 3/4	2500		8100
												7134		6145
			14318-0		500/99IF	120-130	24	Frost Extended Service Ratings @120V=442W	C, C-9		9 3/4	2500		8000
												7134		6080
	PS-40	Mog.	14327-1		500	277	24	Clear	C, C-9		9 3/4	1000		7000
			14322-2		500PS40	120-130	24	Clear Ratings @120V=442W	C, C-9		9 3/4	1000		8300
												2830		6300
			23975-6	X (14, 31)	500/SBIF	120	24	Frost Silvered Bowl	C, C-9		9 3/4	1000		9500
			14325-5		500/SBIF	120-130	24	Frost Silvered Bowl Ratings @120V=442W	C, C-9		9 3/4	1000		8300
												2830		6300
			14326-3		500/RS	120-130	24	Clear Rough Service Ratings @120V=442W	C, C-9		9 3/4	1000		8300
												2830		6300
	R-40	Med.	33730-3	■ ★ X (31, 37, 51, 53, 12)	500R/3FL/2S	130	24	Swimming Pool Ratings @120V=442W	C, C-7A		6 3/4	2000		6120
												5707		4669
			14430-3	■ ★ X (31, 37, 51, 53, 12)	500R/3FL/2S	130	24	Swimming Pool Ratings @120V=442W	C, C-7A		6 3/4	2000		6120
												5707		4669
		Mog.	14434-5	★ (51, 53)	500R/3FL	120-130	24	Frost Reflector Flood	CC-11		7 1/4	2000		5000
			24783-3	★ X (51, 53)	500R/3FL	250	24	Frost Reflector Flood Special Service	C, C-7A		7 1/4	2000		
			14435-2	★ (51, 53)	500R/3FL	250	24	Frost Reflector Flood Special Service	C, C-7A		7 1/4	2000		4700
620	PS-40	Mog. Pf.	14323-0		620PS40P	120	24	Code Beacon	C, C-7A	5 1/8	10 1/8	3000		9000

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Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCEP	Lumens
Philinea Lamps														
60	T-10	2XS14s	34589-2		60T10/White	120-130	25	White Philinea	B, C-8		19 1/16	1500		400

Lamps Listed by Lumens

1950L	P-25	Med.	+ 20494-1	X	1950L/P25/TS	120	60	Traffic Signal	C, C-9	3	4 3/4	8000		1950
			+ 14572-2		1950L/P25/TS	120	60	Traffic Signal	C, C-9	3	4 3/4	8000		1950
			+ 26482-0	X	1950L/P25/TS	130	60	Traffic Signal	C, C-9	3	4 3/4	8000		1950
			+ 14573-0		1950L/P25/TS	130	60	Traffic Signal	C, C-9	3	4 3/4	8000		1950

Special Lighting

Night Light Plug In			25139-7	(94)	BCPNL 4C7 12/I	120	12	Night Light Plug In	B, C-7A		2 1/4	3000		16
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Street Lighting Lamps, Multiple

189	PS-25	Med.	39423-9		189PS25/64	125	60	Clear	C, C-9	5 1/4	6 13/16	3000		2900
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Street Lighting Lamps, Series

Rated Init. (67)	Amps	Bulb	Base	Product Number	Symbols, Footnotes	Volts	Qty.	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life Hrs. (93)
—	6.6A	PS-35	Mog.	25065-4	X	22.8	24	Clear	C, C-2V	7	9 3/4	3000
2200				14311-5		22.8	24	Clear Extended Service	C, C-2V	7	9 3/4	3000
—				36785-4	X	22.8	24	Clear Extended Service	C, C-2V	7	9 3/4	6000
2200				14312-3		22.8	24	Clear Extended Service	C, C-2V	7	9 3/4	6000
—		PS-35	Mog.	25069-6	X	34.0	24	Clear Extended Service	C, C-2V	7	9 3/4	3000
3800				14310-7		34.0	24	Clear Extended Service	C, C-2V	7	9 3/4	3000
—		PS-40	Mog.	20540-1	X	52.7	24	Clear Extended Service	C, C-2V	7	9 3/4	6000
5400				14324-8		52.7	24	Clear Extended Service	C, C-2V	7	9 3/4	6000

+ Pursuant to California law, these incandescent lamps **cannot** be used or offered for sale for use in traffic signals in the State of California.

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Incandescent

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCP*	Lumens
Decoratives, Blister-Carded														
3	CA-10	Med.	16697-4	▲ (12)	BC3CA10/CL/LL 6/1	120	6	Clear Long Life Flicker Flame	B, CC-2V		3 3/8	2000		
		Cand.	16698-2	▲ (12)	BC3CA10C/CL/LL 6/1	120	6	Clear Long Life Flicker Flame	B, CC-2V		4 1/8	2000		
15	BA-9	Cand.	16696-6	▲ (12)	BC15BA9C/CL/LL 6/4	120	24	Clear Long Life Bent Tip	B, CC-2V C-7A		3 3/8	2000		110
			16811-2	▲ (12)	BC15BA9C/CL/LL 6/2	120	12	Clear Long Life Bent Tip	B, CC-2V C-7A		4 3/8	2000		110
	F-10	Cand.	16830-2	▲ (12)	BC15F10C/CL/LL 6/2	120	12	Clear Long Life Flame	B, C-7A		3 3/8	2000		95
			16831-0	▲ (12)	BC15F10C/A/LL 6/2	120	12	Amber Long Life Flame	B, C-7A		3 3/8	2000		85
25	BA-9	Cand.	16719-7	▲ (12)	BC25BA9C/CL/LL 6/4	120	24	Clear Long Life Bent Tip	C, CC-2V C-7A		4 3/8	2000		150
			16806-2	▲ (12)	BC25BA9C/CL/LL 6/2	120	12	Clear Long Life Bent Tip	C, CC-2V C-7A		4 3/8	2000		150
			16810-4	▲ (12)	BC25BA9C/F/LL 6/2	120	12	Frost Long Life Bent Tip	C, CC-2V C-7A		4 3/8	2000		145
	BA-9 1/2	Med.	16819-5	▲ (12)	BC25BA9-1/2C/CL/LL 6/2	120	12	Clear Long Life Bent Tip	C, CC-2V C-7A		4 1/8	2000		150
	B-10 1/2	Cand.	16824-5	▲ (12)	BC25B10-1/2C/CL/LL 6/2	120	12	Clear Long Life Blunt Tip	C, C-7A		4 1/8	2000		150
	B-13	Med.	16827-8	▲ (12)	BC25B13/CL/LL 6/2	120	12	Clear Long Life Blunt Tip	C, C-7A		4 1/8	2000		150
	CA-8	Cand.	13568-1	▲ (12)	BC25CA8C/CL/LL 6/2	120	12	Clear Petite Long Life Bent Tip	C, CC-2V		3 1/2	2000		220
	F-10	Cand.	16832-8	▲ (12)	BC25F10C/CL/LL 6/2	120	12	Clear Long Life Flame	B, C-7A		3 3/8	2000		105
	F-15	Med.	16833-6	▲ (12)	BC25F15/CL/LL 6/2	120	12	Clear Long Life Flame	B, C-9		4 1/2	2000		150
			16839-3	▲ (12)	BC25F15/IR/LL 6/2	120	12	Indescent Long Life Flame	C, C-9		4 1/2	2000		150
			16840-1	▲ (12)	BC25F15/W/LL 6/2	120	12	White Long Life Flame	C, C-9		4 1/2	2000		120
			16841-9	▲ (12)	BC25F15/A/LL 6/2	120	12	Amber Long Life Flame	B, C-9		4 1/2	2000		130
	G-16 1/2	Cand.	16845-0	▲ (12)	BC25G16-1/2C/CL/LL 6/2	120	12	Clear Long Life Globe	B, CC-2V C-7A		3	2000		200
			16847-6	▲ (12)	BC25G16-1/2C/W/LL 6/2	120	12	White Long Life Globe	B, CC-2V C-7A		3	2000		165
	Med.		13535-0	▲ (12)	BC25G16-1/2C/LL 6/2	120	12	Clear Long Life Globe	C, CC-2V		2 3/4	2000		180
			13534-3	▲ (12)	BC25G16-1/2W/LL 6/2	120	12	White Long Life Globe	C, CC-2V		2 3/4	2000		120

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Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	LCL (In.)	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCP*	Lumens
40	BA-9	Cand.	16720-5	▲ (12)	BC40BA9C/CL/LL 6/4	120	24	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ³ / ₁₆	2000		300
			16807-0	▲ (12)	BC40BA9C/CL/LL 6/2	120	12	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ³ / ₁₆	2000		300
			16809-6	▲ (12)	BC40BA9C/F/LL 6/2	120	12	Frost Long Life Bent Tip	C, CC-2V C-7A		4 ³ / ₁₆	2000		295
	BA-9 ½	Med.	16760-1	▲ (12)	BC40BA9-1/2/CL/LL 6/4	120	24	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ¹ / ₁₆	2000		300
			16820-3	▲ (12)	BC40BA9-1/2/CL/LL 6/2	120	12	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ¹ / ₁₆	2000		300
			16821-1	▲ (12)	BC40BA9-1/2/F/LL 6/2	120	12	Frost Long Life Bent Tip	C, CC-2V C-7A		4 ¹ / ₁₆	2000		295
	B-10 ½	Cand.	16825-2	▲ (12)	BC40B10-1/2C/CL/LL 6/2	120	12	Clear Long Life Blunt Tip	C, C-7A		4 ¹ / ₁₆	2000		300
			14125-9	▲ (12)	BC40B10-1/2C/NTL 6/2	120	12	Natural Light Blunt Tip	C, C-7A		4 ¹ / ₁₆	2000		270
	B-13	Med.	16828-6	▲ (12)	BC40B13/CL/LL 6/2	120	12	Clear Long Life Blunt Tip	C, C-7A		4 ¹ / ₁₆	2000		300
			14127-5	▲ (12)	BC40B13/NTL 6/2	120	12	Natural Light Blunt Tip	C, C-7A		4 ¹ / ₁₆	2000		270
	F-15	Med.	16835-1	▲ (12)	BC40F15/CL/LL 6/2	120	12	Clear Long Life Flame	C, C-9		4 ¹ / ₂	2000		385
			16837-7	▲ (12)	BC40F15/IR/LL 6/2	120	12	Indescent Long Life Flame	C, C-9		4 ¹ / ₂	2000		370
	G-16 ½	Cand.	16838-5	▲ (12)	BC40F15/W/LL 6/2	120	12	White Long Life Flame	C, C-9		4 ¹ / ₂	2000		300
			16846-8	▲ (12)	BC40G16-1/2C/CL/LL 6/2	120	12	Clear Long Life Globe	C, CC-2V C-7A		3	2000		300
			16848-4	▲ (12)	BC40G16-1/2C/W/LL 6/2	120	12	White Long Life Globe	C, CC-2V C-7A		3	2000		245
		Med.	14129-1	▲ (12)	BC40G16-1/2C/NTL 6/2	120	12	Natural Light Globe	C, C-7A		3	2000		270
			13537-6	▲ (12)	BC40G16-1/2/CL/LL 6/2	120	12	Clear Long Life Globe	C, CC-2V		2 ³ / ₄	2000		300
			13536-8	▲ (12)	BC40G16-1/2/W/LL 6/2	120	12	White Long Life Globe	C, CC-2V		2 ³ / ₄	2000		270
60	BA-9	Cand.	16808-8	▲ (12)	BC60BA9C/CL/LL 6/2	120	12	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ¹ / ₁₆	2000		550
			16721-3	▲ (12)	BC60BA9C/CL/LL 6/4	120	24	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ¹ / ₁₆	2000		550
			16805-4	▲ (12)	BC60BA9C/F/LL 6/2	120	12	Frost Long Life Bent Tip	C, CC-2V C-7A		4 ¹ / ₁₆	2000		545
	BA-9 ½	Med.	16822-9	▲ (12)	BC60BA9-1/2/CL/LL 6/2	120	12	Clear Long Life Bent Tip	C, CC-2V C-7A		4 ¹ / ₁₆	2000		550
			16823-7	▲ (12)	BC60BA9-1/2/F/LL 6/2	120	12	Frost Long Life Bent Tip	C, CC-2V C-7A		4 ¹ / ₁₆	2000		545
	B-10 ½	Cand.	16826-0	▲ (12)	BC60B10-1/2C/CL/LL 6/2	120	12	Clear Long Life Blunt Tip	C, C-7A		4 ¹ / ₁₆	2000		550
			14126-7	▲ (12)	BC60B10-1/2C/NTL 6/2	120	12	Natural Light Blunt Tip	C, C-7A		4 ¹ / ₁₆	2000		510
	B-13	Med.	16829-4	▲ (12)	BC60B13/CL/LL 6/2	120	12	Clear Long Life Blunt Tip	C, C-7A		4 ¹ / ₁₆	2000		550
			14128-3	▲ (12)	BC60B13/NTL 6/2	120	12	Natural Light Blunt Tip	C, C-7A		4 ¹ / ₁₆	2000		510
	F-15	Med.	16842-7	▲ (12)	BC60F15/CL/LL 6/2	120	12	Clear Long Life Flame	C, C-9		4 ¹ / ₂	2000		630
	G-16 ½	Cand.	16699-0	▲ (12)	BC60G16-1/2C/CL/LL 6/2	120	12	Clear Long Life Globe	C, CC-2V C-7A		3	2000		540
			16700-7	▲ (12)	BC60G16-1/2C/W/LL 6/2	120	12	White Long Life Globe	C, CC-2V C-7A		3	2000		450
			14130-9	▲ (12)	BC60G16-1/2C/NTL 6/2	120	12	Natural Light Globe	C, C-7A		3	2000		510
		Med.	13538-4	▲ (12)	BC60G16-1/2/CL/LL 6/2	120	12	Clear Long Life Globe	C, CC-2V		2 ³ / ₄	2000		540
			13530-1	▲ (12)	BC60G16-1/2/W/LL 6/2	120	12	White Long Life Globe	C, CC-2V		2 ³ / ₄	2000		420
100	F-20	Med.	16844-3	▲ (12)	100F20/POSTLT/CL/LL 6/1	120	6	Clear Long Life PostLight	C, C-9		5 ¹ / ₄	4000		1250

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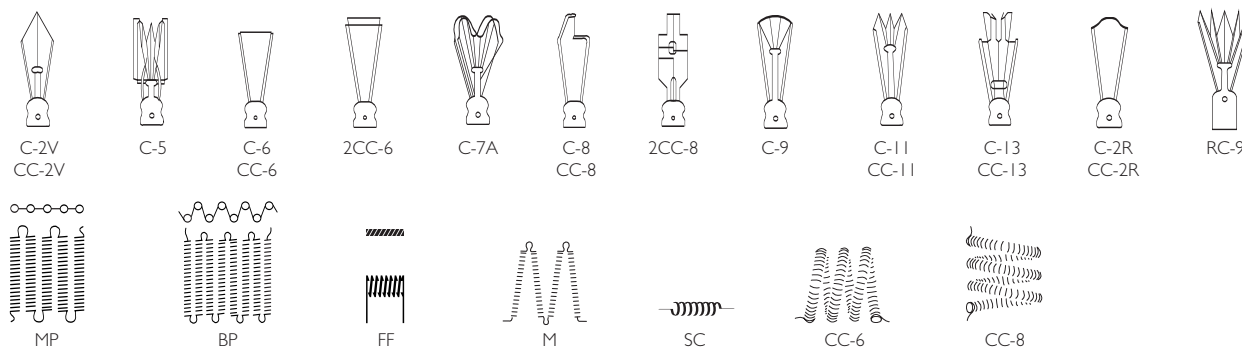
Incandescent

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (In.)	Rated Avg. Life, Hrs (93)	Approx. MBCP*	Lumens
Decoratives, Boxed													
15	BA-9	Cand.	31087-0	▲ (12)	15BA9C/4M	120	25	Clear Bent Tip	B, C-7A	3 3/4	4000		90
	G-16 1/2	Cand.	31132-4	▲ (12)	15G16-1/2C/4M	120	25	Clear Globe	B, C-7A	3	4000		80
25	B-10 1/2	Cand.	31114-2	▲ (12)	25B10-1/2C/4M	120	25	Clear Blunt Tip	C, C-7A	4 1/8	4000		135
	G-16 1/2	Cand.	31133-2	▲ (12)	25G16-1/2C/4M	120	25	Clear Globe	C, C-7A	3	4000		170
40	BA-9	Cand.	31093-8	▲ (12)	40BA9C/4M	120	25	Clear Bent Tip	C, C-7A	4 3/8	4000		270
	BA-9 1/2	Med.	31098-7	▲ (12)	40BA9-1/2/4M	120	25	Clear Bent Tip	C, C-7A	4 1/8	4000		270
	B-10 1/2	Cand.	31115-9	▲ (12)	40B10-1/2C/4M	120	25	Clear Blunt Tip	C, C-7A	4 1/8	4000		270
	G-16 1/2	Cand.	31134-0	▲ (12)	40G16-1/2C/4M	120	25	Clear Globe	C, C-7A	3	4000		250
60	BA-9	Cand.	31095-3	▲ (12)	60BA9C/4M	120	25	Clear Bent Tip	C, C-7A	4 3/8	4000		530
	BA-9 1/2	Med.	31099-5	▲ (12)	60BA9-1/2/4M	120	25	Clear Bent Tip	C, C-7A	4 1/8	4000		530
	B-10 1/2	Cand.	31116-7	▲ (12)	60B10-1/2C/4M	120	25	Clear Blunt Tip	C, C-7A	4 1/8	4000		530
Decoratives, All Others													
25	G-25	Med.	16887-2	▲	25G25/CL/LL 12/I	120	12	Clear Long Life Globe	C, CC-6	4 7/8	2000		235
			16748-6	▲	25G25/W/LL 12/I	120	12	White Long Life Globe	C, CC-6	4 7/8	2000		210
			16901-1	▲	25G25/CL/LL 4/3	120	12	Clear Long Life Globe	C, CC-6	4 7/8	2000		235
			16902-9	▲	25G25/W/LL 4/3	120	12	White Long Life Globe	C, CC-6	4 7/8	2000		210
	G40	Med.	13809 9		25G40/4M 6/I	120	6	Clear Long Life Globe	C, CC-6	4 7/8	2000		
40	G-25	Med.	16702-3	▲	40G25/CT	120	6	Clear Chrome-Top Long Life Globe	C, C-9	4 7/8	2000		200
			16747-8	▲	40G25/CL/LL 12/I	120	12	Clear Long Life Globe	C, CC-6	4 7/8	2000		460
			16746-0	▲	40G25/W/LL 12/I	120	12	White Long Life Globe	C, CC-6	4 7/8	2000		415
			16903-7	▲	40G25/CL/LL 4/3	120	12	Clear Long Life Globe	C, CC-6	4 7/8	2000		460
			16904-5	▲	40G25/W/LL 4/3	120	12	White Long Life Globe	C, CC-6	4 7/8	2000		415
	G-40	Med.	13563-3	▲	40G25/NTL 6/I	120	12	Natural Light Globe	C, CC-6	4 7/8	1500		320
			16857-5	▲	40G40/CL/LL 6/I	120	6	Clear Long Life Globe	C, C-9	6 15/16	3000		372
			16858-3	▲	40G40/W/LL 6/I	120	6	White Long Life Globe	C, C-9	6 15/16	3000		335
60	G-25	Med.	16896-2	▲	60G25/CL/LL 12/I	120	12	Clear Long Life Globe	C, CC-6	4 7/8	2000		775
			16749-4	▲	60G25/W/LL 12/I	120	12	White Long Life Globe	C, CC-6	4 7/8	2000		700
			16899-6	▲	60G25/CL/LL 4/3	120	12	Clear Long Life Globe	C, CC-6	4 7/8	2000		775
			16900-3	▲	60G25/W/LL 4/3	120	12	White Long Life Globe	C, CC-6	4 7/8	2000		700
			13562-4	▲	60G25/NTL 6/I	120	12	Natural Light Globe	C, CC-6	4 7/8	1500		560
	G-30	Med.	16849-2	▲	60G30/W/LL 6/I	120	6	White Long Life Globe	C, C-9	5 1/2	3000		580
	G-40	Med.	16851-8	▲	60G40/W/LL 6/I	120	6	White Long Life Globe	C, C-9	6 15/16	3000		595
			16852-6	▲	60G40/CL/LL 6/I	120	6	Clear Long Life Globe	C, C-9	6 15/16	3000		665
	G-25	Med.	13423-9	▲	100G25/W/LL 12/I	120	12	White Long Life Globe	C, CC-6	4 7/8	2000		1180
	G-30	Med.	16850-0	▲	100G30/W/LL 6/I	120	6	White Long Life Globe	C, C-9	5 1/2	3000		945
100	G-40	Med.	16853-4	▲	100G40/W/LL 6/I	120	6	White Long Life Globe	C, C-9	6 15/16	3000		985
			16859-1	▲	100G40/CL/LL 6/I	120	6	Clear Long Life Globe	C, C-9	6 15/16	3000		1100
150	G-40	Med.	16854-2	▲	150G40/W/LL 6/I	120	6	White Long Life Globe	C, C-9	6 15/16	3000		1770

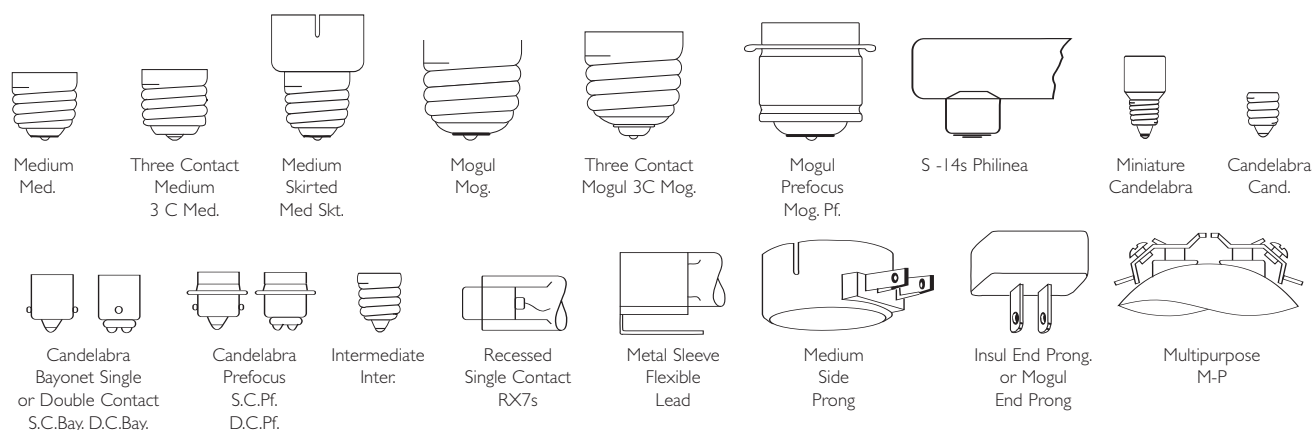
For the most current product information, go to the e-catalog on www.philips.com
Incandescent symbols and footnotes located on page 44

Filament Designations (Not Actual Sizes)

Filament designations consist of a letter or letters to indicate how the wire is coiled and an arbitrary number sometimes followed by a letter to indicate the arrangement of the filament on the supports. Prefix letters include C (coil) — wire is wound into a helical coil or it may be deeply fluted; CC (coiled coil) — wire is wound into a helical coil and this coiled wire again wound into a helical coil. Some of the more commonly used types of filament arrangements are illustrated.

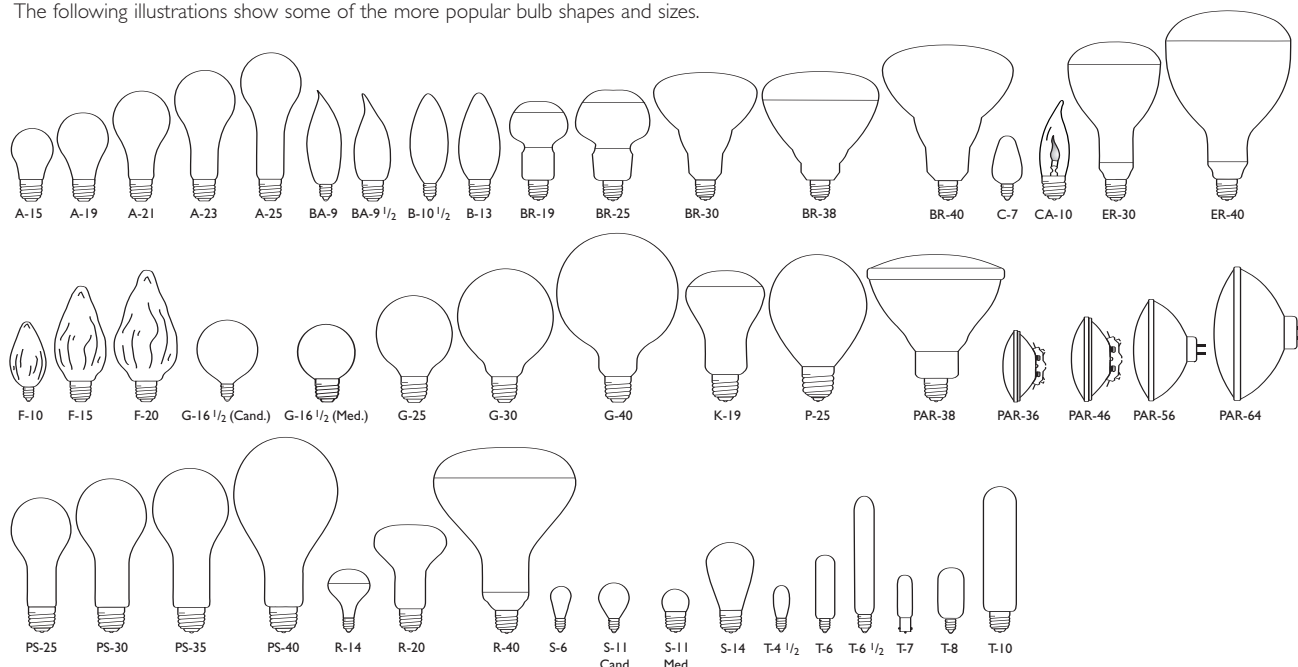


Base Shapes (Not Actual Sizes)



Bulb Shapes (Not Actual Sizes)

The size and shape of a bulb is designated by a letter or letters followed by a number. The letter indicates the shape of the bulb while the number indicates the diameter of the bulb in eighths of an inch. For example, "T-10" indicates a tubular shaped bulb having a diameter of $\frac{1}{8}$ or $\frac{1}{4}$ inches. The following illustrations show some of the more popular bulb shapes and sizes.



- Exclusive to Philips Lighting Company
- Quantity shown is minimum shipping container — refer to Net Price Schedule for number of lamps to qualify as a standard case.
- * Two Lamp Carded Pack.
- ▲ Aluminum base.
- Nickel plated brass base.
- ★ Heat resisting glass bulb.
- Consider the compact fluorescent lamps listed on pages 53–54 for energy savings
- \$ Energy Saving Product
- Maximum Beam Candlepower
- X Orders will be shipped until inventory is depleted; no longer manufactured
- (E) This Bulb Meets US Federal Minimum Efficiency Standard
- (2) Although the lamp is of the highest quality in material and workmanship, it has been designed to meet certain purchase requirements which preclude a guarantee of performance.
- (3) Indefinite-long life.
- (4) Average laboratory life is 200 hours for vacuum cleaner and 600 hours for sewing machine service. Design life 1000 hours.
- (8) Operate base down.
- (9) This lamp should be shielded from moisture to prevent breakage.
- (10) Operating position—horizontal.
- (11) Design volts 115.
- (12) Operate base down to horizontal.
- (13) Not recommended for horizontal burning.
- (14) Operate base up.
- (15) Operate base down. Filaments operated separately.
- (18) Base is medium left hand thread.
- (19) May not give satisfactory performance if any accessory equipment is attached to or touches the glass bulb.
- (22) Unsatisfactory lamp operation is likely to occur in operating positions between horizontal and base up, particularly between 45° from base up and base up.
- (23) May be operated in any position.
- (25) Base pins approximately parallel to plane of filament.
- (26) Use only on circuits supplying the voltage as marked on the lamp. DO NOT use in household sockets.
- (27) Average laboratory life in excess of 5000 hours. In-service life depends upon service conditions.
- (29) Suitable for indoor and outdoor service.
- (31) Operate only in porcelain sockets.
- (34) Operate base up to horizontal.
- (37) Should not be used in equipment where the base temperature will exceed 500°F.
- (41) Avoid use at short distances on materials that are inflammable or susceptible to heat damage.
- (43) Unless otherwise noted, may be operated in any position, but lumen maintenance is best when operated vertically base up.
- (46) Stippled, rounded cover.
- (49) Should not be used in equipment where the seal temperature exceeds 750°F.
- (50) For use on 50-60 cycle A.C. circuits.
- (51) Light output is maintained best when operated within 45° of vertically base up.
- (53) The bulb, though made of heat-resistant glass, may break if moisture falls on it. Not recommended for use in enclosed, close-fitting housings.
- (55) For use only with heat resistant connector and with lamp supported by bulb rim.
- (59) Life dependent upon service conditions.
- (63) Design volts 145.
- (64) For use only in equipment specially designed to maintain bulb and base temperature within safe limits.
- (65) AA tolerance 1/32", L.C.L. tolerance 3/64".
- (66) Silicone Coating reduces lumen output from Standard Values less than 3%.
- (72) Light Center Length & Axial Alignment tolerance 1/64".
- (75) 2 3/4" diameter unsilvered spot on end of bulb.
- (81) LCL & Axial Alignment tolerance 1/32".

(82) **CAUTION:** To avoid deterioration of lampholder by heat, use only heat resistant lampholders or fixtures listed by a nationally recognized electrical testing organization for use with reflector or PAR lamps.

(83) Base does not have ceramic insulator.

(86) **PAR Halogen Caution Notice:** Before using bulb, see operating instructions on inside flap. Adherence to the operating instructions will reduce the risk of personal injury or fire. The filament capsule contained inside this glass bulb is pressurized, operates at high temperature and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture and/or the surrounding environment, thereby creating a risk of personal injury or fire.

Operating Instructions: Before replacing, turn off power and let lamp cool to avoid electrical shock or burn.

— For indoor or outdoor use. A weather-protected fixture is recommended for wet locations.

— Suitable for use in open fixtures.

— Do not exceed the maximum wattage rating of the fixture.

— Do not use if outer glass is scratched or broken since it may break during operation or removal.

— If outer glass breaks the lamp may continue to light, however, immediately discontinue use.

— Due to the heat that radiates from the bulb, do not use in close proximity to combustible materials or objects susceptible to drying or fading.

— Manage in accord with disposal laws.

(87) Do not allow hot bulb to come in contact with liquid or metal parts of the fixture, as glass may shatter. Do not use outdoors. Do not operate in close proximity to flammable materials or those adversely affected by heat or drying. Operate only in heat resistant sockets.

(89) **CAUTION:** Do not operate in close proximity to flammable materials or those adversely affected by heat or drying. Operate only in heat resistant sockets.

WARNING: Use carefully. May cause serious burns. Do not use over insensitive skin areas or in the presence of poor circulation. The unattended use of infrared heat by children or incapacitated persons may be dangerous.

—Lamp should not be placed closer than 18" to the surface being irradiated.

—Do not use for therapeutic or topical applications unless recommended by a physician.

—For food warming, use only lamps with heat resisting glass.

(90) Since there is considerable heat radiation in the beam of this lamp, care should be taken against using it without suitable protection, in close proximity to combustible materials or those adversely affected by drying action.

(91) **CAUTION:** Do not touch inner capsule with bare hands. Fingerprints may result in shorter life. Remove fingerprints with alcohol. **THIS LAMP IS PRESSURIZED AND COULD SHATTER** so to avoid injury and to avoid exposure to ultraviolet radiation, use only in fixtures that provide a protective shield of tempered glass. Provide adequate ventilation to ensure that seal temperature does not exceed 350°C and use only in fixtures rated for the wattage stated on this package. To avoid risks of burns or other injury, turn power off and allow lamp to fully cool before attempting to replace. Socket condition may affect lamp life. Inspect and replace socket if deterioration has occurred.

(92) **CAUTION: THIS LAMP IS PRESSURIZED AND COULD SHATTER** so to avoid injury and to avoid exposure to ultraviolet radiation, this lamp should be used in a fixture that provides a protective shield of tempered glass. Provide adequate ventilation to ensure that seal temperature does not exceed 350°C and use only in fixtures rated for the wattage stated on this package. To avoid risks of burns or other injury, turn power off and allow lamp to fully cool before attempting to replace. Socket condition may affect lamp life. Inspect and replace socket if deterioration has occurred.

(93) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.

(94) To prevent electrical shock, match wide blade of plug to wide slot of outlet, fully insert. Do not cover night light; overheating may occur. Do not plug in near radiator or source of heat. **WARNING:** for indoor use only.

(95) **NOTICE:** Do not touch bulb with bare hands.

Fingerprints may result in shorter life. Remove fingerprints with alcohol. **CAUTION: THIS LAMP IS PRESSURIZED AND COULD SHATTER** so to avoid injury and to avoid exposure to ultraviolet radiation, use only in fixtures that provide a protective shield of tempered glass.

Provide adequate ventilation to ensure that seal temperature does not exceed 350°C and use only in fixtures rated for the wattage stated on this package. To avoid risks of burns or other injury, turn power off and allow lamp to fully cool before attempting to replace. Socket condition may affect lamp life. Inspect and replace socket if deterioration has occurred.

(96) **Operating Instructions:** Do not use lamp in close proximity to combustible materials. If used outdoors, use in an enclosed fixture only. If used indoors, no additional shield is required. Can be operated in all positions. **CAUTION:** Read operating instructions before use. If outer glass breaks, turn power off immediately and avoid touching any metal components. To avoid potential burn and electrical shock during lamp replacement, always turn power off and let lamp cool before replacing bulb. Lasts 2 years based on 4 hours average usage per day/7 days per week.

(97) **Operating Instructions:** Before replacing, turn off power and let lamp cool to avoid electrical shock or burn. For indoor use only. Do not allow hot bulb to come in contact with liquid or metal parts of the fixture as glass may shatter. Do not exceed the maximum wattage rating of the fixture. Do not use if outer glass is scratched or broken since it may break during operation or removal. If outer glass breaks the lamp may continue to light, however, immediately discontinue use. Due to the heat that radiates from the bulb, do not use in close proximity to combustible materials or objects susceptible to drying or fading. Manage in accord with disposal laws.

CAUTION: Adherence to the operating instructions will reduce the risk of personal injury or fire. The filament capsule contained inside this glass bulb is pressurized, operates at high temperature and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture and/or the surrounding environment, thereby creating a risk of personal injury or fire.

(98) **Note:** This twistline has a GU10 base and may be used in fixtures that have either GU10 or GZ10 sockets.

Operating Instructions: Do not use in close proximity to combustible materials or objects adversely affected by drying or fading. Can be operated in all positions. **CAUTION: THIS LAMP IS PRESSURIZED AND COULD SHATTER** so to avoid injury and to avoid exposure to ultraviolet radiation, this lamp should be used in a fixture that provides a protective shield of tempered glass. If outer glass breaks, immediately discontinue use. Always turn power off and let lamp cool before removal to avoid potential burn or electric shock.

(99) **WARNING: BULB OPERATES AT VERY HIGH TEMPERATURES AND MUST BE USED PROPERLY TO AVOID/REDUCE RISK OF FIRE.** Do not use bulbs greater than 300 watts in indoor residential fixtures. Use only in fixtures specifying this bulb type and that meet revised UL 153 standard for tungsten-halogen torchiere lamps. Bulb is pressurized and could shatter and should only be used in fixtures that provide a protective shield of tempered glass. To avoid exposure to ultraviolet radiation which could cause skin and eye irritation use only in fixtures that provide a protective shield of tempered glass. **NOTICE:** Do not touch bulb with bare hands. Fingerprints may result in reduced performance unless they are removed with alcohol. When operating, bulb is hot. To avoid risks of burns or injury, turn power off and allow bulb to cool before replacing. Socket conditions may affect bulb life. Inspect and replace socket if deterioration has occurred. Provide adequate ventilation to ensure that seal temperature does not exceed 350°C. **TO AVOID/ REDUCE RISK OF FIRE, DO NOT USE NEAR COMBUSTIBLE MATERIALS.**

Halogen Lighting

Put people in
the best light

Three simple families:

Halogen Lamps will provide bright, white light across the product line. Offers a rated average life[†] ranging from 2000 to 3000 hours depending upon the product, and feature excellent beam qualities for accent or ambient lighting.

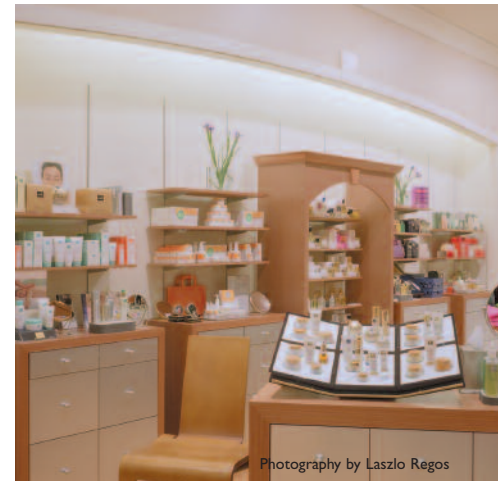
Halogen Long Life Lamps feature 6000 hour rated average life[†] which is double the life of comparable standard halogen lamps. These lamps are ideal for places where maintenance is expensive and disruptive. Longer life lamps also delay replacement frequency which will save on re-lamping costs.

Halogen Energy Advantage IR Lamps provide the most enhanced features of our halogen lamp line. The double ended burner with an IR coating optimizes lumen output. Therefore you can use a lower wattage lamp to achieve energy savings and also get up to 67% longer rated average life[†] than standard halogen lamps.

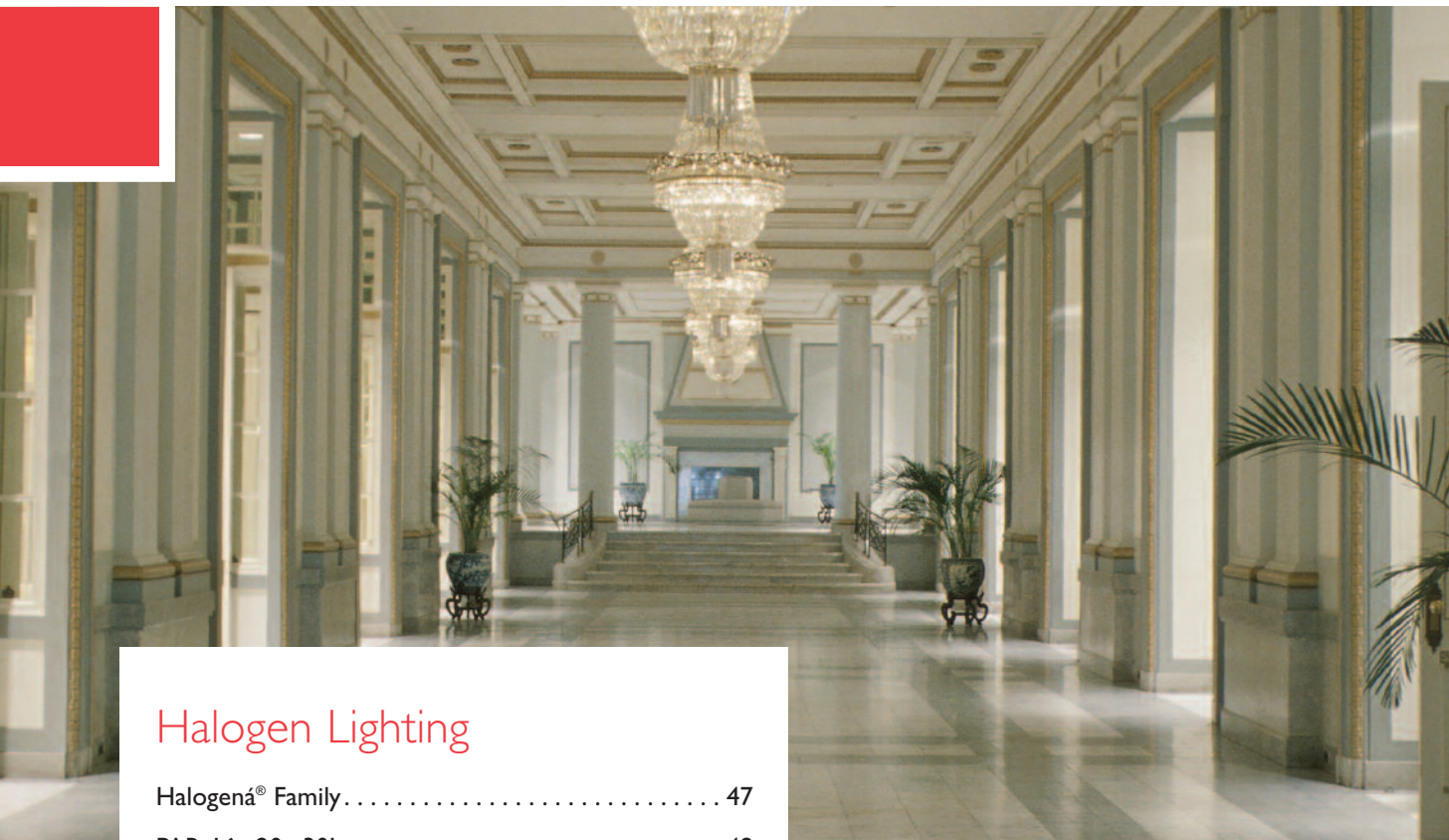
[†] Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.



Photography courtesy of Polo Ralph Lauren



Photography by Laszlo Regos



Halogen Lighting

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Philips Halogená® Lamps, the elegant, long life alternative to ordinary household light. Halogená provides bright, white light that lasts two years.[†] Their long life makes them great for hard-to-reach fixtures. Fewer replacements means less hassle. But that's not all, Halogená light bulbs are also fully dimmable, which can save energy. From Decorative to PARs, from the Classic to easy grip Reflectors, Halogená light bulbs provide bright, white light, indoors or out.

[†] Lasts 2 years based on 4 hours average usage per day/7 days per week.

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (in.)	Rated Avg. Life (93)	Approx MBCP*	Lumens
Halogená® Classic Blister-Carded (96)													
60	BT-15	Med	24924-3		BC60BT15/HAL/CL	120	10	Clear, Blister Card	C, CC-8	4	3000	—	900
			24926-8		BC60BT15/HAL/W	120	10	White, Blister Card	C, CC-8	4	3000	—	840
75	BT-15	Med.	24927-6		BC75BT15/HAL/W	120	10	White, Blister Card	C, CC-8	4	3000	—	1120
100	BT-15	Med.	24931-8		BC100BT15/HAL/W	120	10	White, Blister Card	C, CC-8	4	3000	—	1670
150	BT-15	Med.	24933-4		BC150BT15/HAL/W	120	10	White, Blister Card	C, CC-8	4	3000	—	2650

Natural Light Plus Blister-Carded (96)

60	BT-15	Med.	13958-4		BC60BT15/HAL/NLP/CL	120	10	Natural Light Plus	C, CC-8	4	3000	—	650
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NEW!
Halogená Decorative Blister-Carded (96)

25	CP-19	Med.	36472-9	□	BC25CP19/HAL/CL	120	6	Clear, Blister Card	C, CC-8	4 1/8	3000	—	300
	F-10 1/2	Cand.	38903-1		BC25F10-1/2C/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 3/8	3000	—	300
	F-10 1/2	Med.	38906-4		BC25F10-1/2/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 3/8	3000	—	300
	F-15	Med.	38904-9		BC25F15/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 1/8	3000	—	300
40	CP-19	Med.	36485-1	□	BC40CP19/HAL/CL	120	6	Clear, Blister Card	C, CC-8	4 1/8	3000	—	540
	F-10 1/2	Cand.	38901-5		BC40F10-1/2C/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 3/8	3000	—	540
	F-10 1/2	Med.	38895-9		BC40F10-1/2/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 3/8	3000	—	540
	F-15	Med.	38905-6		BC40F15/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 1/8	3000	—	540
60	CP-19	Med.	36411-7	□	BC60CP19/HAL/CL	120	6	Clear, Blister Card	C, CC-8	4 1/8	3000	—	900
	F-10 1/2	Cand.	39029-4		BC60F10-1/2C/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 3/8	3000	—	900
	F-10 1/2	Med.	38898-3		BC60F10-1/2/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 3/8	3000	—	900
	F-15	Med.	38551-8		BC60F15/HAL/POST TOP	120	4	Clear, Blister Card	C, CC-8	4 1/8	3000	—	900

Halogená Indoor Floodlight, Spotlight (97)

60	BR-30	Med.	38875-1	\$ □	60BR30/HAL/SP	120	6	Spot	C, CC-8	5 3/8	3000	2250	700
			38849-6	\$ □	60BR30/HAL/FL	120	6	Flood	C, CC-8	5 3/8	3000	500	700
	BR-40	Med.	39174-8	\$ □	60BR40/HAL/FL	120	6	Flood	C, CC-8	6 1/8	3000	325	750

Halogená PAR-16 Lamps Blister-Carded (82, 86)

45	PAR-16	Med.	13412-2	\$	BC45PAR16/HAL/FL/LL	120	6	Blister Card, Flood	C, CC-8	3 3/8	3000	1250	420
60	PAR-16	Med.	13413-0	\$	BC60PAR16/HAL/FL/LL	120	6	Blister Card, Flood	C, CC-8	3 3/8	3000	1800	580

Halogená PAR-20 Lamps (82, 86)

50	PAR-20	Med.	13411-4	\$	50PAR20/HAL/SP/LL	120	6	Spot	C, CC-8	3 3/8	3000	4000	520
			13410-6	\$	50PAR20/HAL/FL/LL	120	6	Flood	C, CC-8	3 3/8	3000	900	520

Halogená PAR-30 Long Lamps (82, 86)

50	PAR-30L	Med.	13407-2	\$ (E)	50PAR30L/HAL/FL/LL	120	6	Flood	C, CC-8	4 1/8	3000	2350	590
75	PAR-30L	Med.	13409-8	\$ (E)	75PAR30L/HAL/SP/LL	120	6	Spot	C, CC-8	4 1/8	3000	12300	1000
			13408-0	\$ (E)	75PAR30L/HAL/FL/LL	120	6	Flood	C, CC-8	4 1/8	3000	4100	1000

Halogená PAR-30 Short Lamps (82, 86)

60	PAR-30S	Med.	13406-4	\$ (E)	60PAR30S/HAL/FL/LL	120	6	Flood	C, CC-8	3 3/8	3000	2900	800
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Halogená PAR-38 Lamps (82, 86)

45	PAR-38	Med.Skt.	13404-9	\$ (E)	45PAR38/HAL/SP/LL	120	6	Spot	C, CC-8	5 3/8	3000	6200	530
	Standard Reflector		13401-5	\$ (E)	45PAR38/HAL/FL/LL	120	6	Flood	C, CC-8	5 3/8	3000	2000	530
60	PAR-38	Med.Skt.	14022-8	\$ (E)	60PAR38/HAL/FL/LL	120	6	Flood	C, CC-8	5 3/8	3000	3200	800
90	PAR-38	Med.Skt.	13405-6	\$ (E)	90PAR38/HAL/SP/LL	120	6	Spot	C, CC-8	5 3/8	3000	16,400	1350
	Standard Reflector		13402-3	\$ (E)	90PAR38/HAL/FL/LL	120	6	Flood	C, CC-8	5 3/8	3000	5350	1350

Halogen PAR-38 Lamps (82, 86)

45	PAR-38	Med.Skt.	14060-8	\$ (E)	45PAR38/HAL/SP	120	6	Spot	C, CC-8	5 3/8	2000	6400	560
			26883-9	\$ (E)	45PAR38/HAL/FL	120	6	Flood	C, CC-8	5 3/8	2000	2100	560
90	PAR-38	Med.Skt.	14023-6	\$ (E)	90PAR38/HAL/SP	120	6	Spot	C, CC-8	5 3/8	2000	16,500	1370
			26877-1	\$ (E)	90PAR38/HAL/FL	120	6	Flood	C, CC-8	5 3/8	2000	5400	1370

For the most current product information, go to the e-catalog on www.philips.com

Halogen symbols and footnotes located on page 56

Halogen

PAR-16, PAR-20, PAR-30L Lamps

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (in.)	Rated Avg. Life (93)	Approx MBCP*	Lumens
Halogen PAR-16 Lamps (82,86)													
45	PAR-16	Med.	26335-0	\$	45PAR16/HAL/SP10	120	15	Spot 10°	C, CC-8	3 ½	3000	3800	420
			26345-9	\$	45PAR16/HAL/FL27	120	15	Flood 27°	C, CC-8	3 ½	3000	1250	420
60	PAR-16	Med.	33004-3	\$	60PAR16/HAL/SP10	120	15	Spot 10°	C, CC-8	3 ½	3000	5000	580
			33006-8	\$	60PAR16/HAL/FL27	120	15	Flood 27°	C, CC-8	3 ½	3000	1800	580
Halogen PAR-16 Lamps 130V (82,86)													
45	PAR-16	Med.	26338-4	\$	45PAR16/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 40W	C, CC-8	3 ½	2500 5000	3950 3160	450 340
			26348-3	\$	45PAR16/HAL/FL27	130	15	Flood 27° Ratings @ 120V = 40W	C, CC-8	3 ½	2500 5000	1300 1040	450 340
60	PAR-16	Med.	33005-0	\$	60PAR16/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 53W	C, CC-8	3 ½	3000 6000	5000 4000	580 450
			33007-6	\$	60PAR16/HAL/FL27	130	15	Flood 27° Ratings @ 120V = 53W	C, CC-8	3 ½	3000 6000	1800 1440	580 450
Halogen PAR-20 Lamps WISO Reflector (82,86)													
50	PAR-20	Med.	22906-2	\$	50PAR20/HAL/SP10	120	15	Spot 10°	C, CC-8	3 ¾	3000	4000	520
			22911-2	\$	50PAR20/HAL/FL25	120	15	Flood 25°	C, CC-8	3 ¾	3000	900	520
Halogen PAR-20 Lamps 130V WISO Reflector (82,86)													
50	PAR-20	Med.	13846-1	\$	50PAR20/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 44W	C, CC-8	3 ¾	2000 4000	4150 3320	550 420
			22921-1	\$	50PAR20/HAL/FL25	130	15	Flood 25° Ratings @ 120V = 44W	C, CC-8	3 ¾	2000 4000	1100 880	550 420
Halogen PAR-30L Long Neck Lamps WISO Reflector (82,86)													
50	PAR-30L	Med.	22922-9	\$ (E)	50PAR30L/HAL/SP10	120	15	Spot 10°	C, CC-8	4 ½	3000	7500	590
			22923-7	\$ (E)	50PAR30L/HAL/WSP16	120	15	Wide Spot 16°	C, CC-8	4 ½	3000	3800	590
			22925-2	\$ (E)	50PAR30L/HAL/FL25	120	15	Flood 25°	C, CC-8	4 ½	3000	2350	590
			22927-8	\$ (E)	50PAR30L/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	4 ½	3000	950	590
75	PAR-30L	Med.	22930-2	\$ (E)	75PAR30L/HAL/SP10	120	15	Spot 10°	C, CC-8	4 ½	3000	12,300	1000
			22934-4	\$ (E)	75PAR30L/HAL/WSP16	120	15	Wide Spot 16°	C, CC-8	4 ½	3000	6900	1000
			22941-9	\$ (E)	75PAR30L/HAL/FL25	120	15	Flood 25°	C, CC-8	4 ½	3000	4100	1000
			22944-3	\$ (E)	75PAR30L/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	4 ½	3000	1650	1000
Halogen PAR-30L Long Neck Lamps 130V WISO Reflector (82,86)													
50	PAR-30L	Med.	13847-9	\$ (E)	50PAR30L/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 44W	C, CC-8	4 ½	2000 4000	8500 6800	630 470
			22926-0	\$ (E)	50PAR30L/HAL/FL25	130	15	Flood 25° Ratings @ 120V = 44W	C, CC-8	4 ½	2000 4000	2450 1960	630 470
			22928-6	\$ (E)	50PAR30L/HAL/WFL40	130	15	Wide Flood 40° Ratings @ 120V = 44W	C, CC-8	4 ½	2000 4000	1050 840	630 470
75	PAR-30L	Med.	13848-7	\$ (E)	75PAR30L/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 66W	C, CC-8	4 ½	2500 5000	13,000 10,400	1050 780
			22943-5	\$ (E)	75PAR30L/HAL/FL25	130	15	Flood 25° Ratings @ 120V = 66W	C, CC-8	4 ½	2500 5000	4200 3360	1050 780
			22945-0	\$ (E)	75PAR30L/HAL/WFL40	130	15	Wide Flood 40° Ratings @ 120V = 66W	C, CC-8	4 ½	2500 5000	1750 1400	1050 780

For the most current product information, go to the e-catalog on www.philips.com
Halogen symbols and footnotes located on page 56

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (in.)	Rated Avg. Life (93)	Approx MBCP*	Lumens
Halogen PAR-30S Short Lamps WISO Reflector (82,86)													
50	PAR-30S	Med.	26349-1	\$ (E)	50PAR30S/HAL/SP10	120	15	Spot 10°	C, CC-8	3 ½	3000	6600	610
			26358-2	\$ (E)	50PAR30S/HAL/FL25	120	15	Flood 25°	C, CC-8	3 ½	3000	2250	610
			26364-0	\$ (E)	50PAR30S/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	3 ½	3000	1000	610
60	PAR-30S	Med.	35751-7	\$ (E)	60PAR30S/HAL/SP10	120	15	Spot 10°	C, CC-8	3 ½	3000	9650	800
			35753-3	\$ (E)	60PAR30S/HAL/FL25	120	15	Flood 25°	C, CC-8	3 ½	3000	2900	800
			35758-2	\$ (E)	60PAR30S/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	3 ½	3000	1300	800
75	PAR-30S	Med.	28479-4	\$ (E)	75PAR30S/HAL/SP10	120	15	Spot 10°	C, CC-8	3 ½	3000	12,900	1050
			28488-5	\$ (E)	75PAR30S/HAL/FL25	120	15	Flood 25°	C, CC-8	3 ½	3000	4100	1050
			28491-9	\$ (E)	75PAR30S/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	3 ½	3000	1650	1050

Halogen PAR-30S Short Lamps 130V WISO Reflector (82,86)

50	PAR-30S	Med.	26357-4	\$ (E)	50PAR30S/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 44W	C, CC-8	3 ½	2000 4000	7100 5680	630 480
			26362-4	\$ (E)	50PAR30S/HAL/FL25	130	15	Flood 25° Ratings @ 120V = 44W	C, CC-8	3 ½	2000 4000	2300 1840	630 480
			26384-8	\$ (E)	50PAR30S/HAL/WFL40	130	15	Wide Flood 40° Ratings @ 120V = 44W	C, CC-8	3 ½	2000 4000	1020 816	630 480
60	PAR-30S	Med.	35752-5	\$ (E)	60PAR30S/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 53W	C, CC-8	3 ½	3000 6000	9650 7720	800 610
			35788-9	\$ (E)	60PAR30S/HAL/FL25	130	15	Flood 25° Ratings @ 120V = 53W	C, CC-8	3 ½	3000 6000	2900 2320	800 610
			35762-4	\$ (E)	60PAR30S/HAL/WFL40	130	15	Wide Flood 40° Ratings @ 120V = 53W	C, CC-8	3 ½	3000 6000	1300 1040	800 610
75	PAR-30S	Med.	13849-5	\$ (E)	75PAR30S/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 66W	C, CC-8	3 ½	2500 5000	12,900 10,320	1050 800
			13467-6	\$ (E)	75PAR30S/HAL/FL25	130	15	Flood 25° Ratings @ 120V = 66W	C, CC-8	3 ½	2500 5000	4100 3280	1050 800
			28492-7	\$ (E)	75PAR30S/HAL/WFL40	130	15	Wide Flood 40° Ratings @ 120V = 66W	C, CC-8	3 ½	2500 5000	1650 1320	1050 800

Halogen Energy Advantage IR PAR-30S Short Lamps Featuring Halogen Infrared Technology and WISO Reflector (82,86)

LOWER WATTAGE ENERGY SAVING LAMPS

40	PAR-30S	Med.	14496-3	\$ (E)	40PAR30S/IRC/HAL/SP10	120	15	Spot 10°	C, CC-8	3 ½	4200	9100	720
			14497-1	\$ (E)	40PAR30S/IRC/HAL/FL25	120	15	Flood 25°	C, CC-8	3 ½	4200	2420	720
			14498-9	\$ (E)	40PAR30S/IRC/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	3 ½	4200	1150	720
50	PAR-30S	Med.	14499-7	\$ (E)	50PAR30S/IRC/HAL/SP10	120	15	Spot 10°	C, CC-8	3 ½	4200	12,300	970
			14500-3	\$ (E)	50PAR30S/IRC/HAL/FL25	120	15	Flood 25°	C, CC-8	3 ½	4200	3850	970
			14501-1	\$ (E)	50PAR30S/IRC/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	3 ½	4200	1460	970

NEW!

Halogen Energy Advantage IR PAR-30S Short Lamps 130V Featuring Halogen Infrared Technology and WISO Reflector (82, 86)

50	PAR-30S	Med.	13853-7	\$ (E)	50PAR30S/IRC/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 44W	C, CC-8	3 ½	3000 6000	11,000 —	840 650
			13854-5	\$ (E)	50PAR30S/IRC/HAL/FL25	130	15	Flood 25° Ratings @ 120V = 44W	C, CC-8	3 ½	3000 6000	3400 —	840 650
			13855-2	\$ (E)	50PAR30S/IRC/HAL/WFL40	130	15	W. Flood 40° Ratings @ 120V = 44W	C, CC-8	3 ½	3000 6000	1350 —	840 650

Halogen Long Life IR PAR-30S Short Lamps Featuring Halogen Infrared Technology and WISO Reflector (82,86)

These lamps are 130V lamps run on 120V.

45	PAR-30S	Med.	13850-3	\$ (E)	45PAR30S/IRC/HAL/SP10	120	15	Spot 10°	C, CC-8	3 ½	6000	8560	650
			13851-1	\$ (E)	45PAR30S/IRC/HAL/FL25	120	15	Flood 25°	C, CC-8	3 ½	6000	2340	650
			13852-9	\$ (E)	45PAR30S/IRC/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	3 ½	6000	1050	650

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Halogen symbols and footnotes located on page 56

Halogen

PAR-36, PAR-38 Lamps

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (in.)	Rated Avg. Life (93)	Approx MBCP*	Lumens
Halogen PAR-36 Lamps													
50	PAR-36	MP	13082-3	\$	50PAR36Q/VNSP6	12	12	PAR, Narrow Spot	C, C-6	2 3/4	4000	35,000	400
Halogen PAR-38 Lamps (82, 86)													
45	PAR-38 Standard Reflector	Med.Skt.	22946-8	\$E	45PAR38/HAL/SP10	120	12	Spot 10°	C, CC-8	5 3/8	3000	6200	530
			22948-4	\$E	45PAR38/HAL/FL25	120	12	Flood 25°	C, CC-8	5 3/8	3000	2000	530
60	PAR-38 Standard Reflector	Med. Skt.	14482-4	\$E	60PAR38/HAL/SP10	120	12	Spot 10°	C, CC-8	5 3/8	3000	10,500	800
			14483-2	\$E	60PAR38/HAL/FL25	120	12	Flood 25°	C, CC-8	5 3/8	3000	3200	800
			14484-0	\$E	60PAR38/HAL/WFL40	120	12	W. Flood 40°	C, CC-8	5 3/8	3000	1300	800
75	PAR-38 Standard Reflector	Med. Skt.	14485-7	\$E	75PAR38/HAL/SP10	120	12	Spot 10°	C, CC-8	5 3/8	3000	13,000	1050
			14486-5	\$E	75PAR38/HAL/FL25	120	12	Flood 25°	C, CC-8	5 3/8	3000	3800	1050
90	PAR-38 Standard Reflector	Med. Skt.	23069-8	\$E	90PAR38/HAL/SP10	120	12	Spot 10°	C, CC-8	5 3/8	3000	16,400	1350
			23070-6	\$E	90PAR38/HAL/FL25	120	12	Flood 25°	C, CC-8	5 3/8	3000	5350	1350
			14487-3	\$E	90PAR38/HAL/WFL40	120	12	W. Flood 40°	C, CC-8	5 3/8	3000	2200	1350
Halogen PAR-38 Lamps 130V (82, 86)													
45	PAR-38 Standard Reflector	Med.Skt.	22947-6	\$E	45PAR38/HAL/SP10	130	12	Spot 10° Ratings @ 120V = 40W	C, CC-8	5 3/8	2500 5000	6200 4960	530 410
			22949-2	\$E	45PAR38/HAL/FL25	130	12	Flood 25° Ratings @ 120V = 40W	C, CC-8	5 3/8	2500 5000	2000 1600	530 410
60	PAR-38 Standard Reflector	Med.Skt.	14488-1	\$E	60PAR38/HAL/SP10	130	12	Spot 10° Ratings @ 120V = 53W	C, CC-8	5 3/8	3000 6000	10,500 8400	800 610
			14490-7	\$E	60PAR38/HAL/FL25	130	12	Flood 25° Ratings @ 120V = 53W	C, CC-8	5 3/8	3000 6000	3200 2560	800 610
								14491-5			\$E	60PAR38/HAL/WFL40	130
75	PAR-38 Standard Reflector	Med.Skt.	14492-3	\$E	75PAR38/HAL/NSP8	130	12	N. Spot 8° Ratings @ 120V = 66W	C, CC-8	5 3/8	2500 5000	16,750 13,400	1100 840
			14493-1	\$E	75PAR38/HAL/SP10	130	12	Spot 10° Ratings @ 120V = 66W	C, CC-8	5 3/8	2500 5000	14,000 11,200	1100 840
								14494-9			\$E	75PAR38/HAL/FL25	130
90	PAR-38 Standard Reflector	Med.Skt.	23650-5	\$E	90PAR38/HAL/SP10	130	12	Spot 10° Ratings @ 120V = 79W	C, CC-8	5 3/8	2500 5000	16,400 13,120	1350 1020
			23651-3	\$E	90PAR38/HAL/FL25	130	12	Flood 25° Ratings @ 120V = 79W	C, CC-8	5 3/8	2500 5000	5350 4280	1350 1020
								14495-5			\$E	90PAR38/HAL/WFL40	130

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Halogen symbols and footnotes located on page 56

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (in.)	Rated Avg. Life (93)	Approx MBCP*	Lumens
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Halogen Energy Advantage IR PAR-38 Lamps Featuring Halogen Infrared Technology and DiOptic Reflector (82,86)

LOWER WATTAGE ENERGY SAVING LAMPS

40	PAR-38	Med.Skt.	I4502-9	\$ €	40PAR38/IRC/HAL/SP10	120	12	Spot 10°	C, CC-8	5 ½	4200	11,000	720
	DiOptic		I4503-7	\$ €	40PAR38/IRC/HAL/FL25	120	12	Flood 25°	C, CC-8	5 ½	4200	2900	720
	Reflector		I4504-5	\$ €	40PAR38/IRC/HAL/WFL40	120	12	Wide Flood 40°	C, CC-8	5 ½	4200	1200	720
50	PAR-38	Med.Skt.	I4505-2	\$ €	50PAR38/IRC/HAL/SP10	120	12	Spot 10°	C, CC-8	5 ½	4200	15,500	970
	DiOptic		I4506-0	\$ €	50PAR38/IRC/HAL/FL25	120	12	Flood 25°	C, CC-8	5 ½	4200	4000	970
	Reflector		I4507-8	\$ €	50PAR38/IRC/HAL/WFL40	120	12	Wide Flood 40°	C, CC-8	5 ½	4200	1600	970

NEW!

60	PAR-38	Med.Skt.	I3873-5	\$ €	60PAR38/IRC/HAL/SP10	120	12	Spot 10°	C, CC-8	5 ½	4200	15,500	1120
	DiOptic		I3874-3	\$ €	60PAR38/IRC/HAL/FL25	120	12	Flood 25°	C, CC-8	5 ½	4200	5100	1120
	Reflector		I3875-0	\$ €	60PAR38/IRC/HAL/WFL40	120	12	W. Flood 40°	C, CC-8	5 ½	4200	1800	1120
70	PAR-38	Med.Skt.	I3861-0	\$ €	70PAR38/IRC/HAL/SP10	120	12	Spot 10°	C, CC-8	5 ½	4200	17,800	1550
	DiOptic		I3862-8	\$ €	70PAR38/IRC/HAL/FL25	120	12	Flood 25°	C, CC-8	5 ½	4200	6170	1550
	Reflector		I3863-6	\$ €	70PAR38/IRC/HAL/WFL40	120	12	W. Flood 40°	C, CC-8	5 ½	4200	2320	1550
100	PAR-38	Med.Skt.	I3876-8	\$ €	100PAR38/IRC/HAL/SP10	120	12	Spot 10°	C, CC-8	5 ½	4200	26,400	2200
	DiOptic		I3877-6	\$ €	100PAR38/IRC/HAL/FL25	120	12	Flood 25°	C, CC-8	5 ½	4200	8500	2200
	Reflector		I3878-4	\$ €	100PAR38/IRC/HAL/WFL40	120	12	W. Flood 40°	C, CC-8	5 ½	4200	3500	2200

Halogen Energy Advantage IR PAR-38 Lamps 130V Featuring Halogen Infrared Technology and DiOptic Reflector (82,86)

60	PAR-38	Med.Skt.	I3920-4	\$ €	60PAR38/IRC/HAL/SP10	130	12	Spot 10°	C, CC-8	5 ½	4200	15,500	1120
	DiOptic							Ratings @ 120V = 53W			8400	—	880
	Reflector		I3879-2	\$ €	60PAR38/IRC/HAL/FL25	130	12	Flood 25°	C, CC-8	5 ½	4200	5100	1120
								Ratings @ 120V = 53W			8400	—	880
			I3918-8	\$ €	60PAR38/IRC/HAL/WFL40	130	12	W. Flood	C, CC-8	5 ½	4200	1800	1120
								Ratings @ 120V = 53W			8400	—	880

Halogen Long Life IR PAR-38 Featuring Halogen Infrared Technology and DiOptic Reflector (82,86)

These lamps are 130V lamps run on 120V.

45	PAR-38	Med.Skt.	I3919-6	\$ €	45PAR38/IRC/HAL/SP10	120	12	Spot 10°	C, CC-8	5 ½	6000	8750	675
	DiOptic		I3856-0	\$ €	45PAR38/IRC/HAL/FL25	120	12	Flood 25°	C, CC-8	5 ½	6000	2570	675
	Reflector		I3857-8	\$ €	45PAR38/IRC/HAL/WFL40	120	12	W. Flood 40°	C, CC-8	5 ½	6000	1100	675
55	PAR-38	Med.Skt.	I3858-6	\$ €	55PAR38/IRC/HAL/SP10	120	12	Spot 10°	C, CC-8	5 ½	6000	10,700	880
	DiOptic		I3859-4	\$ €	55PAR38/IRC/HAL/FL25	120	12	Flood 25°	C, CC-8	5 ½	6000	3650	880
	Reflector		I3860-2	\$ €	55PAR38/IRC/HAL/WFL40	120	12	W. Flood 40°	C, CC-8	5 ½	6000	1400	880
90	PAR-38	Med.Skt.	I3864-4	\$ €	90PAR38/IRC/HAL/SP10	120	12	Spot 10°	C, CC-8	5 ½	6000	19,500	1650
	DiOptic		I3865-1	\$ €	90PAR38/IRC/HAL/FL25	120	12	Flood 25°	C, CC-8	5 ½	6000	7200	1650
	Reflector		I3866-9	\$ €	90PAR38/IRC/HAL/WFL40	120	12	W. Flood 40°	C, CC-8	5 ½	6000	2500	1650

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Halogen symbols and footnotes located on page 56

Halogen

PAR-38, MRC-11, MRC-16, MR-16 Lamps

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (in.)	Rated Avg. Life (93)	Approx MBCP*	Lumens
Halogen PAR-38 Lamps, Medium Side Prong Base (82,86)													
60	PAR-38 Standard Reflector	Med. Side Prong	38887-6	Ⓔ	60PAR38/HAL/3FL	120	12	Flood 25°	C, CC-8	4 1/8	3000	3000	770
90	PAR-38 Standard Reflector	Med. Side Prong	38890-0	Ⓔ	90PAR38/HAL/3FL	130	12	Flood 25° Ratings @ 120V = 79W	C, CC-8	4 1/8	2500 5000	4500 3600	1350 1020

Halogen PAR-38 Lamps, Cool Beam Reflector

60	PAR-38 Standard Reflector	Med.Skt.	38884-3	Ⓔ	60PAR38/HAL/2FL	130	12	Flood 25° Ratings @ 120V = 53W	C, CC-8	5 1/8	3000 6000	3000 2400	770 590
90	PAR-38 Standard Reflector	Med.Skt.	38886-8	Ⓔ	90PAR38/HAL/2FL	130	12	Flood 25° Ratings @ 120V = 79W	C, CC-8	5 1/8	2500 5000	4500 3600	1350 1020

Halogen MRC-11 Blister-Carded (92)

20	MRC-11	GU4	13345-4		BC20MRC11/FL30	12	12	Blister Card, Flood 30°	C, CC-8	1 1/8	2000	500	230
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Halogen MRC-11 (Formerly BrilliantLine Pro) (92)

20	MRC-11	GU4	37821-6		20MRC11/SPI0 PRO FTB	12	50	Spot 10°	C, CC-8	1 1/8	4000	4800	310
			37822-4		20MRC11/FL30 PRO FTD	12	50	Flood 30°	C, CC-8	1 1/8	4000	690	320

MRC-16 Halogen Display Lamps Blister-Carded (Formerly AccentLine) Dichroic Reflector With Lens (92)

20	MRC-16	GU5.3	39248-0		BC20MRC16/FL36-BAB	12	12	Blister Card, Flood 36°	C, C-8	1 1/8	3000	500	200
35	MRC-16	GU5.3	39256-3		BC35MRC16/FL36-FMX	12	12	Blister Card, Flood 36°	C, C-8	1 1/8	3000	1000	400
50	MRC-16	GU5.3	39262-1		BC50MRC16/SPI0-EXT	12	12	Blister Card, Spot 10°	C, C-8	1 1/8	3000	6200	600
			39259-7		BC50MRC16/FL36-EXN	12	12	Blister Card, Flood 36°	C, C-8	1 1/8	3000	1500	600

Halogen MR (Formerly AccentLine) (91)

20	MR-16	GU5.3	37802-6		20MRI6/SPI0 ESX	12	50	Spot 10°	C, C-8	1 1/8	3000	3400	240
			37803-4		20MRI6/FL36 BAB	12	50	Flood 36°	C, C-8	1 1/8	3000	550	240
35	MR-16	GU5.3	14055-8		35MRI6/SPI0	12	50	Spot 10°	C, C-8	1 1/8	3000	6000	510
			14056-6		35MRI6/FL36	12	50	Flood 36°	C, C-8	1 1/8	3000	1000	540
50	MR-16	GU5.3	37804-2		50MRI6/SPI0 EXT	12	50	Spot 10°	C, C-8	1 1/8	3000	8800	790
			37807-5		50MRI6/NFL24 EXZ	12	50	N. Flood 24°	C, C-8	1 1/8	3000	2500	800
			37805-9		50MRI6/FL36 EXN	12	50	Flood 36°	C, C-8	1 1/8	3000	1600	850

Halogen MR Long Life (Formerly BrilliantLine Pro and Continuum Color) (91, 92)

20	MRC-16	GU5.3	37814-1 (92)		20MRC16/SPI0 ESX	12	50	Spot 10°	C, C-8	1 1/8	6000	5000	310
			26966-2 (92)		20MRC16/NFL24 BBF	12	50	N. Flood 24°	C, C-8	1 1/8	6000	1700	320
			37815-8 (92)		20MRC16/FL36 BAB	12	50	Flood 36°	C, C-8	1 1/8	6000	780	320
35	MRC-16	GU5.3	14054-1 (92)		35MRC16/SPI0	12	50	Spot 10°	C, C-8	1 1/8	6000	8000	680
			14052-5 (92)		35MRC16/NFL24	12	50	N. Flood 24°	C, C-8	1 1/8	6000	3100	690
			14053-3 (92)		35MRC16/FL36	12	50	Flood 36°	C, C-8	1 1/8	6000	1500	710
50	MRC-16	GU5.3	37816-6 (92)		50MRC16/SPI0 EXT	12	50	Spot 10°	C, C-8	1 1/8	6000	13000	920
			14061-6 (92)		50MRC16/SPI5	12	50	Spot 15°	C, C-8	1 1/8	6000	8000	930
			37817-4 (92)		50MRC16/NFL24 EXZ	12	50	N. Flood 24°	C, C-8	1 1/8	6000	4400	960
			37818-2 (92)		50MRC16/FL36 EXN	12	50	Flood 36°	C, C-8	1 1/8	6000	2200	970
75	MR-16	GU5.3	37808-3 (91)		75MRI6/SPI0 EYF	12	50	Spot 10°	C, C-8	1 1/8	6000	14000	1320
			37809-1 (91)		75MRI6/FL36 EYC	12	50	Flood 36°	C, C-8	1 1/8	6000	2500	1410

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Halogen symbols and footnotes located on page 56

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (in.)	Rated Avg. Life (93)	Approx. MBCP*	Lumens
Halogen MR Energy Advantage IR (Formerly MasterLine® ES IRC) (92)													
20	MRC-16	GU5.3	13451-0		20MRC16/IRC/SP8	12	20	Spot 8°	C, C-8	1 1/2	5000	6500	370
			13452-8		20MRC16/IRC/FL36	12	20	Flood 36°	C, C-8	1 1/2	5000	1000	400
30	MRC-16	GU5.3	14057-4		30MRC16/IRC/SP8	12	20	Spot 8°	C, C-8	1 1/2	5000	11,000	640
			14058-2		30MRC16/IRC/NFL24	12	20	N. Flood 24°	C, C-8	1 1/2	5000	3350	660
			14063-2		30MRC16/IRC/FL36	12	20	Flood 36°	C, C-8	1 1/2	5000	1600	680
35	MRC-16	GU5.3	13453-6		35MRC16/IRC/SP8	12	20	Spot 8°	C, C-8	1 1/2	5000	14,000	780
			13454-4		35MRC16/IRC/NFL24	12	20	N. Flood 24°	C, C-8	1 1/2	5000	4400	800
			13455-1		35MRC16/IRC/FL36	12	20	Flood 36°	C, C-8	1 1/2	5000	2200	830
			13456-9		35MRC16/IRC/WFL60	12	20	W. Flood 60°	C, C-8	1 1/2	5000	1050	870
45	MRC-16	GU5.3	13457-7		45MRC16/IRC/SP8	12	20	Spot 8°	C, C-8	1 1/2	5000	16,000	1020
			13458-5		45MRC16/IRC/NFL24	12	20	N. Flood 24°	C, C-8	1 1/2	5000	5450	1080
			13459-3		45MRC16/IRC/FL36	12	20	Flood 36°	C, C-8	1 1/2	5000	2850	1100
			13460-1		45MRC16/IRC/WFL60	12	20	W. Flood 60°	C, C-8	1 1/2	5000	1300	1180

Halogen MR Aluminum (Formerly Continuum Pro) (92)

50	MRC-16	GU5.3	13981-6		50 MRC16/NFL24/A	12	50	N. Flood 24°	C, C-8	1 1/2	5000	3300	940
			13982-4		50 MRC16/FL36/A	12	50	Flood 36°	C, C-8	1 1/2	5000	2100	950

Closed Aluminum Reflector (ALR) Lamps Aluminum Reflector With Lens (92)

20	37mm	BA15d	32840-1		20ALR12/NSP6-GBD Clear	12	50	Clear, N. Spot 6°	C, C-8	1 1/2	2000	7000	250
			34002-6		20ALR12/SP18-GBE Frost	12	50	Frost, Spot 18°	C, C-8	1 1/2	2000	1500	250
			34003-4		20ALR12/FL32-GBF Frost	12	50	Frost, Flood 32°	C, C-8	1 1/2	2000	750	250
50	56mm	B15d	32826-0		50ALR18/SP10-GBJ Clear	12	50	Clear, Spot 10°	C, C-8	2 1/4	2000	13,000	820
			34091-9		50ALR18/NFL25-GBK Frost	12	50	Frost, N. Flood 25°	C, C-8	2 1/4	2000	2500	820

ALUline PRO III

50	ALU Pro III	G53	13396-6		ALU111MM 50W G53 12V 8D	12	6	Spot 8°	C, C-8	2 3/4	3000	23,000	950
			13397-4		ALU111MM 50W G53 12V 24D	12	6	Flood 24°	C, C-8	2 3/4	3000	4000	950
75	ALU Pro III	G53	13398-2		ALU111MM 75W G53 12V 8D	12	6	Spot 8°	C, C-8	2 3/4	3000	30,000	1575
			13399-0		ALU111MM 75W G53 12V 24D	12	6	Flood 24°	C, C-8	2 3/4	3000	5300	1575
			13400-7		ALU111MM 75W G53 12V 45D	12	6	Wide Flood 45°	C, C-8	2 3/4	3000	1900	1575

Twistline GU10 Blister-Carded (98)

25	Twistline	GU10	13587-1		BC25TWISTLINE GU10/FL25	120	6	Blister Card, Flood 25°	C, C-6	2	3000	345	160
35	Twistline	GU10	13347-0		BC35TWISTLINE GU10/FL25	120	6	Blister Card, Flood 25°	C, C-6	2	3000	480	265
50	Twistline	GU10	13081-5		BC50TWISTLINE GU10/FL25	120	6	Blister Card, Flood 25°	C, C-6	2	3000	700	430

For the most current product information, go to the e-catalog on www.philips.com
Halogen symbols and footnotes located on page 56

Halogen

Single-Ended Linear, Double-Ended Linear, Low Voltage Capsule Lamps

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (in.)	Rated Avg. Life(93)	Approx MBCP*	Lumens
Halogen Single-Ended Linear Lamps Blister-Carded (95)													
50	T-4	Mini-Can	13803-2		BC50Q/CL	120	12	Blister Card	C, CC-8	2 3/4	1000	—	500
75	T-4	Mini-Can	39249-8		BC75Q/CL	120	12	Blister Card	C, CC-8	3	1000	—	1050
100	T-4	Mini-Can	21365-2		BC100Q/CL ESN	120	12	Blister Card	C, CC-8	2 1/4	1000	—	1600
150	T-4	Mini-Can	34754-2		BC150Q/CL ETG	120	12	Blister Card	C, CC-8	3	1000	—	2800

Halogen Single-Ended Linear Lamps (95)

100	T-4	D.C. Bay	44278-0		100Q/CL/DC ESR	120	12	Clear	C, CC-8	2 3/4	1000	—	1600
150	T-4	Mini-Can	29856-2		150Q ETH	120	12	Frost	C, CC-8	3	1000	—	2700
			20049-3		150Q/CL	130	12	Clear	C, CC-8	3	1000	—	2800
	D.C. Bay		26676-7		150Q/CL/DC ETC	120	12	Clear	C, CC-8	2 1/2	1000	—	2800
			29850-5		150Q/DC ETF	120	12	Frost	C, CC-8	2 1/2	1000	—	2700
250	T-4	Mini-Can	14668-8		250Q/CL EHT	120	12	Clear	C, CC-8	3 3/4	1000	—	5000
			14667-0		250Q/CL	130	12	Clear	C, CC-8	3 3/4	1000	—	5000
	D.C. Bay		14666-2		250Q/CL/DC ESS	120	12	Clear	C, CC-8	3	1000	—	5000
			14669-6		250Q/CL/DC	130	12	Clear	C, CC-8	3	1000	—	5000
500	T-4	Mini-Can	38079-0		500Q/CL EVR	120	12	Clear	C, C-8	3 3/4	2000	—	10,000
750	T-4	Med. 2-Pin	26972-0		750Q/CL EHG	120	24	Clear	C, CC-8	4 1/4	2000	—	15,000

Halogen Double-Ended Linear Lamp Blister-Carded (99)

100	T-3	RSC	21750-5		BC100T3Q/CL	120	12	Blister Card	C, C-8	3 1/4	2000	—	1400
150	T-3	RSC	21751-3		BC150T3Q/CL	120	12	Blister Card	C, C-8	3 3/4	2000	—	2400
			13444-5		BC150T3Q/CL LONG	120	12	Blister Card	C, C-8	4 1/4	1500	—	2000
250	T-3	RSC	39250-6		BC250T3Q/CL	120	12	Blister Card	C, C-8	3 3/4	2000	—	4000
300	T-3	RSC	39246-4		BC300T3Q/CL	120	12	Blister Card	C, C-8	4 1/4	2000	—	5000
500	T-3	RSC	39247-2		BC500T3Q/CL	120	12	Blister Card	C, C-8	4 1/4	2000	—	9500

Halogen Double-Ended Linear Lamp (99)

300	T-3	RSC	39282-9		300T3Q/CL EHM	120	12	Clear	C, C-8	4 1/4	2000	—	5000
500	T-3	RSC	13223-3		500T3Q/CL	125-130	12	Clear	C, C-8	4 1/4	2000	—	9200
			20010-5		500T3Q/CL FCL	120	12	Clear	C, C-8	4 1/4	2000	—	9500
1000	T-3	RSC	38320-8		1000T3Q/CL	240	12	Clear	C, C-8	10 1/4	3000	—	21,000
1500	T-3	RSC	23868-3		1500T3Q/CL	277	12	Clear	C, C-8	10 1/4	3000	—	33,000
			13226-6		1500T3Q/CL	240	12	Clear	C, C-8	10 1/4	2000	—	32,250

Halogen Low-Voltage Capsule Lamp Blister-Carded (95)

10	T-3	G4	39251-4		BC10W/T3/12V	12	12	Blister Card	C, C-8	1 1/4	2000	—	100
20	T-3	G4	13015-3		BC20W/T3/12V	12	12	Blister Card	C, C-8	1 1/4	2000	—	250
35	T-4	GY6.35	13346-2		BC35W/T4/12V	12	12	Blister Card	C, C-8	1 3/4	2000	—	465
50	T-4	GY6.35	13016-1		BC50W/T4/12V	12	12	Blister Card	C, C-8	1 3/4	2000	—	700
75	T-4	GY6.35	13441-1		BC75W/T4/12V	12	12	Blister Card	C, C-8	1 3/4	2000	—	1100

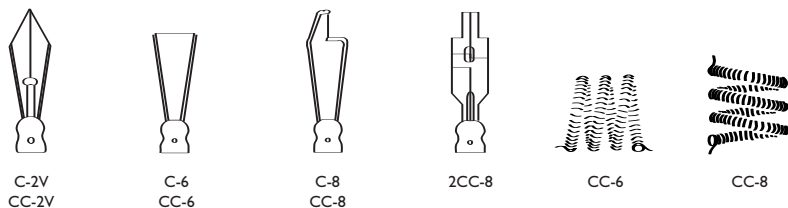
Halogen Low-Voltage Capsule Lamp All Lamps Contain UV Block and are Low Pressure (95)

10	T-3	G4	23262-9		10W/T3/12V	12	100	Capsule Type 13284	C, C-8	1 1/4	4000	—	140
20	T-3	G4	23264-5		20W/T3/12V	12	100	Capsule Type 13078	C, C-8	1 1/4	4000	—	320
35	T-4	GY6.35	29553-5		35W/T4/12V	12	100	Capsule Type 13103	C, C-8	1 3/4	4000	—	600
50	T-4	GY6.35	23265-2		50W/T4/12V	12	100	Capsule Type 13079	C, C-8	1 3/4	4000	—	800

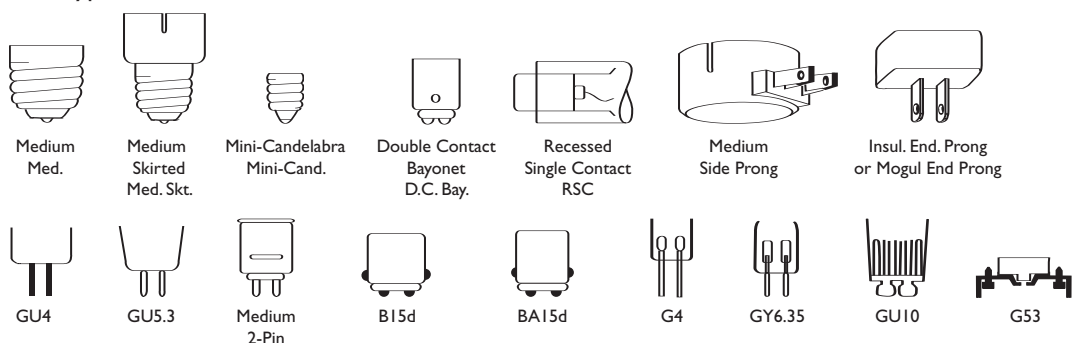
For the most current product information, go to the e-catalog on www.philips.com
Halogen symbols and footnotes located on page 56

Filament Designations (Not Actual Sizes)

Filament Designations consist of a letter or letters to indicate how the wire is coiled and an arbitrary number sometimes followed by a letter to indicate the arrangement of the filament on the supports. Prefix letters include C (coil) — wire is wound into a helical coil or it may be deeply fluted; CC (coiled coil) — wire is wound into a helical coil and this coiled wire again wound into a helical coil. Some of the more commonly used types of filament arrangements are illustrated.



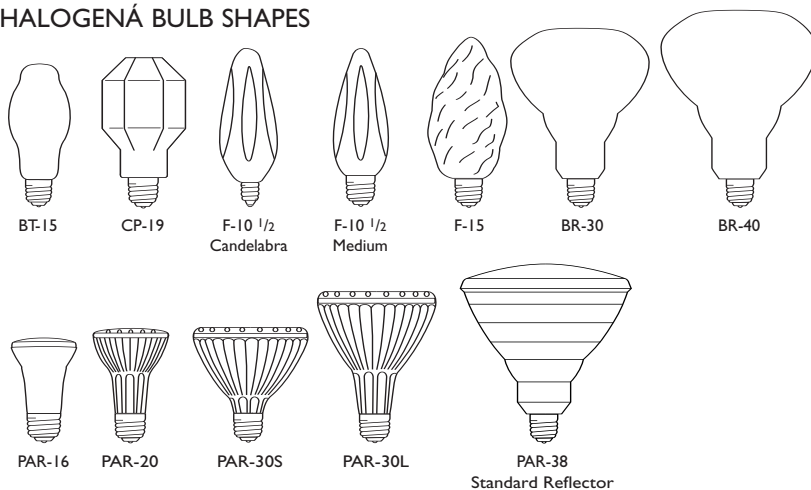
Base Types (Not Actual Sizes)



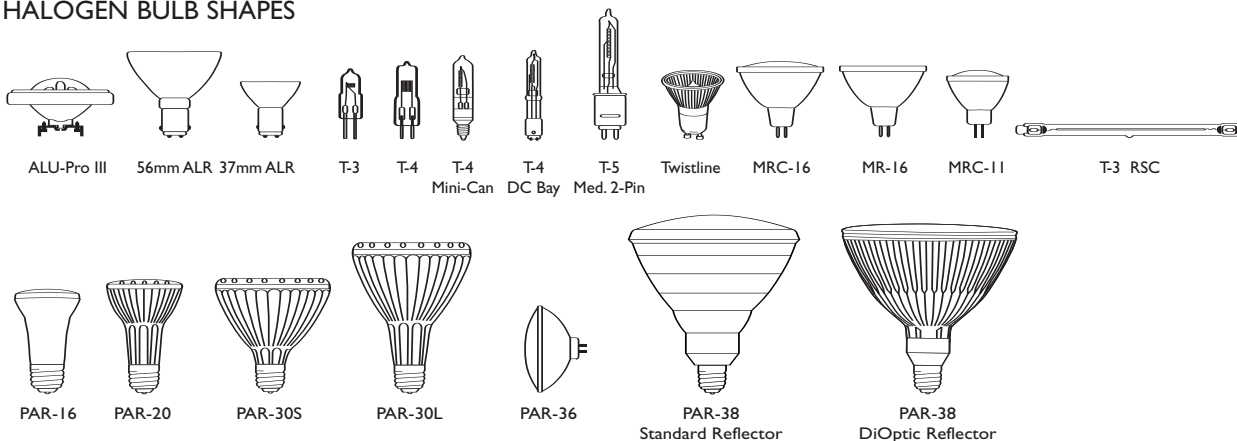
Bulb Shapes (Not Actual Sizes)

The size and shape of a bulb is designated by a letter or letters followed by a number. The letter indicates the shape of the bulb while the number indicates the diameter of the bulb in eighths of an inch. For example, "T-10" indicates a tubular shaped bulb having a diameter of $\frac{1}{8}$ or $1\frac{1}{4}$ inches. The following illustrations show some of the more popular bulb shapes and sizes.

HALOGENA BULB SHAPES



HALOGEN BULB SHAPES



- Exclusive to Philips Lighting Company
- Quantity shown is minimum shipping container — refer to Net Price Schedule for number of lamps to qualify as a standard case.
- * Two Lamp Carded Pack.
- ▲ Aluminum base.
- Nickel plated brass base.
- ★ Heat resisting glass bulb.
- Consider the compact fluorescent lamps listed on pages 53–54 for energy savings
- \$ Energy Saving Product
- Maximum Beam Candlepower
- X Orders will be shipped until inventory is depleted; no longer manufactured
- ⓔ This Bulb Meets US Federal Minimum Efficiency Standard
- (2) Although the lamp is of the highest quality in material and workmanship, it has been designed to meet certain purchase requirements which preclude a guarantee of performance.
- (3) Indefinite-long life.
- (4) Average laboratory life is 200 hours for vacuum cleaner and 600 hours for sewing machine service. Design life 1000 hours.
- (8) Operate base down.
- (9) This lamp should be shielded from moisture to prevent breakage.
- (10) Operating position—horizontal.
- (11) Design volts 115.
- (12) Operate base down to horizontal.
- (13) Not recommended for horizontal burning.
- (14) Operate base up.
- (15) Operate base down. Filaments operated separately.
- (18) Base is medium left hand thread.
- (19) May not give satisfactory performance if any accessory equipment is attached to or touches the glass bulb.
- (22) Unsatisfactory lamp operation is likely to occur in operating positions between horizontal and base up, particularly between 45° from base up and base up.
- (23) May be operated in any position.
- (25) Base pins approximately parallel to plane of filament.
- (26) Use only on circuits supplying the voltage as marked on the lamp. DO NOT use in household sockets.
- (27) Average laboratory life in excess of 5000 hours. In-service life depends upon service conditions.
- (29) Suitable for indoor and outdoor service.
- (31) Operate only in porcelain sockets.
- (34) Operate base up to horizontal.
- (37) Should not be used in equipment where the base temperature will exceed 500°F.
- (41) Avoid use at short distances on materials that are inflammable or susceptible to heat damage.
- (43) Unless otherwise noted, may be operated in any position, but lumen maintenance is best when operated vertically base up.
- (46) Stippled, rounded cover.
- (49) Should not be used in equipment where the seal temperature exceeds 750°F.
- (50) For use on 50-60 cycle A.C. circuits.
- (51) Light output is maintained best when operated within 45° of vertically base up.
- (53) The bulb, though made of heat-resistant glass, may break if moisture falls on it. Not recommended for use in enclosed, close-fitting housings.
- (55) For use only with heat resistant connector and with lamp supported by bulb rim.
- (59) Life dependent upon service conditions.
- (63) Design volts 145.
- (64) For use only in equipment specially designed to maintain bulb and base temperature within safe limits.
- (65) AA tolerance 1/8", L.C.L. tolerance 3/16".
- (66) Silicone Coating reduces lumen output from Standard Values less than 3%.
- (72) Light Center Length & Axial Alignment tolerance 1/64".
- (75) 2 3/4" diameter unsilvered spot on end of bulb.
- (81) L.C.L. & Axial Alignment tolerance 1/32".
- (82) CAUTION: To avoid deterioration of lampholder by heat, use only heat resistant lampholders or fixtures listed by a nationally recognized electrical testing organization for use with reflector or PAR lamps.

- (83) Base does not have ceramic insulator.
- (86) PAR Halogen Caution Notice: Before using bulb, see operating instructions on inside flap. Adherence to the operating instructions will reduce the risk of personal injury or fire. The filament capsule contained inside this glass bulb is pressurized, operates at high temperature and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture and/or the surrounding environment, thereby creating a risk of personal injury or fire.
- Operating Instructions: Before replacing, turn off power and let lamp cool to avoid electrical shock or burn.
 - For indoor or outdoor use. A weather-protected fixture is recommended for wet locations.
 - Suitable for use in open fixtures.
 - Do not exceed the maximum wattage rating of the fixture.
 - Do not use if outer glass is scratched or broken since it may break during operation or removal.
 - If outer glass breaks the lamp may continue to light, however, immediately discontinue use.
 - Due to the heat that radiates from the bulb, do not use in close proximity to combustible materials or objects susceptible to drying or fading.
 - Manage in accord with disposal laws.
- (87) Do not allow hot bulb to come in contact with liquid or metal parts of the fixture, as glass may shatter. Do not use outdoors. Do not operate in close proximity to flammable materials or those adversely affected by heat or drying. Operate only in heat resistant sockets.
- (89) CAUTION: Do not operate in close proximity to flammable materials or those adversely affected by heat or drying. Operate only in heat resistant sockets.
- WARNING: Use carefully. May cause serious burns. Do not use over insensitive skin areas or in the presence of poor circulation. The unattended use of infrared heat by children or incapacitated persons may be dangerous.
 - Lamp should not be placed closer than 18" to the surface being irradiated.
 - Do not use for therapeutic or topical applications unless recommended by a physician.
 - For food warming, use only lamps with heat resisting glass.
- (90) Since there is considerable heat radiation in the beam of this lamp, care should be taken against using it without suitable protection, in close proximity to combustible materials or those adversely affected by drying action.
- (91) CAUTION: Do not touch inner capsule with bare hands. Fingerprints may result in shorter life. Remove fingerprints with alcohol. **THIS LAMP IS PRESSURIZED AND COULD SHATTER** so to avoid injury and to avoid exposure to ultraviolet radiation, use only in fixtures that provide a protective shield of tempered glass. Provide adequate ventilation to ensure that seal temperature does not exceed 350°C and use only in fixtures rated for the wattage stated on this package. To avoid risks of burns or other injury, turn power off and allow lamp to fully cool before attempting to replace. Socket condition may affect lamp life. Inspect and replace socket if deterioration has occurred.
- (92) CAUTION: THIS LAMP IS PRESSURIZED AND COULD SHATTER so to avoid injury and to avoid exposure to ultraviolet radiation, this lamp should be used in a fixture that provides a protective shield of tempered glass. Provide adequate ventilation to ensure that seal temperature does not exceed 350°C and use only in fixtures rated for the wattage stated on this package. To avoid risks of burns or other injury, turn power off and allow lamp to fully cool before attempting to replace. Socket condition may affect lamp life. Inspect and replace socket if deterioration has occurred.
- (93) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.
- (94) To prevent electrical shock, match wide blade of plug to wide slot of outlet, fully insert. Do not cover night light; overheating may occur. Do not plug in near radiator or source of heat. **WARNING:** for indoor use only.

- (95) NOTICE: Do not touch bulb with bare hands. Fingerprints may result in shorter life. Remove fingerprints with alcohol. **CAUTION: THIS LAMP IS PRESSURIZED AND COULD SHATTER** so to avoid injury and to avoid exposure to ultraviolet radiation, use only in fixtures that provide a protective shield of tempered glass. Provide adequate ventilation to ensure that seal temperature does not exceed 350°C and use only in fixtures rated for the wattage stated on this package. To avoid risks of burns or other injury, turn power off and allow lamp to fully cool before attempting to replace. Socket condition may affect lamp life. Inspect and replace socket if deterioration has occurred.
- (96) Operating Instructions: Do not use lamp in close proximity to combustible materials. If used outdoors, use in an enclosed fixture only. If used indoors, no additional shield is required. Can be operated in all positions. **CAUTION:** Read operating instructions before use. If outer glass breaks, turn power off immediately and avoid touching any metal components. To avoid potential burn and electrical shock during lamp replacement, always turn power off and let lamp cool before replacing bulb. Lasts 2 years based on 4 hours average usage per day/7 days per week.
- (97) Operating Instructions: Before replacing, turn off power and let lamp cool to avoid electrical shock or burn. For indoor use only. Do not allow hot bulb to come in contact with liquid or metal parts of the fixture as glass may shatter. Do not exceed the maximum wattage rating of the fixture. Do not use if outer glass is scratched or broken since it may break during operation or removal. If outer glass breaks the lamp may continue to light, however, immediately discontinue use. Due to the heat that radiates from the bulb, do not use in close proximity to combustible materials or objects susceptible to drying or fading. Manage in accord with disposal laws. **CAUTION:** Adherence to the operating instructions will reduce the risk of personal injury or fire. The filament capsule contained inside this glass bulb is pressurized, operates at high temperature and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture and/or the surrounding environment, thereby creating a risk of personal injury or fire.
- (98) Note: This twistline has a GU10 base and may be used in fixtures that have either GU10 or GZ10 sockets. **Operating Instructions:** Do not use in close proximity to combustible materials or objects adversely affected by drying or fading. Can be operated in all positions. **CAUTION: THIS LAMP IS PRESSURIZED AND COULD SHATTER** so to avoid injury and to avoid exposure to ultraviolet radiation, this lamp should be used in a fixture that provides a protective shield of tempered glass. If outer glass breaks, immediately discontinue use. Always turn power off and let lamp cool before removal to avoid potential burn or electric shock.
- (99) WARNING: BULB OPERATES AT VERY HIGH TEMPERATURES AND MUST BE USED PROPERLY TO AVOID/REDUCE RISK OF FIRE. Do not use bulbs greater than 300 watts in indoor residential fixtures. Use only in fixtures specifying this bulb type and that meet revised UL 153 standard for tungsten-halogen torchiere lamps. Bulb is pressurized and could shatter and should only be used in fixtures that provide a protective shield of tempered glass. To avoid exposure to ultraviolet radiation which could cause skin and eye irritation use only in fixtures that provide a protective shield of tempered glass. **NOTICE:** Do not touch bulb with bare hands. Fingerprints may result in reduced performance unless they are removed with alcohol. When operating, bulb is hot. To avoid risks of burns or injury, turn power off and allow bulb to cool before replacing. Socket conditions may affect bulb life. Inspect and replace socket if deterioration has occurred. Provide adequate ventilation to ensure that seal temperature does not exceed 350°C. **TO AVOID/REDUCE RISK OF FIRE, DO NOT USE NEAR COMBUSTIBLE MATERIALS.**

Compact Fluorescent Lighting

Energy savings
made simple

Philips Marathon® Lamps combine the economies of fluorescent lighting with the quality light output and versatility of standard incandescent lamps. Marathon CFL lamps offer you a direct replacement lamp to fit your current incandescent fixtures.

Philips Marathon Lamps offer a direct replacement lamp to fit your current incandescent fixtures. They deliver an incandescent-like light and provide long life while reducing energy and maintenance costs. The rated average life for Philips Marathon lamps ranges from 6000 to 15,000 hours, depending on shape and type of the lamp. They are reliable, have a high CRI and are instant-on capable. Simply put, they are an easy way to improve your bottom line without much effort and to maintain your location's appearance.

Philips PL Compact Fluorescent Lamps offer designers, specifiers and end-users new levels of efficiencies and versatility in sizes, configurations and application possibilities. With so many elegant fixtures available to complement their small size, high light output and advanced technology, they are fast becoming the preferred choice when maximum efficiency and sleek design solutions are required.





Compact Fluorescent Lighting

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Philips Marathon® Compact Fluorescent Lamps

Reliability: Did you know that Philips has been making CFLs for over 20 years in the US? While the product has gone through many evolutions, one thing has remained constant. Our reliability.

Energy Savings: Depending on the incandescent lamp you are replacing, you can achieve significant savings over the life of the lamp.

ALTO® Lamp Technology: Many Marathon lamps use the ALTO® Lamp Technology, which reduces the amount of mercury in a lamp without compromising performance.

ENERGY STAR®: By choosing an ENERGY STAR® QUALIFIED Philips Marathon lamp, you will be doing your part in helping to promote energy efficiency.



Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	MOL (In.)	Avg. Hrs. Life (230)	Approx. Initial (231) Lumens	CRI
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Marathon® Mini-Decorative Twister

5	EL/mdT	Med.	14792-6	\$	Mini-Deco Twister EL/mdT 5	6	Small, Decorative Shape (228)	4	8000	250	82
9	EL/mdT	Med.	14793-4	\$	Mini-Deco Twister EL/mdT 9	6	Small, Decorative Shape (228)	4 1/4	8000	550	82
11	EL/mdT	Med.	13804-0	\$	Mini-Deco Twister EL/mdT 11	6	Small, Decorative Shape (228)	4 5/8	8000	675	82
			13991-5	\$	Mini-Deco Twister BC-EL/mdT 11	6	Small, Decorative Shape/Blister (228)	4 5/8	8000	675	82
13	EL/mdT	Med.	14786-8	\$	Mini-Deco Twister EL/mdT 13 4100K	6	Small, Decorative Shape (228)	4 1/4	10,000	900	82
			14787-6	\$	Mini-Deco Twister EL/mdT 13 5000K	6	Small, Decorative Shape (228)	4 1/4	10,000	900	82
15	EL/mdT	Med.	13363-7	\$	Mini-Deco Twister BC-EL/mdT 15	6	Small, Decorative Shape/Blister (228)	5 3/4	10,000	900	82
			13581-4	\$	Mini-Deco Twister EL/mdT 15	6	Small, Decorative Shape (228)	5 3/4	10,000	900	82
20	EL/mdT	Med.	13805-7	\$	Mini-Deco Twister EL/mdT 20	6	Small, Decorative Shape (228)	5 5/8	10,000	1250	82
			13713-3	\$	Mini-Deco Twister BC-EL/mdT 20	6	Small, Decorative Shape/Blister (228)	5 5/8	10,000	1250	82
27	EL/mdT	Med.	13715-8	\$	Mini-Deco Twister EL/mdT 27	6	Small, Decorative Shape (228)	5 5/8	10,000	1750	82
			13946-9	\$	Mini-Deco Twister BC-EL/mdT 27	6	Small, Decorative Shape/Blister (228)	5 5/8	10,000	1750	82
			14788-4	\$	Mini-Deco Twister EL/mdT 27 4100K	6	Small, Decorative Shape (228)	5 3/4	10,000	1850	82
			14789-2	\$	Mini-Deco Twister EL/mdT 27 5000K	6	Small, Decorative Shape (228)	5 3/4	10,000	1850	82

NEW!

Marathon® Twister

42	EL/DT	Med.	13948-5	\$	Decorative Twister EL/dT 42	6	High Light Output (228)	7 3/2	8000	2600	82
			13947-7	\$	Decorative Twister BC-EL/dT 42	6	High Light Output/Blister (228)	7 3/2	8000	2600	82

NEW!

Marathon® Universal

14	SLS	Med.	14691-0	\$	Universal SLS 14 ALTO	6	Super Long Life (216)	4 15/16	12,000	860	82
20	SLS	Med.	13077-3	\$	Universal SLS 20 ALTO	6	Super Long Life (216)	5 3/4	15,000	1200	82
25	SLS	Med.	13574-9	\$	Universal SLS 25 ALTO	6	Super Long Life (216)	6 5/8	15,000	1750	82

NEW!

Marathon® Vanity Globe

12	EL/A G25	Med.	14413-9	\$	Vanity Globe BC-EL/A1 G25 12 ALTO	6	G25 Globe/Blister (216, 228)	4 19/32	8000	525	82
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Marathon® Décor Globe

16	EL/A G30	Med.	14514-4	\$	Décor Globe EL/A1 16W G30 ALTO	6	G30 Globe (216, 228)	5 23/32	8000	750	82
20	EL/A G40	Med.	14515-1	\$	Décor Globe EL/A1 20W G40	6	G40 Globe (216, 228)	6 25/32	8000	1100	82

NEW!

For the most current product information, go to the e-catalog on www.philips.com

Compact Fluorescent symbols and footnotes located on page 87

■ This product utilizes ALTO® Lamp Technology

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	MOL (In.)	Avg. Hrs. Life (230)	Approx. Initial (231) Lumens	CRI
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Marathon® Reflector Flood

12	EL/A R20 Med		13942-8	\$ ■	Reflector Flood EL/A R20 12 ALTO	6	R20 Reflector (216, 238)	4 7/8	8000	450	82
			13940-2	\$ ■	Reflector Flood BC-EL/A R20 12 ALTO	6	R40 Reflector/Blister (216, 238)	4 7/8	8000	450	82
16	EL/A R30 Med		13939-4	\$ ■	Reflector Flood EL/A BR30 16 ALTO	6	BR30 Reflector (216, 238)	5 13/16	8000	630	82
			14412-1	\$ ■	Reflector Flood BC-EL/A BR30 16 ALTO	5	R30 Reflector/Blister (216, 238)	5 13/16	8000	630	82
20	EL/A R40 Med		13941-0	\$ ■	Reflector Flood EL/A R40 20 ALTO	6	R40 Reflector (216, 238)	5 21/32	8000	930	82
			13724-0	\$ ■	Reflector Flood BC-EL/A R40 20 ALTO	4	R40 Reflector/Blister (216, 238)	5 21/32	8000	930	82
	EL/A PAR38 Med		13943-6	\$ ■	Reflector Flood EL/A PAR38 20 ALTO	6	PAR 38 Reflector (216, 238)	5 21/32	8000	940	82
			13723-2	\$ ■	Reflector Flood BC-EL/A PAR38 20 ALTO	4	PAR 38 Reflector/Blister (216, 238)	5 21/32	8000	940	82

Marathon® Dimmable Flood

20	SLS/R30 Med.	38488-3	X \$	Dimmable Flood SLS/R30 20	6	Dimmable Snap-On Reflector (216, 232)	6 7/8	7000	575	82
	SLS/R40 Med.	38489-1	X \$	Dimmable Flood SLS/R40 20	6	Dimmable Snap-On Reflector (216, 232)	6 15/16	7000	800	82

16	EL/A R30 Med.	13707-5	\$	Reflector Flood Dim EL/A R30 Dim 16 ALTO	6	R30 One Piece Dimmable Reflector (216, 232, 238)	5 13/16	8000	630	82
20	EL/A R40 Med.	13708-3	\$	Reflector Flood Dim EL/A R40 Dim 20ALTO	6	R40 One Piece Dimmable Reflector (216, 232, 238)	6 3/8	8000	900	82
	EL/A PAR38 Med.	14644-9	\$	Reflector Flood Dim EL/A PAR38 Dim 20 ALTO	6	PAR38 One Piece Dimmable Reflector (216, 232, 238)	6 3/8	8000	850	82

Marathon® Outdoor

15	EL/O Med.	13786-9	\$	Outdoor EL/O 15 ALTO	6	Translucent Cover (216)	5 3/8	10,000	800	82
		13952-7	\$	Outdoor BC-EL/O 15 ALTO	6	Translucent Cover/Blister (216)	5 3/8	10,000	800	82
18	EL/O Med.	13578-0	\$ ■	Outdoor EL/O 18 ALTO	6	Translucent Cover (216)	6 1/8	10,000	1100	82

Marathon® Bug-A-Way

15	EL/O Med.	37148-4	X \$	Bug-A-Way EL/O 15 BAW	6	Yellow Cover (216)	5 3/8	10,000	750	—
16	EL/SWP Med.	14025-1	\$	Bug-A-Way BC-EL/SWP 16 BAW ALTO	6	Yellow Cover/Blister (216)	4 1/2	8000	600	—

Marathon® Soft White Plus (216, 228)

12	EL/SWP Med.	13704-2	\$ ■	Soft White Plus EL/SWP 12 ALTO	6	Small, Incandescent Like Shape	4 1/2	8000	550	82
16	EL/SWP Med.	14066-5	\$ ■	Soft White Plus EL/SWP 16 ALTO	6	Small, Incandescent-Like Shape	4 1/2	8000	800	82
		13705-9	\$ ■	Soft White Plus BC-EL/SWP 16 ALTO	6	Small, Incandescent-Like Shape/Blister	4 1/2	8000	800	—
20	EL/SWP Med.	14024-4	\$ ■	Soft White Plus BC-EL/SWP 20 ALTO	6	Incandescent-Like Shape/Blister	5 3/8	8000	1100	82

X Orders will be shipped until inventory is depleted; no longer manufactured

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Compact Fluorescent symbols and footnotes located on page 87

■ This product utilizes ALTO® Lamp Technology

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	MOL (In.)	Avg. Hrs. Life (230)	Approx. Initial (231) Lumens	CRI
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Marathon® Candle (216, 228)

5	EL/A mCan Cand.		14791-8	\$	Mini Candle EL/mCan 5	6	Decorative Candle Shape	4 1/2	6000	200	82
	EL/A Can Med		14790-0	\$	Mini Candle EL/A Can 5	6	Decorative Candle Shape	5 3/4	6000	200	82
9	EL/A mCan Cand.		13954-3	\$	Mini Candle EL/mCan 9 ALTO	9	Decorative Candle Shape	4 13/16	8000	315	82
			13953-5	\$	Mini Candle BC-EL/mCan 9 ALTO	9	Decorative Candle Shape/Blister	4 13/16	8000	315	82
12	EL/A Can Med.		14045-9	\$	Candle EL/A Can 12 ALTO	12	Decorative Candle Shape	5 1/8	8000	525	82
			14415-4	\$	Candle BC-EL/A Can 12 ALTO	12	Decorative Candle Shape/Blister	5 1/8	8000	525	82

NEW!

Marathon® Table Lamp (216, 227, 236)

34	EL/T	Med.	37082-5	X \$	Table Lamp EL/T 34	6	High Light Output	6 3/8	7000	2100	82
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Marathon® 3-Way (216, 227, 236)

			37219-3	X \$	3-Way BC-EL/TW 34	6	50/100/150W Equivalents/Blister	6 3/8	7000	1100 1600	82
34-26-18	EL/TW	3 Ct. Med	14042-6	\$	3-Way EL/TW 34-26-18	6	Multiple Light Settings	6 3/8	7000	2050/ 1600/700	82
			14416-2	\$	3-Way BC-EL/TW 34-26-18	6	Multiple Light Settings/Blister	6 3/8	7000	2050/ 1600/700	82

Marathon® Dimmable (216, 232)

16	EL/ES	Med.	14645-6	\$	Energy Saver Dimmable EL/ES Dim 16 ALTO	6	Dimmable	4 3/2	8000	800	82
20	EL/ES	Med.	14646-4	\$	Energy Saver Dimmable EL/ES Dim 20 ALTO	6	Dimmable	5 1/8	8000	1050	82

NEW!

Marathon® Circline Adapter System (242)

22	FC7T5	Med.	13936-0	\$	Circline Adapter System FC7T5/SYS 22	4	Wide Light Distribution	7.4 OD	10000	1450	86
28	FC9T5	Med.	13938-6	\$	Circline Adapter System FC9T5/SYS 28	4	Wide Light Distribution	9.0 OD	10000	1950	86

NEW!

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An extensive portfolio to meet your home lighting needs!

Marathon® Bulb Type	Table/Floor Lamp	Outdoor Postlight	Wall Sconce	Surface Mount	Reading Lamp	Border Lights	Recessed Fixture	Open Hanging	Vanity Strip
Decorative Twister	●		●		●			●	
Universal	●	●	●	●	●	●	●	●	
Va y & Globe								●	●
Recessed							●	●	
Dimmable							●	●	
Outdoor		●				●		●	
Bug-A-Way		●						●	
Star White Plus	●	●	●		●	●		●	
Candle		●	●		●				
3-Way	●		●	●	●			●	
Dimmable	●		●	●	●			●	
Circline Adapter System	●							●	

Compact Fluorescent Lamps

PL-H®, PL-S, PL-C Lamps

Watts	Bulb	Base	Old Product Number	Symbols, Footnotes	New Product Number	New Ordering Code	Generic Designation	Pkg. Qty.	Description	MOL (In.)	Avg. Hrs. Life (230)	Approx. Initial (231) Lumens	Design Lumens (208)	CRI
PL-S Short Fluorescent Lamps (204)														
5	PL-S	G23	33233-8	X	\$ 14671-2	PL-S 5W/827/2P/ALTO	CFT5W/G23/827	10	2700K	4 3/32	10,000	250	210	82
			NEW!		\$ 14868-4	PL-S 5W/841/2P/ALTO	CFT5W/G23/842	10	4100K	4 3/32	10,000	250	210	82
7	PL-S	G23	34256-8	X	\$ 14871-8	PL-S 7W/827/2P/ALTO	CFT7W/G23/827	10	2700K	5 1/32	10,000	400	360	82
			32780-9	X	\$ 14872-6	PL-S 7W/835/2P/ALTO	CFT7W/G23/835	10	3500K	5 1/32	10,000	400	360	82
			33869-9	X	\$ 14873-4	PL-S 7W/841/2P/ALTO	CFT7W/G23/841	10	4100K	5 1/32	10,000	400	360	82
			33384-9	X	\$ 14874-2	PL-S 7W/850/2P/ALTO	CFT7W/G23/850	10	5000K	5 1/32	10,000	380	340	82
9	PL-S	G23	34257-6	X	\$ 14867-6	PL-S 9W/827/2P/ALTO	CFT9W/G23/827	10	2700K	6 3/32	10,000	600	540	82
			32786-6	X	\$ 14869-2	PL-S 9W/835/2P/ALTO	CFT9W/G23/835	10	3500K	6 3/32	10,000	600	540	82
			33870-7	X	\$ 14870-0	PL-S 9W/841/2P/ALTO	CFT9W/G23/841	10	4100K	6 3/32	10,000	600	540	82
			33385-6	X	\$ 14680-3	PL-S 9W/850/2P/ALTO	CFT9W/G23/850	10	5000K	6 3/32	10,000	570	510	82
13	PL-S	GX23	26219-6	X	\$ 14681-1	PL-S 13W/827/2P/ALTO	CFT13W/GX23/827	10	2700K	7 1/4	10,000	825	740	82
			26212-1	X	\$ 14682-9	PL-S 13W/827/2P/ALTO/BULK	CFT13W/GX23/827	50	2700K	7 1/4	10,000	825	740	82
			26202-2	X	\$ 14683-7	PL-S 13W/830/2P/ALTO	CFT13W/GX23/830	10	3000K	7 1/4	10,000	825	740	82
			26214-7	X	\$ 14684-5	PL-S 13W/835/2P/ALTO	CFT13W/GX23/835	10	3500K	7 1/4	10,000	825	740	82
			26213-9	X	\$ 14685-2	PL-S 13W/841/2P/ALTO	CFT13W/GX23/841	10	4100K	7 1/4	10,000	825	740	82
			26229-5	X	\$ 14686-0	PL-S 13W/841/2P/ALTO/BULK	CFT13W/GX23/841	50	4100K	7 1/4	10,000	825	740	82
			26216-2	X	\$ 14687-8	PL-S 13W/850/2P/ALTO	CFT13W/GX23/850	10	5000K	7 1/4	10,000	800	720	82
			14308-1	X	\$ 14688-6	PL-S 13W/850/2P/ALTO/BULK	CFT13W/GX23/850	50	5000K	7 1/4	10,000	800	720	82

NEW!

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Generic Designation	Pkg. Qty.	Description	MOL (In.)	Avg. Hrs. Life (230)	Approx. Initial (231) Lumens	Design Lumens (208)	CRI
PL-H® High Fluorescent Lamps (204)													
60	PL-H	2G8-I	13368-6	\$	PL-H 60W/830/4P/ALTO	TBD	10	3000K	7 1/4	20,000	4000	3440	82
			13369-4	\$	PL-H 60W/841/4P/ALTO	TBD	10	4100K	7 1/4	20,000	4000	3440	82
85	PL-H	2G8-I	13370-2	\$	PL-H 85W/830/4P/ALTO	TBD	10	3000K	8 3/32	20,000	6000	5160	82
			13371-0	\$	PL-H 85W/841/4P/ALTO	TBD	10	4100K	8 3/32	20,000	6000	5160	82
120	PL-H	2G8-I	13372-8	\$	PL-H 120W/830/4P/ALTO	TBD	10	3000K	11 1/8	20,000	9000	7740	82
			13373-6	\$	PL-H 120W/841/4P/ALTO	TBD	10	4100K	11 1/8	20,000	9000	7740	82

PL-C Cluster 2-Pin Fluorescent Lamps (204)													
13	PL-C	GX23-2	38310-9	\$	PL-C 13W/827/USA/ALTO	CFQ13W/GX23/827	10	2700K	4 3/8	10,000	860	735	82
			38311-7	\$	PL-C 13W/830/USA/ALTO	CFQ13W/GX23/830	10	3000K	4 3/8	10,000	860	735	82
			38312-5	\$	PL-C 13W/835/USA/ALTO	CFQ13W/GX23/835	10	3500K	4 3/8	10,000	860	735	82
			38313-3	\$	PL-C 13W/841/USA/ALTO	CFQ13W/GX23/841	10	4100K	4 3/8	10,000	860	735	82
			38314-1	\$	PL-C 13W/827/ALTO	CFQ13W/G24d/827	10	2700K	5 1/2	10,000	900	770	82
18	PL-C	G24d-1	38315-8	\$	PL-C 13W/830/ALTO	CFQ13W/G24d/830	10	3000K	5 1/2	10,000	900	770	82
			38316-6	\$	PL-C 18W/827/ALTO	CFQ18W/G24d/827	10	2700K	6	10,000	1250	1070	82
			38317-4	\$	PL-C 18W/830/ALTO	CFQ18W/G24d/830	10	3000K	6	10,000	1250	1070	82
			38318-2	\$	PL-C 18W/835/ALTO	CFQ18W/G24d/835	10	3500K	6	10,000	1250	1070	82
			38319-0	\$	PL-C 18W/841/ALTO	CFQ18W/G24d/841	10	4100K	6	10,000	1250	1070	82
26	PL-C	G24d-3	38321-6	\$	PL-C 26W/827/ALTO	CFQ26W/G24d/827	10	2700K	6 13/16	10,000	1800	1545	82
			38322-4	\$	PL-C 26W/830/ALTO	CFQ26W/G24d/830	10	3000K	6 13/16	10,000	1800	1545	82
			38323-2	\$	PL-C 26W/835/ALTO	CFQ26W/G24d/835	10	3500K	6 13/16	10,000	1800	1545	82
			38324-0	\$	PL-C 26W/841/ALTO	CFQ26W/G24d/841	10	4100K	6 13/16	10,000	1800	1545	82

PL-C Cluster 2-Pin Fluorescent Lamps, 15mm Tube Diameter (204, 222)													
20	PL-C	GX32d-2	20478-4	\$	PL-C 15mm/22W/827	CFQ20W/GX32d/827	40	2700K	6	10,000	1200	995	82
27	PL-C	GX32d-3	20479-2	\$	PL-C 15mm/28W/827	CFQ27W/GX32d/827	40	2700K	6 13/16	10,000	1600	1325	82

X Orders will be shipped until inventory is depleted; no longer manufactured; new product features ALTO® Lamp Technology.

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Compact Fluorescent Lamps

PL-C, PL-L, PL-T Lamps

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Generic Designation	Pkg. Qty.	Description	MOL (In.)	Avg. Hrs. Life (230)	Approx. Initial (231) Lumens	Design Lumens (208)	CRI
PL-C Cluster 4-Pin Fluorescent Lamps, Electronic Operation (204)													
13	PL-C	G24q-1	38325-7	\$	PL-C 13W/827/4P/ALTO	CFQ13W/G24q/827	10	2700K	5 3/8	12,000	900	775	82
			38326-5	\$	PL-C 13W/830/4P/ALTO	CFQ13W/G24q/830	10	3000K	5 3/8	12,000	900	775	82
			38327-3	\$	PL-C 13W/835/4P/ALTO	CFQ13W/G24q/835	10	3500K	5 3/8	12,000	900	775	82
			38328-1	\$	PL-C 13W/841/4P/ALTO	CFQ13W/G24q/841	10	4100K	5 3/8	12,000	900	775	82
18	PL-C	G24q-2	38329-9	\$	PL-C 18W/827/4P/ALTO	CFQ18W/G24q/827	10	2700K	5 1/8	12,000	1250	1075	82
			38330-7	\$	PL-C 18W/830/4P/ALTO	CFQ18W/G24q/830	10	3000K	5 1/8	12,000	1250	1075	82
			38332-3	\$	PL-C 18W/835/4P/ALTO	CFQ18W/G24q/835	10	3500K	5 1/8	12,000	1250	1075	82
			38333-1	\$	PL-C 18W/841/4P/ALTO	CFQ18W/G24q/841	10	4100K	5 1/8	12,000	1250	1075	82
26	PL-C	G24q-3	38334-9	\$	PL-C 26W/827/4P/ALTO	CFQ26W/G24q/827	10	2700K	6 1/2	12,000	1800	1550	82
			38335-6	\$	PL-C 26W/830/4P/ALTO	CFQ26W/G24q/830	10	3000K	6 1/2	12,000	1800	1550	82
			38336-4	\$	PL-C 26W/835/4P/ALTO	CFQ26W/G24q/835	10	3500K	6 1/2	12,000	1800	1550	82
			38337-2	\$	PL-C 26W/841/4P/ALTO	CFQ26W/G24q/841	10	4100K	6 1/2	12,000	1800	1550	82
PL-L Long Fluorescent Lamps (204)													
18	PL-L	2G11	34500-9	\$	PL-L 18W/830/4P	FT18W/2G11/830	25	3000K	8 1/8	15,000	1250	1125	82
			35932-3	\$	PL-L 18W/835/4P	FT18W/2G11/835	25	3500K	8 1/8	15,000	1250	1125	82
			34501-7	\$	PL-L 18W/841/4P	FT18W/2G11/841	25	4100K	8 1/8	15,000	1250	1125	82
24	PL-L	2G11	34505-8	\$	PL-L 24W/830/4P	FT24W/2G11/830	25	3000K	12 1/8	15,000	1800	1620	82
			35933-1	\$	PL-L 24W/835/4P	FT24W/2G11/835	25	3500K	12 1/8	15,000	1800	1620	82
			34508-2	\$	PL-L 24W/841/4P	FT24W/2G11/841	25	4100K	12 1/8	15,000	1800	1620	82
36	PL-L	2G11	34511-6	\$	PL-L 36W/830/4P	FT36W/2G11/830	25	3000K	16 3/8	15,000	2900	2610	82
			34942-3	\$	PL-L 36W/835/4P	FT36W/2G11/835	25	3500K	16 3/8	15,000	2900	2610	82
			34513-2	\$	PL-L 36W/841/4P	FT36W/2G11/841	25	4100K	16 3/8	15,000	2900	2610	82
40	PL-L	2G11	30042-6	\$	PL-L 40W/830/4P/RS/IS	FT40W/2G11/RS/830	25	3000K	22 1/2	20,000	3300	2970	82
			30043-4	\$	PL-L 40W/835/4P/RS/IS	FT40W/2G11/RS/835	25	3500K	22 1/2	20,000	3300	2970	82
			30044-2	\$	PL-L 40W/841/4P/RS/IS	FT40W/2G11/RS/841	25	4100K	22 1/2	20,000	3300	2970	82
50	PL-L	2G11	34747-6	\$	PL-L 50W/830/4P/RS	FT50W/2G11/RS/830	25	3000K	22 1/2	20,000	4300	3870	82
			34753-4	\$	PL-L 50W/835/4P/RS	FT50W/2G11/RS/835	25	3500K	22 1/2	20,000	4300	3870	82
			34770-8	\$	PL-L 50W/841/4P/RS	FT50W/2G11/RS/841	25	4100K	22 1/2	20,000	4300	3870	82
55	PL-L	2G11	13844-6	\$	PL-L 55W/950/4P/RS	FT55W/2G11/RS/950	25	5000K	21 3/8	20,000	3650	3358	91
80	PL-L	2G11	38697-9	\$	PL-L 80W/830/4P	FT80W/2G11/830	25	3000K	22 1/2	20,000	6000	5400	82
			38698-7	\$	PL-L 80W/835/4P	FT80W/2G11/835	25	3500K	22 1/2	20,000	6000	5400	82
			38699-5	\$	PL-L 80W/841/4P	FT80W/2G11/841	25	4100K	22 1/2	20,000	6000	5400	82
PL-T Triple 4-Pin Fluorescent Lamps (204)													
18	PL-T	GX24q-2	38437-0	\$	PL-T 18W/827/4P/ALTO	CFTR18W/GX24q/827	12	2700K	4 3/8	12,000	1200	1020	82
			26802-9	\$	PL-T 18W/830/4P/ALTO	CFTR18W/GX24q/830	12	3000K	4 3/8	12,000	1200	1020	82
			26820-1	\$	PL-T 18W/835/4P/ALTO	CFTR18W/GX24q/835	12	3500K	4 3/8	12,000	1200	1020	82
			26822-7	\$	PL-T 18W/841/4P/ALTO	CFTR18W/GX24q/841	12	4100K	4 3/8	12,000	1200	1020	82
26	PL-T	GX24q-3	38440-4	\$	PL-T 26W/827/4P/ALTO	CFTR26W/GX24q/827	12	2700K	5	12,000	1800	1530	82
			26823-5	\$	PL-T 26W/830/4P/ALTO	CFTR26W/GX24q/830	12	3000K	5	12,000	1800	1530	82
			26824-3	\$	PL-T 26W/835/4P/ALTO	CFTR26W/GX24q/835	12	3500K	5	12,000	1800	1530	82
			26825-0	\$	PL-T 26W/841/4P/ALTO	CFTR26W/GX24q/841	12	4100K	5	12,000	1800	1530	82
32	PL-T	GX24q-3	38443-8	\$	PL-T 32W/827/4P/ALTO	CFTR32W/GX24q/827	12	2700K	5 5/8	12,000	2400	2040	82
			26832-6	\$	PL-T 32W/830/4P/ALTO	CFTR32W/GX24q/830	12	3000K	5 5/8	12,000	2400	2040	82
			26833-4	\$	PL-T 32W/835/4P/ALTO	CFTR32W/GX24q/835	12	3500K	5 5/8	12,000	2400	2040	82
			26872-2	\$	PL-T 32W/841/4P/ALTO	CFTR32W/GX24q/841	12	4100K	5 5/8	12,000	2400	2040	82
42	PL-T	GX24q-4	38450-3	\$	PL-T 42W/827/4P/ALTO	CFTR42W/GX24q/827	12	2700K	6 3/8	12,000	3200	2720	82
			26873-0	\$	PL-T 42W/830/4P/ALTO	CFTR42W/GX24q/830	12	3000K	6 3/8	12,000	3200	2720	82
			26875-5	\$	PL-T 42W/835/4P/ALTO	CFTR42W/GX24q/835	12	3500K	6 3/8	12,000	3200	2720	82
			26876-3	\$	PL-T 42W/841/4P/ALTO	CFTR42W/GX24q/841	12	4100K	6 3/8	12,000	3200	2720	82
			13487-4	X \$ (242)	PL-T 42W/830/4P/HTA ALTO	CFTR42W/GX24q/830	12	3000K	6 3/8	12,000	3200	2720	82
			13488-2	X \$ (242)	PL-T 42W/835/4P/HTA ALTO	CFTR42W/GX24q/835	12	3500K	6 3/8	12,000	3200	2720	82
			13659-8	X \$ (242)	PL-T 42W/841/4P/HTA ALTO	CFTR42W/GX24q/841	12	4100K	6 3/8	12,000	3200	2720	82
57	PL-T	GX24q-5	14631-6	\$	PL-T 57W/830/4P/A	CFTR57W/GX24q/830	10	3000K	7 5/8	12,000	4300	3741	82
			14632-4	\$	PL-T 57W/835/4P/A	CFTR57W/GX24q/835	10	3500K	7 5/8	12,000	4300	3741	82
			14633-2	\$	PL-T 57W/841/4P/A	CFTR57W/GX24q/841	10	4100K	7 5/8	12,000	4300	3741	82

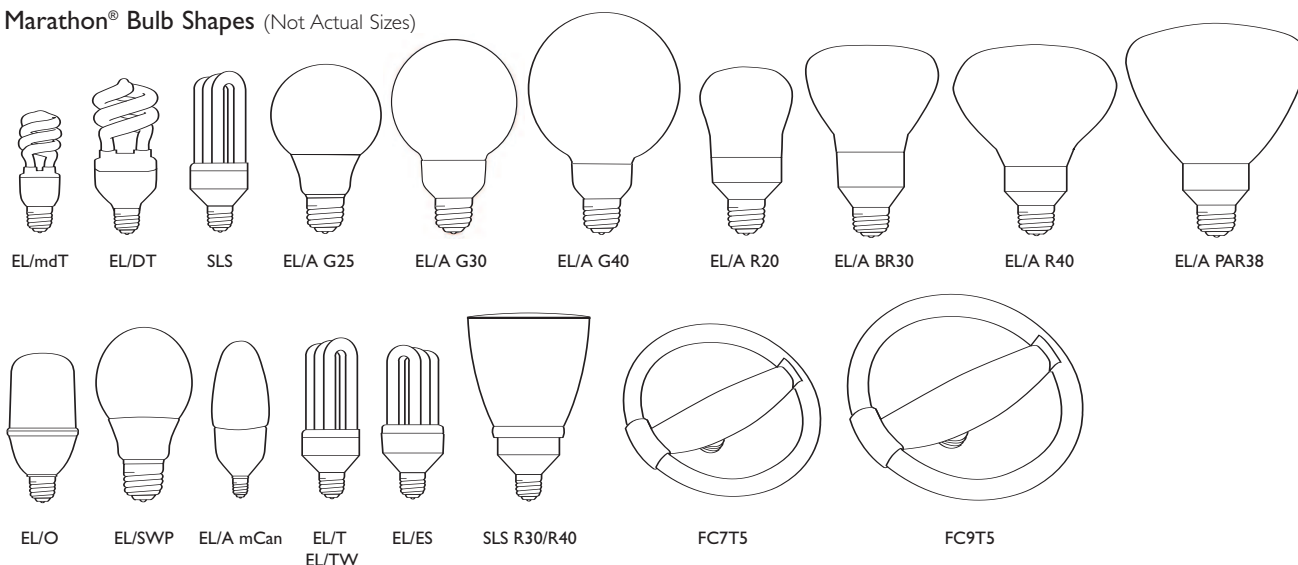
NEW!

X Orders will be shipped until inventory is depleted; no longer manufactured
 For the most current product information, go to the e-catalog on www.philips.com
 Compact Fluorescent symbols and footnotes located on page 87
 This product utilizes ALTO® Lamp Technology

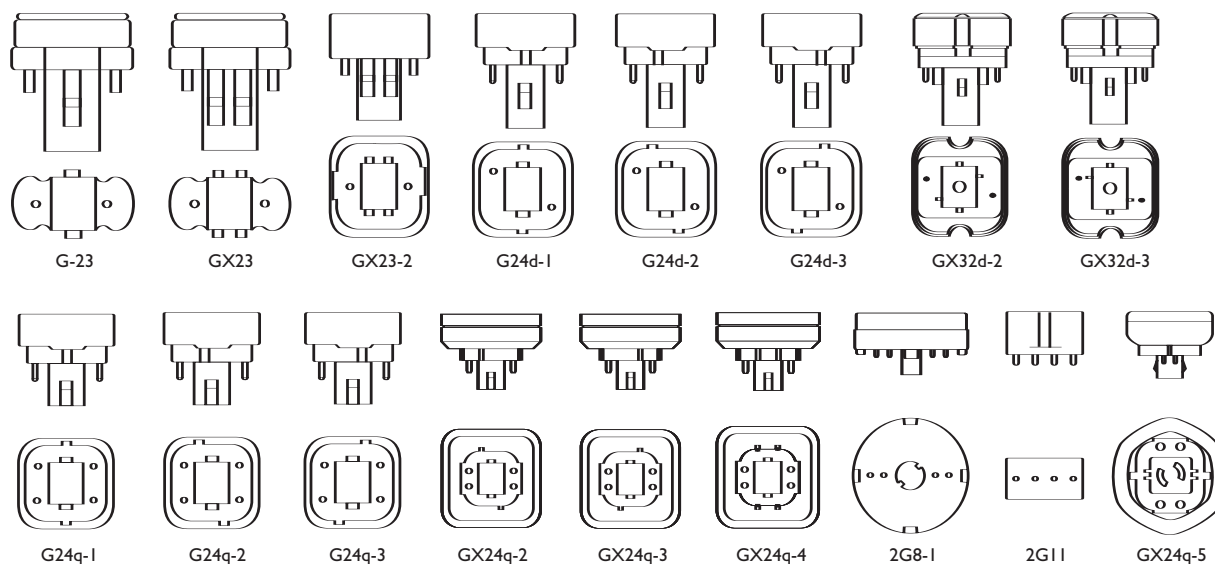
Compact Fluorescent Lamps

Base Types and Bulb Shapes

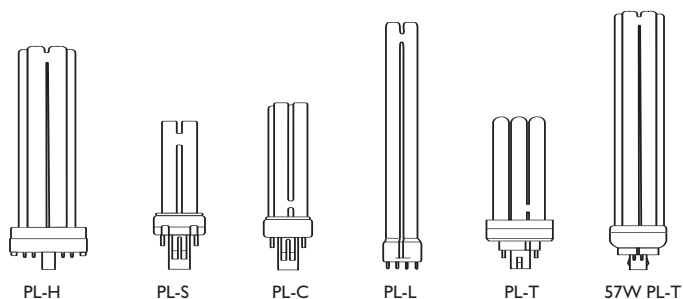
Marathon® Bulb Shapes (Not Actual Sizes)



PL Base Types (Not Actual Sizes)



PL Bulb Shapes (Not Actual Sizes)



Fluorescent Lighting

High performance,
energy-efficient,
long life lamps

Philips T5 Fluorescent Lamps are incredibly powerful, environmentally-responsible, long life lamps with an ultra-slim profile. This translates into reduced maintenance and disposal costs and also allows the use of smaller fixtures—which reduces ceiling clutter. For the longest life in this lamp family, Philips SILHOUETTE™ Long Life T5 High Output lamps have a rated average life of 35,000 hours based on 12 hours per start!†

Philips T8 Fluorescent Lamps provide long life and high performance, which translates into reduced maintenance and disposal costs. ALTO® lamps are low mercury and TCLP-compliant††. This makes them a sustainable lighting solution, since less mercury combined with energy efficiency, reduces the impact on the environment. Hi-Vision® Phosphor combined with Philips' exclusive cathode guard delivers 95% lumen maintenance and reduced lamp-end blackening.

Philips T12 Fluorescent Lamps provide high-performance and long life in a wide range of sizes, shapes, and types. The Advantage T12 series of lamps provide ultimate performance with long life (24,000 hour rated average life), 85 CRI, and the highest lumen output (3600 initial lumens) of any 40-watt four-foot T12 lamp available.

† Average life under engineering data with lamps turned off and restarted once every 12 operating hours.

†† The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.



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Fluorescent Lighting

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Photography © Zjedrus.

Philips SILHOUETTE™ Long Life & Standard T5 Lamps featuring ALTO® Lamp Technology

SILHOUETTE T5 High Output Fluorescent Lamps:
Powerful, Environmentally-Responsible Ultra-Slim Lamps

Miniaturization: Slim Profile Lamp and Ballast

Operates on Programmed Start Electronic Ballasts

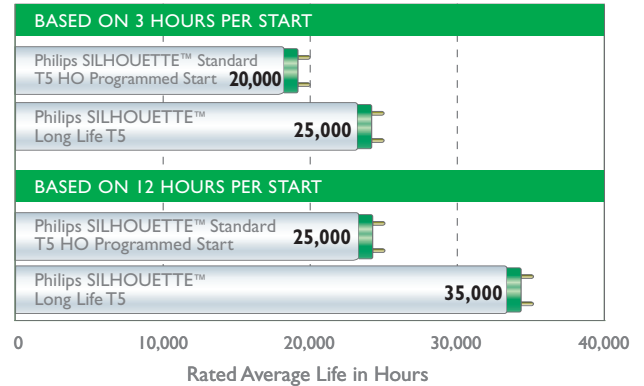
Environmentally Responsible: Low mercury—TCLP*-compliant;
energy efficient; long life

Sustainable Lighting Solution: Less mercury combined with energy
efficiency reduces the impact on the environment

Ideal for: Medium and High Bay Retail; Industrial Applications

Look for the Green End Caps®: Our Green End-Caps mean you
are using ALTO® environmentally-responsible lamps

Philips SILHOUETTE™ Long Life and
Standard T5 Lamp Rated Average Life



**SILHOUETTE Long Life T5
Warranty Period: 36 months**

SILHOUETTE T5 Warranty Period: 24 months



Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. 3-Hr. Start (202)	Rated Avg. Life, Hrs. 12-Hr. Start (241)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
SILHOUETTE™ Long Life T5 High Output Fluorescent Lamps T5 Miniature Bipin; Programmed Start											
54	29026-2	Ⓔ Ⓔ	F54T5/830/HO/ALTO	40	TL 830, 3000K	46	25,000	35,000	5000	4750	85
	29028-8	Ⓔ Ⓔ	F54T5/835/HO/ALTO	40	TL 835, 3500K	46	25,000	35,000	5000	4750	85
	29083-3	Ⓔ Ⓔ	F54T5/841/HO/ALTO	40	TL 841, 4100K	46	25,000	35,000	5000	4750	85
	13510-3	Ⓔ Ⓔ	F54T5/850/HO/ALTO	40	TL 850, 5000K	46	25,000	35,000	4850	4625	85
	14745-4	Ⓔ Ⓔ	F54T5/865/HO/ALTO	40	TL 865, 6500K	46	25,000	35,000	4750	4500	85

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
SILHOUETTE Series 2'-5' T5 Fluorescent Lamps T5 Miniature Bipin; Programmed Start										
14	23077-1	\$	F14T5/830/ALTO	40	TL 830, 3000K	22	20,000	1350	1275	85
	23079-7	\$	F14T5/835/ALTO	40	TL 835, 3500K	22	20,000	1350	1275	85
	23080-5	\$	F14T5/841/ALTO	40	TL 841, 4100K	22	20,000	1350	1275	85
21	23081-3	\$	F21T5/830/ALTO	40	TL 830, 3000K	34	20,000	2100	2000	85
	23082-1	\$	F21T5/835/ALTO	40	TL 835, 3500K	34	20,000	2100	2000	85
	23083-9	\$	F21T5/841/ALTO	40	TL 841, 4100K	34	20,000	2100	2000	85
28	23084-7	Ⓔ Ⓔ	F28T5/830/ALTO	40	TL 830, 3000K	46	20,000	2900	2750	85
	23085-4	Ⓔ Ⓔ	F28T5/835/ALTO	40	TL 835, 3500K	46	20,000	2900	2750	85
	23086-2	Ⓔ Ⓔ	F28T5/841/ALTO	40	TL 841, 4100K	46	20,000	2900	2750	85
35	23088-8	\$	F35T5/830	40	TL 830, 3000K	58	20,000	3650	3450	85
	23091-2	\$	F35T5/835	40	TL 835, 3500K	58	20,000	3650	3450	85
	23095-3	\$	F35T5/841	40	TL 841, 4100K	58	20,000	3650	3450	85

SILHOUETTE Series 2'-5' T5 High Output Fluorescent Lamps											T5 Miniature Bipin; Programmed Start	
24	29019-7	\$	F24T5/830/HO/ALTO	40	TL 830, 3000K	22	20,000	2000	1900	85		
	29020-5	\$	F24T5/835/HO/ALTO	40	TL 835, 3500K	22	20,000	2000	1900	85		
	29021-3	\$	F24T5/841/HO/ALTO	40	TL 841, 4100K	22	20,000	2000	1900	85		
39	29022-1	\$	F39T5/830/HO/ALTO	40	TL 830, 3000K	34	20,000	3500	3325	85		
	29023-9	\$	F39T5/835/HO/ALTO	40	TL 835, 3500K	34	20,000	3500	3325	85		
	29025-4	\$	F39T5/841/HO/ALTO	40	TL 841, 4100K	34	20,000	3500	3325	85		
80	29084-1	\$	F80T5/830/HO	40	TL 830, 3000K	58	20,000	7000	6650	85		
	14744-7	\$	F80T5/835/HO	40	TL 835, 3000K	58	20,000	7000	6650	85		
	29088-2	\$	F80T5/841/HO	40	TL 841, 4100K	58	20,000	7000	6650	85		

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

□ This product utilizes ALTO® Lamp Technology

* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

T5 Fluorescent Lamps

Colored High Output, SILHOUETTE™ Circular, SILHOUETTE™ High Output Circular, Preheat

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
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Colored—Linear Fluorescent Lamps—T5 High Output

24	14637-3	± \$	F24T5/Red/HO	15	TL5HO Colored Pro 24W/150 Red	22	12,000	1540	N/A	N/A
	14638-1	± \$	F24T5/Green/HO	15	TL5HO Colored Pro 24W/170 Green	22	12,000	3000	N/A	N/A
	14639-9	± \$	F24T5/Blue/HO	15	TL5HO Colored Pro 24W/180 Blue	22	12,000	600	N/A	N/A
54	14640-7	± \$	F54T5/Red/HO	15	TL5HO Colored Pro 54W/150 Red	46	12,000	3800	N/A	N/A
	14641-5	± \$	F54T5/Green/HO	15	TL5HO Colored Pro 54W/170 Green	46	12,000	7590	N/A	N/A
	14642-3	± \$	F54T5/Blue/HO	15	TL5HO Colored Pro 54W/180 Blue	46	12,000	1650	N/A	N/A

SILHOUETTE™ Series T5 Circular Fluorescent Lamps 2GX13 Base; Programmed Start

22	16601-7	± \$	TL5C 22W/830	10	Formerly FC9T5/830	9 OD	16,000	1800	1530	85
	14856-9	± \$	TL5C 22W/835	10	Formerly FC9T5/835	9 OD	16,000	1800	1530	85
	16600-9	± \$	TL5C 22W/840	10	Formerly FC9T5/841	9 OD	16,000	1800	1530	85
40	16596-8	± \$	TL5C 40W/830	10	Formerly FC12T5/830	12 OD	16,000	3300	2805	85
	14859-3	± \$	TL5C 40W/835	10	Formerly FC12T5/835	12 OD	16,000	3300	2805	85
	16598-4	± \$	TL5C 40W/840	10	Formerly FC12T5/841	12 OD	16,000	3300	2805	85

SILHOUETTE Series T5 High Output Circular Fluorescent Lamps 2GX13 Base; Programmed Start

55	16593-6	± \$	TL5C 55W/830	10	Formerly FC12T5/830/HO	12 OD	16,000	4200	3580	85
	14862-7	± \$	TL5C 55W/835	10	FC12T5/835/HO	12 OD	16,000	4200	3580	85
	16592-8	± \$	TL5C 55W/840	10	Formerly FC12T5/841/HO	12 OD	16,000	4200	3580	85

SILHOUETTE™ Series T5 Circular Fluorescent Lamps 2GX13 Base; Programmed Start

22	29010-6	X \$	FC9T5/830	10	TL 830, 3000K	9 OD	16,000	1800	1530	85
	29011-4	X \$	FC9T5/835	10	TL 835, 3500K	9 OD	16,000	1800	1530	85
	29012-2	X \$	FC9T5/841	10	TL 841, 4100K	9 OD	16,000	1800	1530	85
40	29014-8	X \$	FC12T5/830	10	TL 830, 3000K	12 OD	16,000	3300	2805	85
	29016-3	X \$	FC12T5/835	10	TL 835, 3500K	12 OD	16,000	3300	2805	85
	29017-1	X \$	FC12T5/841	10	TL 841, 4100K	12 OD	16,000	3300	2805	85

SILHOUETTE Series T5 High Output Circular Fluorescent Lamps 2GX13 Base; Programmed Start

55	38479-2	X \$	FC12T5/830/HO	10	TL 830, 3000K	12 OD	16,000	4400	3750	85
	38480-0	X \$	FC12T5/841/HO	10	TL 841, 4100K	12 OD	16,000	4400	3750	85

Preheat Fluorescent Lamps T5 Miniature Bipin; Requires Use of Starters

4	33236-1		F4T5/CW	25	Cool White, 4100K	6	6000	135	95	62
	33241-1		F6T5/CW	25	Cool White, 4100K	9	7500	295	230	62
6	33242-9		F6T5/D	25	Daylight, 6500K	9	7500	230	180	79
	33252-8		F8T5/WW	25	Warm White, 3000K	12	7500	400	300	53
8	33247-8		F8T5/CW	25	Cool White, 4100K	12	7500	400	300	62
	20702-7		F8T5/30U	25	Ultralume, 3000K	12	7500	450	360	85
13	33249-4		F8T5/D	25	Daylight, 6500K	12	7500	330	265	79
	33253-6		F13T5/CW	25	Cool White, 4100K	21	7500	820	655	62
	20703-5		F13T5/30U	25	Ultralume, 3000K	21	7500	1000	800	85

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

± Available Q1, 2006

X Orders will be shipped until inventory is depleted; no longer manufactured

T5 Lumens at 35°C and 25°C

LAMP TYPE	APPROX. INITIAL LUMENS AT 35°C (203, 204)	APPROX. INITIAL LUMENS AT 25°C (203, 204)
F14T5	1350	1200
F21T5	2100	1900
F28T5	2900	2600
F35T5	3650	3300
F24T5/HO	2000	1800
F39T5/HO	3500	3150
F54T5/HO	5000	4500
F80T5/HO	7000	6300

SILHOUETTE and SILHOUETTE High Output Dimensions (226)

TYPE	A MAX.		B MIN.		B MAX.		C MAX.	
	inches	mm	inches	mm	inches	mm	inches	mm
T5 14W/24W	21.61	549.0	21.80	553.7	21.89	556.1	22.17	563.2
T5 21W/39W	33.42	849.0	33.61	853.7	33.70	856.1	33.98	863.2
T5 28W/54W	45.24	1149.0	45.42	1153.7	45.52	1156.1	45.80	1163.2
T5 35W/80W	57.05	1449.0	57.23	1453.7	57.33	1456.1	57.61	1463.2

Philips Universal T8 Lamps

featuring ALTO® Lamp Technology

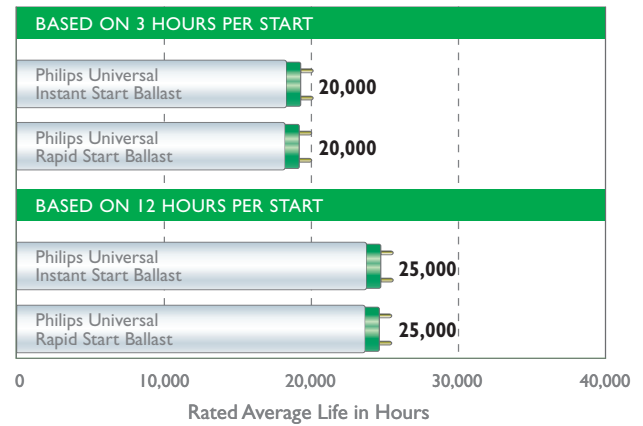
Philips Exclusive Universal Design: The only T8 lamps to deliver full rated average life on all T8 ballast types (Instant Start, Rapid Start, Programmed Start and Hybrid ballasts)

Outstanding Lumen Maintenance: HI-VISION® Phosphor combined with Philips exclusive cathode guard delivers 95% lumen maintenance and reduced lamp-end blackening

Enhanced CRI: 85 CRI for TL80 lamps; 78 CRI for TL70 lamps

Ideal for: Any application requiring maximum quality of light and maintained light output

Philips Universal T8 Lamp Rated Average Life



Philips Universal T8 Warranty Period: 24 months



Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs.	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
							3-Hr. Start (202)	12-Hr. Start (241)		
Universal T8 Fluorescent Lamps T8 Medium Bipin										
17	36787-0	\$	F17T8/TL830/ALTO	25	TL 830, 3000K	24	20,000	25,000	1400	85
	36791-2	\$	F17T8/TL835/ALTO	25	TL 835, 3500K	24	20,000	25,000	1400	85
	36793-8	\$	F17T8/TL841/ALTO	25	TL 841, 4100K	24	20,000	25,000	1400	85
	14123-4	\$	F17T8/TL850/ALTO	25	TL 850, 5000K	24	20,000	25,000	1400	85
	36807-6	\$	F17T8/TL730/ALTO	25	TL 730, 3000K	24	20,000	25,000	1325	78
	36808-4	\$	F17T8/TL735/ALTO	25	TL 735, 3500K	24	20,000	25,000	1325	78
	36812-6	\$	F17T8/TL741/ALTO	25	TL 741, 4100K	24	20,000	25,000	1325	78
25	36813-4	\$	F25T8/TL830/ALTO	25	TL 830, 3000K	36	20,000	25,000	2225	85
	36814-2	\$	F25T8/TL835/ALTO	25	TL 835, 3500K	36	20,000	25,000	2225	85
	36825-8	\$	F25T8/TL841/ALTO	25	TL 841, 4100K	36	20,000	25,000	2225	85
	14124-2	\$	F25T8/TL850/ALTO	25	TL 850, 5000K	36	20,000	25,000	2225	85
	36826-6	\$	F25T8/TL730/ALTO	25	TL 730, 3000K	36	20,000	25,000	2125	78
	36828-2	\$	F25T8/TL735/ALTO	25	TL 735, 3500K	36	20,000	25,000	2125	78
	36829-0	\$	F25T8/TL741/ALTO	25	TL 741, 4100K	36	20,000	25,000	2125	78
32	24667-8	ⓔ	F32T8/TL830/ALTO	25	TL 830, 3000K	48	20,000	25,000	2950	85
	27236-9	ⓔ	F32T8/TL830/ALTO PLZ	1350	TL 830, 3000K	48	20,000	25,000	2950	85
	24670-2	ⓔ	F32T8/TL835/ALTO	25	TL 835, 3500K	48	20,000	25,000	2950	85
	27233-6	ⓔ	F32T8/TL835/ALTO PLZ	1350	TL 835, 3500K	48	20,000	25,000	2950	85
	24671-0	ⓔ	F32T8/TL841/ALTO	25	TL 841, 4100K	48	20,000	25,000	2950	85
	27235-1	ⓔ	F32T8/TL841/ALTO PLZ	1350	TL 841, 4100K	48	20,000	25,000	2950	85
	27229-4	ⓔ	F32T8/TL850/ALTO	25	TL 850, 5000K	48	20,000	25,000	2950	85
	27252-6	ⓔ	F32T8/TL730 ALTO	25	TL 730, 3000K	48	20,000	25,000	2800	78
	27282-3	ⓔ	F32T8/TL730/ALTO PLZ	1350	TL 730, 3000K	48	20,000	25,000	2800	78
	27249-2	ⓔ	F32T8/TL735/ALTO	25	TL 735, 3500K	48	20,000	25,000	2800	78
	27259-1	ⓔ	F32T8/TL735/ALTO PLZ	1350	TL 735, 3500K	48	20,000	25,000	2800	78
	27248-4	ⓔ	F32T8/TL741/ALTO	25	TL 741, 4100K	48	20,000	25,000	2800	78
	38351-3	ⓔ	F32T8/TL741/ALTO	10	TL 741, 4100K, 10PK	48	20,000	25,000	2800	78
	27255-9	ⓔ	F32T8/TL741/ALTO PLZ	1350	TL 741, 4100K	48	20,000	25,000	2800	78
	27268-2	ⓔ	F32T8/TL750/ALTO	25	TL 750, 5000K	48	20,000	25,000	2700	78

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

ⓔ This product utilizes ALTO® Lamp Technology

* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

T8 Fluorescent Lamps

PLUS

Philips PLUS T8 Lamps featuring ALTO® Lamp Technology

Long Life: 36,000 hours rated average life at 12 hours per start (see footnote 241); 50% more life than standard F32T8 lamps means reduced maintenance and disposal costs

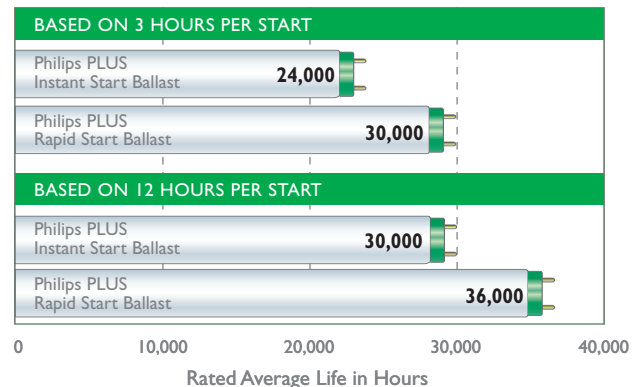
Outstanding Lumen Maintenance: HI-VISION® Phosphor combined with Philips exclusive cathode guard delivers 95% lumen maintenance and reduced lamp-end blackening

Enhanced CRI: 85 CRI for TL80 lamps; 78 CRI for TL70 lamps

Ideal for: Any application requiring long life



Philips PLUS T8 Lamp Rated Average Life



Philips PLUS T8 Warranty Period: 30 months

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. 3-Hr. Start (202)	Rated Avg. Life, Hrs. 12-Hr. Start (241)	Approx. Initial Lumens (203, 204)	Design Lumens (208, 239)	CRI
PLUS T8 Fluorescent Lamps T8 Medium Bipin Featuring HI-VISION® Phosphor											
15	38419-8	(E)◇□\$	F15T8/TL865/PLUS/ALTO	24	TL 865, 6500K	18	24,000	30,000	975	925	85
17	14552-4	(E)\$	F17T8/TL830/PLUS/ALTO	25	TL 830, 3000K	24	24,000	30,000	1400	1300	85
	14553-2	(E)\$	F17T8/TL835/PLUS/ALTO	25	TL 835, 3500K	24	24,000	30,000	1400	1300	85
	14554-0	(E)\$	F17T8/TL841/PLUS/ALTO	25	TL 841, 4100K	24	24,000	30,000	1400	1300	85
	14555-7	(E)\$	F17T8/TL850/PLUS/ALTO	25	TL 850, 5000K	24	24,000	30,000	1325	1225	85
	38215-0	(E)\$	F17T8/TL865/PLUS/ALTO	25	TL 865, 6500K	24	24,000	30,000	1300	1235	85
25	14556-5	(E)\$	F25T8/TL830/PLUS/ALTO	25	TL 830, 3000K	36	24,000	30,000	2225	2050	85
	14557-3	(E)\$	F25T8/TL835/PLUS/ALTO	25	TL 835, 3500K	36	24,000	30,000	2225	2050	85
	14558-1	(E)\$	F25T8/TL841/PLUS/ALTO	25	TL 841, 4100K	36	24,000	30,000	2225	2050	85
	14559-9	(E)\$	F25T8/TL850/PLUS/ALTO	25	TL 850, 5000K	36	24,000	30,000	2125	2000	85
	38258-0	(E)\$	F25T8/TL865/PLUS/ALTO	25	TL 865, 6500K	36	24,000	30,000	2150	2040	85
32	36000-8	(E)\$	F32T8/TL830/PLUS/ALTO	25	TL 830, 3000K	48	30,000	36,000	2950	2800	85
	36001-6	(E)\$	F32T8/TL835/PLUS/ALTO	25	TL 835, 3500K	48	30,000	36,000	2950	2800	85
	36002-4	(E)\$	F32T8/TL841/PLUS/ALTO	25	TL 841, 4100K	48	30,000	36,000	2950	2800	85
	13686-1	(E)\$	F32T8/TL841/PLUS/ALTO PLZ	1350	TL 841, 4100K	48	30,000	36,000	2950	2800	85
	36003-2	(E)\$	F32T8/TL850/PLUS/ALTO	25	TL 850, 5000K	48	30,000	36,000	2950	2800	85
	38261-4	(E)\$	F32T8/TL865/PLUS/ALTO	25	TL 865, 6500K	48	30,000	36,000	2800	2660	85
	36004-0	(E)\$	F32T8/TL730/PLUS/ALTO	25	TL 730, 3000K	48	30,000	36,000	2800	2660	78
	36005-7	(E)\$	F32T8/TL735/PLUS/ALTO	25	TL 735, 3500K	48	30,000	36,000	2800	2660	78
	38383-6	(E)\$	F32T8/TL735/PLUS/ALTO PLZ	1350	TL 735, 3500K	48	30,000	36,000	2800	2660	78
	36013-1	(E)\$	F32T8/TL741/PLUS/ALTO	25	TL 741, 4100K	48	30,000	36,000	2800	2660	78
	38384-4	(E)\$	F32T8/TL741/PLUS/ALTO PLZ	1350	TL 741, 4100K	48	30,000	36,000	2800	2660	78
	36014-9	(E)\$	F32T8/TL750/PLUS/ALTO	25	TL 750, 5000K	48	30,000	36,000	2700	2550	78

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

□ This product utilizes ALTO® Lamp Technology

* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

Philips Advantage T8 Lamps featuring ALTO® Lamp Technology

High Performance: 3100 approximate initial lumens is 10% more than standard T8 lamps

Long Life: 36,000 hours rated average life at 12 hours per start (see footnote 241); 50% more life than standard F32T8 lamps means reduced maintenance and disposal costs

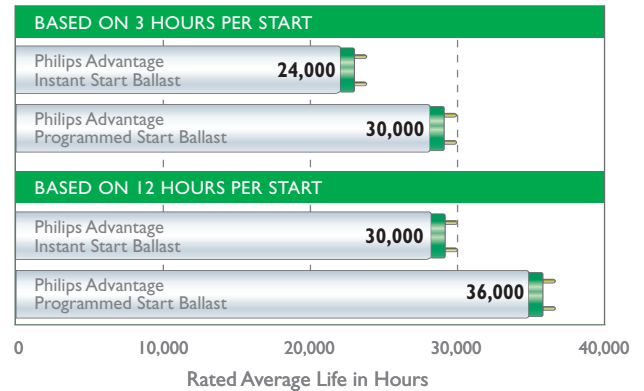
Ultimate System Solution: Higher lumens enables multiple system options to maximize energy saving and reduce lighting costs; fully dimmable without burn-in; ideal for light harvesting

Outstanding Lumen Maintenance: HI-VISION® Phosphor combined with Philips exclusive cathode guard delivers 95% lumen maintenance and reduced lamp-end blackening

Enhanced CRI: 85 CRI

Ideal for: T8 applications requiring maximum quality of light and maintained light output

Philips Advantage T8 Lamp Rated Average Life



Philips Advantage T8 Warranty Period: 36 months



Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs.		Approx. Initial Lumens (203, 204)	Design Lumens (208, 239)	CRI
							3-Hr. Start (202)	12-Hr. Start (241)			
Advantage T8 Fluorescent Lamps T8 Medium Bipin Featuring HI-VISION® Phosphor											
32	13987-3	(E) □ \$	F32T8/ADV830/ALTO	25	Advantage 830, 3000K	48	30,000	36,000	3100	2950	85
	13988-1	(E) □ \$	F32T8/ADV835/ALTO	25	Advantage 835, 3500K	48	30,000	36,000	3100	2950	85
	13989-9	(E) □ \$	F32T8/ADV841/ALTO	25	Advantage 841, 4100K	48	30,000	36,000	3100	2950	85
	13990-7	(E) □ \$	F32T8/ADV850/ALTO	25	Advantage 850, 5000K	48	30,000	36,000	3025	2875	85

Advantage T8 Systems vs. Standard T8 Systems

Energy Savings: 2 Lamp vs. 2 Lamp System

Electronic Ballast	Ballast Factor	No. of Lamps	Lamp Watts	Standard T8 Lumens	Advantage T8 Lumens	System Watts	Savings
Standard T8	0.87	2	32	2850		58	
Reduced Light Output T8	0.75	2	32		3100	51	\$2.80/yr

Energy Savings: 2 Lamp vs. 3 Lamp System

Electronic Ballast	Ballast Factor	No. of Lamps	Lamp Watts	Standard T8 Lumens	Advantage T8 Lumens	System Watts	Savings
Standard T8	0.87	3	32	2850		88	
Increased Light Output T8	1.20	2	32		3100	78	\$4.00/yr

Combine Advantage T8 lamps with Reduced Light Output Electronic Ballasts, with these Results:

- ▶ Produce comparable light output
- ▶ Save 7 system watts vs. standard T8 system
- ▶ Save \$2.80 per fixture per year
- ▶ Energy savings based on 4000 hrs/yr @ \$.10 kw/hr

Combine Advantage T8 Lamps with Increased Light Output Ballasts. A 2 Lamp Advantage T8 System vs. a 3 Lamp Standard T8 System will:

- ▶ Produce comparable light output
- ▶ Save 10 system watts
- ▶ Save \$4.00 per fixture per year
- ▶ Energy savings based on 4000 hrs/yr @ \$.10 kw/hr
- ▶ Reduce lighting installation costs (lamps, ballasts, fixtures and labor)
- ▶ Philips Advantage T8 lamps operate on ballast with ballast factors up to 1.32 with warranty intact

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

□ This product utilizes ALTO® Lamp Technology

* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

T8 Fluorescent Lamps

Energy Advantage Long Life 25W, 28W and 30W

Philips Energy Advantage Long Life 25W, 28W and 30W T8 Lamps featuring ALTO® Lamp Technology

25 Watt T8 Lamp vs. Standard F32T8 Lamp: Save 7 watts per lamp instantly and up to 25% in energy costs; save \$21.00 in energy costs over the rated average lamp life†

Optimum Lamp Life: When operated on Advance's Optanium™ Programmed Start Ballast

Operates on: Any Instant Start Ballast; Programmed Start Ballast that supplies equal to or greater than 550 starting voltage

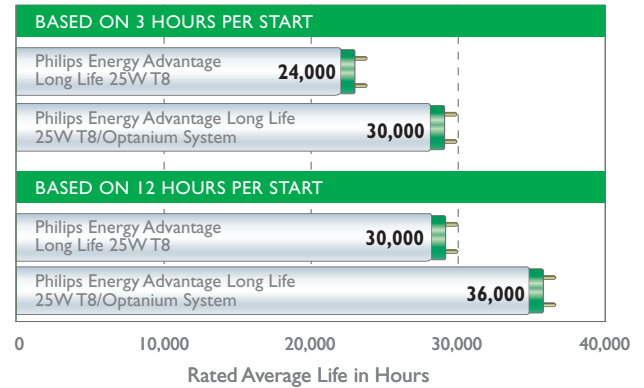
Sustainable Lighting Solution: Less mercury combined with energy efficiency reduces the impact on the environment

Ideal for: Applications requiring the ultimate energy savings

† Based on 30,000 hour rated average life @ .10¢ per KWH @ 12 hours per start on an instant start ballast.



Philips Energy Advantage Long Life 25W, 28W and 30W T8 Lamp Rated Average Life



Philips Energy Advantage Long Life T8 Warranty Period: 30 months

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. 3-Hr. Start (202)	12-Hr. Start (241)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
Energy Advantage T8 Long Life 25 Watt Fluorescent Lamps T8 Medium Bipin Featuring HI-VISION® Phosphor											
25	13781-0	(E) \$	F32T8/ADV830/XEW/LL/ALTO 25 Watt	25	Advantage 830, 3000K	48	24,000	30,000	2400	2280	85
	13782-8	(E) \$	F32T8/ADV835/XEW/LL/ALTO 25 Watt	25	Advantage 835, 3500K	48	24,000	30,000	2400	2280	85
	13783-6	(E) \$	F32T8/ADV841/XEW/LL/ALTO 25 Watt	25	Advantage 841, 4100K	48	24,000	30,000	2400	2280	85
	13784-4	(E) \$	F32T8/ADV850/XEW/LL/ALTO 25 Watt	25	Advantage 850, 5000K	48	24,000	30,000	2300	2180	85

Energy Advantage T8 Long Life 28 Watt Fluorescent Lamps T8 Medium Bipin Featuring HI-VISION® Phosphor											
28	14732-2	(E) \$	F32T8/ADV830/EW/LL/ALTO 28 Watt	25	Advantage 830, 3000K	48	24,000	30,000	2725	2555	85
	14733-0	(E) \$	F32T8/ADV835/EW/LL/ALTO 28 Watt	25	Advantage 835, 3500K	48	24,000	30,000	2725	2555	85
	14734-8	(E) \$	F32T8/ADV841/EW/LL/ALTO 28 Watt	25	Advantage 841, 4100K	48	24,000	30,000	2725	2555	85
	14735-5	(E) \$	F32T8/ADV850/EW/LL/ALTO 28 Watt	25	Advantage 850, 5000K	48	24,000	30,000	2625	2470	85

Energy Advantage T8 Long Life 30 Watt Fluorescent Lamps T8 Medium Bipin Featuring HI-VISION® Phosphor											
30	14771-0	(E) \$	F32T8/ADV830/EW/LL/ALTO 30 Watt	25	Advantage 830, 3000K	48	24,000	30,000	2850	2700	85
	14772-8	(E) \$	F32T8/ADV835/EW/LL/ALTO 30 Watt	25	Advantage 835, 3500K	48	24,000	30,000	2850	2700	85
	14773-6	(E) \$	F32T8/ADV841/EW/LL/ALTO 30 Watt	25	Advantage 841, 4100K	48	24,000	30,000	2850	2700	85
	14774-4	(E) \$	F32T8/ADV850/EW/LL/ALTO 30 Watt	25	Advantage 850, 5000K	48	24,000	30,000	2850	2700	85

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

■ This product utilizes ALTO® Lamp Technology

*The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

T8 Fluorescent Lamps

Rapid Start, U-Bent Rapid Start, Preheat

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. 3-Hr. Start (202)	Rated Avg. Life, Hrs. 12-Hr. Start (241)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
Rapid Start Fluorescent Lamps T8 Medium Bipin; High CRI											
17	22154-9	\$	F17T8/TL950	25	TL 950, 5000K	24	20,000	20,000	910	850	98
25	22158-0	\$	F25T8/TL930	25	TL 930, 3000K	36	20,000	20,000	1550	1450	95
	22159-8	\$	F25T8/TL950	25	TL 950, 5000K	36	20,000	20,000	1550	1450	98
32	20904-9	\$	F32T8/TL930	25	TL 930, 3000K	48	20,000	20,000	2000	1860	95
	20905-6	\$	F32T8/TL950	25	TL 950, 5000K	48	20,000	20,000	2000	1860	98

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
U-Bent Rapid Start Fluorescent Lamps T8 Medium Bipin with 6" Long Spacing (212)										
32	37897-6	\$	FB32T8/TL830/6/ALTO	20	TL 830, 3000K	22 7/8	20,000	2800	2535	85
	37900-8	\$	FB32T8/TL835/6/ALTO	20	TL 835, 3500K	22 7/8	20,000	2800	2535	85
	37902-4	\$	FB32T8/TL841/6/ALTO	20	TL 841, 4100K	22 7/8	20,000	2800	2535	85
	37880-2	\$	FB32T8/TL850/6/ALTO	20	TL 850, 5000K	22 7/8	20,000	2750	2500	84
	37892-7	\$	FB32T8/TL730/6/ALTO	20	TL 730, 3000K	22 7/8	20,000	2650	2370	75
	37893-5	\$	FB32T8/TL735/6/ALTO	20	TL 735, 3500K	22 7/8	20,000	2650	2370	75
	37894-3	\$	FB32T8/TL741/6/ALTO	20	TL 741, 4100K	22 7/8	20,000	2650	2370	75
	37882-8	\$	FB32T8/TL750/6/ALTO	20	TL 750, 5000K	22 7/8	20,000	2600	2325	75

Rapid Start Fluorescent Lamps T8 Medium Bipin										
40	36831-6	\$	F40T8/TL830/ALTO	25	TL 830, 3000K	60	20,000	3775	3500	86
	36834-0	\$	F40T8/TL835/ALTO	25	TL 835, 3500K	60	20,000	3775	3500	86
	36847-2	\$	F40T8/TL841/ALTO	25	TL 841, 4100K	60	20,000	3775	3500	86
	36851-4	\$	F40T8/TL730/ALTO	25	TL 730, 3000K	60	20,000	3600	3250	78
	36852-2	\$	F40T8/TL735/ALTO	25	TL 735, 3500K	60	20,000	3600	3250	78
	36853-0	\$	F40T8/TL741/ALTO	25	TL 741, 4100K	60	20,000	3600	3250	78

Preheat Fluorescent Lamps											T8 Medium Bipin Linear Fluorescent Lamps; Requires Use of Starters (202)										
15	37823-2	F15T8D/ALTO	24	Daylight, 6500K	18	7500	750	660	79												
	38298-6	F15T8/WW/ALTO	24	Warm White, 3000K	18	7500	870	740	53												
	36720-1	F15T8/CW/ALTO	24	Cool White, 4100K	18	7500	870	765	62												
	36436-4	F15T8/CW BULK	96	Cool White, 4100K	18	7500	850	750	62												
	39226-6	F15T8/PLANT	6	Plant Lite, Sleeved	18	7500	410	—	—												
30	26063-8	F30T8/D	24	Daylight, 6500K	36	7500	1500	1350	79												
	38691-2	F30T8/CW/ALTO	24	Cool White, 4100K	36	7500	2200	2000	62												

Energy Advantage 25W T8 Savings

Save 7 Watts Instantly			
7 watts per lamp saved	Energy Savings Calculator		
	Annual Operating Hours*	Savings Over Lamp Life	
KWH Rate	4380	8760	25,000 hrs.
\$0.06	\$1.84	\$3.68	\$10.50
\$0.08	\$2.45	\$4.90	\$14.00
\$0.10	\$3.07	\$6.13	\$17.50
\$0.12	\$3.68	\$7.36	\$21.00
\$0.20	\$6.13	\$12.26	\$35.00

*4380 hours are based on operating the lamps 12 hours per day/7 days per week.
8760 hours are based on operating the lamps 24 hours per day/7 days per week.

Cost of Ownership Savings

Energy Advantage T8 Fluorescent Lamps vs. Standard T8 Lamps.

General Overview

Energy Advantage 25 watt T8 fluorescent lamps provide energy savings of up to 25% versus standard 32 watt T8, so the benefits and financial impact can be significant.

Benefits

By using Energy Advantage 25W T8 lamps the energy savings of 7 watts per lamp can be achieved instantly by simply changing the lamp.

Financial Impact

Energy Savings per Lamp	7 Watts
Operating Hours per Year	8760 hours, continuous burn
Cost per KWh	\$.10

Cost of Ownership Savings = \$6.13 per lamp per year

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

■ This product utilizes ALTO® Lamp Technology

* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

T8 Fluorescent Lamps

PLUS Slimline T8 8-Ft.

Philips PLUS Slimline T8 8-Ft. Lamps featuring ALTO® Lamp Technology

Long Life: Up to 30,000 hours rated average life at 12 hours per start (see footnote 241); Up to 60% more life than standard slimline T8 lamps means reduced maintenance and disposal costs

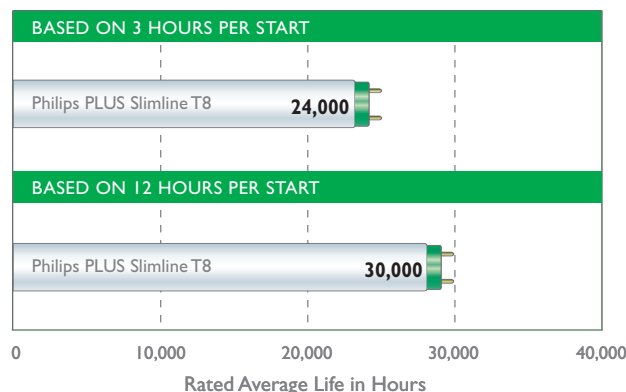
Environmentally Responsible: Low mercury—TCLP*-compliant; energy efficient; long life

Sustainable Lighting Solution: Less mercury combined with energy efficiency reduces the impact on the environment

Outstanding Lumen Maintenance: HI-VISION® Phosphor combined with Philips exclusive cathode guard delivers 90% lumen maintenance and reduced lamp-end blackening

Enhanced CRI: 86 CRI for TL80 lamps; 78 CRI for TL70 lamps

Philips PLUS Slimline Lamp Rated Average Life



Philips PLUS Slimline T8 Warranty Period: 24 months

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. • Description	Nom. Length (In.)	Rated Avg. Life, Hrs. 3-Hr. Start (202)	12-Hr. Start (241)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
PLUS Slimline T8 8-Foot Fluorescent Lamps T8 Single Pin; Featuring ALTO® Lamp Technology; Instant Start										
59	38800-9	(E) □ \$	F96T8/TL830/PLUS/ALTO	24 TL 830, 3000K	96	24,000	30,000	5900	5490	86
	38801-7	(E) □ \$	F96T8/TL835/PLUS/ALTO	24 TL 835, 3500K	96	24,000	30,000	5900	5490	86
	38802-5	(E) □ \$	F96T8/TL841/PLUS/ALTO	24 TL 841, 4100K	96	24,000	30,000	5900	5490	86
	38803-3	(E) □ \$	F96T8/TL850/PLUS/ALTO	24 TL 850, 5000K	96	24,000	30,000	5780	5375	86
	38805-8	(E) □ \$	F96T8/TL735/PLUS/ALTO	24 TL 735, 3500K	96	24,000	30,000	5700	5190	78
	38806-6	(E) □ \$	F96T8/TL741/PLUS/ALTO	24 TL 741, 4100K	96	24,000	30,000	5700	5190	78

PLUS Slimline T8 8-Foot Cost of Ownership Savings

PLUS Slimline 8-foot T8 Fluorescent Lamps vs. Standard 8-foot T8 Lamps

General Overview

PLUS Slimline 8-foot T8 fluorescent lamps may provide up to 60% longer life than standard 8-foot T8 products. With an incremental cost as little as \$1.00 per lamp, benefits and financial impact can be significant.

Benefits

By using PLUS Slimline 8-foot T8 lamps the lamp replacement and labor costs are extended by an extra 2 years on a facility that operates an average of 4000 hours per year. For example, a standard 8-foot T8 product, with a rated average life expectancy of 15,000 hours, will last nearly 4 years (15,000 hours rated average life / 4000 hours per year = 3 3/4 years). Conversely, PLUS Slimline 8-foot T8 lamps will operate for 6 years due to their rated average life expectancy of 24,000 hours (24,000 hours rated average life / 4000 hours per year = 6 years).

Financial Impact

With the extended life expectancy of 2 years and the benefits of Philips' exclusive TCLP-compliant low mercury technology, the positive financial impact of installing PLUS Slimline 8-foot T8 lamps may provide cost of ownership savings per lamp as follows:

Incremental Cost	\$ (1.00)
Material Cost Avoidance ^A	\$ 4.00
Labor Cost Avoidance ^B	\$ 3.72
Disposal Cost Avoidance ^C	\$ 0.72
Cost of Ownership Savings	\$ 7.44

A Material Cost Avoidance is the annualized acquisition cost per lamp (average cost per lamp of \$7.50 for standard 8-Foot T8 product / 3 3/4 years = \$2.00 per year). By installing PLUS Slimline 8-Foot T8 lamps, a material cost per lamp of \$4.00 is avoided due to the extra 2 years of life expectancy. Note that the average cost per lamp may vary.

B Labor Cost Avoidance is the annualized labor replacement cost per lamp (labor replacement cost per lamp of \$7.00 / 3 years = \$1.86 per year). By installing PLUS Slimline 8-Foot T8 lamps, a labor replacement cost per lamp of \$3.72 is avoided due to the extra 2 years life expectancy. Note that the labor replacement cost per lamp may vary.

C Disposal Cost Avoidance is based on an average of \$.09 per foot for lamp recycling or \$.72 per 8-foot lamp. Philips Lighting Company encourages the recycling of all fluorescent lamps.

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

□ This product utilizes ALTO® Lamp Technology

* The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

Philips PLUS High Output T8 Lamps featuring ALTO® Lamp Technology

Long Life: 30,000 hours rated average life at 12 hours per start (see footnote 241); 50% more life than standard T8 HO 8-foot lamps means reduced maintenance and disposal costs

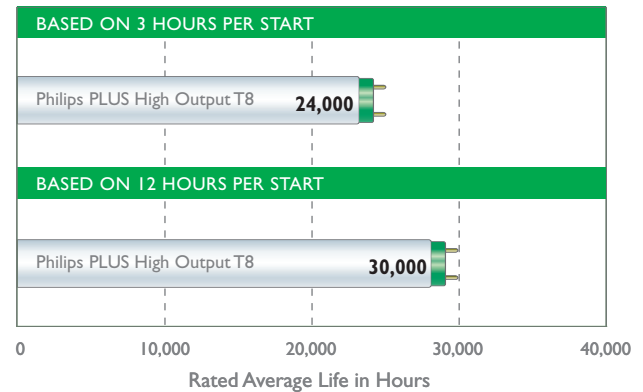
Environmentally Responsible: Low mercury—TCLP*-compliant; energy efficient; long life

Sustainable Lighting Solution: Less mercury combined with energy efficiency reduces the impact on the environment

Outstanding Lumen Maintenance: HI-VISION® Phosphor combined with Philips exclusive cathode guard delivers 95% lumen maintenance and reduced lamp-end blackening

Enhanced CRI: 86 CRI for TL80 lamps; 78 CRI for TL70 lamps

Philips PLUS High Output Lamp
Rated Average Life



**Philips PLUS High Output T8
Warranty Period: 24 months**



Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. 3-Hr. Start (202)	12-Hr. Start (241)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
PLUS High Output T8 8-Foot Fluorescent Lamps T8 Recessed D.C.; Featuring ALTO® Lamp Technology											
86	38826-4	(E) □ \$	F96T8/TL830/HO/PLUS/ALTO	24	TL 830, 3000K	96	24,000	30,000	8200	7625	86
	38827-2	(E) □ \$	F96T8/TL835/HO/PLUS/ALTO	24	TL 835, 3500K	96	24,000	30,000	8200	7625	86
	38828-0	(E) □ \$	F96T8/TL841/HO/PLUS/ALTO	24	TL 841, 4100K	96	24,000	30,000	8200	7625	86
	38831-4	(E) □ \$	F96T8/TL741/HO/PLUS/ALTO	24	TL 741 4100K	96	24,000	30,000	7900	7100	78

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Average Life, Hours (205)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
High Output Fluorescent Lamps T8 Recessed D.C.; Featuring ALTO® Lamp Technology										
44	38808-2	□ \$	F48T8/TL830/HO/ALTO	24	TL 830, 3000K	48	18,000	4000	3600	86
	38809-0	□ \$	F48T8/TL835/HO/ALTO	24	TL 835, 3500K	48	18,000	4000	3600	86
	38810-8	□ \$	F48T8/TL841/HO/ALTO	24	TL 841, 4100K	48	18,000	4000	3600	86
55	38814-0	□ \$	F60T8/TL830/HO/ALTO	24	TL 830, 3000K	60	18,000	5050	4545	86
	38815-7	□ \$	F60T8/TL835/HO/ALTO	24	TL 835, 3500K	60	18,000	5050	4545	86
	38816-5	□ \$	F60T8/TL841/HO/ALTO	24	TL 841, 4100K	60	18,000	5050	4545	86
65	38820-7	□ \$	F72T8/TL830/HO/ALTO	24	TL 830, 3000K	72	18,000	6100	5490	86
	38821-5	□ \$	F72T8/TL835/HO/ALTO	24	TL 835, 3500K	72	18,000	6100	5490	86
	38822-3	□ \$	F72T8/TL841/HO/ALTO	24	TL 841, 4100K	72	18,000	6100	5490	86

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

□ This product utilizes ALTO® Lamp Technology

*The TCLP is the US EPA's Toxicity Characteristic Leaching Procedure.

T12 Fluorescent Lamps

Rapid Start, Advantage Rapid Start, Rapid Start "Long Life," Rapid Start 800, U-Bent

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
Rapid Start Fluorescent Lamps T12 Medium Bipin										
25	27247-6	\$	F25T12/CW/RS/EW/ALTO	30	Cool White, 4100K	36	18,000	1950	1650	62
	31365-0	\$	F25T12/WW/RS/EW	30	Warm White, 3000K	36	18,000	2000	1700	53
30	31377-5		F30T12/30U/RS	30	Ultralume, 3000K	36	18,000	2400	2160	85
	31379-1		F30T12/35U/RS	30	Ultralume, 3500K	36	18,000	2400	2160	85
	31380-9	□	F30T12/41U/RS	30	Ultralume, 4100K	36	18,000	2400	2160	85
	31381-7	□	F30T12/50U/RS	30	Ultralume, 5000K	36	18,000	2380	2140	85
	31369-2		F30T12/SPEC30/RS	30	SPEC30, 3000K	36	18,000	2350	2080	70
	31371-8		F30T12/SPEC35/RS	30	SPEC35, 3500K	36	18,000	2350	2080	73
	31372-6		F30T12/SPEC41/RS	30	SPEC41, 4100K	36	18,000	2350	2080	70
	31376-7		F30T12/C50/RS	30	Colortone 50, 5000K	36	18,000	1550	1300	92
	37649-1		F30T12/D/RS/ALTO	30	Daylight, 6500K	36	18,000	1950	1700	79
	27242-7		F30T12/CW/RS/ALTO	30	Cool White, 4100K	36	18,000	2250	1900	62
	31221-7		F30T12/WW/RS/ALTO	30	Warm White, 3000K	36	18,000	2300	1950	53

Nom. Lamp Watts			Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs.		Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
									3-Hr. Start (202)	12-Hr. Start (241)			
Advantage Rapid Start Ultimate Performance Fluorescent Lamps T12 Medium Bipin													
34	14257-0				F34T12/ADV30/EW/ALTO	30	Advantage 30,T12, 3000K	48	24,000	30,000	3100	2945	85
	14258-8				F34T12/ADV35/EW/ALTO	30	Advantage 35,T12, 3500K	48	24,000	30,000	3100	2945	85
	14259-6				F34T12/ADV41/EW/ALTO	30	Advantage 41,T12, 4100K	48	24,000	30,000	3100	2945	85
	14260-4				F34T12/ADV50/EW/ALTO	30	Advantage 50,T12, 5000K	48	24,000	30,000	3000	2845	85

Rapid Start "Long Life" Fluorescent Lamps T12 Medium Bipin											
34	14251-3	F34/CW/RS/EW/LL/ALTO	30	Cool White, 4100K	48	24,000	30,000	2650	2300	62	
	14252-1	F34/WW/RS/EW/LL/ALTO	30	Warm White, 3000K	48	24,000	30,000	2700	2350	53	

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
Rapid Start 800 Series Fluorescent Lamps T12 Medium Bipin										
NEW! 34	14253-9		F34T12/830/EW/ALTO	30	TL 830, 3000K	48	20,000	2800	2660	82
	14254-7		F34T12/835/EW/ALTO	30	TL 835, 3500K	48	20,000	2800	2660	82
	14255-4		F34T12/841/EW/ALTO	30	TL 841, 4100K	48	20,000	2800	2660	82
	14256-2		F34T12/850/EW/ALTO	30	TL 850, 5000K	48	20,000	2800	2660	82

Rapid Start Fluorescent Lamps T12 Medium Bipin										
34	26659-3	\$	F34/DX/RS/EW/ALTO	30	Daylight Deluxe, 6500K	48	20,000	2025	1775	84
	24470-7	\$	F34/CW/RS/EW/ALTO	30	Cool White, 4100K	48	20,000	2650	2300	62
	22046-7	\$	F34/CW/RS/EW/ALTO	10	Cool White, 4100K, 10PK	48	20,000	2650	2300	62
	24472-3	\$	F34/CW/RS/EW/ALTO PLZ	650	Cool White, 4100K	48	20,000	2650	2650	62
	25686-7	\$	F34/WW/RS/EW/ALTO	30	Warm White, 3000K	48	20,000	2700	2350	53

U-Bent Fluorescent Lamps T12 Medium Bipin										
34	37871-1	\$	FB34/SPEC30/6/EW/ALTO	12	SPEC30, 3000K	22 7/8	18,000	2760	2500	70
	37872-9	\$	FB34/SPEC35/6/EW/ALTO	12	SPEC35, 3500K	22 7/8	18,000	2760	2500	73
	37874-5	\$	FB34/SPEC41/6/EW/ALTO	12	SPEC41, 4100K	22 7/8	18,000	2760	2500	70
	37863-8		FB34/CW/6/EW/ALTO	12	Cool White, 4100K	22 7/8	18,000	2400	2050	62
	37865-3		FB34/LW/6/EW/ALTO	12	Lite White, 4200K	22 7/8	18,000	2500	2150	62
	37862-0		FB34/WW/6/EW/ALTO	12	Warm White, 3000K	22 7/8	18,000	2400	2050	53
	20704-3		FB34/CW/3/EW	12	Cool White, 4100K	22 7/8	18,000	2350	2050	62
	20705-0		FB34/WW/3/EW	12	Warm White, 3000K	22 7/8	18,000	2425	2125	51

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

□ This product utilizes ALTO® Lamp Technology

T12 Fluorescent Lamps

Advantage Rapid Start, Rapid Start 800, Rapid Start, U-Bent

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
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Advantage Rapid Start Ultimate Performance Fluorescent Lamps T12 Medium Bipin Linear Fluorescent Lamps

40	26604-9	☐	F40T12/ADV30/ALTO	30	Advantage 30,T12, 3000K	48	24,000	3600	3250	85
	26631-2	☐	F40T12/ADV35/ALTO	30	Advantage 35,T12, 3500K	48	24,000	3600	3250	85
	26640-3	☐	F40T12/ADV41/ALTO	30	Advantage 41,T12, 4100K	48	24,000	3600	3250	85
	26643-7	☐	F40T12/ADV50/ALTO	30	Advantage 50,T12, 5000K	48	24,000	3600	3250	85

Rapid Start 800 Series Fluorescent Lamps T12 Medium Bipin

40	14261-2		F40T12/830/ALTO	30	TL 830, 3000K	48	20,000	3200	3040	82
	14262-0		F40T12/835/ALTO	30	TL 835, 3500K	48	20,000	3200	3040	82
	14263-8		F40T12/841/ALTO	30	TL 841, 4100K	48	20,000	3200	3040	82
	14264-6		F40T12/850/ALTO	30	TL 850, 5000K	48	20,000	2700	2900	82

NEW!

Rapid Start Fluorescent Lamps T12 Medium Bipin Linear Fluorescent Lamps

40	33464-9		F40/C75	30	Colortone 75, 7500K	48	20,000	2000	1720	95
	30203-4		F40/C50	30	Colortone 50, 5000K	48	20,000	2200	1915	92
	27359-9		F40/DX/ALTO	30	Daylight Deluxe, 6500K	48	20,000	2325	2025	84
	36765-6		F40/CWX	30	Cool White Deluxe, 4200K	48	20,000	2200	1800	89
	39228-2		F40/PLANT	6	Plant Light, Sleeved	48	20,000	1600	1360	—
	20189-7		F40/BB	6	Special Blue	48	20,000	550	385	—

U-Bent Fluorescent Lamps T12 Medium Bipin

40	37879-4		FB40/30U/6/ALTO	12	Ultralume, 3000K	22 7/16	18,000	3100	2850	85
	37840-6		FB40/35U/6/ALTO	12	Ultralume, 3500K	22 7/16	18,000	3100	2850	85
	37876-0		FB40/41U/6/ALTO	12	Ultralume, 4100K	22 7/16	18,000	3100	2850	85
	37866-1		FB40/SPEC30/6/ALTO	12	SPEC30, 3000K	22 7/16	18,000	3050	2775	70
	37854-7		FB40/SPEC35/6/ALTO	12	SPEC35, 3500K	22 7/16	18,000	3050	2775	73
	37868-7		FB40/SPEC41/6/ALTO	12	SPEC41, 4100K	22 7/16	18,000	3050	2775	70
	21993-1		FB40/DX/6	12	Daylight Deluxe, 6500K	22 7/16	18,000	2250	1950	84

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

☐ This product utilizes ALTO® Lamp Technology

T12 Fluorescent Lamps

Slimline, Slimline "Long Life," Slimline 800,

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
Slimline Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start										
30	14140-8	\$	F36T12/CW	24	Cool White, 4100K	36	7500	1850	1630	62
	36609-6	\$	F48T12/SPEC41/EW/ALTO	15	SPEC41, 4100K	48	9000	2575	2350	70
	38700-1	\$	F48T12/CW/EW/ALTO	15	Cool White, 4100K	48	9000	2400	2150	62
39	36613-8		F48T12/SPEC35/ALTO	15	SPEC35, 3500K	48	9000	3000	2800	73
	36219-4		F48T12/D/ALTO	15	Daylight, 6500K	48	9000	2500	220	79
	38702-7		F48T12/CW/ALTO	30	Cool White, 4100K	48	9000	2950	2600	62
	36660-9		F48T12/WW/ALTO	15	Warm White, 3000K	48	9000	2950	2650	53
50	35564-4		F60T12/D	15	Daylight, 6500K	60	12,000	3150	2850	79
	35563-6		F60T12/CW	15	Cool White, 4100K	60	12,000	3450	3050	62
51	35577-6		F64T12/D	15	Daylight, 6500K	64	12,000	3200	2800	79
	35576-8		F64T12/CW	15	Cool White, 4100K	64	12,000	3750	3050	62
56	36614-6		F72T12/30U/ALTO	15	Ultralume, 3000K	72	12,000	4850	4550	85
	36618-7		F72T12/35U/ALTO	15	Ultralume, 3500K	72	12,000	4850	4550	85
	36621-1		F72T12/41U/ALTO	15	Ultralume, 4100K	72	12,000	4850	4550	85
	36623-7		F72T12/SPEC35/ALTO	15	SPEC35, 3500K	72	12,000	4700	4400	73
	36985-0		F72T12/D/ALTO	15	Daylight, 6500K	72	12,000	3800	3350	79
	36989-2		F72T12/CW/ALTO	15	Cool White, 4100K	72	12,000	4450	3900	62
	36661-7		F72T12/WW/ALTO	15	Warm White, 3000K	72	12,000	4550	4000	53
Slimline "Long Life" Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start										
60	14747-0		F96T12/CW/EW/LL/ALTO	15	Cool White, 4100K	96	15,000	5400	4750	62
	14748-8		F96T12/841/EW/LL/ALTO	15	TL841, 4100K	96	15,000	5900	5550	85
Slimline 800 Series Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start										
60	14269-5		F96T12/830/EW/ALTO	15	TL830, 3000K	96	12,000	5900	5550	85
	14270-3		F96T12/835/EW/ALTO	15	TL835, 3500K	96	12,000	5900	5550	85
	14271-1		F96T12/841/EW/ALTO	15	TL841, 4100K	96	12,000	5900	5550	85
	14272-9		F96T12/850/EW/ALTO	15	TL850, 5000K	96	12,000	5800	5450	85
Slimline Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start										
60	36624-5	X \$	F96T12/30U/EW/ALTO	15	Ultralume, 3000K	96	12,000	5900	5550	85
	36625-2	X \$	F96T12/35U/EW/ALTO	15	Ultralume, 3500K	96	12,000	5900	5550	85
	36627-8	X \$	F96T12/41U/EW/ALTO	15	Ultralume, 4100K	96	12,000	5900	5550	85
	36628-6	X \$	F96T12/50U/EW/ALTO	15	Ultralume, 5000K	96	12,000	5850	5500	85
	36630-2	X \$	F96T12/SPEC30/EW/ALTO	15	SPEC30, 3000K	96	12,000	5750	5400	70
	26018-2	X \$	F96T12/SPEC35/EW/ALTO	15	SPEC35, 3500K	96	12,000	5750	5400	73
	26022-4	X \$	F96T12/SPEC41/EW/ALTO	15	SPEC41, 4100K	96	12,000	5750	5400	70
	34198-2	X \$	F96T12/C50/EW	15	Colortone 50, 5000K	96	12,000	4100	3700	92
	36654-2		F96T12/DX/EW/ALTO	15	Daylight Deluxe, 6500K	96	12,000	4200	3675	84
	25840-0		F96T12/CW/EW/ALTO	15	Cool White, 4100K	96	12,000	5400	4750	62
	36656-7		F96T12/WW/EW/ALTO	15	Warm White, 3000K	96	12,000	5500	4850	53
	36655-9	X	F96T12/LW/EW/ALTO	15	Lite White, 4200K	96	12,000	5600	4950	51
Slimline "Long Life" Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start										
75	14749-6		F96T12/841/LL/ALTO	15	TL841, 4100K	96	15,000	6600	6225	85
Slimline 800 Series Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start										
75	14273-7		F96T12/830/ALTO	15	TL830, 3000K	96	12,000	6600	6225	85
	14274-5		F96T12/835/ALTO	15	TL835, 3500K	96	12,000	6600	6225	85
	14275-2		F96T12/841/ALTO	15	TL841, 4100K	96	12,000	6600	6225	85
	14276-0		F96T12/850/ALTO	15	TL850, 5000K	96	12,000	6500	6125	85
Slimline Fluorescent Lamps T12 Single Pin Linear Fluorescent Lamps; Instant Start										
75	36633-6	X	F96T12/30U/ALTO	15	Ultralume, 3000K	96	12,000	6600	6225	85
	36634-4	X	F96T12/35U/ALTO	15	Ultralume, 3500K	96	12,000	6600	6225	85
	36635-1	X	F96T12/41U/ALTO	15	Ultralume, 4100K	96	12,000	6600	6225	85
	36636-9	X	F96T12/50U/ALTO	15	Ultralume, 5000K	96	12,000	6500	6125	85
	36647-6	X	F96T12/SPEC30/ALTO	15	SPEC30, 3000K	96	12,000	6425	6050	70
	36648-4	X	F96T12/SPEC35/ALTO	15	SPEC35, 3500K	96	12,000	6425	6050	73
	36650-0	X	F96T12/SPEC41/ALTO	15	SPEC41, 4100K	96	12,000	6425	6050	70
	34170-1		F96T12/C50	15	Colortone 50, 5000K	96	12,000	4650	4200	92
	34165-1	X	F96T12/N	15	Natural, 3700K	96	12,000	4300	3850	90
	37282-1		F96T12/DX/ALTO	15	Daylight Deluxe, 6500K	96	12,000	4500	3950	84

For the most current product information, go to the e-catalog on www.philips.com Fluorescent symbols and footnotes located on page 87

□ This product utilizes ALTO® Lamp Technology X No longer manufactured, available until inventory depleted

T12 Fluorescent Lamps

High Output

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
High Output Fluorescent Lamps (800ma) T12 Recessed D.C. Linear Fluorescent Lamps (207, 214)										
35	14144-0		F24T12/D/HO	30	Daylight, 6500K	24	9000	1400	1180	79
	14145-7		F24T12/CW/HO	30	Cool White, 4100K	24	9000	1650	1390	62
40	14141-6		F30T12/D/HO	30	Daylight, 6500K	30	9000	1920	1590	79
	14142-4		F30T12/CW/HO	30	Cool White, 4100K	30	9000	2290	1900	62
50	14138-2		F36T12/D/HO	30	Daylight, 6500K	36	9000	2500	2150	79
	14139-0		F36T12/CW/HO	30	Cool White, 4100K	36	9000	2800	2450	62
55	14136-6		F42T12/D/HO	30	Daylight, 6500K	42	9000	3000	2610	79
	14137-4		F42T12/CW/HO	30	Cool White, 4100K	42	9000	3400	2950	62
60	13222-5		F48T12/41U/HO/ALTO	15	Ultralume, 4100K	48	12,000	4400	4000	85
	26773-2		F48T12/41U/HO	15	Ultralume, 4100K	48	12,000	4400	4000	85
	21896-6		F48T12/SPEC30/HO	15	SPEC30, 3000K	48	12,000	4250	3830	70
	21897-4		F48T12/SPEC35/HO	15	SPEC35, 3500K	48	12,000	4250	3830	73
	26775-7		F48T12/SPEC41/HO	15	SPEC41, 4100K	48	12,000	4250	3830	70
	36984-3		F48T12/D/HO/ALTO	15	Daylight, 6500K	48	12,000	3400	3000	79
	36978-5		F48T12/CW/HO/ALTO	15	Cool White, 4100K	48	12,000	4050	3500	62
	21816-4		F48T12/WW/HO	15	Warm White, 3000K	48	12,000	4100	3550	53
75	35567-7		F60T12/D/HO	15	Daylight, 6500K	60	12,000	4400	3800	79
	35566-9		F60T12/CW/HO	15	Cool White, 4100K	60	12,000	5150	4500	62
80	35584-2		F64T12/D/HO	15	Daylight, 6500K	64	12,000	4900	4250	79
	35578-4		F64T12/CW/HO	15	Cool White, 4100K	64	12,000	5600	4850	62
85	27305-2		F72T12/30U/HO	15	Ultralume, 3000K	72	12,000	6800	6200	85
	26723-7		F72T12/35U/HO	15	Ultralume, 3500K	72	12,000	6800	6200	85
	26742-7		F72T12/41U/HO	15	Ultralume, 4100K	72	12,000	6800	6200	85
	30001-2		F72T12/SPEC35/HO	15	SPEC35, 3500K	72	12,000	6650	6000	73
	30756-1		F72T12/SPEC41/HO	15	SPEC41, 4100K	72	12,000	6650	6000	70
	21204-3		F72T12/N/HO	15	Natural, 3700K	72	12,000	4200	3610	90
	36653-4		F72T12/D/HO/ALTO	15	Daylight, 6500K	72	12,000	5600	4850	79
	36651-8		F72T12/CW/HO/ALTO	15	Cool White, 4100K	72	12,000	6350	5500	62
100	33053-0		F72T12/WW/HO	15	Warm White, 3000K	72	12,000	6500	5700	53
	21206-8		F84T12/D/HO	15	Daylight, 6500K	84	12,000	6900	6000	79
	21205-0		F84T12/CW/HO	15	Cool White, 4100K	84	12,000	7800	6800	62

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Fluorescent symbols and footnotes located on page 87

■ This product utilizes ALTO® Lamp Technology

T12 Fluorescent Lamps

High Output 800, High Output

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
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High Output 800 Series Fluorescent Lamps (800ma)

NEW!	95	14277-8	F96T12/830/HO/EW/ALTO	15	TL830, 3000K	86	12,000	8625	7750	85
		14278-6	F96T12/835/HO/EW/ALTO	15	TL835, 3500K	96	12,000	8625	7750	85
		14279-4	F96T12/841/HO/EW/ALTO	15	TL841, 4100K	96	12,000	8625	7750	85
		14280-4	F96T12/850/HO/EW/ALTO	15	TL850, 5000K	96	12,000	8520	7675	85

High Output Fluorescent Lamps (800ma) T12 Recessed D.C. Linear Fluorescent Lamps (207, 214)

NEW!	95	27319-3	X \$ F96T12/30U/HO/EW	15	Ultralume, 3000K	96	12,000	8625	7750	85
		34862-3	X \$ F96T12/41U/HO/EW	15	Ultralume, 4100K	96	12,000	8620	7750	85
		20525-2	X \$ F96T12/50U/HO/EW	15	Ultralume, 5000K	96	12,000	8520	7675	85
		34861-5	X \$ F96T12/SPEC30/HO/EW	15	SPEC30, 3000K	96	12,000	8350	7500	70
		22117-6	X \$ F96T12/SPEC35/HO/EW	15	SPEC35, 3500K	96	12,000	8350	7500	73
		34848-2	X \$ F96T12/SPEC41/HO/EW	15	SPEC41, 4100K	96	12,000	8350	7500	70
		21471-8	\$ F96T12/DX/HO/EW	15	Daylight Deluxe, 6500K	96	12,000	5850	5000	84
		26660-1	\$ F96T12/CW/HO/EW/ALTO	15	Cool White, 4100K	96	12,000	8000	6950	62
		34219-6	X \$ F96T12/WW/HO/EW	15	Warm White, 3000K	96	12,000	8100	7050	53
		34216-2	X \$ F96T12/LW/HO/EW	15	Lite White, 4200K	96	12,000	8300	7200	51

High Output 800 Series Fluorescent Lamps (800ma)

NEW!	110	14281-0	F96T12/830/HO/ALTO	15	TL830, 3000K	96	12,000	9500	8550	85
		14282-8	F96T12/835/HO/ALTO	15	TL835, 3500K	96	12,000	9500	8550	85
		14283-6	F96T12/841/HO/ALTO	15	TL841, 4100K	96	12,000	9500	8550	85
		14284-4	F96T12/850/HO/ALTO	15	TL850, 5000K	96	12,000	9350	8350	85

High Output Fluorescent Lamps (800ma) T12 Recessed D.C. Linear Fluorescent Lamps (207, 214)

NEW!	110	34863-1	X F96T12/30U/HO	15	Ultralume, 3000K	96	12,000	9500	8550	85
		26710-4	X F96T12/35U/HO	15	Ultralume, 3500K	96	12,000	9500	8550	85
		34864-9	X F96T12/41U/HO	15	Ultralume, 4100K	96	12,000	9500	8550	85
		34865-6	X F96T12/50U/HO	15	Ultralume, 5000K	96	12,000	9350	8350	85
		27276-5	X F96T12/SPEC30/HO	15	SPEC30, 3000K	96	12,000	9300	8375	70
		27681-6	X F96T12/SPEC35/HO	15	SPEC35, 3500K	96	12,000	9300	8375	73
		27279-9	X F96T12/SPEC41/HO	15	SPEC41, 4100K	96	12,000	9300	8375	70
		34226-1	F96T12/C50/HO	15	Colortone 50, 5000K	96	12,000	6300	5400	92
		34230-3	X F96T12/N/HO	15	Natural, 3700K	96	12,000	6250	5400	90
		34222-0	F96T12/CWX/HO	15	Cool White Deluxe, 5000K	96	12,000	6600	5500	89
		21489-0	F96T12/DX/HO	15	Daylight Deluxe, 6500K	96	12,000	6750	5800	84

High Output Fluorescent Lamps (800ma) T12 Recessed D.C. Linear Fluorescent Lamps; For Low Temperature Applications (223)

NEW!	110	38177-4	F96T12/D/HO-O/ALTO	15	Daylight, 6500K	96	12,000	7800	6800	79
		38176-4	F96T12/CW/HO-O/ALTO	15	Cool White, 4100K	96	12,000	8800	7650	62

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

☐ This product utilizes ALTO® Lamp Technology

X No longer manufactured, available until inventory depleted

T12 Fluorescent Lamps

Very High Output, Outdoor Very High Output, Gold

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. 3-Hr. Start (202)	12-Hr. Start (241)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
Very High Output Fluorescent Lamps (1500ma) T12 Recessed D.C. Linear Fluorescent Lamps (214)											
110	21819-8		F48T12/CW/VHO	15	Cool White, 4100K	48	12,000	12,000	7050	4950	62
135	21785-1		F60T12/CW/VHO	15	Cool White, 4100K	60	12,000	12,000	9000	6300	62
160	33054-8		F72T12/D/VHO	15	Daylight, 6500K	72	12,000	12,000	12,000	6400	79
	21210-0		F72T12/CW/VHO	15	Cool White, 4100K	72	12,000	12,000	11,000	7600	62
185	34232-9	\$	F96T12/CW/VHO/EW	15	Cool White, 4100K	96	12,000	12,000	13,000	9000	62
	34233-7	\$	F96T12/LW/VHO/EW	15	Lite White, 4200K	96	12,000	12,000	14,400	10,100	51
215	38213-5	□	F96T12/41U/VHO/ALTO	15	Ultralume, 4100K	96	12,000	12,000	17,500	16,100	85
	34237-8		F96T12/D/VHO	15	Daylight, 6500K	96	12,000	12,000	12,505	8750	79
	34234-5		F96T12/CW/VHO	15	Cool White, 4100K	96	12,000	12,000	15,200	10,700	62

Outdoor Very High Output Fluorescent Lamps (1500ma) T12 Recessed D.C. Linear Fluorescent Lamps											
116	21820-6		F48T12/CW/VHO-O	12	Cool White, 4100K	48	10,000	10,000	7000	4900	62
140	37543-6		F60T12/50U/VHO-O	15	Ultralume, 5000K	60	10,000	10,000	7300	5200	85
	21786-9		F60T12/CW/VHO-O	12	Cool White, 4100K	60	10,000	10,000	8900	8250	62
162	21211-8		F72T12/CW/VHO-O	8	Cool White, 4100K	72	10,000	10,000	11,250	7750	62
212	34243-6		F96T12/CW/VHO-O	8	Cool White, 4100K	96	10,000	10,000	14,900	10,400	62

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.*	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
Preheat Fluorescent Lamps T12 Medium Bipin Linear Fluorescent Lamps										
14	14151-5		F14T12/CW	30	Cool White, 4100K	15	9000	710	590	62
15	14147-3		F15T12/D	30	Daylight, 6500K	18	9000	650	535	79
	14149-9		F15T12/CW	30	Cool White, 4100K	18	9000	800	695	62
20	31399-9		F20T12/30U	30	Ultralume, 3000K	24	9000	1350	1270	85
	31401-3		F20T12/41U	30	Ultralume, 4100K	24	9000	1350	1270	85
	31403-9		F20T12/50U	30	Ultralume, 5000K	24	9000	1340	1260	85
	31386-6		F20T12/SPEC30	24	SPEC30, 3000K	24	9000	1275	1190	70
	31388-2		F20T12/SPEC35	24	SPEC35, 3500K	24	9000	1275	1190	73
	31396-5		F20T12/C50	30	Colortone 50, 5000K	24	9000	850	755	92
	27328-4		F20T12/D/ALTO	30	Daylight, 6500K	24	9000	960	960	79
	27332-6		F20T12/CW/ALTO	30	Cool White, 4100K	24	9000	1200	1050	62
	27349-0		F20T12/WW/ALTO	30	Warm White, 3000K	24	9000	1250	1100	53
	39227-4		F20T12/PLANT	6	Plant Lite, Sleeved	24	9000	600	500	—
	31745-3		F20T12/BB	6	Special Blue	24	9000	225	180	—
	25	26030-7		F25T12/CW	30	Cool White, 4100K	33	7500	1900	1710

Gold Fluorescent Lamps Blocks UV Emissions											
32	14746-2	±	F32T8/GOLD	25	Gold Sleeved	48	20,000	1750	1480	—	
40	14750-4	±	F40T12/GOLD	30	Gold Sleeved	48	20,000	1700	1465	—	

NEW!

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

□ This product utilizes ALTO® Lamp Technology

± Available Q1, 2006

Fluorescent Lamps

Appliance, T9 4-Pin Circline

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty. •	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
Appliance Fluorescent Lamps T8 Medium Bipin Linear Fluorescent Lamps; For Use With Starters										
14	25914-3		F14T8/CW/15	24	Cool White, 4100K	15	7500	700	595	62
16	25989-5		F16T8/CW/26	24	Cool White, 4100K	26	7500	1275	1020	62
17	25990-3		F17T8/CW/28	24	Cool White, 4100K	28	7500	1300	1030	62
18	38302-6		F18T8/CW/30/ALTO	24	Cool White, 4100K	30	7500	1350	1070	62
	36520-5		F18T8/CW/24	24	Cool White, 4100K	24	7500	1175	940	62

Appliance Fluorescent Lamps T12 Medium Bipin Linear Fluorescent Lamps; For Use With Starters										
25	14135-8		F25T12/CW/28	30	Cool White, 4100K	28	7500	1600	1280	62

Circline Fluorescent Lamps T9 4-Pin Circular Fluorescent Lamps										
20	24982-1		FC6T9/Cool White Plus	12	Cool White, 4100K	6 1/2 OD	12,000	800	590	62
22	39222-5		FC8T9/Soft White	12	3000K	8 OD	12,000	1150	875	85
	26234-5		FC8T9/D	12	Daylight, 6500K	8 1/4 OD	12,000	910	675	79
	39235-7		FC8T9/DayDLX	12	6500K	8 OD	12,000	910	675	79
	39116-9		FC8T9/Cool White Plus	12	Cool White, 4100K	8 OD	12,000	1050	775	62
32	39122-7		FC12T9/Soft White	12	3000K	12 OD	12,000	1900	1600	85
	26260-0		FC12T9/D	12	Daylight, 6500K	12 OD	12,000	1570	1300	79
	39117-7		FC12T9/Cool White Plus	12	Cool White, 4100K	12 OD	12,000	1800	1500	62
40	39118-5		FC16T9/Cool White Plus	12	Cool White, 4100K	16 OD	12,000	2500	1975	62

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

■ This product utilizes ALTO® Lamp Technology

For Black Light lamps, turn to page 111.



HomeLight Fluorescent Lamps

HomeLight Collection	Cool White Plus	Soft White	Natural Sunshine	Daylight Deluxe
The mood of the light	General purpose light for the home. Ideal for the garage, workshop or basement.	Comfortable, pleasant light that shows color accurately. Ideal for the kitchen, bathroom, or any room.	Simulates natural, full-spectrum light. Bright white light. Ideal for any room where more natural light is desired.	Creates a cool, refreshing environment. Arctic white light. Can be used in any room.
Color Scale: 3000 = Soft light 6500 = Vibrant, white light (a)	4100K	3000K	5000K	6500K
On a scale of 0 to 100, the lamp's ability to show colors accurately (b)	62	85	92	79
Also known as . .	Cool, Cool White, Residential, Shoplight	Warm Deluxe, Kitchen & Bath, Warm White	Full Spectrum, Sunshine, Sunlight	Daylight, Daybright
(a) Color is a personal preference. Select a bulb that creates the mood you desire to have in the room. (b) A higher number can make a big difference, even in laundry rooms. You will be able to distinguish between similar colors.				

Philips Specialty Fluorescent Lamps

PLANT & AQUARIUM

Helps promote plant growth. Enhances the appearance of aquarium fish.



BLACKLIGHT

True blacklight-blue fluorescent light. Great special effects.



Color is a personal preference. Select a bulb that creates the mood you desire to have in the room.



Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Rated Avg. Life, Years (240)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
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HomeLight T5 Fluorescent Lamps Blister-Carded Linear Fluorescent Lamps; Miniature Bipin

4	39218-3		F4T5/Soft White	12/1	3000K	6	6000	3	150	120	85
6	39219-1		F6T5/Soft White	12/1	3000K	9	7500	3	325	260	85
8	39220-9		F8T5/Soft White	12/1	3000K	12	7500	3	450	360	85
	39114-4		F8T5/Cool White Plus	12/1	4100K	12	7500	3	400	300	62
13	39221-7		F13T5/Soft White	12/1	3000K	21	7500	3	1000	800	85

HomeLight T8 Fluorescent Lamps Individually Sleeved Fluorescent Lamps; Medium Bipin

15	39212-6		F15T8/Soft White	6/1	3000K	18	7500	3	1000	900	85
	39207-6		F15T8/Cool White Plus	6/1	4100K	18	7500	3	870	765	62
	39108-6		F15T8/Cool White Plus	6/1	4100K	24	7500	3	1175	1035	62
	39232-4		F15T8/DayDLX	6/1	6500K	18	7500	3	750	660	79
	39229-0		F15T8/Natural Sunshine	6/1	5000K	18	7500	3	590	475	92
	39223-3		F15T8/Blacklight	6/1	—	18	7500	—	—	—	—
30	39216-7		F30T8/Soft White	6/1	3000K	36	7500	3	2500	2250	85
	39210-0		F30T8/Cool White Plus	6/1	4100K	36	7500	3	2200	1760	62
32	13360-3		F32T8/Cool White Plus	72/2	4100K, Coffin Pack	48	20,000	7	2850	2710	78
	13427-0		F32T8/Natural Sunshine	6	5000K	48	20,000	7	2950	2800	86
	13426-2		F32T8/Soft White	6	3000K	48	20,000	7	2950	2800	86

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

This product utilizes ALTO® Lamp Technology

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Rated Avg. Life, Years (240)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
HomeLight T12 Fluorescent Lamps Individually Sleeved Fluorescent Lamps; Medium Bipin											
14	14150-7		F14T12/Soft White	6/1	3000K	15	9000	4	700	560	85
15	14146-5		F15T12/Soft White	6/1	3000K	18	9000	4	800	720	85
	14148-1		F15T12/Cool White Plus	6/1	4100K	18	9000	4	800	695	62
20	39120-1		F20T12/Soft White	6/1	3000K	24	9000	4	1350	1215	85
	39209-2		F20T12/Cool White Plus	6/1	4100K	24	9000	4	1200	1050	62
	39230-8		F20T12/Natural Sunshine	6/1	5000K	24	9000	4	850	755	92
	39233-2		F20T12/DayDLX	6/1	6500K	24	9000	4	1075	960	79
	39224-1		F20T12/Blacklight	6/1	—	24	9000	—	—	—	—
	39227-4		F20T12/Plant	6/1	—	24	9000	—	600	—	—
30	39215-9		F30T12/Soft White	6/1	3000K	36	18,000	7	2400	2160	85
	39109-4		F30T12/Cool White Plus	6/1	4100K	36	18,000	7	2250	1900	62
40	39121-9		F40T12/Soft White	6/1	3000K	48	20,000	7	3300	2970	85
	14751-2		F40T12/Soft White	6/2	3000K	48	20,000	7	3300	2970	85
	39240-7		F40T12/Soft White/15/2PK	15/2	3000K	48	20,000	7	3300	2970	85
	39217-5		F40T12/Soft White/84/2PK	84/2	3000K	48	20,000	7	3300	2970	85
	39111-0		F40T12/Cool White Plus	6/1	4100K	48	20,000	7	3200	2880	70
	22606-8		F40T12/Cool White Plus	10	4100K	48	20,000	7	3200	2880	70
	39239-9		F40T12/Cool White Plus/15/2PK	15/2	4100K	48	20,000	7	3200	2880	70
	39211-8		F40T12/Cool White Plus/84/2PK	84/2	4100K	48	20,000	7	3200	2880	70
	39231-6		F40T12/Natural Sunshine	6/1	5000K	48	20,000	7	2200	1915	92
	29491-8		F40/HL EVERYWHERE	15/2	5000K	48	20,000	7	2200	1800	89
	39234-0		F40T12/DayDLX	6/1	6500K	48	20,000	7	2325	2025	84
	38752-2		F40T12/DayDLX	10	6500K	48	20,000	7	2325	2025	84
	39241-5		F40T12/DayDLX/15/2PK	15/2	6500K	48	20,000	7	2325	2025	84
	39123-5		F40T12/DayDLX/84/2PK	84/2	6500K	48	20,000	7	2325	2025	84
	39225-8		F40T12/Blacklight	6/1	—	48	20,000	—	—	—	—
	39228-2		F40T12/Plant	6/1	—	48	20,000	—	1600	—	—
60	20523-7		F96T12/CW/EW/8/2PK	8/2	4100K	96	12,000	5	5400	4750	62
	13349-6		F96T12/CW/EW/36/2PK	8/2	4100K	96	12,000	5	5400	4750	62
75	37663-2		F96T12/DayDLX/8/2PK	8/2	6500K	96	12,000	5	4500	3950	84

HomeLight Circline Fluorescent Lamps T9 Circular 4-Pin Fluorescent Lamps

22	39222-5		FC8T9/Soft White	12/1	3000K	8 OD	12,000	4	1150	875	85
	39116-9		FC8T9/Cool White Plus	12/1	4100K	8 OD	12,000	4	1050	775	62
	39235-7		FC8T9/DayDLX	12/1	6500K	8 OD	12,000	4	910	675	79
32	39122-7		FC12T9/Soft White	12/1	3000K	12 OD	12,000	4	1900	1600	85
	39117-7		FC12T9/Cool White Plus	12/1	4100K	12 OD	12,000	4	1800	1500	62
40	39118-5		FC16T9/Cool White Plus	12/1	4100K	16 OD	12,000	4	2500	1975	62

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

 This product utilizes ALTO® Lamp Technology



Fluorescent Lamps

Individually Packaged

Nom. Lamp Watts	Product Number	Symbols, Footnotes	Ordering Code	Pkg. Qty.	Description	Nom. Length (In.)	Rated Avg. Life, Hrs. (202)	Approx. Initial Lumens (203, 204)	Design Lumens (208)	CRI
UPC Lamps Labeled For Retail Sale (225)										
Silhouette T5 Fluorescent Lamp										
28	14695-0	±	F25T5/835/ALTO UPC	40	TL835, 3500K	46	20,000	2900	2750	85
Preheat T8 T8 Medium Bipin Linear Fluorescent Lamps; Requires Use of Starters										
30	13348-8	UPC	F30T8/Cool White Plus UPC	24	Cool White, 4100K	36	7500	2200	2000	62
Rapid Start T8 T8 Medium Bipin Linear Fluorescent Lamps										
17	13599-5		F17T8/TL950 UPC	25	TL90, 5000K	24	20,000	910	850	98
	16069-0	UPC	F17T8/Soft White UPC	25	TL80, 3000K	24	20,000	1400	1300	85
32	13600-2		F32T8/TL950 UPC	25	TL90, 5000K	48	20,000	2000	1860	98
	13555-6	UPC	F32T8/TL850 UPC	25	TL80, 5000K	48	20,000	2950	2800	86
	27278-1	UPC	F32T8/TL730 UPC	25	TL70, 3000K	48	20,000	2850	2710	78
	27274-0	UPC	F32T8/TL735 UPC	25	TL70, 3500K	48	20,000	2850	2710	78
	27269-0	UPC	F32T8/TL741 UPC	25	TL70, 4100K	48	20,000	2850	2710	78
Rapid Start U-Bent T8 T8 Medium Bipin										
32	37888-5	UPC	FB32T8/TL735/6 UPC	20	TL70, 3500K	22 7/8	20,000	2650	2370	75
	37889-3	UPC	FB32T8/TL741/6 UPC	20	TL70, 4100K	22 7/8	20,000	2650	2370	75
Preheat T12 T12 Medium Bipin Linear Fluorescent Lamps										
20	38693-8		F20T12/SPEC35 UPC	30	SPEC, 3500K	24	9000	1275	1190	73
	21331-4	UPC	F20T12/D UPC	30	Daylight, 6500K	24	9000	1075	960	79
	33948-1		F20T12/Cool White Plus UPC	30	Cool White, 4100K	24	9000	1200	1050	62
Rapid Start T12 T12 Medium Bipin Linear Fluorescent Lamps										
30	38694-6		F30T12/SPEC35 UPC	30	SPEC, 3500K	36	18,000	2350	2080	73
	13579-8		F30T12/C50 UPC	30	Colortone 50, 5000K	36	18,000	1650	1400	92
	38692-0	UPC	F30T12/D UPC	30	Daylight, 6500K	36	18,000	1950	1700	79
	33949-9	UPC	F30T12/Cool White Plus UPC	30	Cool White, 4100K	36	18,000	2250	1900	62
34	26793-0	UPC	F34/SPEC35/EW UPC	30	SPEC, 3500K	48	20,000	2800	2520	73
	38695-3	UPC	F34/SPEC41/EW UPC	30	SPEC, 4100K	48	20,000	2800	2520	70
	22046-7		F34/CW/RS/EW	10	Cool White, 4100K	48	20,000	2650	2300	62
	14121-8		F34/CW/RS/EW	10	Cool White, 4100K	48	20,000	2650	2300	62
	24475-6		F34/CW/RS/EW UPC	30	Cool White, 4100K	48	20,000	2650	2300	62
	39088-0		F34/CW/RS/EW CONTRACTOR	—	Cool White, 4100K	48	20,000	2650	2300	62
Rapid Start U-Bent T12 T12 Medium Bipin										
34	37839-8	UPC	FB34/CW/6/EW UPC	12	Cool White, 4100K	22 7/8	18,000	2400	2050	62
Rapid Start T12 T12 Medium Bipin Linear Fluorescent Lamps										
40	37530-3	UPC	F40/DX UPC	30	Daylight, 6500K	48	20,000	2325	2025	84
	13096-2		F40/Cool White Plus UPC	30	Cool White Plus, 4100K	48	20,000	3200	2880	70
	26790-6		F40/C50 UPC	30	Colortone 50, 5000K	48	20,000	2200	1915	92
Rapid Start U-Bent T12 T12 Medium Bipin										
40	37875-8	UPC	FB40/SPEC35/6 UPC	12	SPEC, 3500K	22 7/8	18,000	3050	2775	73
Slimline T12 T12 Single Pin Linear Fluorescent Lamps; Instant Start										
39	38703-5	UPC	F48T12/CW UPC	15	Cool White, 4100K	48	9000	2950	2600	62
56	36999-1	UPC	F72T12/CW UPC	15	Cool White, 4100K	72	12,000	4450	3900	62
60	36631-0	UPC	F96T12/SPEC35/EW UPC	15	SPEC, 3500K	96	12,000	5750	5400	73
	33994-5	UPC	F96T12/CW/EW UPC	15	Cool White, 4100K	96	12,000	5400	4750	62
75	20574-0		F96T12/C50 UPC	15	Colortone 50, 5000K	96	12,000	4650	4200	92
High Output T12 T12 Recessed D.C. Linear Fluorescent Lamps (207, 214)										
60	36982-7	UPC	F48T12/CW/HO UPC	15	Cool White, 4100K	48	12,000	4050	3500	62
85	36652-6	UPC	F72T12/CW/HO UPC	15	Cool White, 4100K	72	12,000	6350	5500	62
110	38178-0	UPC	F96T12/CW/HO-O UPC	15	Cool White, 4100K	96	12,000	8800	7650	62

For the most current product information, go to the e-catalog on www.philips.com

Fluorescent symbols and footnotes located on page 87

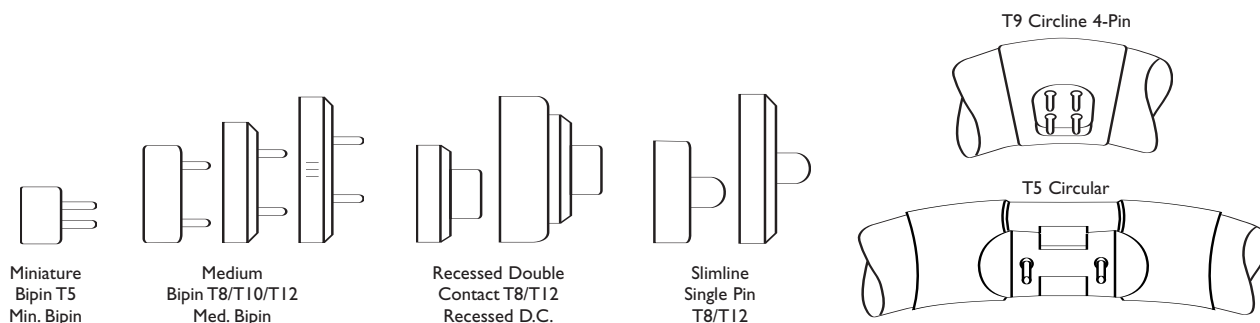
UPC This product utilizes ALTO® Lamp Technology

± Available Q1, 2006

T12 Fluorescent Lamps

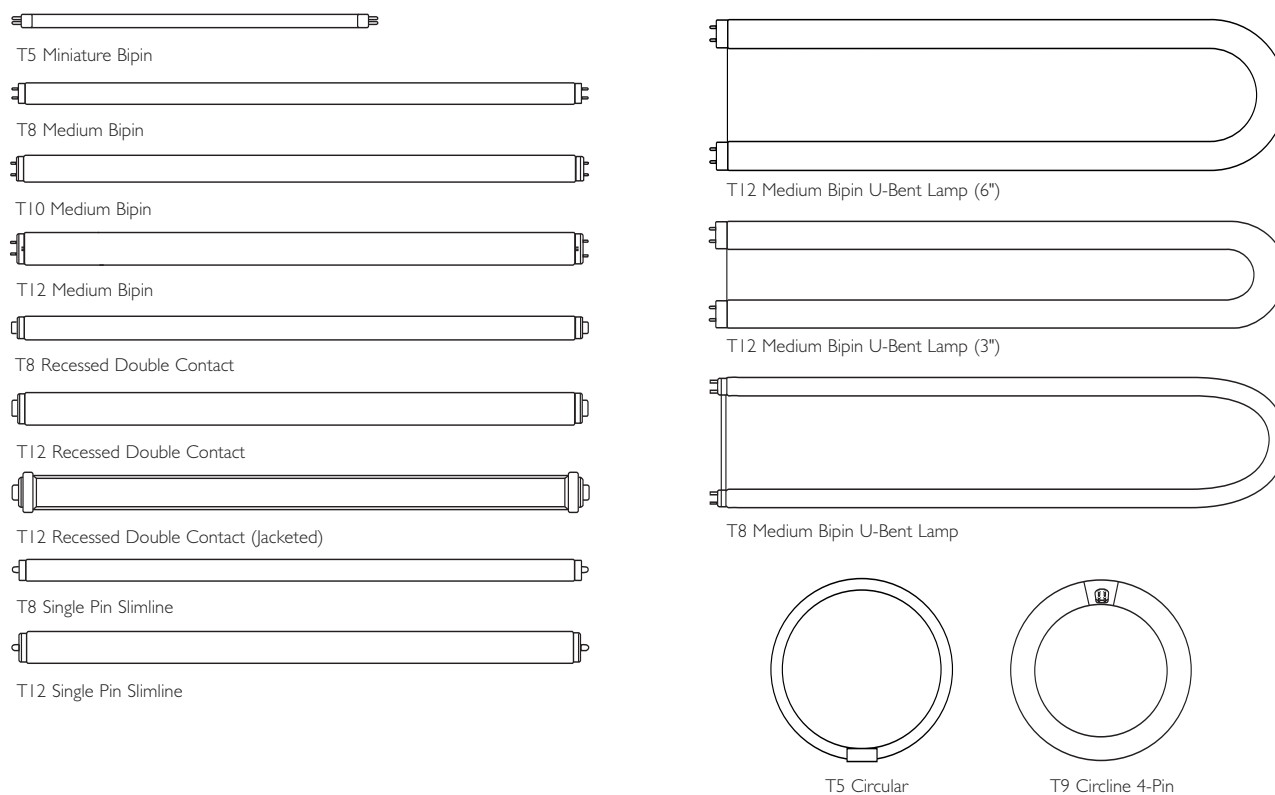
Base Types and Bulb Shapes

Base Types (Not Actual Sizes)



Bulb Shapes (Not Actual Sizes)

The size and shape of a bulb is designated by a letter or letters followed by a number. The letter indicates the shape of the bulb while the number indicates the diameter of the bulb in eighths of an inch. For example, "T12" indicates a tubular shaped bulb having a diameter of $\frac{1}{8}$ or $1\frac{1}{2}$ inches. The following illustrations show some of the more popular bulb shapes and sizes.



For the most current product information, go to the e-catalog on www.philips.com

- Exclusive to Philips Lighting Company
- Quantity shown is minimum shipping container—refer to Net Price Schedule for number of lamps to qualify as a standard case.

§ Energy Saving Product

■ ENERGY STAR®

- ♦ Maximum Beam Candlepower

✕ Orders will be shipped until inventory is depleted; no longer manufactured

ⓔ This Bulb Meets US Federal Minimum Efficiency Standard

† New since last printing

◇ Designed for Instant Start Operation

(202) Average life under specified test conditions with lamps turned off and restarted no more frequently than once every 3 operating hours. Lamp life is appreciably longer if lamps are started less frequently.

(203) Approximate initial lumens. The lamp lumen output is based upon lamp performance after 100 hours of operating life, when the output is measured during operation on a reference ballast under standard laboratory conditions.

(204) For expected lamp lumen output, commercial ballast manufacturers can advise the appropriate ballast factor for each of their ballasts when they are informed of the designated lamp. The ballast factor is a multiplier applied to the designated lamp lumen output.

(205) Approximate hours of life for F40 lamps operated by standard rapid start ballasts at three hours per start. When these lamps are operated on modified rapid start or preheat circuits the operating life will be reduced by approximately 25 percent. When employing dimming systems or energy-saving device systems, the device manufacturer can advise of the effect of their system upon lamp life.

(206) The pins of these lamps are short-circuited inside the end caps and the lamp will not operate on preheat or rapid start ballast circuits.

(207) Approximate initial lumens are for 800 ma. operation. For 1000 ma. operation, lumens are approximately 10% higher and watts approximately 15% higher.

(208) Design lumens are the approximate lamp lumen output at 40% of the lamp's rated average life. This output is based upon measurements obtained during lamp operation on a reference ballast under standard laboratory conditions.

(209) Operation on existing single lamp ballasts is not recommended because of marginal starting.

(210) Approximate initial lumens are for operation at 200 ma.

(211) Designed for service other than illumination.

(212) Nominal length measured from face of base to maximum distant outside point of U. Measurement does not include base pins. Leg spacing center to center approximately 6", for 1/6 and 3/8" for 1/3 lamps.

(213) Unique construction maintains light output over a wide range of operating temperatures.

(214) Econ-o-watt® lamps are only recommended for use on high power factor lead, indoor ballasts that meet ANSI standards. The lamps are not recommended for use in drafty areas, or locations where the ambient temperature is less than 60°F, except as noted. Also they should not be operated on low power factor ballasts, reduced light or reduced current ballasts, dimming ballasts or emergency system inverter ballasts.

(215) This lamp will operate on rapid start circuits provided ambient temperature is above 60°F, line voltage is 116 volts or higher and the lamps are located within 1/4" of the grounded starting aid (usually the reflector).

(216) The use of Amalgam Technology results in relatively stable light output across a broad range of ambient temperatures and operating positions.

(217) All Marathon® lamps are suitable for indoor or outdoor use down to -10°F. Outdoor use requires weather-protected fixture. All these products comply with part 18 of the FCC rules. These products may cause interference with AM radios, cordless telephones, and remote control devices. Interference may be caused after a brief 90-second lamp warm-up period. If interference continues, relocate the lamp away from the device or plug into a different outlet.

(218) All lamps are electronically ballasted and designed for 120 volt operation. Lamps operated in extreme environments will have reduced life (ie. recessed or enclosed lighting fixtures with elevated line voltage). Caution: except for lamps marked dimmable, do not use with dimmers. Before using these lamps with electronic timing or photocell devices, check to determine whether the device is compatible with compact fluorescent lamps. Use with incompatible devices will result in premature lamp failure. These products are UL listed.

(219) PL-S 5W lamps should not be used in sockets or adapters intended for PL-S 7W and PL-S 9W lamps.

(220) Total wattage consumption for adapter systems is higher than lamp wattage due to ballast losses. Total system wattage equals lamp wattage plus 2 ballast watts.

(221) The PL-C13W/27 is physically and electrically incompatible with the more popular PL-C13W/27/USA types.

(222) Low temperature starting down to -20°F at nominal line voltage.

(223) Meets the National Energy Policy Act of 1992 exemption for outdoor or cold temperature applications only.

(225) Lamp includes scannable Universal Product Code (UPC).

(226) SILHOUETTE™ T5 nominal lamp lengths are shorter than standard sizes. See chart on page 65 for details.

(227) Do not use in recessed cans or totally enclosed fixtures.

(228) Use in recessed cans or enclosed indoor fixtures could result in reduced lamp life.

(230) Average life under specified test conditions with lamps turned off and restarted no more frequently than once every 3 operating hours.

(231) Approximate initial lumens. The lamp lumen output is based upon lamp performance after 100 hours of operating life under standard laboratory conditions.

(232) Lamp is designed for use with most standard incandescent dimmers.

(233) Rated average life of 7,000 hours when wired in recessed cans or totally enclosed fixtures.

(234) Rated average life 15,000 hours. Operate on Instant Start ballasts only.

(235) Universal T8 lamps have full rated average life on Instant Start, Rapid Start and Programmed Start ballasts.

(236) Use base down only.

(237) Do not use in totally enclosed indoor fixtures.

(238) UL approved for outdoor wet location applications when used base up. Base down use requires a weather-protected enclosed fixture.

(239) Design lumens rated at 3 hours per start on Instant Start ballast.

(240) Life is based upon household usage of 6 hours average usage per day, 7 days per week. See individual product packaging for details.

(241) Average life under engineering data with lamps turned off and restarted once every 12 operating hours.

(242) HTA (High Temperature Application) HTA lamps are designed to achieve optimum light output in higher temperature applications (approx. 140–150°F). HTA lamps are not recommended for dimming.