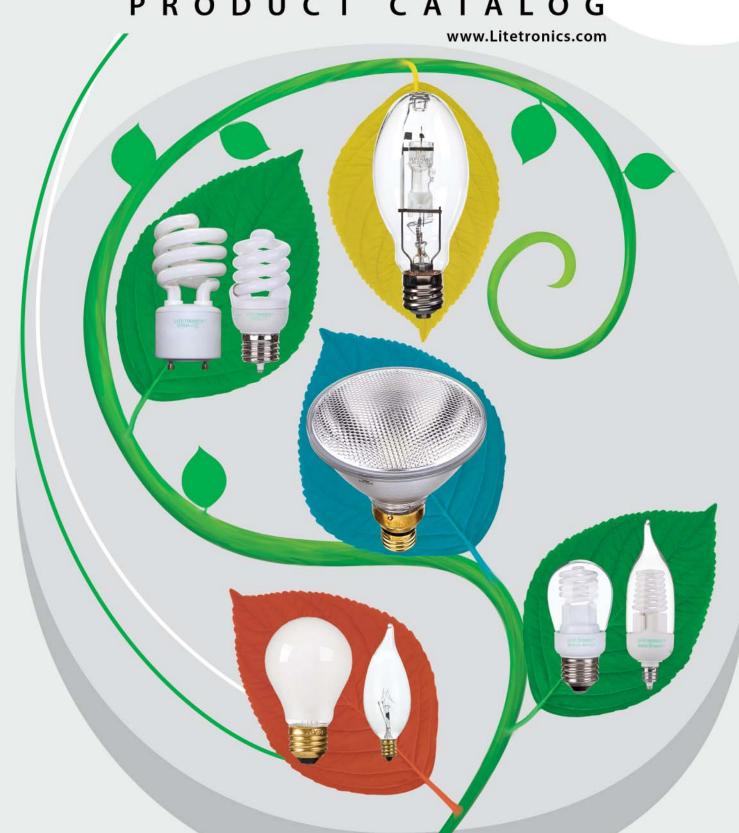
LITETRONICS®

PRODUCT CATALOG



www.Litetronics.com

Select Lamp Type desect the type of lighting you need from the fixed before to select acting search. If you are searching for multiple lighting types, please select "Select All Types Show Al Types Inc. additional lighting Fluorescent Lighting Med Hiddle Lighting Our Life Lighting Our Life Lighting

Our online catalog is

Product

Catalog

fast and easy to access. View the entire product line, or narrow your search by browsing for lamp shape or lamp type.

Enlightening Sheets

Enlightening sheets offer information about our lamps' features, applications technical specifications, and ordering codes.

They describe, in detail, why our lamps are superior to alternative lamps on the market. Enlightening sheets will help educate you and your customers about our products, while assisting you in making informed lighting choices.



Find A Distributor

A Litetronics representative will locate an official distributor near you.

Download our PDF Catalog

Our product catalog can be downloaded as a PDF from the Litetronics Web site.





News & Press

Your source for up-to-date Litetronics company news and new product information.



Subscribe To LITELINE

LITELINE is the first source for industry news and information about new Litetronics products. You can receive the bi-monthly LITELINE via email or fax.

Energy Saver Calculator

This innovative feature calculates energy and maintenance savings gained by using Litetronics lamps. Compare Litetronics products to your current lamps, and see the difference for yourself!



MARRIER OF HOUSE BINNED FOR DAY MARRIER OF HOUSE BINNED FOR DAY MARRIER OF HOUSE BINNED FOR SHARE MARRIER OF HOUSE BINNED FOR SHARE MARRIER OF HER BINNED MARRIER OF HARRIER MARRIER OF HOUSE MARRIER OF HOUSE

LITETRONICS WEBSITE

Visit the Litetronics Web site at www.Litetronics.com. This is the source for the latest industry news and new Litetronics product releases. At Litetronics.com, users can browse the complete Litetronics catalog and find informative Enlightening sheets for all of our products.

Litetronics.com is your direct link to Litetronics lighting professionals. Our quality specialists can answer your questions and help you find Litetronics lamps in your area.

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COMPANY HISTORY

Litetronics was founded in 1970. For over thirty years, it has successfully led the industry in the development, marketing, and servicing of quality lighting products.

The rapid growth of Litetronics, from a localized direct sales organization into an international company, reflects its business strategy of capitalizing on emerging lighting technologies to create unique, market-driven products. Growth has come primarily by concentrating on the worldwide multi-billion dollar commercial lighting market. This market has responded favorably to Litetronics's cost-effective, long-lasting, energy efficient, and environmentally friendly lamps and lighting components.

In 1983, Litetronics introduced the Lite-Par halogen lamp family to its product mix. With an average life of over 5,000 hours, the Xtra-Life PAR lamp is still the longest life halogen lamp available on the market. Today, Litetronics continues its tradition of innovation with its dimmable Micro-Brite cold cathode compact fluorescent lamps and Neolite compact fluorescent lamps - the world's first CFL with only one milligram of mercury. With the capacity to replace incandescent lamps with higher lumens per watt, Micro-Brite and Neolite lamps are the latest technology in energy efficient lighting.

Litetronics manufactures and markets worldwide an extensive collection of dynamic lighting products, including incandescent, halogen, fluorescent, hot and cold cathode compact fluorescent, and high intensity discharge lamps. In addition to its light sources, Litetronics offers quality lighting components and cutting edge manufacturing equipment for lamp production.





MISSION STATEMENT

It is the mission of Litetronics International to continue to become the foremost global provider of commercial lighting products. To meet this commitment, Litetronics maintains a philosophy of continuous improvement in products, support, and delivery.

Since its inception in 1970, Litetronics has developed a reputation as a world-class manufacturer upon which customers can depend for timely innovation and quality. Working to uphold that hard-earned reputation drives our dedication to providing the most reliable, application-specific lamps for our customers' needs. Through new technologies and a commitment to excellence, our lighting products will continue to turn the wheels of commerce in a fast-changing world.

Ultimately, the benefits of progress can only be realized through thoughtful application by skilled individuals. At Litetronics, we employ a diverse and highly-experienced management team hand-picked from unique backgrounds and industries to enhance our overall performance with a cross-fertilization of talents.

Litetronics prides itself in developing stable, long-term relationships with OEM customers and distributors. I encourage you to call Litetronics or visit our website at www.litetronics.com and learn how we can serve all of your lighting needs, both today and tomorrow.

With best regards,

Robert C. Sorensen Chairman/CEO Litetronics International, Inc.



WORLD-CLASS MANUFACTURING

Litetronics is a world-class manufacturer of light sources, components, and advanced lighting equipment for both specialty and general applications. Litetronics maintains quality-driven manufacturing facilities for incandescent, halogen, metal halide, fluorescent, hot and cold cathode compact fluorescents, high pressure sodium lamps, and components.

Our dedication to innovation has been recognized worldwide. To speed product development and open new avenues of performance, our engineers utilize state-of-the-art CAD workstations and the most sophisticated software. Prior to production, all Litetronics designs are subjected to rigorous performance testing, and only approved designs move onto our production floors. Our unified approach to design and manufacturing ensures responsiveness to customers' needs, as well as better cost efficiencies.

Emphasizing prevention rather than detection, we build quality into the manufacturing process by utilizing proven design engineering techniques and pioneering our proprietary "Flexible Speed Automation" manufacturing process. Incorporating both automatic and semi-automatic systems, Flexible Speed Automation allows for accurate control of the materials and processes that result in a finished lamp or component. For our customers, this means enhanced quality and substantially better value.

Because of the personal attention given to the manufacturing of Litetronics lamps and components, advanced technology is integrated only where it will result in products that meet our uncompromising standards of quality. Such is the case with the introduction of high-speed automation in the manufacturing of our halogen and high intensity discharge lamps.





WORLDWIDE SERVICE

From the Midwest to the Far East, the network of Litetronics sales, service, manufacturing, and distribution facilities spans the globe. With international joint ventures and independent distributorships strategically located in major market areas, we provide light sources and components to thousands of customers worldwide, including the Paris, Treasure Island, and Wynn casinos in Las Vegas; the London Underground transportation system; and the Eiffel Tower in Paris.

In the United States, you'll find Litetronics representation and products in virtually every city – from the Big Easy to the Big Apple. Building upon this extensive framework, we offer our customers a level of service and support that is second to none. With warehouses located in Boston, Chicago, Dallas, and Los Angeles, Litetronics has a major storage facility in each region of the country to assure quick delivery and ample available product stock.

Litetronics stands by each product it makes and sells with the industry's longest warranties. Should you need additional assistance with your Litetronics lighting products, simply submit your question to our technical support team by visiting our website at www.litetronics.com or call one of our quality specialists.

A unified approach to serving the commercial, industrial, and residential lighting markets distinguishes Litetronics from other manufacturers. Every essential element in lighting technology – from finished lamps and components to the technology and equipment – has been gathered under one roof to provide customers a comprehensive resource for all of their lighting needs.

Worldwide service, comprehensive products, and the ability to be proactive in anticipating customer needs are the hallmarks of Litetronics's commitment to customer service – a policy designed to set the industry standard rather than follow the industry trend.



WORLD-LEADING PRODUCTS

As a world leader in lighting products, Litetronics manufactures millions of lamps and components each year. Our product mix is unmatched, encompassing a variety of standard lamps for general lighting needs, proprietary lamps produced only by Litetronics, and the capability to produce customized products to fit your specific needs. Our engineers can design a unique light source to meet your specifications, whether it's incandescent, halogen, fluorescent, or high intensity discharge.

Litetronics is committed to researching and developing the most advanced lighting solutions to continuously improve our product line and raise the bar for the lighting industry as a whole. Our engineers design products in response to growing market trends to better service our customers and invent unprecedented products that have not yet been dreamed up by our customers and competition. This keeps Litetronics on the edge of technology and innovation in the lighting industry.

Once we've designed the next cutting edge product, our quality control department ensures all manufactured products meet Litetronics's standard of quality and performance. Utilizing AQL testing procedures, Litetronics measures lamp performance to guarantee that our customers receive the best built lamps in the world. Litetronics's industry-leading innovation coupled with continuous performance testing yield unmatched product quality you can trust.



LITETRONICS® FLUORESCENT



FLUORESCENT LIGHTING FEATURES & BENEFITS .

Energy-Lite™T5 HO Fluorescent Lamps

Energy-Lite T5 high output lamps are the best choice when high levels of light output and color rendition are needed. They provide 5,100 lumens and a CRI of 85 for high quality, energy efficient lighting. Energy-Lite T5 high output lamps provide high CRI, superior lumen maintenance, and a long, 30,000-hour life in high bay lighting applications when paired with any compatible T5 linear fluorescent ballast.

- 30,000-hour average life
- 85 CRI
- · All lamps are TCLP compliant
- Up to 50% energy savings compared to metal halide
- Maintains superior lumen output throughout life of lamp



Neolite T2 lamps are the next revolution in CFL miniaturization; the reduced tube size gives Neolite lamps a smaller maximum overall length (M.O.L.), allowing them to fit into more applications. Neolite lamps contain only 1 milligram of mercury, making Neolite the safest CFL for the environment. They also have the fastest warm-up in the industry - only 30 seconds. Think small, think bright - think Neolite.

- 1 milligram of mercury
- Small M.O.L. fits more applications
- Warms up in 30 seconds
- 10,000 to 12,000-hour average life
- Energy Star qualified
- Up to 70 lumens per watt

Energy-Lite™ T8 Fluorescent Lamps

Energy-Lite T8 lamps have an average life of 30,000 hours when paired with any compatible T8 linear fluorescent ballast and are available in 2-foot (F17), 3-foot (F25) and 4-foot (F32) lengths. All Litetronics T8 fluorescent lamps are TCLP compliant. The low mercury content of these lamps meets all government safety standards, and the lamps' long life cuts down on waste.

- 30,000-hour average life
- Uses 20% less energy than T10 and T12
- All lamps are TCLP compliant
- Up to 85 CRI
- · Cathode guard helps resist end-darkening
- Maintains superior lumen output throughout life of lamp

SPIRAL-LITE™

Litetronics Spiral-Lite™ Low Profile (SPLP) CFLs have a unique size and ultra-compact shape. The patented legless design allows SPLP lamps to fit into more applications. SPLP lamps offer a high CRI of 82, providing excellent color rendition. In addition to an average life of up to 15,000 hours, Spiral-Lite lamps reduce energy consumption by up to 80% when directly replacing incandescent bulbs. The Spiral-Lite 30-watt CFL is now available in 4100K and 5000K.

- Small M.O.L. fits more applications
- 10,000 to 15,000-hour average life
- Up to 80% energy savings
- Energy Star qualified
- Directly replaces incandescent lamps
- · Dimmable and 3-Way models available





LITETRONICS®

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SPIRAL-LITE™

Spiral-Lite GU24 CFLs save energy in GU24 sockets. Because incandescent lamps are not manufactured with GU24 bases, these sockets are designed to accept only energy efficient GU24 CFLs, enabling users to guarantee that only energy efficient lamps can be used in the fixture. Spiral-Lite GU24 CFLs have the smallest size in the industry, which means they can fit in more fixtures.

- · Small M.O.L. fits more fixtures
- 10,000-hour average life
- · Reduces maintenance, labor, and replacement costs
- 1-year warranty
- Energy Star qualified
- Up to 80% energy savings

SPIRAL-LITE TO COVERED TO

Spiral-Lite Covered CFLs come in a variety of familiar shapes to combine the energy savings of compact fluorescent lamps with the attractive look and feel of an incandescent. Available in A19, G25, R30, R40, and PAR38, Spiral-Lite Covered CFLs provide up to 80% energy savings in a wide range of applications when directly replacing incandescent lamps.

- Same familiar shape as incandescent
- 8,000 to 10,000-hour average life
- Up to 80% energy savings
- · Energy Star qualified
- · Reduces maintenance, labor, and replacement costs
- 1-year warranty

SPIRAL-PAR"

Litetronics Spiral-PAR™ compact fluorescent lamps allow users to save time and money, while maintaining attractive design and performance. They are as versatile as standard 75-100 watt incandescent PAR lamps, and they last four times as long. Spiral-PAR lamps are effective for both indoor and outdoor applications, including track lighting and recessed can lighting. The spiral reflector allows more lumens per watt than ordinary fluorescents. In addition to 2700K and 4100K, Spiral-PAR lamps are now available in 3500K.

- 8,000-hour average life
- 80% energy savings
- Reduces labor costs
- Direct replacement for incandescent PAR lamps
- Operates at a lower temperature than halogen PARs, reducing HVAC costs

MICRO BRITE

Cold Cathode Compact Fluorescent Lamps

Micro-Brite[™] cold cathode compact fluorescent lamps are a direct replacement for incandescent lighting. Micro-Brite lamps have an expected life of up to 25,000 hours and can save up to 85% in energy costs when compared to incandescent lamps. Due to their extremely long life, Micro-Brite lamps also cut down on maintenance and replacement costs. Micro-Brite lamps can be used indoors or outdoors in extreme heat, cold, and weather conditions. Micro-Brite lamps are flashable and dimmable down to 5%. To experience real savings, try the patented Micro-Brite lamps.

- 18,000 to 25,000-hour average life
- Up to 85% Energy Savings
- 2-year warranty
- · Fits standard fixtures
- Used indoors and outdoors
- Dimmable and flashable (not applicable for all models)

"Flamingo" is a registered trademark of Harrah's Operating Company, Inc. The use of the Flamingo logo below is intended solely to demonstrate the applicable use of Litetronics International's products and is not intended to imply or otherwise suggest any endorsement by Flamingo or affiliation between Litetronics International, Inc., and Harrah's Operating Company, Inc., or any of its properties.

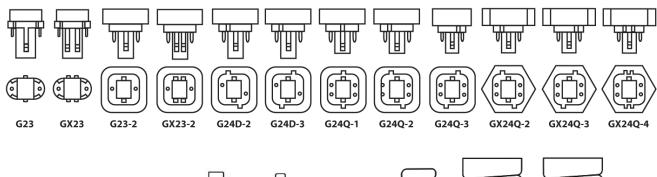


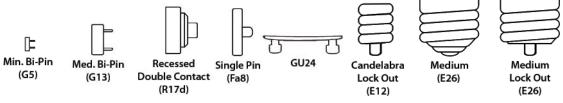




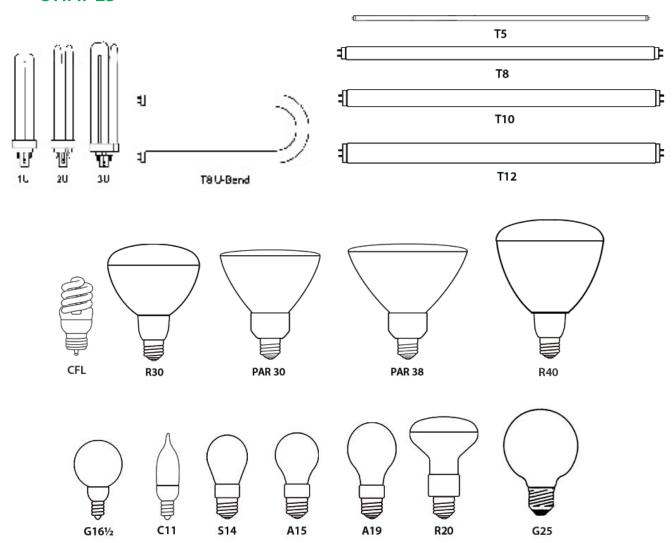


BASES -





-SHAPES



Energy-Lite T5 high output lamps can save up to 50% on energy costs when replacing metal halide lamps in high bay lighting applications.

-ENERGY-LITE™ T5 Fluorescent Lamps

T5



RATED LIFE

• 25,000 - 35,000 hours

APPLICATIONS

- Retail Stores
- Hospitals
- Parking Garages
- Shopping Malls
- Office Buildings

FEATURES AND BENEFITS

• 2-year warranty (any compatible T5 fluorescent ballast)

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE 3-HR / 12-HR START	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
54	T5	MIN BI PIN	F54 T5 835 H0	L-54935	40	25,000 / 35,000	85	3500	5,100	45.80"
54	T5	MIN BI PIN	F54 T5 841 HO	L-54941	40	25,000 / 35,000	85	4100	5,100	45.80"
54	T5	MIN BI PIN	F54 T5 850 HO	L-54950	40	25,000 / 35,000	85	5000	5,100	45.80"

•ENERGY-LITE™ T8 Fluorescent Lamps

T8



RATED LIFE

• 30,000 - 36,000 hours

APPLICATIONS

- Retail Stores
- Hospitals
- Parking Garages
- Shopping Malls
- Office Buildings

FEATURES AND BENEFITS

• 2-year warranty (any compatible T8 fluorescent ballast)

WATTS	BULB TYPE	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE 3-HR / 12-HR START	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
17	T8	MED BI PIN	F17 T8 730	L-346	25	30,000 / 36,000	75	3000	1,400	24.00"
17	T8	MED BI PIN	F17 T8 735	L-347	25	30,000 / 36,000	75	3500	1,400	24.00"
17	T8	MED BI PIN	F17 T8 741	L-348	25	30,000 / 36,000	75	4100	1,400	24.00"
17	T8	MED BI PIN	F17 T8 750	L-349	25	30,000 / 36,000	75	5000	1,400	24.00"
25	T8	MED BI PIN	F25 T8 730	L-338	25	30,000 / 36,000	75	3000	2,225	36.00"
25	T8	MED BI PIN	F25 T8 735	L-339	25	30,000 / 36,000	75	3500	2,225	36.00"
25	T8	MED BI PIN	F25 T8 741	L-340	25	30,000 / 36,000	75	4100	2,225	36.00"
25	T8	MED BI PIN	F25 T8 750	L-341	25	30,000 / 36,000	75	5000	2,225	36.00"
32	T8	MED BI PIN	F32 T8 730	L-330	25	30,000 / 36,000	75	3000	2,850	48.00"
32	T8	MED BI PIN	F32 T8 735	L-331	25	30,000 / 36,000	75	3500	2,850	48.00"
32	T8	MED BI PIN	F32 T8 741	L-332	25	30,000 / 36,000	75	4100	2,850	48.00"
32	T8	MED BI PIN	F32 T8 750	L-333	25	30,000 / 36,000	75	5000	2,850	48.00"
32	T8	MED BI PIN	F32 T8 830	L-334	25	30,000 / 36,000	85	3000	3,100	48.00"
32	T8	MED BI PIN	F32 T8 835	L-335	25	30,000 / 36,000	85	3500	3,100	48.00"
32	T8	MED BI PIN	F32 T8 841	L-336	25	30,000 / 36,000	85	4100	3,100	48.00"
32	T8	MED BI PIN	F32 T8 850	L-337	25	30,000 / 36,000	85	5000	3,100	48.00"
32	T8	MED BI PIN	F32 T8 CB50	L-359	30	30,000 / 36,000	90	5000	3,200	48.00"



-ENERGY-LITE™ U-BEND T8 Fluorescent Lamps

T8

RATED LIFE

• 30,000 hours

APPLICATIONS

- Retail Stores
- Hospitals
- Parking Garages
- Shopping Malls
- Office Buildings

FEATURES AND BENEFITS

2-year warranty (any compatible T8 fluorescent ballast)

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
32	T8	MED BI PIN	F32 T8 735 6" U-BEND	L-381	20	30,000	75	3500	2,850	22.50"
32	T8	MED BI PIN	F32 T8 741 6" U-BEND	L-382	20	30,000	75	4100	2,850	22.50"
32	T8	MED BI PIN	F32 T8 750 6" U-BEND	L-383	20	30,000	75	5000	2,850	22.50"

Correlated Color Temperature (CCT)

Describes the apparent color, or chromaticity, of a light source measured in degrees Kelvin (K). The higher the color temperature, the visually cooler, or bluer, the light appears. The lower the color temperature, the visually warmer, or more red, the light appears. Typical color temperatures are 2700K (incandescent), 4100K (cool white fluorescent), and 5000K (daylight fluorescent).

Color Rendering Index (CRI)

Colors appear differently under different light sources, and the Color Rendering Index (CRI) measures a lamp's ability to render colors most naturally. CRI is measured on a scale of 0 to 100, with daylight being 100. Generally, the higher the CRI, the better the colors appear. The color rendering property of lamps is extremely important in many applications, especially retail stores, museums, galleries, etc.

Both CCT and CRI should be cited together when properly describing light source color attributes.



COLOR-BRITE™ T10 Fluorescent Lamp

T10



RATED LIFE

• 30,000 hours

APPLICATIONS

- Retail Stores
- Hospitals
- Parking Garages
- Shopping Malls
- Office Buildings

FEATURES AND BENEFITS

• 2-year warranty (any compatible T10 fluorescent ballast)

١	WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
	40	T10	MED BI PIN	F40 T10 CB 50	L-365	30	30,000	88	5000	3,700	48.00"

COLOR-BRITE™ T12 Fluorescent Lamps

T12



RATED LIFE

• 15,000 - 20,000 hours

APPLICATIONS

- Retail Stores
- Hospitals
- Parking Garages
- Shopping Malls
- Office Buildings

FEATURES AND BENEFITS

• 1 to 2-year warranty (any compatible T12 fluorescent ballast)

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
75	T12	SINGLE PIN	F96 T12 CB 50	L-363	15	20,000	88	5000	6,800	96.00"
110	T12	RDC	F96 T12 CB 50 H0	L-371H0	15	15,000	88	5000	9,800	96.00"

-VITAL-SPECTRUM™ / ARCTIC WHITE™ T12 Fluorescent Lamps-

T12



RATED LIFE

• 30,000 hours

APPLICATIONS

- Retail Stores
- Hospitals
- Parking Garages
- Shopping Malls
- Office Buildings

FEATURES AND BENEFITS

2-year warranty (any compatible T12 fluorescent ballast)

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
40	T12	MED BI PIN	F40 T12 VS	L-362	30	30,000	92	5600	2,200	48.00"
40	T12	MED BI PIN	F40 T12 A	L-370	30	30,000	90	5100	2,925	48.00"

Retrofitting fixtures to accept plug-in CFLs like Litetronics' PFT CFLs permanently prevents the use of incandescent lamps. This guarantees energy savings in the new fixture and may be eligible for utility rebates. **GREEN SEED**



• 10,000 hours

PFT

APPLICATIONS RATED LIFE

General Lighting

• Recessed Cans

- Replaces incandescent lamps
- Now available in 3500K, 4100K, and 5000K

WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**	M.O.D.***
5\$	G23	5W T4 1U 2P 27	L-12001	50	10,000	82	2700	230	4.25"	1.28"
5\$	G23	5W T4 1U 2P 35	L-12002	50	10,000	82	3500	230	4.25"	1.28"
5\$	G23	5W T4 1U 2P 41	L-12003	50	10,000	82	4100	230	4.25"	1.28"
5\$	G23	5W T4 1U 2P 50	L-12004	50	10,000	82	5000	230	4.25"	1.28"
7\$	G23	7W T4 1U 2P 27	L-12051	50	10,000	82	2700	400	5.24"	1.28"
7\$	G23	7W T4 1U 2P 35	L-12052	50	10,000	82	3500	400	5.24"	1.28"
7\$	G23	7W T4 1U 2P 41	L-12053	50	10,000	82	4100	400	5.24"	1.28"
7\$	G23	7W T4 1U 2P 50	L-12054	50	10,000	82	5000	400	5.24"	1.28"
9\$	G23	9W T4 1U 2P 27	L-12101	50	10,000	82	2700	580	6.42"	1.28"
9\$	G23	9W T4 1U 2P 35	L-12102	50	10,000	82	3500	580	6.42"	1.28"
9\$	G23	9W T4 1U 2P 41	L-12103	50	10,000	82	4100	580	6.42"	1.28"
9\$	G23	9W T4 1U 2P 50	L-12104	50	10,000	82	5000	580	6.42"	1.28"
13 \$	GX23	13W T4 1U 2P 27	L-12151	50	10,000	82	2700	825	6.97"	1.28"
13 \$	GX23	13W T4 1U 2P 35	L-12152	50	10,000	82	3500	825	6.97"	1.28"
13 \$	GX23	13W T4 1U 2P 41	L-12153	50	10,000	82	4100	825	6.97"	1.28"
13 \$	GX23	13W T4 1U 2P 50	L-12154	50	10,000	82	5000	825	6.97"	1.28"



^{**} Maximum Overall Length (in inches)

*** Maximum Overall Diameter (in inches)



PFT

PP ™ 2U Plug-In Compact Fluorescent Tube Lamps

RATED LIFE

• 12,000 hours

APPLICATIONS

- General Lighting • Recessed Cans

- Replaces incandescent lamps
- Now available in 3500K, 4100K, and 5000K

		1								
WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**	M.O.D.***
9\$	G23-2	9W T4 2U 2P 27	L-12110	50	12,000	82	2700	525	4.33"	1.38"
13\$	GX23-2	13W T4 2U 2P 27	L-12161	50	12,000	82	2700	900	4.61"	1.38"
13\$	GX23-2	13W T4 2U 2P 35	L-12162	50	12,000	82	3500	900	4.61"	1.38"
13 \$	GX23-2	13W T4 2U 2P 41	L-12163	50	12,000	82	4100	900	4.61"	1.38"
13 \$	GX23-2	13W T4 2U 2P 50	L-12164	50	12,000	82	5000	900	4.61"	1.38"
13 \$	G24Q-1	13W T4 2U 4P 27	L-12165	50	12,000	82	2700	900	5.00"	1.38"
13\$	G24Q-1	13W T4 2U 4P 35	L-12166	50	12,000	82	3500	900	5.00"	1.38"
13\$	G24Q-1	13W T4 2U 4P 41	L-12167	50	12,000	82	4100	900	5.00"	1.38"
13\$	G24Q-1	13W T4 2U 4P 50	L-12168	50	12,000	82	5000	900	5.00"	1.38"
18\$	G24D-2	18W T4 2U 2P 27	L-12210	50	12,000	82	2700	1,200	5.91"	1.38"
18\$	G24D-2	18W T4 2U 2P 35	L-12211	50	12,000	82	3500	1,200	5.91"	1.38"
18\$	G24D-2	18W T4 2U 2P 41	L-12212	50	12,000	82	4100	1,200	5.91"	1.38"
18\$	G24D-2	18W T4 2U 2P 50	L-12213	50	12,000	82	5000	1,200	5.91"	1.38"
18\$	G24Q-2	18W T4 2U 4P 27	L-12215	50	12,000	82	2700	1,200	5.63"	1.38"
18\$	G24Q-2	18W T4 2U 4P 35	L-12216	50	12,000	82	3500	1,200	5.63"	1.38"
18\$	G24Q-2	18W T4 2U 4P 41	L-12217	50	12,000	82	4100	1,200	5.63"	1.38"
18\$	G24Q-2	18W T4 2U 4P 50	L-12218	50	12,000	82	5000	1,200	5.63"	1.38"
26\$	G24D-3	26W T4 2U 2P 27	L-12261	50	12,000	82	2700	1,800	6.70"	1.38"
26\$	G24D-3	26W T4 2U 2P 35	L-12262	50	12,000	82	3500	1,800	6.70"	1.38"
26\$	G24D-3	26W T4 2U 2P 41	L-12263	50	12,000	82	4100	1,800	6.70"	1.38"
26\$	G24D-3	26W T4 2U 2P 50	L-12264	50	12,000	82	5000	1,800	6.70"	1.38"
26\$	G24Q-3	26W T4 2U 4P 27	L-12265	50	12,000	82	2700	1,800	6.42"	1.38"
26\$	G24Q-3	26W T4 2U 4P 35	L-12266	50	12,000	82	3500	1,800	6.42"	1.38"
26\$	G24Q-3	26W T4 2U 4P 41	L-12267	50	12,000	82	4100	1,800	6.42"	1.38"
26\$	G24Q-3	26W T4 2U 2P 50	L-12268	50	12,000	82	5000	1,800	6.42"	1.38"

NEW □ □ ™ 3U Plug-In Compact Fluorescent Tube Lamps

PFT



RATED LIFE

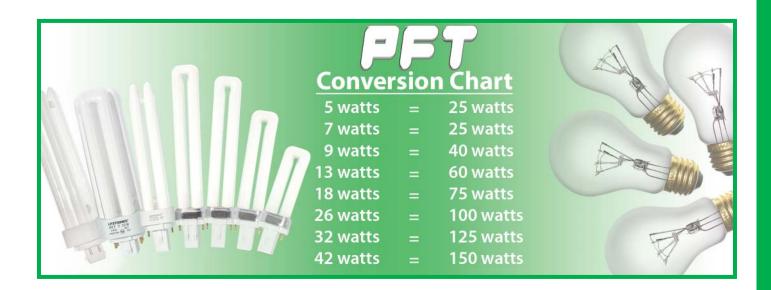
• 12.000 hours

APPLICATIONS

- General Lighting
- Recessed Cans

- Replaces incandescent lamps
- Now available in 3500K, 4100K, and 5000K

		The second second								
WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**	M.O.D.***
18 \$	GX24Q-2	18W T4 3U 4P 27	L-12221	50	12,000	82	2700	1,200	4.41"	1.93"
18 \$	GX24Q-2	18W T4 3U 4P 35	L-12222	50	12,000	82	3500	1,200	4.41"	1.93"
18 \$	GX24Q-2	18W T4 3U 4P 41	L-12223	50	12,000	82	4100	1,200	4.41"	1.93"
18 \$	GX24Q-2	18W T4 3U 4P 50	L-12224	50	12,000	82	5000	1,200	4.41"	1.93"
26\$	GX24Q-3	26W T4 3U 4P 27	L-12271	50	12,000	82	2700	1,800	5.00"	1.93"
26\$	GX24Q-3	26W T4 3U 4P 35	L-12272	50	12,000	82	3500	1,800	5.00"	1.93"
26\$	GX24Q-3	26W T4 3U 4P 41	L-12273	50	12,000	82	4100	1,800	5.00"	1.93"
26\$	GX24Q-3	26W T4 3U 4P 50	L-12274	50	12,000	82	5000	1,800	5.00"	1.93"
32\$	GX24Q-3	32W T4 3U 4P 27	L-12321	50	12,000	82	2700	2,400	5.51"	1.93"
32\$	GX24Q-3	32W T4 3U 4P 35	L-12322	50	12,000	82	3500	2,400	5.51"	1.93"
32\$	GX24Q-3	32W T4 3U 4P 41	L-12323	50	12,000	82	4100	2,400	5.51"	1.93"
32\$	GX24Q-3	32W T4 3U 4P 50	L-12324	50	12,000	82	5000	2,400	5.51"	1.93"
42 \$	GX24Q-4	42W T4 3U 4P 27	L-12371	50	12,000	82	2700	3,200	6.42"	1.93"
42 \$	GX24Q-4	42W T4 3U 4P 35	L-12372	50	12,000	82	3500	3,200	6.42"	1.93"
42 \$	GX24Q-4	42W T4 3U 4P 41	L-12373	50	12,000	82	4100	3,200	6.42"	1.93"
42 \$	GX24Q-4	42W T4 3U 4P 50	L-12374	50	12,000	82	5000	3,200	6.42"	1.93"



GREEN SEED

Neolite CFLs are the world's first CFL with only 1mg of mercury. This is 80% less than the industry standard of 5mg of mercury.



RATED LIFE

• 10,000-12,000 hours

APPLICATIONS

- General Lighting
- Recessed Cans
- Table Lamps

FEATURES AND BENEFITS

- 1 milligram of mercury
- Directly replaces incandescent lamps
- Extremely low M.O.L., can fit more applications

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**	M.O.D.***
== 10 \$	MED LO	120	10W T2 27	NL-10427	30	10,000	82	2700	635	3.74"	1.65"
10 \$	MED LO	120	10W T2 41	NL-10441	30	10,000	82	4100	635	3.74"	1.65"
10 \$	MED LO	120	10W T2 50	NL-10450	30	10,000	82	5000	635	3.74"	1.65"
== 13 \$	MED LO	120	13W T2 27	NL-13427	30	12,000	82	2700	825	3.85"	1.65"
13 \$	MED LO	120	13W T2 41	NL-13441	30	12,000	82	4100	825	3.85"	1.65"
13 \$	MED LO	120	13W T2 50	NL-13450	30	12,000	82	5000	825	3.85"	1.65"
== 15 \$	MED LO	120	15W T2 27	NL-15427	30	10,000	82	2700	1005	4.13"	1.65"
15 \$	MED LO	120	15W T2 41	NL-15441	30	10,000	82	4100	1005	4.13"	1.65"
15\$	MED LO	120	15W T2 50	NL-15450	30	10,000	82	5000	1005	4.13"	1.65"
20 \$	MED LO	120	20W T2 27	NL-20427	30	12,000	82	2700	1295	4.33"	2.15"
20\$	MED LO	120	20W T2 41	NL-20441	30	12,000	82	4100	1295	4.33"	2.15"
20\$	MED LO	120	20W T2 50	NL-20450	30	12,000	82	5000	1295	4.33"	2.15"
23 \$	MED LO	120	23W T2 27	NL-23427	30	12,000	82	2700	1660	4.60"	2.15"
23 \$	MED LO	120	23W T2 41	NL-23441	30	12,000	82	4100	1660	4.60"	2.15"
23 \$	MED LO	120	23W T2 50	NL-23450	30	12,000	82	5000	1660	4.60"	2.15"





Energy Star Qualified

—SPIRAL-LITE™ LOW PROFILE Compact Fluorescent Lamps

CFL

• 10,000-15,000 hours

APPLICATIONS

- General Lighting
- Recessed Cans
- Table Lamps

FEATURES AND BENEFITS

- Directly replaces incandescent lamps in most medium-based incandescent fixtures.
- 30-watt CFL is now available in 4100K and 5000K

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**	M.O.D.***
27 \$	MED LO	120	27W SPLP 27	L-27427	10	10,000	82	2700	2,015	5.31"	2.51"
27\$	MED LO	120	27W SPLP 41	L-27441	10	10,000	82	4100	2,015	5.31"	2.51"
27\$	MED LO	120	27W SPLP 50	L-27450	10	10,000	82	5000	2,015	5.31"	2.51"
30 \$	MED LO	120	30W SPLP 27 BD	L-30427	30	15,000	82	2700	2,050	5.15"	2.67"
30\$	MED LO	120	30W SPLP 41 BD	L-30441	30	15,000	82	4100	2,050	5.15"	2.67"
30\$	MED LO	120	30W SPLP 50 BD	L-30450	30	15,000	82	5000	2,050	5.15"	2.67"
42\$	MED LO	120	42W SPLP 27 BD	L-42427	30	10,000	82	2700	2,850	5.31"	2.67"

-SPIRAL-LITE"3-Way CFL LOW PROFILE 3-Way Compact Fluorescent Lamp



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RATED LIFE

• 10,000 hours

APPLICATIONS

- 3-Way Fixtures
- General Lighting
- Table Lamps

FEATURES AND BENEFITS

Directly replaces 3-way incandescent lamps in most 3-way incandescent

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**	M.O.D.***	
■12/22/33 \$	3 -WAY	120	33W SPI P 3-WAY 27	I-33627	40	10 000	82	2700	700/1500/2245	5 32"	2 75"	•

^{**} Maximum Overall Length (in inches)

^{***} Maximum Overall Diameter (in inches)

-**SPIRAL-LITE**™ Dimmable Compact Fluorescent Lamps



RATED LIFE

• 6.000-10.000 hours

APPLICATIONS

- General Lighting
- Recessed Cans
- Table Lamps
- Dimmable Fixtures

- Works in standard dimming circuits
- Directly replaces incandescent lamps in most medium-based incandescent fixtures.

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**	M.O.D.***
15 \$	MED LO	120	15W T4 27 DIM	L-15427D	30	10,000	82	2700	950	5.31"	2.32"
20 \$	MED LO	120	20W T4 27 DIM	L-20427D	30	6,000	82	2700	1,265	5.74"	2.32"
23 \$	MED LO	120	23W T4 27 DIM	L-23427D	30	10,000	82	2700	1,600	6.10"	2.32"



^{***} Maximum Overall Diameter (in inches)

GREEN SEED

GU24 sockets and lamps permanently convert fixtures so that they only accept energy-efficient CFLs. This guarantees energy savings over the life of the fixture.



NEW SPIRAL-LITE™ GU24 Compact Fluorescent Lamps



RATED LIFE

• 10,000 hours

APPLICATIONS

- General Lighting
- Recessed Cans
- Table Lamps

FEATURES AND BENEFITS

- For use in GU24 sockets to permanently convert fixtures to energy efficient lamps
- May be used in medium-based sockets with use of Litetronics GU24 Socket Adapter

				ORDERING	QTY/	AVERAGE		CORRELATED	INITIAL		
WATTS	BASE	VOLTS	DESCRIPTION	CODE	CASE	RATED LIFE	CRI	COLOR TEMP(K)	LUMENS	M.0.L.**	M.O.D.***
== 13 \$	GU24	120	13W T3 27 GU24	L-13C27	30	10,000	82	2700	900	3.77"	2.04"
== 18 \$	GU24	120	18W T3 27 GU24	L-18C27	30	10,000	82	2700	1,300	4.44"	2.12"
23 \$	GU24	120	23W T3 27 GU24	L-23C27	30	10,000	82	2700	1,725	4.48"	2.44"





\$ Energy Savings Energy Star Qualified

** Maximum Overall Length (in inches)

*** Maximum Overall Diameter (in inches)



GREEN SEED

Spiral-Lite Covered CFLs save up to 80% on energy when replacing incandescent lamps.

NEW-SPIRAL-LITE™ A19 Compact Fluorescent Lamps

A19



RATED LIFE

• 8,000-10,000 hours

APPLICATIONS

- General Lighting
- Table Lamps

FEATURES AND BENEFITS

• Directly replaces incandescent lamps in most medium-based incandescent fixtures.

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
9 \$	MED	120	9W A19 27	L-9527A19	50	10,000	82	2700	535	4.29"
14\$	MED	120	14W A19 27	L-14527A19	50	8,000	82	2700	825	4.88"

SPIRAL-LITE™ G25 Compact Fluorescent Lamp

G25



RATED LIFE

• 8,000 hours

APPLICATIONS

- General Lighting
- Bathrooms
- Theatres

FEATURES AND BENEFITS

Directly replaces incandescent lamps in most medium-based incandescent fixtures.

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
= 11\$	MED	120	11W G25 27	L-11527G25	24	8,000	82	2700	550	4.33"

NEW SPIRAL-LITE™ R30 Compact Fluorescent Lamp

R30



RATED LIFE • 8,000 hours

APPLICATIONS

- General Lighting
- Recessed Cans
- Track Lighting

FEATURES AND BENEFITS

Directly replaces incandescent lamps in most medium-based incandescent fixtures.

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
== 15 \$	MED	120	15W R30 27	L-15527R30	50	8,000	82	2700	750	5.47"

SPIRAL-LITE™ R40 Compact Fluorescent Lamp

R40

RATED LIFE

• 8,000 hours

APPLICATIONS

- General Lighting
- Recessed Cans
- Track Lighting

FEATURES AND BENEFITS

 Directly replaces incandescent lamps in most medium-based incandescent fixtures.

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**	
23 \$	MED	120	23W R40 27	L-23527R40	24	8,000	82	2700	1,300	6.33"	





RATED LIFE

• 8,000 hours

APPLICATIONS

- General Lighting
- Recessed Cans
- Track Lighting

FEATURES AND BENEFITS

 Directly replaces incandescent lamps in most medium-based incandescent fixtures.

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
23 \$	MED	120	23W PAR38 27	L-23527P38	24	8,000	82	2700	1,300	6.33"



Spiral PAR lamps operate at lower temperatures than halogen PARs, which helps reduce HVAC costs.

SPIRAL-PAR™ LOW PROFILE PAR30 Compact Fluorescent Lamps -

PAR30



RATED LIFE

• 8,000 hours

APPLICATIONS

- General Lighting
- Recessed Cans
- Track Lighting

FEATURES AND BENEFITS

- Directly replaces incandescent lamps in most medium-based incandescent fixtures
- Now available in 3500K

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
15 \$	MED LO	120	15W SPLP PAR30 27	L-1371	10	8,000	82	2700	725	5.15"
15\$	MED LO	120	15W SPLP PAR30 35	L-1375	10	8,000	82	3500	725	5.15"
15 \$	MED LO	120	15W SPLP PAR30 41	L-1372	10	8,000	82	4100	725	5.15"

* SPIRAL-PAR™ LOW PROFILE Compact PAR38 Fluorescent Lamps

PAR38



RATED LIFE

• 8.000 hours

APPLICATIONS

- General Lighting
- Recessed Cans
- Track Lighting

- Directly replaces incandescent lamps in most medium-based incandescent fixtures
- Now available in 3500K

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
20 \$	MED LO	120	20W SPLP PAR38 27	L-1271	10	8,000	82	2700	975	5.55"
20\$	MED LO	120	20W SPLP PAR38 35	L-1275	10	8,000	82	3500	975	5.55"
20 \$	MED LO	120	20W SPLP PAR38 41	L-1272	10	8,000	82	4100	975	5.55"





MICRO BRITE **Cold Cathode S14 Micro Compact Fluorescent Lamps -

Micro-Brite Cold Cathode lamps have an average life of up to 25,000 hours -- 25 times longer than incandescent. This reduces the amount of light bulbs disposed into landfills.





RATED LIFE

• 25,000 hours

APPLICATIONS

- General Lighting
- Signs
- Marquees

FEATURES AND BENEFITS

- Directly replaces incandescent lamps in most medium-based incandescent fixtures.
- Flashable
- 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
2\$	MED	120	2W S14 CL SW	MB-200	30	25,000	82	2700	80	3.58"
2\$	MED	120	2W S14 WH SW	MB-201	30	25,000	82	2700	80	3.58"
3\$	MED	120	3W S14 CL SW	MB-300	30	25,000	82	2700	130	3.58"
3\$	MED	120	3W S14 WH SW	MB-301	30	25,000	82	2700	130	3.58"

- **MICRO BRITE** *Cold Cathode A15 Micro Compact Fluorescent Lamp

A15

RATED LIFE

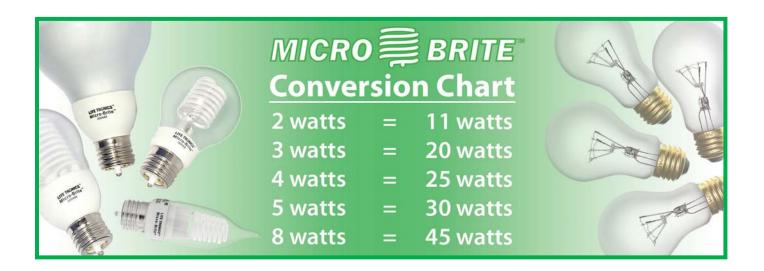
• 25,000 hours

APPLICATIONS

- Signs
- Marquees
- Refrigerators
- Ceiling Fans

- Directly replaces incandescent lamps in most medium-based incandescent fixtures.
- Flashable
- 2-year warranty

	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
_	4\$	MED	120	4W A15 WH SW	MB-401	30	25,000	82	2700	175	3.50"





^{**} Maximum Overall Length (in inches)



-MICRO BRITE [™] Cold Cathode A19 Micro Compact Fluorescent Lamps





RATED LIFE

• 18.000-25.000 hours

APPLICATIONS

- Marquees
- Signs
- Floor and Table Lighting
- General Lighting

FEATURES AND BENEFITS

- Directly replaces incandescent lamps in most medium-based incandescent fixtures
- Flashable (3-watt and 5-watt)
- Dimmable (5-watt and 8-watt)
- 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
3\$	MED	120	3W A19 CL SW	MB-310	15	25,000	82	2700	130	4.33"
5\$	MED LO	120	5W A19 CL LW	MB-500DL	15	25,000	82	2250	200	4.33"
5\$	MED LO	120	5W A19 CL PW	MB-500DP	15	25,000	82	2850	200	4.33"
5\$	MED LO	120	5W A19 WH LW	MB-501DL	15	25,000	82	2250	200	4.33"
5\$	MED LO	120	5W A19 WH PW	MB-501DP	15	25,000	82	2850	200	4.33"
5\$	MED	120	5W A19 WH 4	MB-502D	15	25,000	82	4100	200	4.33"
8\$	MED LO	120	8W A19 CL LW	MB-800DL	15	18,000	82	2250	325	4.88"
8\$	MED LO	120	8W A19 CL PW	MB-800DP	15	18,000	82	2850	325	4.88"
8\$	MED LO	120	8W A19 WH LW	MB-801DL	15	18,000	82	2250	325	4.88"
8\$	MED LO	120	8W A19 WH PW	MB-801DP	15	18,000	82	2850	325	4.88"
8\$	MED	120	8W A19 WH 4	MB-802D	15	18,000	82	4100	325	4.88"
						,				

-MICRO BRITE [™] Cold Cathode C11 Micro Compact Fluorescent Lamps





RATED LIFE

• 25,000 hours

APPLICATIONS

- Chandelier Lighting
- Wall Sconces
- Floor and Table Lighting

- Directly replaces incandescent lamps in most candelabra-based incandescent fixtures
- Flashable
- Dimmable
- 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
5\$	CAND LO	120	5W C11 CL PW	MB-540DP	30	25,000	82	2850	200	4.50"
5\$	CAND LO	120	5W C11 WH PW	MB-541DP	30	25,000	82	2850	200	4.50"
5\$	CAND LO	120	5W C11 CL PW BENT TIP	MB-547DP	30	25,000	82	2850	200	4.80"
5\$	CAND LO	120	5W C11 WH PW BENT TIP	MB-549DP	30	25,000	82	2850	200	4.80"



MICRO BRITE **Cold Cathode G16½ Micro Compact Fluorescent Lamp -

GREEN SEED

Micro-Brite lamps use up to 85% less energy than incandescent lamps, which reduces the amount of greenhouse gases released into the atmosphere due to power generation.





• 25,000 hours

APPLICATIONS

- Marquees
- Signs
- Bathroom Lighting
- Chandeliers

FEATURES AND BENEFITS

- Directly replaces incandescent lamps in most candelabra-based incandescent fixtures
- Flashable
- Dimmable
- 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**	
5\$	CAND LO	120	5W G16.5 CL PW	MB-538DP	20	25,000	82	2850	200	3.54"	

-MICRO BRITE [™] Cold Cathode R20 Micro Compact Fluorescent Lamps



RATED LIFE

• 25,000 hours

APPLICATIONS

- Marquees
- Signs
- Elevator Lighting
- Track and Recessed Lighting

FEATURES AND BENEFITS

- Directly replaces incandescent lamps in most medium-based incandescent fixtures.
- Flashable
- Dimmable
- 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
5\$	MED LO	120	5W R20 FF LW	MB-509DL	15	25,000	82	2250	200	4.05"
5\$	MED LO	120	5W R20 FF PW	MB-509DP	15	25,000	82	2850	200	4.05"

-MICRO BRITE [™]Cold Cathode BR30 Micro Compact Fluorescent Lamps



RATED LIFE

• 18.000 hours

APPLICATIONS

- Track Lighting
- Recessed Can Lighting
- General Lighting

- Directly replaces incandescent lamps in most medium-based incandescent fixtures
- Dimmable
- 2-year warranty

	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	M.O.L.**
Ī	8\$	MED LO	120	8W BR30 FF LW	MB-900DL	6	18,000	82	2250	325	5.39"
	8\$	MED LO	120	8W BR30 FF PW	MB-900DP	6	18,000	82	2850	325	5.39"



Installing lock-out disks with Litetronics lock-out-based CFLs permanently transforms fixtures to only accept energy efficient lamps. This guarantees energy savings over the life of the fixture.

LOCK-OUT DISKS-



FEATURES AND BENEFITS

For use with lock-out bases to permanently convert incandescent sockets to qualify for utility rebates

BASE	DESCRIPTION	ORDERING CODE
MED	E26 LO DISK	MB-DISK1
CAND	E12 LO DISK	MB-DISK3

NEW GU24 Socket Adapter -



FEATURES AND BENEFITS

- Screws and locks into medium-based socket to allow GU24-based CFLs to be used in the fixture
- Permanently converts incandescent sockets to qualify for utility rebates.

DESCRIPTION	ORDERING CODE
GU24 Socket F26 Lock	GU24-F26

Candelabra Socket Adapter



FEATURES AND BENEFITS

Screws into medium-based socket to allow candelabra-based lamps to be used in the fixture.

DESCRIPTION	ORDERING CODE
E12-E26 Socket Adapter	E12-E26



LITETRONICS® HALOGEN



HALOGEN LIGHTING FEATURES & BENEFITS

LITEPAR™ Halogen Lamps

LITEPAR lamps offer a crisp, white light that enhances colors and textures, making these lamps ideal for displaying merchandise. LITEPAR lamps can fit a variety of applications, including recessed can and track lighting. They also offer superior lumen maintenance when compared to incandescent lamps. LITEPAR is a clear choice for quality halogen lighting.

- 2,500 to 3,000-hour average life
- Accentuates colors and textures
- Specially molded LITETRONICS lens provides optimum focus and light distribution

XTRA-LIFE™ Halogen Lamps

XTRA-LIFE halogen lamps last for 5,000 hours at 120 volts - twice as long as standard halogen lamps - and they produce a brighter, whiter light than incandescent PARs. XTRA-LIFE lamps offer significant energy savings when they are used to replace higher wattage incandescent lamps. It is easy to save time, energy, and money with XTRA-LIFE halogen lamps.

- 5,000 to 10,000-hour average life
- · Brighter, whiter light than 130V halogen PARs
- · Replaces higher wattage incandescent lamps
- · Reduces labor costs



Halogen Lamps

A proprietary lens reduces the yellow light that causes colors to blend together, giving XTREME WHITE™ lamps a 3500K light that is closer to the appearance of sunlight than any other halogen. XTREME WHITE lamps bring out the true colors and textures of products on display; they are ideal for retail and color-sensitive applications. For long-lasting lamps that show merchandise in the best light, look no further than XTREME WHITE.

- 3,000 to 4,000-hour average life
- · Eliminates color-mixing problems
- Emphasizes true colors and textures
- Proprietary lens reduces yellow light
- · Provides whiter light than standard halogen

FROST Halogen Lamps

FROST-PAR™ lamps have a special frost coating that properly diffuses light, eliminating the striations and hot spots associated with over-lighting. They provide a bright, glare-free light to properly display artwork, artifacts, and merchandise. FROST-PAR lamps also spread light out so fewer track heads are required. Upgrade to FROST-PAR lighting, and see the difference the right light can make.

- 5,000-hour average life
- Glare-free light
- · Special frost coating diffuses light evenly
- Prevents over-lighting and hot spots
- · Spreads light, reducing amount of track heads needed

SUPER SAFE-T™ Halogen Lamps

SUPER SAFE-T lamps have a proprietary coating that makes the lamps shatter resistant. If the glass does break, the SUPER SAFE-T coating contains the glass, preventing any spread of hazardous material. These lamps are essential for applications like food service or painting, where broken glass could cause safety concerns. For a safe, long-lasting light source, SUPER SAFE-T is the clear choice.

- 5,000-hour average life
- · Shatter resistant
- · Prevents spread of broken glass

COOLRAY™ Halogen Lamps

A dichroic coating on the reflector of COOLRAY™ lamps allows heat to escape from the back of the lamp, while delivering light from the front. This reduces heat on merchandise by 85%. COOLRAY is ideal for displaying heat sensitive items, including food and produce. The COOLRAY's white light accentuates natural colors and textures. Keep merchandise cool with COOLRAY halogen lamps.

- 5,000-hour average life
- Reduces heat on merchandise by 85%
- Substantial energy savings over incandescent lamps
- Whiter light accentuates colors and textures
- Optimum focus and light output





MR16 Halogen Lamps

Litetronics offers several different varieties of MR16 lamps. With a 4,000 to 6,000-hour average life, these lamps offer a long-lasting lighting solution for any application.

XTREME WHITE™ MR16s have a proprietary lens that reduces yellow light and provides a 3500K light that brings out the true colors and textures of products on display.

FROST-PAR™ MR16s have a special frost coating that eliminates the hot spots associated with over-lighting.

SURE-BEAM™ MR16s release 85% of the heat out of the back of the lamp, reducing heat on display items.

MIRRO™ Aluminum-Reflector MR16 lamps reflect light and heat downward, protecting the transformer and extending lamp life.

SPECTRACHROME™ colored MR16 lamps are available in four colors: red, blue, green, and amber.

- 4,000 to 6,000-hour average life
- Dimmable
- Energy efficient

Omni-Lite™ Adjustable Undercabinet Halogen System

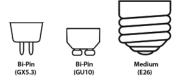
The Omni-Lite has a unique bridge wiring system that allows the lights to be connected. This creates a continuous light system while using only one electrical outlet. Additional fixtures can be added at any time. Each Omni-Lite fixture has a swivel head design, which allows it to focus light where it is needed. Each fixture can operate independently and has a hi/lo dimmer switch.

- · Available in one, two, and three light fixtures
- Fixtures can be connected and use one power outlet
- 1-year warranty (Based on residential use)

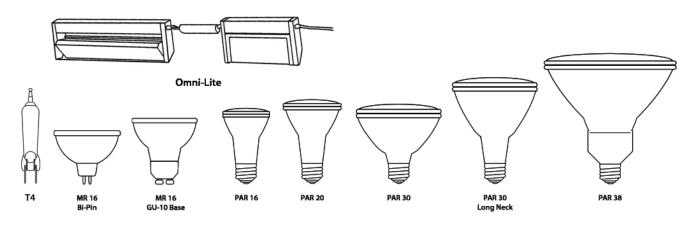
Halogen Lamp Beam Angle

Spot	=	10 degrees
Narrow Flood	=	20 degrees
Flood	=	28 degrees
Wide Flood	=	50 degrees

BASES '



SHAPES





Litepar halogen lamps can replace higher wattage incandescent reflector lamps to save energy costs. **GREEN SEED**

-**LITEPAR™** Halogen PAR16 Lamps

PAR16

RATED LIFE

• 2,500 - 3,000 hours

APPLICATIONS

- Office BuildingsBanksRecessed CansShopping Malls

- Hospitals • Down Ligh
- Restaurants
- Open Fixtures

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WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**
60	MED	120-125	60 PAR16 NFL	NARROW FLOOD	L-3020	15	3,000	650	1,600	3.15"
60	MED	130	60 PAR16 NFL	NARROW FLOOD	L-3030	15	2,500	650	1,600	3.15"
75	MED	130	75 PAR16 NFL	NARROW FLOOD	L-3050	15	2,500	900	2,000	3.15"

·**LITEPAR™** Halogen PAR20 Lamps

PAR20



RATED LIFE

• 2,500 - 3,000 hours

APPLICATIONS

- Office Buildings Banks
- Recessed Cans
- Shopping Malls
- Hospitals
- Restaurants
- Down Lights
- Retail Stores
- Open Fixtures

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**
35	MED	120-125	35 PAR20 FL	FLOOD	L-5100	15	3,000	425	1,200	3.15"
50	MED	120-125	50 PAR20 SP	SPOT	L-4426	15	3,000	525	5,000	3.15"
50	MED	120-125	50 PAR20 FL	FLOOD	L-4425	15	3,000	525	1,600	3.15"
50	MED	130	50 PAR20 SP	SPOT	L-4427	15	2,500	520	5,100	3.15"
50	MED	130	50 PAR20 FL	FL00D	L-4428	15	2,500	520	1,600	3.15"
75	MED	120-125	• 75 PAR20 FL	FLOOD	L-4451	15	3,000	950	2,500	3.15"

^{*} Center Beam Candle Power

^{**} Maximum Overall Length (in inches)

-LITEPAR™ Halogen PAR30 Lamps

PAR₃₀



RATED LIFE

• 2,500 - 3,000 hours

APPLICATIONS

- Hospitals Open Fixtures
- Office Buildings Down Lights
- Recessed Cans Banks
- Shopping Malls Restaurants
- Retail Stores

					ORDERING	QTY/	AVERAGE			
WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	CODE	CASE	RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**
E 50	MED	120-125	50 PAR30 SP	SPOT	L-4446	15	3,000	580	7,000	3.54"
E 50	MED	120-125	50 PAR30 FL	FLOOD	L-4445	15	3,000	580	1,350	3.54"
E 50	MED	130	50 PAR30 SP	SPOT	L-4448	15	2,500	580	7,000	3.54"
E 50	MED	130	50 PAR30 NFL	NARROW FLOOD	L-4444	15	2,500	580	2,400	3.54"
E 50	MED	130	50 PAR30 FL	FLOOD	L-4447	15	2,500	580	1,350	3.54"
E 75	MED	120-125	75 PAR30 SP	SPOT	L-4456	15	3,000	1,050	14,500	3.54"
E 75	MED	120-125	75 PAR30 NFL	NARROW FLOOD	L-4459	15	3,000	1,050	4,000	3.54"
E 75	MED	120-125	75 PAR30 FL	FL00D	L-4455	15	3,000	1,050	2,100	3.54"
E 75	MED	130	75 PAR30 SP	SPOT	L-4458	15	2,500	1,050	14,500	3.54"
E 75	MED	130	75 PAR30 NFL	NARROW FLOOD	L-4460	15	2,500	1,050	4,000	3.54"
E 75	MED	130	75 PAR30 FL	FLOOD	L-4457	15	2,500	1,050	2,300	3.54"

LITEPAR™ Halogen PAR30 Long Neck Lamps

DESCRIPTION



BASE

WATTS



VOLTS

RATED LIFE

• 2,500 - 3,000 hours

APPLICATIONS

- Office Buildings
- Recessed Cans
- Hospitals
- Shopping Malls

• Banks

- Restaurants
- Down Lights
- Retail Stores
- Open Fixture
- **ORDERING** OTY/ **AVERAGE** CODE CASE RATED LIFE LUMENS C.B.C.P.* M.O.L.** 15 3,000 550 6,700 4.68"
- € 50 MED 120-125 50 LN PAR30 SP **SPOT** L-4446LN € 50 MED 120-125 50 LN PAR30 NFL NARROW FLOOD L-4449LN 15 3,000 550 2,200 4.68" **€** 50 MED 120-125 50 LN PAR30 FL **FLOOD** L-4445LN 15 3,000 550 1,200 4.68" € 50 MED 130 50 LN PAR30 SP SPOT L-4448LN 15 2,500 550 6,700 4.68" € 50 MED 130 50 LN PAR30 NFL NARROW FLOOD L-4444LN 15 2,500 550 2,200 4.68" € 50 MED 130 50 LN PAR30 FL FL00D L-4447LN 15 2,500 550 1,200 4.68" **©** 75 MED 120-125 75 LN PAR30 SP **SPOT** L-4456LN 15 3,000 1,000 10,000 4.68" 75 MED 120-125 75 LN PAR30 NFL NARROW FLOOD L-4459LN 15 3,000 1,000 3,600 4.68" **€** 75 MED 120-125 75 LN PAR30 FL **FLOOD** L-4455LN 15 3,000 1,000 2,300 4.68" **E**) 75 MED 130 75 LN PAR30 SP SPOT L-4458LN 15 2,500 1,000 10,000 4.68" **©** 75 15 2,500 1,000 3,600 4.68" MED 130 75 LN PAR30 NFL NARROW FLOOD L-4460LN **E**) 75 15 MED 130 75 LN PAR30 FL FL00D L-4457LN 2,500 1,000 2,300 4.68"

BEAM SPREAD



^{© 2009} LITETRONICS International, Inc.

^{*} Center Beam Candle Power

^{**} Maximum Overall Length (in inches)

This bulb meets Federal minimum efficiency standards

-**LITEPAR™** Halogen PAR38 Lamps

PAR38



RATED LIFE

• 2,500 - 3,000 hours

APPLICATIONS

- Open Fixtures Hospitals
- Office Buildings Down Lights
- Recessed Cans Banks
- Shopping Malls Restaurants Retail Stores

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**
E 45	MED	120-125	45 PAR38 FL	FLOOD	L-4091	15	3,000	520	2,000	5.19"
E 45	MED	130	45 PAR38 SP	SPOT	L-4093	15	2,500	520	7,200	5.19"
E 45	MED	130	45 PAR38 FL	FLOOD	L-4094	15	2,500	520	2,000	5.19"
€ 60	MED	120-125	60PAR38 SP	SPOT	L-4511	15	3,000	800	12,500	5.19"
€ 60	MED	120-125	60 PAR38 FL	FLOOD	L-4510	15	3,000	800	3,500	5.19"
€ 60	MED	130	60 PAR38 SP	SPOT	L-4515	15	2,500	800	12,500	5.19"
€ 60	MED	130	60 PAR38 FL	FLOOD	L-4514	15	2,500	800	3,500	5.19"
E 75	MED	120-125	75 PAR38 FL	FL00D	L-4088	15	3,000	1,100	4,800	5.19"
E 75	MED	130	75 PAR38 SP	SPOT	L-4078	15	2,500	1,100	18,000	5.19"
E 75	MED	130	75 PAR38 FL	FL00D	L-4087	15	2,500	1,100	4,800	5.19"
E 90	MED	120-125	90 PAR38 SP	SPOT	L-4080	15	3,000	1,280	27,500	5.19"
E 90	MED	120-125	90 PAR38 FL	FLOOD	L-4081	15	3,000	1,280	5,000	5.19"
E 90	MED	120-125	90 PAR38 WFL	WIDE FLOOD	L-4079	15	3,000	1,280	2,000	5.19"
E 90	MED	130	90 PAR38 SP	SPOT	L-4083	15	2,500	1,280	25,000	5.19"
© 90	MED	130	90 PAR38 FL	FLOOD	L-4084	15	2,500	1,280	5,000	5.19"
E 100	MED	120-125	100 PAR38 FL	FL00D	L-4097	15	3,000	1,425	5,750	5.19"
E 120	MED	120-125	120 PAR38 FL	FLOOD	L-4800	15	3,000	1,900	8,000	5.19"
E 120	MED	130	120 PAR38 FL	FLOOD	L-4804	15	2,500	1,900	8,000	5.19"



^{*} Center Beam Candle Power

^{**} Maximum Overall Length (in inches)

© This bulb meets Federal minimum efficiency standards

Litetronics Xtra-Life halogen lamps last up to twice as long as standard halogen lamps. Fewer lamp replacements means fewer lamps in the landfill. **GREEN SEED**

-**XTRA-LIFE™** Halogen PAR20 Lamps [.]

PAR₂₀

RATED LIFE

• 5,000 hours

APPLICATIONS

- Hospitals Open Fixtures
- Office Buildings Down lights
- Recessed Cans Banks
- Shopping Malls Restaurants
- Retail Stores

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**
35	MED	120-125	• 35 PAR20 FL	FL00D	G-4510	15	5,000	310	750	3.15"
50	MED	120-125	• 50 PAR20 SP	SPOT	G-4513	15	5,000	500	5,400	3.15"
50	MED	120-125	• 50 PAR20 FL	FLOOD	G-4512	15	5,000	500	1,400	3.15"
75	MED	120-125	• 75 PAR20 FL	FL00D	G-4516	15	5,000	825	3,000	3.15"

-XTRA-LIFE™ Halogen PAR30 Lamps -



RATED LIFE

• 5,000 - 10,000 hours

- Open Fixtures
- Hospitals
- Office Buildings
- Down lights
- Recessed Cans
- Banks
- Shopping Malls Restaurants
- Retail Stores

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE Rated Life	LUMENS	C.B.C.P.*	M.O.L.**
€ 50	MED	120-125	• 50 PAR30 SP	SPOT	G-4551	15	5,000	580	11,050	3.54"
€ 50	MED	120-125	• 50 PAR30 FL	FLOOD	G-4549	15	5,000	580	1,150	3.54"
€ 60	MED	120-125	• 60 PAR30 FL	FLOOD	G-4557	15	5,000	750	1,500	3.54"
E 75	MED	120-125	• 75 PAR30 SP	SPOT	G-4455	15	5,000	990	16,300	3.54"
E 75	MED	120-125	• 75 PAR30 FL	FLOOD	G-4454	15	5,000	990	2,300	3.54"
E 78	MED	130	• 78 PAR30 FL	FLOOD	G-4460	15	10,000~	1,100	2,400	3.54"



^{© 2009} LITETRONICS International, Inc.

^{*} Center Beam Candle Power

^{**} Maximum Overall Length (in inches)

This bulb meets Federal minimum efficiency standards

^{~ 10,000} hours when operated at 120 Volts

-XTRA-LIFE™ Halogen PAR30 Long Neck Lamps

PAR30 LONG NECK



RATED LIFE

• 5,000 - 10,000 hours

APPLICATIONS

- Open Fixtures Hospitals
- Office Buildings Down Lights
- Recessed Cans Banks
- Shopping Malls Restaurants
- Retail Stores

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**
E 50	MED	120-125	• 50 LN PAR30 SP	SPOT	G-4551LN	15	5,000	560	10,000	4.68"
E 50	MED	120-125	• 50 LN PAR30 FL	FL00D	G-4549LN	15	5,000	560	1,080	4.68"
E 60	MED	120-125	• 60 LN PAR30 FL	FL00D	G-4557LN	15	5,000	700	1,430	4.68"
E 75	MED	120-125	• 75 LN PAR30 SP	SPOT	G-4455LN	15	5,000	950	14,400	4.68"
E 75	MED	120-125	• 75 LN PAR30 FL	FL00D	G-4454LN	15	5,000	950	2,150	4.68"
E 78	MED	130	• 78 LN PAR30 FL	FLOOD	G-4460LN	15	10,000~	1,000	2,300	4.68"

-XTRA-LIFE™ Halogen PAR38 Lamps

PAR38



RATED LIFE

• 5,000 - 10,000 hours

- Open Fixtures Hospitals
- Office Buildings Down Lights
- Recessed Cans
- Banks
- Shopping Malls
 Restaurants
- Retail Stores

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.0.L.**
€ 50	MED	120-125	• 50 PAR38 FL	FLOOD	G-4554	15	5,000	530	1,800	5.19"
6 0	MED	120-125	• 60 PAR38 FL	FL00D	G-4560	15	5,000	700	3,400	5.19"
E 75	MED	120-125	• 75 PAR38 SP	SPOT	G-4201	15	5,000	940	16,000	5.19"
E 75	MED	120-125	• 75 PAR38 FL	FL00D	G-4200	15	5,000	940	3,800	5.19"
E 75	MED	120-125	• 75 PAR38 WFL	WIDE FLOOD	G-4203	15	5,000	940	1,050	5.19"
E 78	MED	130	• 78 PAR38 SP	SPOT	G-4077	15	10,000~	1,000	19,300	5.19"
E 78	MED	130	• 78 PAR38 FL	FLOOD	G-4078	15	10,000~	1,000	4,000	5.19"
€ 85	MED	120-125	• 85 PAR38 FL	FL00D	G-4082	15	5,000	1,200	5,000	5.19"

- LITETRONICS EXCLUSIVE
- * Center Beam Candle Power
- ** Maximum Overall Length (in inches)
- This bulb meets Federal minimum efficiency standards
- ~ 10,000 hours when operated at 120 Volts



Halogen PAR20 Lamp



RATED LIFE

• 4.000 hours

APPLICATIONS

• Open Fixtures • Hospitals

• Retail Stores Jewelry Cases

• Office Buildings • Art Galleries

• Recessed Cans • Banks

• Shopping Malls

Museums

• Down Lights

Restaurants

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CORRELATED COLOR TEMP(K)	M.O.L.**
50	MED	120-125	• 50 PAR20 FL XW	FLOOD	G-4800	15	4,000	3500	3.15"



🖠 🥝 Halogen PAR30 Lamps



RATED LIFE

• 4,000 hours

APPLICATIONS

• Open Fixtures • Hospitals

• Retail Stores

• Office Buildings • Art Galleries

Jewelry Cases

• Recessed Cans • Banks

Shopping Malls

 Museums • Down Lights

Restaurants

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CORRELATED COLOR TEMP(K)	M.O.L.**
50	MED	120-125	• 50 PAR30 FL XW	FLOOD	G-4803	15	4,000	3500	3.54"
75	MED	120-125	• 75 PAR30 SP XW	SPOT	G-4804	15	4,000	3500	3.54"
75	MED	120-125	• 75 PAR30 FL XW	FLOOD	G-4805	15	4,000	3500	3.54"





Halogen PAR30 Long Neck Lamps





• 4,000 hours

APPLICATIONS

- Open Fixtures Hospitals
- Office Buildings Art Galleries • Jewelry Cases

• Retail Stores

• Retail Stores

Jewelry Cases

- Recessed Cans Banks
- Museums • Shopping Malls
- Down Lights Restaurants

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CORRELATED COLOR TEMP(K)	M.O.L.**
50	MED	120-125	• 50 LN PAR30 FL XW	FLOOD	G-4803LN	15	4,000	3500	4.68"
75	MED	120-125	• 75 LN PAR30 FL XW	FLOOD	G-4805LN	15	4,000	3500	4.68"



🕹 👱 Halogen PAR38 Lamps

PAR38



RATED LIFE

• 3,000 - 4,000 hours

- Open Fixtures Hospitals
- Office Buildings Art Galleries
- Recessed Cans
 Banks
- Museums
 - Shopping Malls
- Down Lights Restaurants

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CORRELATED COLOR TEMP(K)	M.O.L.**
85	MED	120-125	• 85 PAR38 FL XW	FLOOD	G-4810	15	4,000	3500	5.19"
85	MED	120-125	• 85 PAR38 SP XW	SPOT	G-4811	15	4,000	3500	5.19"
105	MED	120-125	• 105 PAR38 FL XW	FLOOD	L-8801	15	3,000	3500	5.19"
	85 85	85 MED 85 MED	85 MED 120-125 85 MED 120-125	85 MED 120-125 • 85 PAR38 FL XW 85 MED 120-125 • 85 PAR38 SP XW	85 MED 120-125 • 85 PAR38 FL XW FLOOD 85 MED 120-125 • 85 PAR38 SP XW SPOT	WATTS BASE VOLTS DESCRIPTION BEAM SPREAD CODE 85 MED 120-125 •85 PAR38 FL XW FLOOD G-4810 85 MED 120-125 •85 PAR38 SP XW SPOT G-4811	WATTS BASE VOLTS DESCRIPTION BEAM SPREAD CODE CASE 85 MED 120-125 • 85 PAR38 FL XW FLOOD G-4810 15 85 MED 120-125 • 85 PAR38 SP XW SPOT G-4811 15	WATTS BASE VOLTS DESCRIPTION BEAM SPREAD CODE CASE RATED LIFE 85 MED 120-125 •85 PAR38 FL XW FLOOD G-4810 15 4,000 85 MED 120-125 •85 PAR38 SP XW SPOT G-4811 15 4,000	WATTS BASE VOLTS DESCRIPTION BEAM SPREAD CODE CASE RATED LIFE COLOR TEMP(K) 85 MED 120-125 •85 PAR38 FL XW FLOOD G-4810 15 4,000 3500 85 MED 120-125 •85 PAR38 SP XW SPOT G-4811 15 4,000 3500

-FROST Halogen PAR20 Lamp



RATED LIFE

• 5,000 hours

APPLICATIONS

- Art Galleries
- Meetings Rooms
- Office Lobbies
- Retail Stores
- Museums

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	M.O.L.**
50	MED	120-125	50 PAR20 FL FROST	FLOOD	G-4512FR	15	5.000	3.15"

-FR ST Halogen PAR30 Lamp



RATED LIFE

• 5,000 hours

APPLICATIONS

- Art Galleries
- Meetings Rooms
- Office Lobbies
- Retail Stores
- Museums

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	M.O.L.**	
75	MED	120-125	75 PAR30 FL FROST	FLOOD	G-4570FR	15	5,000	3.54"	

—FROST Halogen PAR30 Long Neck Lamp



RATED LIFE

• 5,000 hours

- Art Galleries
- Meetings Rooms
- Office Lobbies
- Retail Stores
- Museums

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	M.O.L.**
75	MED	120-125	75 PAR30LN FL FROST	FLOOD	G-4570LNFR	15	5,000	4.68"

-FROST Halogen PAR38 Lamp

PAR38

RATED LIFE

• 5,000 hours

APPLICATIONS

- Art Galleries
- Meetings Rooms
- Office Lobbies
- Retail Stores
- Museums

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	M.O.L.**
85	MED	120-125	85 PAR38 FROST FL	FLOOD	G-4082FR	15	5,000	5.19"

-SUPER SAFE-T™ Halogen PAR30 Lamp -

PAR30

RATED LIFE

• 5,000 hours

- Food service applications that require glass protection if the lamp shatters.
- Outdoor applications because it protects against thermal shock.

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	M.O.L.**
75	MED	120-125	75 PAR30 FL STC	FLOOD	G-4360STC	15	5,000	3.54"

-COOLRAY™ Halogen PAR20 Lamp



RATED LIFE

• 5.000 hours

APPLICATIONS

- Ideal for food service applications where heat sensitive items are placed in front of or near the lamp.
- Produce Sections
- Carpet and Drapery Studios/Displays
- Retail Stores

•	WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**	
	50	MFD	120-125	50 PAR20 FL CR	FLOOD	G-4300	15	5.000	500	1.400	3.15"	

-COOLRAY™ Halogen PAR30 Lamp



RATED LIFE

• 5.000 hours

APPLICATIONS

- Ideal for food service applications where heat sensitive items are placed in front of or near the lamp.
- Produce Sections
- Carpet and Drapery Studios/Displays
- Retail Stores

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**
75	MED	120-125	75 PAR30 FL CR	FLOOD	G-4310	15	5,000	990	1,500	3.54"

-COOLRAY™ Halogen PAR38 Lamp



RATED LIFE

• 5,000 hours

- Ideal for food service applications where heat sensitive items are placed in front of or near the lamp.
- Produce Sections
- Carpet and Drapery Studios/Displays
- Retail Stores

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**
85	MED	120-125	85 PAR38 FL CR	FLOOD	G-4320	15	5,000	1,200	5,000	5.19"



^{*} Center Beam Candle Power

^{**} Maximum Overall Length (in inches)



Halogen MR16 Lamp

MR16

RATED LIFE

• 6,000 hours

APPLICATIONS

- Open Fixtures
 Hospitals
- Retail Stores • Office Buildings • Art Galleries Jewelry Cases
- Recessed Cans Banks
- Museums • Shopping Malls
- Down Lights Restaurants

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CORRELATED COLOR TEMP(K)	M.O.L.**
50	BI PIN	12	• 50 EXN/A MR16 XW CG	FLOOD	L-3850	10	6,000	3500	1.77"

FROST Halogen MR16 Lamp

MR16



RATED LIFE

• 6,000 hours

APPLICATIONS

- Art Galleries
- Meeting Rooms
- Office Lobbies
- Retail Stores
- Museums

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	M.O.L.**
50	BI PIN	12	• 50 EXN MR16 FL CG	FLOOD	L-3822FR	10	6,000	1.77"

GU-10 120V MR16 Lamp

MR16



RATED LIFE

• 3,000 hours

APPLICATIONS

• Optical Shops

• Line Voltage

- Grocery Stores
- Retail Stores
- Jewelers
- Office Interiors

FEATURES AND BENEFITS

• Doesn't Require a Transformer

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	C.B.C.P.*	M.O.L.**
50	GU 10	120-125	50 EXN/A MR16 FL CG	FL00D	L-3700	10	3,000	1800	2.26"

GREEN SEED

MR16 halogen lamps are light weight and easy to ship, so they don't require as much fuel to transport as heavier lamps. This helps conserve natural resources.

-SURE-BEAM™ Coolray Dichroic Reflector MR16 Lamps

MR16

RATED LIFE

• 6,000 hours

- Grocery Stores Retail Stores
- Jewelers
- Office Interiors
- Optical Strips

FEATURES AND BENEFITS

Designed to release 85% of the heat away from the display area.

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CORRELATED COLOR TEMP(K)	C.B.C.P.*	M.O.L.**
20	BI PIN	12	20 ESX MR16 SP	SPOT	L-3817	10	6,000	3000	3,300	1.77"
20	BI PIN	12	20 BAB MR16 FL	FL00D	L-3819	10	6,000	3000	500	1.77"
20	BI PIN	12	20 BAB MR16 FL CG	FLOOD	L-3827	10	6,000	3000	500	1.77"
50	BI PIN	12	50 EXT MR16 SP	SPOT	L-3820	10	6,000	3050	10,200	1.77"
50	BI PIN	12	50 EXZ MR16 NFL	NARROW FLOOD	L-3821	10	6,000	3050	3,100	1.77"
50	BI PIN	12	50 EXN MR16 FL	FL00D	L-3822	10	6,000	3050	1,850	1.77"
50	BI PIN	12	50 EXN MR16 FL CG	FLOOD	L-3823	10	6,000	3050	1,850	1.77"
50	BI PIN	12	50 FNV MR16 WFL CG	WIDE FLOOD	L-3829	10	6,000	3050	1,200	1.77"
75	BI PIN	12	75 EYC MR16 FL CG	FL00D	L-3833	10	6,000	3050	1,200	1.77"
75	BI PIN	12	75 EYF MR16 SP	SPOT	L-3824	10	6,000	3050	12,300	1.77"
75	BI PIN	12	75 EYC MR16 FL	FLOOD	L-3825	10	6,000	3050	2,200	1.77"

-MIRRO™ Aluminum Reflector MR16 Lamps

MR16

RATED LIFE

• 6,000 hours

APPLICATIONS

- Grocery Stores
- Retail Stores
- Jewelers
- Office Interiors
- Optical Strips

FEATURES AND BENEFITS

Designed to direct the light and heat downward, away from the fixture to protect the transformer.

						ORDERING	QTY/	AVERAGE	CORRELATED		
WA	TTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	CODE	CASE	RATED LIFE	COLOR TEMP(K)	C.B.C.P.*	M.O.L.**
35		BI PIN	12	35 FMW/A MR16	FLOOD	L-3811	10	6,000	2900	1,350	1.77"
50		BI PIN	12	50 EXN/A MR16	FL00D	L-3812	10	6,000	2900	1,900	1.77"
50		BI PIN	12	50 EXN/A MR16 CG	FLOOD	L-3805	10	6,000	2900	1,900	1.77"



^{© 2009} LITETRONICS International, Inc.

^{*} Center Beam Candle Power

^{**} Maximum Overall Length (in inches)

-SPECTRACHROME™ Colored MR16 Lamps -

MR16



RATED LIFE

• 6,000 hours

APPLICATIONS

- Restaurants
- Landscape LightingNight Clubs

\	WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	M.O.L.**
5	50	BI PIN	12	50 MR16 FL RED	FLOOD	L-3821R	10	6,000	1.77"
5	50	BI PIN	12	50 MR16 FL GREEN	FLOOD	L-3821G	10	6,000	1.77"
5	50	BI PIN	12	50 MR16 FL BLUE	FLOOD	L-3821B	10	6,000	1.77"
5	50	BI PIN	12	50 MR16 FL AMBER	FLOOD	L-3821A	10	6,000	1.77"

ECONO MR16 Lamps

MR16



RATED LIFE

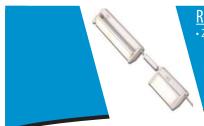
• 4,000 hours

- Grocery StoresRetail Stores

- Jewelers Office Interiors
- Optical Shops

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	M.O.L.**
20	BI PIN	12	20 MR16 BAB FL CG	FLOOD	L-3800	10	4,000	1.77"
20	BI PIN	12	20 MR16 BAB FL	FLOOD	L-3865	10	4,000	1.77"
20	BI PIN	12	20 MR16 ESX SP	SPOT	L-3861	10	4,000	1.77"
35	BI PIN	12	35 MR16 FMW FL CG	FLOOD	L-3801	10	4,000	1.77"
35	BI PIN	12	35 MR16 FMW FL	FLOOD	L-3875	10	4,000	1.77"
35	BI PIN	12	35 MR16 FMY NFL CG	NARROW FLOOD	L-3873	10	4,000	1.77"
50	BI PIN	12	50 MR16 EXT SP CG	SPOT	L-3803	10	4,000	1.77"
50	BI PIN	12	50 MR16 EXT SP	SPOT	L-3881	10	4,000	1.77"
50	BI PIN	12	50 MR16 EXZ NFL CG	NARROW FLOOD	L-3804	10	4,000	1.77"
50	BI PIN	12	50 MR16 EXZ NFL	NARROW FLOOD	L-3883	10	4,000	1.77"
50	BI PIN	12	50 MR16 EXN FL CG	FLOOD	L-3802	10	4,000	1.77"
50	BI PIN	12	50 MR16 EXN FL	FLOOD	L-3885	10	4,000	1.77"
75	BI PIN	12	75 MR16 EYC FL	FLOOD	L-3895	10	4,000	1.77"
75	BI PIN	12	75 MR16 EYF SP	SPOT	L-3891	10	4,000	1.77"

DURO-LITE **OMNI-LITE** Adjustable Undercabinet Halogen Lighting System-



RATED LIFE

• 2.000 hours

APPLICATIONS

- Offices Garages
- Kitchens
 Study Areas
- Work Shops
 Dining Rooms
- Curio Cabinets Laundry Rooms

FEATURES AND BENEFITS

• 1-year warranty

(based on residential use only)

DESCRIPTION	COLOR	ORDERING CODE	QTY/ CASE
6" ONE-LIGHT OMNI-LITE FIXTURE	WHITE	LS2006	1
12" TWO-LIGHT OMNI-LITE FIXTURE	WHITE	LS2012	1
18" THREE-LIGHT OMNI-LITE FIXTURE	WHITE	LS2018	1
6 FT. POWER CORD	WHITE	LS20PCW	1
HARDWIRE JUNCTION BOX	WHITE	LS2001W	1
18" BRIDGE CORD WITH MOLEX CONNECTOR	WHITE	LS2180W	1
15" CORD COVER	WHITE	LS2000W	1
3.5" BRIDGE CORD WITH 2 MOLEX CONNECTOR	WHITE	LS2003W	1

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
25	G6 BI PIN	120	25W T4 CL 2PCK 6MM	CLEAR	LS1903	1	2,000	320	1.54"
25	G8 BI PIN	120	25W T4 CL 1PCK 8MM	CLEAR	LS1908-1	1	2,000	320	1.54"
25	G8 BI PIN	120	25W T4 CL 2PCK 8MM	CLEAR	LS1908-2	1	2,000	320	1.54"
25	G8 BI PIN	120	25W T4 CL 3PCK 8MM	CLEAR	LS1908-3	1	2,000	320	1.54"



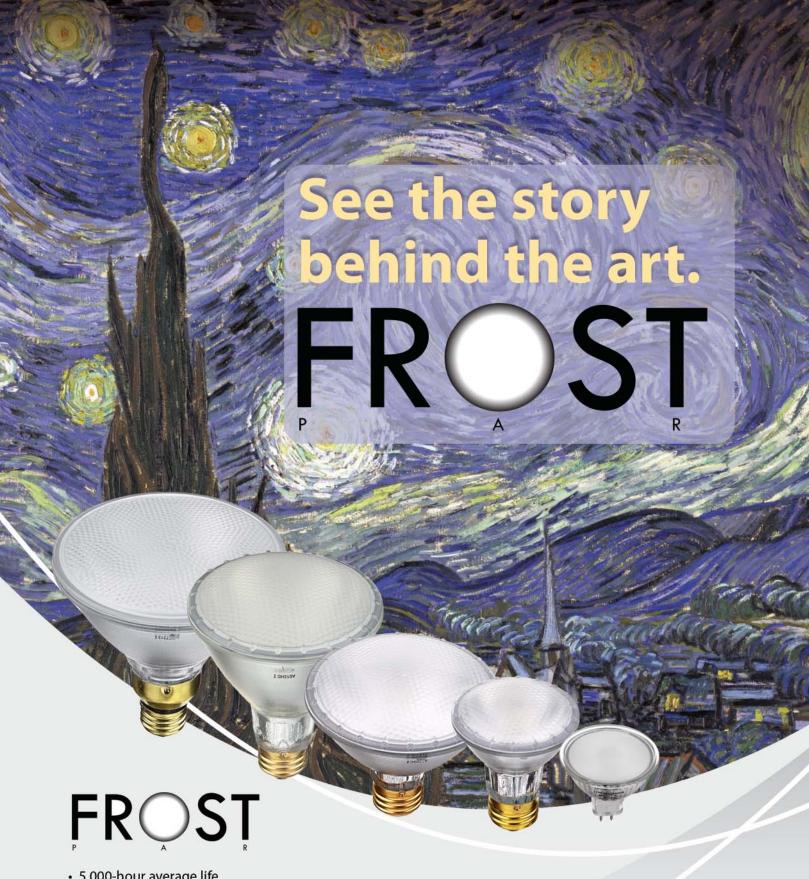
The OMNI-LITE's unique bridge control allows you to connect the lights to each other, creating a continuous lighting system. Add additional light anytime you want and use only one electrical outlet for the entire system.

In addition, each OMNI-LITE fixture has a unique swivel head design that allows you to focus the light where you need it.

Each fixture operates independently, and each has a built-in Hi / Lo dimmer switch.





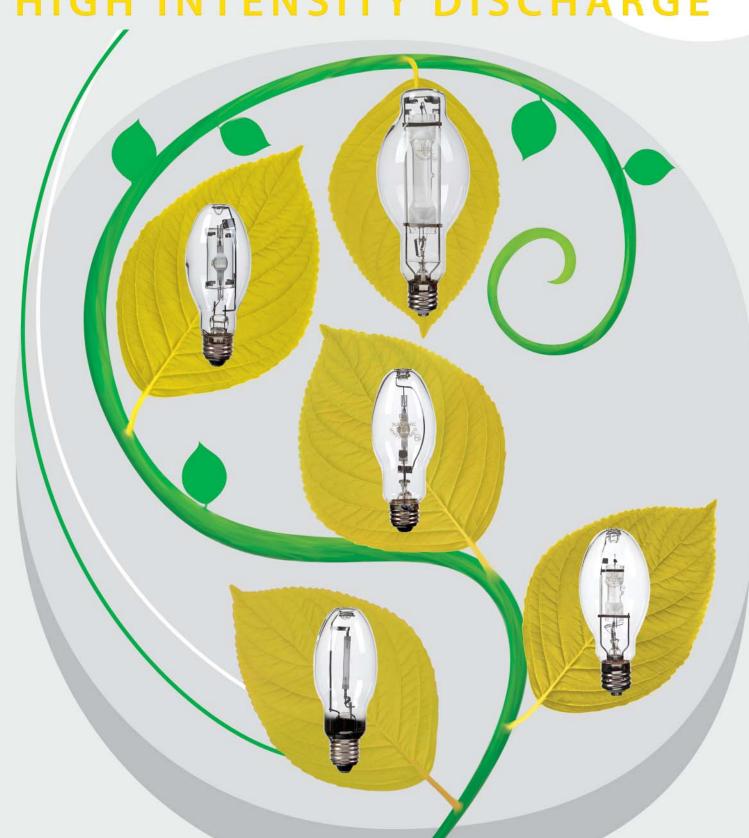


- 5,000-hour average life
- · Glare-free light
- · Special frost coating diffuses light evenly
- Prevents over-lighting and hot spots
- Spreads light, reducing amount of track heads needed



LITETRONICS®

HIGH INTENSITY DISCHARGE



H. I. D. LIGHTING FEATURES & BENEFITS

Super Arc™Metal Halide Lamps

Super Arc Metal Halide lamps provide bright, white light. The 65-70 CRI helps bring out colors and textures, while improving visual acuity. Super Arc Metal Halide lamps, available in clear or with phosphor coating, have an average life of 10,000-20,000 hours. The compact arc size of Super Arc lamps improves the lamps' effectiveness, continuing the Litetronics tradition of producing the highest quality lamps available.

- 65-70 CRI
- 10,000 to 20,000-hour average life
- Reduced maintenance costs
- Energy efficient
- High lumen output
- Compact arc size
- Distributes light evenly

Super Arc High Pressure Sodium Lamps

Litetronics Super Arc™ High Pressure Sodium (HPS) lamps are a superior, economical lighting choice in general enclosed fixture applications. HPS lamps are the most efficient lamps in the HID family of products. HPS lamps also have a shorter warm-up time than other HIDs. They cast a golden white light that is perfect for illuminating streets and parking areas.

Super Arc HPS lamps have a 24,000-hour life. This means less lamp replacements are needed, which reduces labor costs. They are more efficient than incandescent, metal halide, and many fluorescent lamps. The long life and high lumen output put Super Arc HPS lamps ahead of the competition.

- 24,000-hour average life
- Energy efficient
- · Distributes light evenly
- Short warm-up time
- Reduces labor costs
- High lumen output

Super Arc Pulse-Start Metal Halide Lamps

While a standard metal halide lamp can lose up to 40% of its initial lumen level over the course of its life, the Litetronics Super Arc™ Pulse-Start Metal Halide lamp stays strong. Super Arc starts with a high lumen output and has superior lumen maintenance, reducing the amount of fixtures needed. Also, with a rated life of up to 20,000 hours, Pulse-Start lamps can last twice as long as competing metal halide lamps.

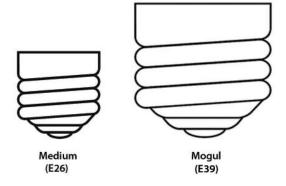
Many metal halide lamps have cool spots in the arc tube, where some of the mercury and halides do not vaporize. The uniquely shaped arc tube in Pulse-Start lamps eliminates any pockets where these cool spots may form. This ensures that all chemicals are available to generate light.

This efficient use of available materials allows Pulse-Start lamps to replace higher wattage lamps, which saves money on energy. Pulse-Start lamps also reduce color shift by up to 400K, reach full light quicker than standard lamps, and have lower restrike time. Get consistent life, lumens, color, and savings with Super Arc Pulse-Start Metal Halide Lamps.

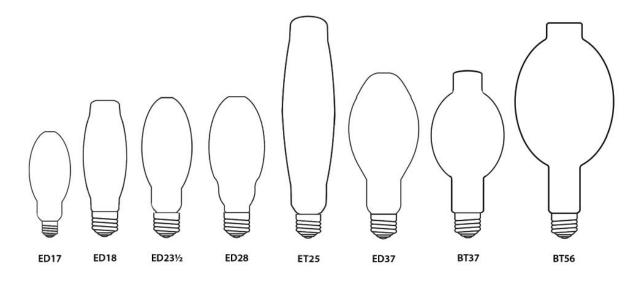
- 65-80 CRI
- 10,000 to 20,000-hour average life
- Reduced maintenance costs
- Unique arc shape eliminates cool spots
- Energy efficient
- High lumen output
- Compact arc size
- · Distributes light evenly







SHAPES







Super Arc™ Metal Halide ED17 Lamp

ED17



RATED LIFE

• 10,000 hours

APPLICATIONS

- Sports Arenas
- Canopy Lighting
- Tennis Courts
- Car Dealerships
- Billboard Signage
- Gas Stations
- Industrial Applications

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**
175	ED17	MED	MH175 U CL MED	L-835	12	10,000	M57	65	4000	14,000	9,295	5.44"

Super Arc™ Metal Halide ED28 Lamps

ED28



RATED LIFE

• 12,000 hours

APPLICATIONS

- Sports Arenas
- Canopy Lighting
- Tennis Courts
- Car Dealerships Gas Stations
- Billboard Signage
- Industrial Applications

V	/ATTS	BULB TYPE	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**
1	75	ED28	MOG	MH175 U CL MOG	L-830	12	12,000	M57	65	4000	14,000	11,200	8.30"
2	50	ED28	MOG	MH250 U CL MOG	L-845	12	12,000	M58	65	4000	21,000	17,935	8.30"

Super Arc™ Compact Metal Halide ED28 Lamp

ED28



RATED LIFE

• 20,000 hours

- Sports Arenas
- Tennis Courts
- Canopy Lighting Car Dealerships
- Billboard Signage
- Industrial Applications
- Gas Stations

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**
400	ED28	MOG	MH400 U CL MOG R	L-855	12	20,000	M59	70	4000	36,000	28,000	8.30"

Super Arc™Compact Metal Halide BT37 Lamp

BT37



RATED LIFE

• 12,000 hours

APPLICATIONS

- Sports Arenas
- Tennis Courts
- Canopy Lighting Car Dealerships
- Billboard Signage
- Gas Stations
- Industrial Applications

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**	
1000	BT37	MOG	MH1000 U CL MOG R	L-856	12	12,000	M47	65	4000	110,000	96.000	11.50"	

Super Arc™ Metal Halide ED37 Lamps

FD37



RATED LIFE

• 20,000 hours

APPLICATIONS

- Sports Arenas
- Canopy Lighting
- Tennis Courts
- Car Dealerships
- Billboard Signage
- Gas Stations
- Industrial Applications

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**
400	ED37	MOG	MH400 U CL MOG	L-850	12	20,000	M59	65	4000	36,000	28,000	11.02"
400	ED37	MOG	MH400 U CT MOG	L-860	12	20,000	M59	70	3700	36,000	28,800	11.02"

Super Arc™ Metal Halide BT56 Lamp

BT56



RATED LIFE

• 12,000 hours

- Sports Arenas
- Canopy Lighting
- Tennis Courts
- Car Dealerships
- Billboard Signage
- Gas Stations
- Industrial Applications

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**	
1000	RT56	MOG	MH1000 II CL MOG	1_870	1	12 000	MAT	65	4000	110 000	86 000	15 30"	



Super Arc Pulse Start Metal Halide lamps are more efficient than standard metal halide lamps. A 320-watt Super Arc Pulse Start lamp can replace a 400-watt standard metal halide lamp with the same light output.

Super Arc™ Open Fixture Metal Halide ED37 Lamp

ED37



RATED LIFE

• 20,000 hours

APPLICATIONS

- Sports Arenas
- Canopy LightingCar Dealerships
- Tennis Courts
- Gas Stations
- Billboard Signage
- Industrial Applications

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**
400	ED37	MOG	MP400 BU CL MOG 0	L-876	12	20,000	M59	65	4000	32,000		10.82"

Super Arc™ PULSE-START Metal Halide ED17 Lamps

ED17



RATED LIFE

• 10,000 hours

APPLICATIONS

- Sports Arenas
- Tennis Courts
- Billboard Signage
- Industrial Applications

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**
50	ED17	MED	MHPS50 U CL MED	L-887	12	10,000	M110	70	4000	3,300	2,815	5.44"
70	ED17	MED	MHPS70 U CL MED	L-825	12	10,000	M98	75	4000	5,300	3,885	5.44"
100	ED17	MED	MHPS100 U CL MED	L-831	12	10,000	M90	75	4000	8,300	5,660	5.44"

Super Arc™ PULSE-START Metal Halide ED28 Lamp

ED28



RATED LIFE

• 20,000 hours

- Sports Arenas
- Tennis Courts
- Billboard Signage
- Industrial Applications

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**
320	ED28	MOG	MHPS 320 CL U	L-714	12	20,000	M132/M154	65	4000	33,000		8.30"

Super Arc™ **PULSE-START** Open Fixture Metal Halide ED17 Lamps

ED17



RATED LIFE

• 10,000 hours

APPLICATIONS

- Sports Arenas
- Canopy Lighting
- Tennis Courts
- Car Dealerships
- Billboard Signage
- Gas Stations
- Industrial Applications

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**
70	ED17	MED	MPPS70 U CL MED 0	L-886	12	10,000	M98	75	4000	5,300	3,885	5.43"
100	ED17	MED	MPPS100 U CL MED 0	L-885	12	10,000	M90	75	4000	8,300	5,660	5.43"
100	ED17	MED	MPPS100 U CT MED 0	L-828	12	10,000	M90	80	3700	8,300	5,700	5.43"
150	ED17	MED	MPPS150 U CL MED 0	L-884	12	10,000	M102	75	4000	12,000	9,600	5.43"

Super Arc™ High Pressure Sodium ED17 Lamps

ED17



RATED LIFE

• 24,000 hours

- Sports Arenas
- Tennis Courts
- Billboard Signage
- Industrial Applications
- Car Dealerships

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**
50	ED17	MED	LU50 E26	L-4108	12	24,000	S68	22	2100	4,000	3,295	5.43"
70	ED17	MED	LU70 E26	L-4111	12	24,000	S62	22	2100	6,300	5,040	5.43"
100	ED17	MED	LU100 E26	L-4114	12	24,000	S54	22	2100	9,500	7,705	5.43"
150	ED17	MED	LU150 E26	L-4117	12	24,000	S55	22	2100	15,000	12,000	5.43"



Super Arc High Pressure Sodium lamps produce up to 140 lumens per watt, making them super energy efficient.

Super Arc™ High Pressure Sodium ED23.5 Lamp

ED23.5



RATED LIFE

• 24,000 hours

APPLICATIONS

- Sports Arenas
- Tennis Courts
- Billboard Signage
- Industrial Applications
- Car Dealerships

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.0.L.**
100	ED23.5	MOG	LU100 E39	L-4113	12	24,000	S54	22	2100	9,500	8,000	7.48"
150	ED23.5	MOG	LU150 E39	L-4116	12	24,000	S55	22	2100	16,000	12,800	7.48"

Super Arc™ High Pressure Sodium ED18 Lamps

FD18



RATED LIFE

• 24,000 hours

APPLICATIONS

- Sports Arenas
- Tennis Courts
- Billboard Signage
- Industrial Applications
- Car Dealerships

W	ATTS	BULB TYPE	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**
25	50	ED18	MOG	LU250 E39	L-4132	24	24,000	S50	22	2100	26,000	22,100	9.68"
40	00	ED18	MOG	LU400 E39	L-4133	24	24,000	S51	22	2100	50,000	42,500	9.68"

Super Arc High Pressure Sodium ET25 Lamp

ET25



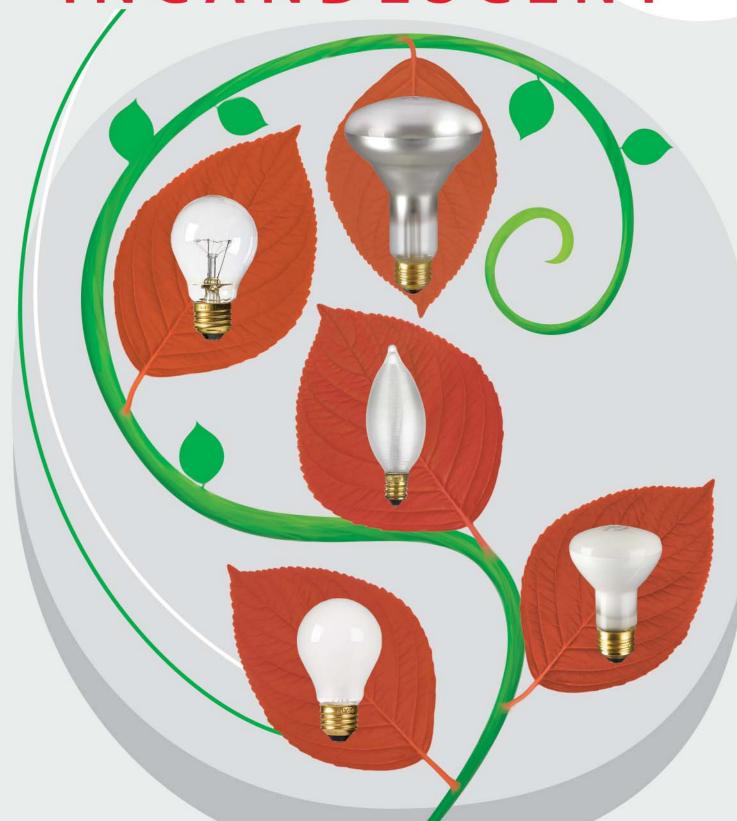
RATED LIFE

• 24,000 hours

- Sports Arenas
- Tennis Courts
- Billboard Signage
- Industrial Applications
- Car Dealerships

WATTS	BULB Type	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI CODE	CRI	CORRELATED COLOR TEMP(K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.**
1000	ET25	MOG	LU1000 E39	L-4125	12	24,000	S52	22	2100	140,000	124,600	15.07"

LITETRONICS® INCANDESCENT



Bonus Life™ Lamps

Bonus Life lamps are engineered to outlast standard incandescents. With a life of 4,000-9,000 hours plus warranty, Bonus Life lamps are a sure bet for lighting that lasts. Get lasting illumination with Bonus-Life.

- 4,000 to 9,000-hour average life
- 6 month to 1-year warranty
- · Seven-support filament mounting

Rough Service Lamps

There is a long-lasting Rough Service incandescent lamp for almost any application. Rough Service lamps have up to 20,000 hours of life, much longer than standard or extended-life incandescent bulbs. This cuts down on lamp replacement and maintenance costs.

Rough Service lamps are engineered with the highest-grade materials to ensure a longer, brighter lamp life. The three getters neutralize impurities inside the lamp, while the seven-support filament mounting protects against vibration. Rough Service lamps are rated at 120V to prevent the loss of lumens and color that is associated with 130V lamps. Durable, long-lasting Rough Service lamps will outlast and outperform the competition.

- 20,000-hour average life
- · Seven-support filament mounting
- Triple alloy tungsten filament
- Brass base prevents corrosion
- · Three separate getters
- Excellent lumen maintenance
- 2-year warranty

DURO-LITE Incandescent Lamps

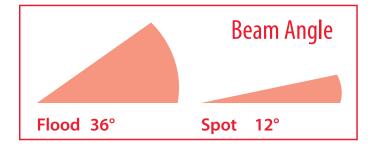
Duro-Lite incandescent lamps have an average rated life of 6,000 hours, up to three times longer than a standard incandescent lamp. Duro-Lite XL-6000 A19 lamps are available in a 3-way configuration (for light adjustable fixtures). Duro-Lite also has a decorative collection, which includes chandelier candle lamps and chimney lamps. Each Duro-Lite incandescent lamp comes with a 2-year warranty (residential use) and most are available in a clear or white finish.

- 6,000-hour average life
- · Lasts three times longer than standard incandescents
- 2-year warranty (Based on residential use)
- Available in assorted wattages

DURO-LITE Flamescent Candle Lamps

Duro-Lite Flamescent candle lamps have an attractive design for decorative use. The C-shaped candle lamps and H-shaped Chimney-Lite lamps have a fiberglass winding to help simulate the look of real flame. Flamescent lamps can be used indoors or outdoors in everything from coach lights to candlesticks. With a 6,000-hour life and a 2-year warranty (residential use), these are a smart choice for attractive and durable lighting.

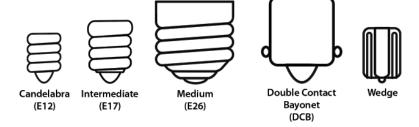
- 6,000-hour average life
- · Fiberglass winding simulates the look of flames
- 2-year warranty (Based on residential use)
- · Available in a variety of wattages



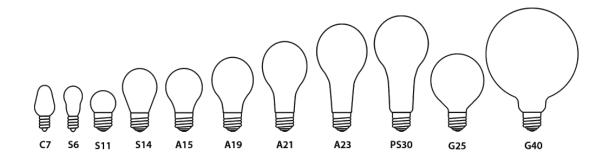


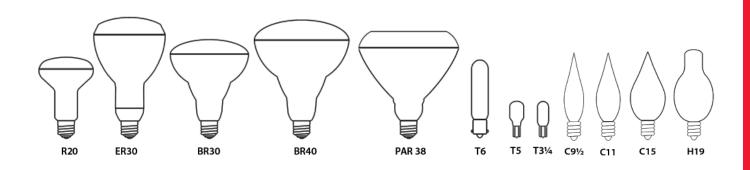


- BASES -



-----SHAPES -









$extcolor{black}{-Bonus\ Life}^{\scriptscriptstyle extcolor{black}{ au}}$ C7 Incandescent Lamp



RATED LIFE

• 6,000 hours

APPLICATIONS

- Electronic Message Center
- Marquees
- Architectural Signage
- Time/Temperature Signs
- Scoreboards

FEATURES AND BENEFITS

• 6-month warranty

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
7	CAND	130	7 (7 (1	CLEAR	I-103	120	6.000	40	2.12"

Bonus Life™ S6 Incandescent Lamp

S6



RATED LIFE

• 7,000 hours

<u>APPLICATIONS</u>

- Electronic Message Center
- Marquees
- Architectural Signage
- Time/Temperature Signs
- Scoreboards

FEATURES AND BENEFITS

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
6	CAND	130	6 S6 CL	CLEAR	L-102	50	7,000	35	1.85"

Bonus Life™ S11 Incandescent Lamp

S11



RATED LIFE

• 4,000 hours

APPLICATIONS

- Electronic Message Center
- Architectural Signage
- Time/Temperature Signs
- Scoreboards

• 6-month warranty

- Marquees

FEATURES AND BENEFITS

• 6-month warranty

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
10	INT	130	10 S11 CL	CLEAR	L-104	100	4,000	66	2.31"

Rough Service la times longer t lamps. Fewer fewer lamp

Rough Service lamps last 20,000 hours - 20 times longer than standard incandescent lamps. Fewer lamp replacements means fewer lamps in landfills.

-Rough Service "S14 Incandescent Lamps -

S14

RATED LIFE

• 20,000 hours

APPLICATIONS

- Exit Signs
- Marquees
- Message Centers
- Commercial and Industrial Applications

FEATURES AND BENEFITS

- Product Line includes
- SPECTRACHROME colored sign lamps
- Withstands high vibration environments
- 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
11	MED	120	11 S14 CL	CLEAR	L-100	120	20,000	70	3.30"
11	MED	120	11 S14 FR	FROST	L-101	120	20,000	70	3.30"
11	MED	120	11 S14 CY	CR YELLOW	L-101CY	120	20,000		3.30"
∑ 11	MED	120	11 S14 TR	TR RED	L-100TR	120	20,000		3.30"
15	MED	120	• 15 S14 CL	CLEAR	L-107	120	20,000	88	3.30"
15	MED	120	• 15 S14 FR	FROST	L-108	120	20,000	88	3.30"

-Rough Service ** A15 Incandescent Lamps



RATED LIFE

• 20,000 hours

APPLICATIONS

- Exit Signs
- Marquees
- Message Centers
- Commercial and Industrial Applications

FEATURES AND BENEFITS

- Withstands high vibration environments
- 2-year warranty

•	WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
	30	MED	120	• 30 A15 CL	CLEAR	L-279	120	20,000	175	3.30"
	30	MED	120	• 30 A15 FR	FROST	L-278	120	20,000	175	3.30"



^{**} Maximum Overall Length (in inches)

-**Rough Service** ** A19 Incandescent Lamps -

A19



RATED LIFE

- 20,000 hours
- Lasts up to 28 times longer than standard incandescents
- Lasts up to 8 times longer than other extended service incandescents

APPLICATIONS

- General Illumination
- Marquees • Hard-to-Reach Locations • Hotels
- Electronic Message Boards Scoreboards
- Time/Temperature Signs Retail Stores
- Office Buildings

FEATURES AND BENEFITS

- Withstands high vibration environments
- 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
25	MED	120-125	25 A19 CL	CLEAR	L-110	120	20,000	150	3.85"
25	MED	120-125	25 A19 FR	FROST	L-111	120	20,000	150	3.85"
40	MED	120	40 A19 CL	CLEAR	L-117	120	20,000	320	4.44"
40	MED	120	40 A19 FR	FROST	L-118	120	20,000	320	4.44"
60	MED	120	60 A19 CL	CLEAR	L-127	120	20,000	560	4.44"
60	MED	120	60 A19 FR	FROST	L-128A	120	20,000	560	4.44"
75	MED	120	75 A19 CL	CLEAR	L-130	120	20,000	790	4.44"
75	MED	120	75 A19 FR	FROST	L-131	120	20,000	790	4.44"
100	MED	120	100 A19 CL	CLEAR	L-144	120	20,000	1,100	4.44"
100	MED	120	100 A19 FR	FROST	L-145A	120	20.000	1.100	4.44"

-Rough Service™ A21 Incandescent Lamps

A21



RATED LIFE

- 20,000 hours
- Lasts up to 28 times longer than standard incandescents
- Lasts up to 8 times longer than other extended service incandescents

APPLICATIONS

- Office Buildings
- Hotels

FEATURES AND BENEFITS

- Withstands high vibration environments
- 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
 100	MED	120	100 A21 FR	FROST	L-146	120	20,000	1,100	5.19"
150	MED	120	150 A21 CL	CLEAR	L-163	120	20,000	1,750	5.19"
150	MED	120	150 A21 FR	FROST	L-164A	120	20,000	1,750	5.19"

OMEGA TRAFFIC™ A19/A21 Incandescent Double and Standard Life Signal Lamps



<u>rated life</u>

• 10,000 - 16,000 hours

APPLICATIONS

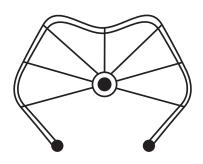
• Traffic Signals

FEATURES AND BENEFITS

• 1 to 2-year warranty

					ORDERING	OTY/	AVERAGE			
WATTS	BASE	VOLTS	DESCRIPTION	FINISH	CODE	CASE	RATED LIFE	LUMENS	L.C.L. [†]	M.O.L.**
60	MED	120-125	• 60 A19	CLEAR	L-956	120	10,000	595	2.44"	3.70"
68	MED	120-125	• 68 A19	CLEAR	L-943	120	16,000	610	2.44"	3.70"
90	MED	120-125	• 90 A19	CLEAR	L-958	120	10,000	1,050	2.44"	4.25"
135	MFD	120-125	• 135 A21	CLEAR	I-947A	120	16 000	1.700	3 00"	4.48"

OVERCOMING THE MAIN CAUSES OF LAMP FAILURE .



Omega Traffic Mount (C-C11V7)
Uniform mount eliminates sharp bends in the filament to improve light in the focal point of the signal and dramatically increases lamp life.

VIBRATION Special vibration-resistant filament with up to nine filament supports.

WEAK FILAMENTS/POOR DESIGN Proprietary, five alloy, non-sag, high grade tungsten filament in the unique Omega mount.

HEAT The aluminum reflector disc directs the heat forward to protect the socket from extreme heat.

• LITETRONICS EXCLUSIVE

† Light Center Length

** Maximum Overall Length (in inches)



-Rough Service A23 Incandescent Lamps

A23



RATED LIFE

- 20,000 hours
- Lasts up to 28 times longer than standard incandescents.
- Lasts up to 8 times longer than other extended service incandescents.

APPLICATIONS

- Office Buildings
- Hotels

FEATURES AND BENEFITS

- Withstands high vibration environments
- 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
150	MED	120	150 A23 FR	FROST	L-166	120	20,000	1,750	6.18"
200	MED	120	200 A23 FR	FROST	L-181	120	20,000	2,500	6.18"

*Rough Service ** PS30 Incandescent Lamp

PS30



RATED LIFE

• 20,000 hours

APPLICATIONS

- Office Buildings
- Retail Stores

FEATURES AND BENEFITS

- Withstands high vibration environments
- 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
300	MED	120	300 PS30 FR	FROST	L-185	60	20,000	3,850	7.87"

Rough Service G25 Globe Incandescent Lamps

G25



RATED LIFE

• 20,000 hours

APPLICATIONS

- Decorative Lighting
- Bathrooms
- Theatres

FEATURES AND BENEFITS

- Withstands high vibration environments
- 2-year warranty

					ORDERING	QTY/	AVERAGE		
WATTS	BASE	VOLTS	DESCRIPTION	FINISH	CODE	CASE	RATED LIFE	LUMENS	M.O.L.**
∑25	MED	120	25 G25 CL	CLEAR	L-215	60	20,000	190	4.48"
25	MED	120	25 G25 WH	WHITE	L-218	60	20,000	190	4.48"
40	MED	120	40 G25 CL	CLEAR	L-216	60	20,000	320	4.48"
40	MED	120	40 G25 WH	WHITE	L-219	60	20,000	320	4.48"

-**Rough Service** ™ G40 Globe Incandescent Lamps

G40

RATED LIFE

- 20,000 hours
- Lasts up to 26 times longer than standard incandescents
- Lasts up to 8 times longer than other extended service incandescents.

APPLICATIONS

- Decorative Lighting
- Bathrooms
- Theatres

FEATURES AND BENEFITS

- · Withstands high vibration environments
- 2-year warranty

	WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
	25	MED	120	25 G40 CL	CLEAR	L-199	24	20,000	190	6.92"
Ţ	₹40	MED	120	40 G40 CL	CLEAR	L-200	24	20,000	320	6.92"

-Rough Service ™and Bonus Life ™ R20 Reflector Lamps



R20

RATED LIFE

- 5,000-20,000 hours
- Lasts up to 26 times longer than standard incandescents.
- Lasts up to 8 times longer than other extended . Time/Temperature Signs service incandescents.

APPLICATIONS

- Office Buildings
- Architectural Signage
- Recessed Down Lights

Marquees

Hotels

Scoreboards

• Electronic Message Centers

FEATURES AND BENEFITS • 6-month to 2-year warranty

ORDERING QTY/ **AVERAGE** WATTS **VOLTS** DESCRIPTION **BEAM SPREAD** C.B.C.P.* M.O.L.** BASE CODE CASE RATED LIFE LUMENS **FLOOD** 28/30 MED 120 28/30 R20 HF L-789 60 5,000 205 75 3.77" 28/30 MED 120 • 28/30 R20 HF FL00D L-795 60 9,000 205 50 3.77" **SPOT** 30 MED 120 • 30 R20 LF L-114 60 20,000 195 150 3.77" MED • 50 R20 LF **SPOT** 20,000 3.77" 50 120 L-121 60 400 300



[•] LITETRONICS EXCLUSIVE

^{*} Center Beam Candle Power

^{**} Maximum Overall Length (in inches)

Rough Service ER30 lamps can replace higher wattage reflector lamps and produce the same light output.

-Rough Service ** ER30 Incandescent Lamps -

ER30



RATED LIFE

- 20,000 hours
- Lasts up to 26 times longer than standard incandescents.
- Lasts up to 8 times longer than other extended service incandescents.

APPLICATIONS

- Recessed Down Lights
- Office Buildings
- Track Lighting
- Hotels

FEATURES AND BENEFITS

• 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**
50\$	MED	120	50 ER30 LF	SPOT	L-124	30	20,000	450	600	6.10"
75\$	MED	120	75 ER30 LF	SPOT	L-134	30	20,000	750	800	6.10"

\$ = Energy Savings: 50- and 75-watt ER lamps replace 75- and 100-watt reflector lamps, respectively, while providing the same usable light.

• Rough Service ** and Bonus Life ** BR30 Incandescent Lamps

BR30



RATED LIFE

- 9,000 20,000 hours
- Lasts up to 26 times longer than standard incandescents.
- Lasts up to 8 times longer than other extended service incandescents.

APPLICATIONS

- Recessed Down Lights
- Office Buildings
- Track Lighting
- Hotels

FEATURES AND BENEFITS

• 1 to 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**
45/50	MED	120	• 45/50 BR 30 LF	SPOT	L-801	30	9,000	320	250	5.39"
45/50	MED	120	• 45/50 BR 30 HF	FL00D	L-779	30	9,000	320	150	5.39"
65	MED	120	• 65 BR 30 HF	FL00D	L-809	30	20,000	420	200	5.39"
75	MED	120	• 75 BR 30 HF	FL00D	L-132E	30	20,000	750	250	5.39"

- LITETRONICS EXCLUSIVE
- * Center Beam Candle Power
- ** Maximum Overall Length (in inches)

-Rough Service "BR40 Incandescent Lamps



RATED LIFE

- 20,000 hours
- · Lasts up to 26 times longer than standard incandescents.
- Lasts up to 8 times longer than other extended service incandescents.

APPLICATIONS

- Food Service • Office Buildings
- Track Lighting Architectural Signage
- Marquees
- Recessed Down Lights • Time/Temperature Signs
- Scoreboards Hotels
- Electronic Message Centers

•	WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**
	100	MED	120	100 BR40 HF	FLOOD	L-148	24	20,000	1,150	800	6.37"
	150	MED	120	150 BR40 HF	FLOOD	L-167E	24	20,000	1,500	1,000	6.37"

-**Rough Service** TPAR38 Incandescent Lamps



BASE

MED

MED

MED

MED

VOLTS

120

120

120

120

WATTS

54

75

100

150

RATED LIFE

- 9,000 20,000 hours
- Lasts up to 8 times longer than other extended service incandescents.

APPLICATIONS

- Office Buildings
- Marquees
- Architectural Signage
 Scoreboards
- Recessed Down Lights Hotels
- Time/Temperature Signs
- Electronic Message Centers

FEATURES AND BENEFITS • 2-year warranty

FEATURES AND BENEFITS

• 1 to 2-year warranty

DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	C.B.C.P.*	M.O.L.**
• 54 PAR38 FL	FLOOD	L-914	24	9,000	850	600	5.31"
• 75 PAR38 FL	FL00D	L-135	24	20,000	750	1,600	5.70"
• 100 PAR38 FL	FLOOD	L-153	24	20,000	1,100	2,000	5.70"
• 150 PAR38 FL	FL00D	L-173A	24	20,000	1,450	2,300	5.70"

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- LITETRONICS EXCLUSIVE
- * Center Beam Candle Power
- ** Maximum Overall Length (in inches)



Rough Service T6 lamps save energy by only using 10 watts to replace a 20-watt T6.5 lamp.

-Rough Service T6 Incandescent Lamps

T6



RATED LIFE

- 20,000 hours
- Lasts up to 8 times longer than other extended service incandescents.

APPLICATIONS

- Exit and Stairway Signs
- Picture Lights
- Decorative Lighting

FEATURES AND BENEFITS

• 2-year warranty

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
10 \$	DCB	120	10 T6	CLEAR	L-233	60	20,000	30	4.25"
10\$	INT	120	10 T6	CLEAR	L-234	60	20,000	30	4.25"
10\$	CAND	120	10 T6	CLEAR	L-235	60	20,000	30	4.40"

\$ = Energy Savings, 10 watt T6 lamp replaces a 20 watt T6 -1/2 exit lamp.

MINI-BRITE™ T5 Wedge Base Xenon Sign Lamps

T5



RATED LIFE

• 3,000 hours, depending on operating voltage

<u>APPLICATIONS</u>

- Color and Black & White Signage
- Electronic Message Centers
- Time/Temperature Signs
- Architectural Signage
- Scoreboards and Marquees

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**	_
7.2	WEDGE	24	7.2 T5 24 V	CLEAR	L-610	200	3,000~	70	1.48"	
10	WEDGE	24	10 T5 24 V	CLEAR	L-630	200	3,000~	101	1.48"	

-MINI-BRITE™ T3.25 Wedge Base Xenon Sign Lamps

T3.25



RATED LIFE

•2,000-10,000 hours, depending on operating voltage

APPLICATIONS

- Color and Black & White Signage
- Electronic Message Centers
- Time/Temperature Signs
- Architectural Signage
- Scoreboards and Marquees

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
5	WEDGE	12	5 T3.25 12 V	CLEAR	L-605	500	2,000~	50	1.05"
5	WEDGE	13.5	5 T3.25 13.5 V	CLEAR	L-620	1,000	2,000~	65	1.05"
5	WEDGE	24	5T3.25 24 V	CLEAR	L-625	500	10,000~	38	1.05"
7.5	WEDGE	24	7.5 T3.25 24 V	CLEAR	L-615	500	10,000~	65	1.05"



^{**} Maximum Overall Length (in inches)

~ Depending on operating voltage

XL-6000 A19 Incandescent Lamps



RATED LIFE

- 6,000 hours
- Lasts up to 3 times longer than standard incandescents

APPLICATIONS

- General Illumination
- Table Lamps
- High Ceilings
- Hard-to-reach locations

FEATURES AND BENEFITS

• 2-year warranty (based on residential use only)

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
40	MED	130	40 A19 CL DURO LITE	CLEAR	LS0175-2	60	6,000	340	4.44"
40	MED	130	40 A19 FR DURO LITE	FROST	LS4049-2	60	6,000	340	4.44"
60	MED	130	60 A19 CL DURO LITE	CLEAR	LS4170-2	60	6,000	675	4.44"
60	MED	130	60 A19 FR DURO LITE	FROST	LS4103-2	60	6,000	675	4.44"
75	MED	130	75 A19 CL DURO LITE	CLEAR	LS4021-2	60	6,000	855	4.44"
75	MED	130	75 A19 FR DURO LITE	FROST	LS4149-2	60	6,000	855	4.44"
100	MED	130	100 A19 CL DURO LITE	CLEAR	LS4154-2	60	6,000	1,125	4.44"
100	MED	130	100 A19 FR DURO LITE	FROST	LS4210-2	60	6,000	1,125	4.44"

VRO-LITE XL-6000 3-Way A19 Incandescent Lamps



RATED LIFE

- 6,000 hours
- Lasts up to 3 times longer than standard incandescents

APPLICATIONS

- 3-way fixtures
- Table lamps

FEATURES AND BENEFITS

2-year warranty

(based on residential use only)

WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
30/70/100	MED	130	30/70/100 A19 FR DURO LITE	FROST	LS4254	30	6,000	210/650/860	3.93"
50/100/150	MFD	130	50/100/150 A19 FR DURO LITE	FROST	LS4255	30	6.000	445/1095/1540	3.93"

URO-LITE FLAMESCENT™ (9.5 Candle Lamp

(9.5



RATED LIFE

• 6,000 hours

APPLICATIONS

- Post Lights
- Chandeliers Ceiling Fans
- Candlesticks Starbursts and Wall Fixtures
- Coach Lights For Indoor and Outdoor Use

FEATURES AND BENEFITS

				ORDERING	QTY/	AVERAGE			
WATTS	BASE	VOLTS	DESCRIPTION	CODE	CASE	RATED LIFE	LUMENS	M.O.L.**	
15	CAND	130	15 C9.5 FLAMESCENT DURO LITE	LS4017	30	6,000	95	3.26"	

URO-LIT E FLAMESCENT™ C11 Candle Lamps

(11



• 6.000 hours

- Chandeliers Ceiling Fans
- Candlesticks Starbursts and Wall Fixtures Coach Lights • For Indoor and Outdoor Use

• 2-year warranty

(based on residential use only)

ATED LIFE	<u>APPLICATIONS</u>	FEATURES AND BENEFITS

- 2-vear warranty
- (based on residential use only)

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
25	CAND	130	25 C11 FLAMESCENT DURO LITE	LS4030	30	6,000	155	3.85"
40	CAND	130	40 C11 FLAMESCENT DURO LITE	LS4055	30	6,000	310	3.85"
60	CAND	130	60 C11 FLAMESCENT DURO LITE	LS4112	30	6,000	510	3.85"

RO-LIT FLAMESCENT™ C15 Candle Lamps

C15



RATED LIFE

• 6,000 hours

APPLICATIONS

- Sconces
- Post Lights
- Chandeliers Ceiling Fans
- Candlesticks Starbursts and Wall Fixtures
- Coach Lights For Indoor and Outdoor Use

FEATURES AND BENEFITS

- 2-year warranty
- (based on residential use only)

WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.**
25	MED	130	25 C15 FLAMESCENT DURO LITE	LS4024	30	6,000	155	4.48"
25	MED	130	25 C15 FLAMESCENT AMBER DURO LITE	LS4716	30	6,000	155	4.48"
40	MED	130	40 C15 FLAMESCENT DURO LITE	LS4057	30	6,000	310	4.48"
60	MED	130	60 C15 FLAMESCENT DURO LITE	LS4114	30	6,000	510	4.48"

DURO-LIT **E** SPARKELITE™ C11 Candle Lamps ·

C11

RATED LIFE

• 6,000 hours

APPLICATIONS

- Chandeliers
- Decorative Fixtures
- Display Fixtures

FEATURES AND BENEFITS

(based on residential use only)

• 2-year warranty

				ORDERING	OTY/	AVERAGE			
WATTS	BASE	VOLTS	DESCRIPTION	CODE	CASE	RATED LIFE	LUMENS	M.O.L.**	
25	CAND	130	25 C11 SPARKELITE DURO LITE	LS4029	30	6,000	155	3.85"	_
40	CAND	130	40 C11 SPARKELITE DURO LITE	LS4054	30	6,000	310	3.85"	
60	CAND	130	60 C11 SPARKELITE DURO LITE	LS4111	30	6,000	520	3.85"	

DURO-LITE SPARKELITE SPARKELITE

SPARKELITE™ C15 Candle Lamps

C15

RATED LIFE

• 6,000 hours

APPLICATIONS

- Chandeliers
- Decorative Fixtures
- Display Fixtures

FEATURES AND BENEFITS

• 2-year warranty

(based on residential use only)

				ORDERING	OTY/	AVERAGE			
WATTS	BASE	VOLTS	DESCRIPTION	CODE	CASE	RATED LIFE	LUMENS	M.O.L.**	
25	MED	130	25 C15 SPARKELITE DURO LITE	LS4026	30	6,000	155	4.48"	
40	MED	130	40 C15 SPARKELITE DURO LITE	LS4056	30	6,000	310	4.48"	
60	MFD	130	60 C15 SPARKELITE DURO LITE	LS4113	30	6 000	520	4.48"	

DURO-LITE CHIMA

CHIMNEY-LITE FLAMESCENT™ H19 Candle Lamps



RATED LIFE

• 6,000 hours

APPLICATIONS

- Sconces
 Post Lights
- Chandeliers Ceiling Fans
- Candlesticks Starbursts and Wall Fixtures
- Coach Lights For Indoor and Outdoor Use

FEATURES AND BENEFITS

- 2-year warranty
- (based on residential use only)

				ORDERING	OTY/	AVERAGE			
WATTS	BASE	VOLTS	DESCRIPTION	CODE	CASE	RATED LIFE	LUMENS	M.O.L.**	
75	MED	130	75 H19 CHIMNEY DURO LITE	LS4152	30	6,000	690	6.22"	
100	MFD	130	100 H19 CHIMNEY DURO LITE	LS4166	30	6.000	980	6.22"	

ICON AND TERMS GLOSSARY



Brand new product in production and will be available soon.



Product is certified by the Canadian Standards Association.



Product works with standard dimming circuits.



Item will be discontinued when inventory is depleted.



This lamp meets minimum Federal efficiency standards.



EEV Product meets requirements for Canadian Energy Efficiency Verification.



The lamp has earned the Energy Star designation, which meets the energy efficient guidelines set by the EPA and U.S. Department of Energy.



Product is Canadian Standards Association certified for U.S. and Canadian markets.



Green Seeds offer helpful information about how Litetronics products conserve natural resources and protect the environment.



Product has only 1mg of mercury.



New item introduced within the past year.



Product is Underwriters Laboratories listed.

"A"TYPE LAMP Designation of a light bulb's shape; standard residential incandescent lamps (the type most people use in their homes) are "A" style lamps.

ACCENT LIGHTING (a.k.a. Directional Light) Light directed to emphasize a particular object or draw attention to a part of the field of view.

ALTERNATING CURRENT (AC) Current that changes its direction of flow through a conductor, first going one way then the other. The usual rate is 60 alternations (60 times each way) per second.

AMALGAM An additive in compact fluorescent lamps that prevents the lamp from overheating. It is used in CFLs that operate in enclosed fixtures, recessed cans, or in wide temperature ranges. The amalgam also causes the lamp to have a longer warm-up time.

AMBIENT LIGHTING Lighting throughout an area that produces general illumination.

AMPERE (AMP) Unit for measuring the rate and flow of an electrical current.

ANSI CODE ANSI, the American National Standards Institute, offers voluntary standards for the physical, electrical, and performance characteristics of lamps, ballasts, luminaires, and other lighting and electrical equipment.

APPLICATION Also called "lighting application," it refers to the particular use to which the lamp is being put. (e.g. high-bay industrial application or retail lighting application.)

ARC A general term for a high intensity electrical discharge occurring between two electrodes in a gaseous medium, usually accompanied by the generation of heat and the emission of light.

ARC LAMP A light source containing an arc (see above). Also called a discharge lamp, or an arc discharge lamp.

ARC LENGTH In High Intensity Discharge lamps, this is the distance between the electrode tips, which represents the physical length of the electrical discharge.

ARC TUBE A quartz tube in which a current traverses a gas between two electrodes.

AVERAGE RATED LAMP LIFE A median value of life expectancy. The average rated life is determined by burning a group of lamps until 50% are still burning and 50% have burned out.

BAFFLE An opaque or translucent element that shields a light source from direct view at certain angles or absorbs unwanted light.

BALLAST A device used with electric-discharge lamps (fluorescent, mercury vapor, sodium vapor and other HIDs [High Intensity Discharge]) to obtain the necessary circuit conditions (voltage, current, and waveform) by controlling the flow of the electrical current.

BASE The part of a lamp that serves as a connection to the fixture by being inserted into the socket. There are many different sizes and styles of bases.

BAYONET A style of bulb base which uses keyways instead of threads to connect the bulb to the fixture base. The bulb is locked in place by pushing it down and turning it clockwise.

BEAM SPREAD (a.k.a. BEAM ANGLE) For reflector and PAR lamps, the total angle of the beam (in degrees) to where the intensity of the beam falls to 50% of the light value at the center of the beam.

BI-PIN BASE Any base with two metal pins for electrical contact. This is the typical base for a fluorescent tube of 1 to 4 feet in length. It consists of 2 prong contacts, which connect into the



fixture. Medium bi-pins are used with type T8 and T12 tubular fluorescent lamps, and miniature bi-pins are used for tubular T5 fluorescent lamps.

BLACKBODY A theoretical body used in the lighting industry as a standard for establishing "color" and spectral qualities of lamps. A perfect blackbody, when its temperature has risen to 3500°K, would give out light of a certain color; at 4500°K it would give a whiter color, and at 5500°K still a whiter color.

BRIGHTNESS Commonly used as a reference to the degree of apparent lightness of a surface-its brilliancy or concentration of candlepower; from an engineering perspective, brightness is a subjective measurement and should not be used (see luminance).

BULB The outer jacket or envelope of a lamp.

BULB DARKENING The darkening of an incandescent lamp bulb caused by small particles of tungsten that evaporate from the filament and deposit on the bulb wall.

BURNING POSITION The direction in which a lamp must be installed so it will operate properly. Universal Burn means a lamp can be in any position; other burning positions include Base Up, Base Down, or Horizontal.

CANDELA The international unit (SI) of luminous intensity of a light source in a given direction. A term from the early days of lighting that is still used today, it evaluated the intensity of light sources based on comparison to a standard candle of fixed size and composition.

CANDELABRA BASE An E12 screw-in style lamp base, 7/16" (12 mm) in diameter, that is commonly found on decorative lamps and used in decorative fixtures, such as ceiling fans and chandeliers.

CATHODE A cathode is an electrode in a linear fluorescent lamp that emits electrons to the cathode at the opposite end of the lamp to create light.

CATHODE GUARD A shield that goes around the cathode of a fluorescent lamp that reduces end darkening by shielding the evaporation of particles.

CENTER BEAM CANDLE POWER (C.B.C.P.) For reflector lamps, the light intensity (candelas) at the center, or maximum intensity, off the beam.

CHANNEL An enclosure containing the ballast, starter, lamp holders, and wiring for a fluorescent lamp, or a similar enclosure on which filament lamps (usually tubular) are mounted.

COLD CATHODE FLUORESCENT LAMP (CCFL) Cold cathode fluorescent is similar to normal fluorescent (or "hot cathode") in many respects. Unlike traditional fluorescent lamps, however, cold cathode lamps have the ability to dim fully to 5% of their light output. Cold cathode lamps can operate using as much as 85% less energy than comparable incandescent lamps and can last 20 times longer or more.

COLOR RENDERING INDEX (CRI) Because colors appear differently under different light sources, the Color Rendering Index (CRI) measures a lamp's ability to render colors most naturally. It measures the degree of color shift objects undergo when illuminated by a light source as compared with those same objects when illuminated by a reference source of comparable color temperature. CRI is measured on a scale of 0 to 100, with daylight being 100. Generally, the higher the CRI, the better the colors appear. The color rendering property of lamps is extremely important to many consumers, especially retail stores, museums, galleries, etc.

COLOR SPECTRUM All the radiant energy wavelengths that make human sight possible. The visible wavelengths include all colors and are measured in nanometers.

COMPACT FLUORESCENT LAMP (CFL) The general term applied to fluorescent lamps that are single-ended and have smaller diameter tubes that are bent to form a compact shape. With the exception of plug-in lamps, CFLs have integral ballasts for easy replacement of incandescent lamps.

CONTRAST The difference in brightness (luminance) of an object and its background.

COOL WHITE A term loosely used to denote a color temperature of around 4100K.

CORRELATED COLOR TEMPERATURE (C.C.T.) Describes the apparent color, or chromaticity, of a light source measured in degrees Kelvin (K). The higher the color temperature, the visually cooler, or bluer, the light appears. Typical color temperatures are: 2700K (incandescent), 4100K (cool white fluorescent), and 5000K (daylight fluorescent).

COST OF LIGHT A term typically used to describe the total cost for bringing light to a given area. The Cost of Light includes the cost of the electricity to power the bulb, the labor to change the bulb, and the cost of the bulb itself. On average, electricity makes up 88%, the labor 8%, and the bulb 4% of every dollar spent on lighting.

DEPARTMENT OF ENERGY (DOE) U.S. government agency which regulates energy-related issues.

DESCRIPTION The lamp's identifying description. It typically includes the lamp shape and size.

DIFFUSED LIGHTING Lighting on a work area or an object that does not come from one particular direction.

DIMMER A device used to control the intensity of light emitted by a luminaire by controlling the voltage or current available to it.

DIODE A device attached to a wire that reduces the influx current.

DIRECT CURRENT (DC) Electric current that flows continuously in only one direction from positive to negative.

DIRECT LIGHTING Lighting that distributes 90-100% of the emitted light in the general direction of the surface to be illuminated. The term usually refers to light emitted in a downward direction.

DISTRIBUTOR A company that sells a particular manufacturer's products to the consuming public.

DOUBLE CONTACT BAYONET BASE (DCB) A lamp base, commonly used by OEMs, with two side pins that lock the lamp into the fixture.

DOWNLIGHT A small, direct lighting unit which directs the light downwards and can be recessed, surface mounted, or suspended.

ECONOMIC LIFE The hours a group of lamps can burn before it is monetarily and aesthetically advisable to group re-lamp.

EFFICACY OR LUMINOUS EFFICACY A measurement of a lamp's ability to convert electrical power (watts) into visible light (lumens) and is expressed in terms of light output compared to the energy consumed.

EFFICIENCY An entire lighting system's quality of light output compared to the energy consumed.

ELECTRICAL DISCHARGE A condition under which a gas



becomes electrically conducting and capable of transmitting current, usually accompanied by the emission of radiation. An electric spark in air is an example of an electrical discharge.

ELECTROMAGNETIC BALLAST A ballast used with discharge lamps that consists primarily of transformer-like copper windings on a steel or iron core.

ELECTROMAGNETIC INTERFERENCE (EMI) High frequency electronic ballasts and other electronic devices can produce a small amount of radio waves which can interfere with radio and TV. Federally mandated requirements for EMI levels must be met before an electronic device is considered FCC compliant.

ELECTROMAGNETIC SPECTRUM A continuum of electric and magnetic radiation encompassing all wavelengths: visible, ultraviolet, and infra-red light.

ELECTRONIC BALLAST A short name for a fluorescent high frequency electronic ballast. Electronic ballasts use solid state electronic components and typically operate fluorescent lamps at frequencies in the range of 25-35 kHz. The benefits are increased lamp efficacy, reduced ballast losses, and lighter, smaller ballasts compared to electromagnetic ballasts. Electronic ballasts may also be used with HID (high intensity discharge) lamps.

EMISSION COATING An oxide coating deposited on a cathode that emits electrons when heated.

ENCLOSED-RATED HID An HID lamp that must be used in enclosed luminaires. These lamps are designated by ANSI as type-E.

END-DARKENING In linear fluorescent lamps, the evaporation of the tungsten in the cathode causes the end of the lamp to appear darker.

ENERGY AUDIT A formula which measures the current cost of lighting as compared to the cost of lighting with an upgraded system to show the money saved in energy costs.

ENERGY POLICY ACT (EPACT) The Energy Policy Act of 1992 mandated efficiency standards for many of the industry's most popular lamp types. It eliminated the production of certain inefficient lamps, established minimum energy efficacy standards, and outlined labeling laws for certain lamps.

ENERGY STAR Some lamps have earned the ENERGY STAR designation. They meet strict energy efficiency guidelines set by the EPA and the U.S. Department of Energy.

FILAMENT The threadlike tungsten wire that lights up when an electric current runs through it. The filament is what makes an incandescent lamp light up. There are different filament types, which are designated by a prefix letter that indicates whether the wire is straight (S), coiled (C), or coiled coil (CC) and a number to indicate the arrangement of the filament on the support.

FILL LIGHT Supplementary light that reduces shadows and

FINISH The color, or finish, on the glass shell or lens of the lamp. Typically clear, white, or frost.

FLICKER The periodic variation in light level caused by AC operation that can lead to strobe effects.

FLOOD A designation of a lamp's beam spread. A flood lamp produces a wider beam angle of light to illuminate a larger area.

FLUORESCENCE The emission of light as the result of the absorption of radiation of shorter wavelengths. Fluorescence occurs only while energy is being absorbed by the fluorescing material.

FLUORESCENT LAMP A low pressure mercury, electric discharge lamp in which a fluorescing coating (phosphors) transforms some of the ultraviolet energy into light. Fluorescent lighting produces many different color tones, ranging from cool to warm, and is more diffuse than other light sources, making it excellent for general lighting.

FLUX Continuous flow of luminous energy.

FOOTCANDLE (FC) The unit of illumination-one footcandle is one lumen per square foot.

GENERAL LIGHTING Lighting designed to provide a substantially uniform level of illumination throughout an area.

GLARE When light is brighter than the light to which the eyes are adapted to, it can cause a glare which is annoying, uncomfortable, and can lower visibility.

GLOBE A decorative lamp with a ball-shaped bulb that is used primarily in bathroom and kitchen fixtures.

GREEN LIGHT PROGRAM Initiated by the E.P.A. in 1991 to encourage companies to become Green Light allies by retrofitting their facilities with energy-efficient products. LITETRONICS is a Green Light ally.

GROUP RELAMPING Replacing an entire group of lamps at a specified time, even if all of them haven't burned out. This is the correct method for replacing HID lamps.

GU24 BASE A type of lamp base that has two pins that are 24 mm apart. GU24 bases were specially designed for energy efficient lamps, such as CFLs, to guarantee energy savings in a light fixture. Incandescent and halogen lamps are not manufactured with GU24 bases; therefore, a fixture with GU24 sockets can only accept energy efficient lamps.

HARD LIGHT Light that causes an object to cast a sharply defined shadow.

HIGH-BAY LIGHTING Lighting designed for (typically) industrial locations with a ceiling height of 25 feet and above.

HIGH INTENSITY DISCHARGE (HID) LAMP A general term for mercury, metal halide, high-pressure sodium, or xenon lamps. HID lamps contain compact arc tubes which enclose various gases and metal salts operating at relatively high pressures and temperatures.

HIGH OUTPUT (HO) A fluorescent lamp designed for use with an 800 milliampere ballast. These lamps usually operate at low temperatures near zero and still produce high quality light.

HIGH PRESSURE SODIUM (HPS) LAMPS A clear or coated highintensity discharge lamp in which light is produced by an electrical discharge through sodium vapor operating at relatively high pressures and temperatures. HPS lamps are highly efficient and produce a warm, golden color. They are commonly used to light large areas such as roadways, offices, shopping malls, reception areas, parks, and commercial and industrial areas.

HIGH VOLTAGE Voltage of 208 and higher.

HOT RESTART TIME The amount of time from a momentary power interruption to return to full light output.

HUE The attribute that determines whether a color is red, yellow, green, blue, etc.

IGNITOR A device that generates voltage pulses to start discharge lamps without preheating the electrodes.



ILLUMINANCE The density of light on a surface or lumens/area; measured in footcandles or lux.

INDIRECT LIGHTING Lighting an area with fixtures that distribute 90-100% of the light upward.

INFRA-RED Radiant energy with wavelengths of 770 to 1106 nanometers, which cannot be seen by the human eye but can be felt as heat on the skin. Applications include photography, industrial drying or baking, medical heat therapy, food heating, etc.

INITIAL LUMENS A measurement of a lamp's lumen output the moment the lamp is burned for the first time.

INSTANT START OR INSTANT RESTRIKE Refers to fluorescent lamps that start instantly without preheating the cathodes and without the need of starters. "Instant Start" lamps have coiled heat cathodes in contrast to "Cold Cathode" lamps. Both, however, start cold and instantly. A higher voltage ballast is required for instant start lamps than for pre-heat. "Instant Starts" differ from "rapid start" lamps and cannot be used in "rapid start" fixtures.

INTENSITY A shortening of the terms luminous intensity and radiant intensity. Often mistaken to mean level of illumination.

JUNCTION BOX A metal box in which circuit wiring is spliced to provide power to lighting fixtures without using an electrical circuit.

KELVIN TEMPERATURE (K) A unit of temperature starting from absolute zero, parallel to the Celsius (or Centigrade) scale. 0° C is 273° K. Kelvin temperature is used to indicate the comparative color appearance of a light source compared to a theoretical blackbody.

KEY LIGHT The apparent principal source of directional light falling upon a subject or area.

KILOWATT (KW) The measure of electrical power equal to 1000 watts.

KILOWATT HOUR (KWH) The standard measure of electrical energy and the typical billing unit used for electricity use. Example: A 100-watt lamp operated for 10 hours consumes 1000 watt-hours (100 x 10) or one kilowatt-hour. If the utility charges \$.10/kWh, then the electricity cost for the 10 hours of operation would be 10 cents (1 x \$.10).

KRYPTON A very heavy, inert gas which permits the filament in an incandescent lamp to glow hotter and brighter, while still providing long life.

LAMP The term used to refer to the complete light source package, including the inner parts as well the outer bulb or tube. "Lamp", of course, is also commonly used to refer to a type of small light fixture, such as a table lamp.

LAMP MATERIAL OR COATING The type of glass (or quartz) used in the glass envelope surrounding the light source. The material can also have coatings applied to achieve particular performances.

LENS A glass or plastic element used in fixtures and lamps to control the distribution of light rays. The lens is what makes a spot lamp's beam narrower and a flood lamp's beam wider.

LIFE TEST A test in which lamps are operated under a specified length of time for the purpose of obtaining information on lamp life.

LIGHT Radiant energy that can be sensed or seen by the human eye. Visible light is measured in lumens.

LIGHT CENTER (L.C.) The center of the smallest sphere that

would completely contain the light-emitting element of the lamp.

LIGHT CENTER LENGTH (L.C.L.) The distance between the center of the filament, or arc tube, and a reference plane - usually the bottom of the lamp base.

LIGHT LOSS FACTOR (FORMERLY CALLED MAINTENANCE FACTOR)

The ratio of illuminance for a given area to the value that would occur if lamps operated at their initial lumen output and if no system variation or depreciation has occurred.

LIGHT SOURCE COLOR The color of the light emitted by a source.

LITETRONICS WHITE LITETRONICS name for the 2250K color of MICRO-BRITE lamps.

LOCK-OUT BASE A compact fluorescent lamp base that has a small peg protruding from the end of it. Lock-out bases can work in standard fixtures and sockets; however, they are primarily used in sockets that have had a lock-out disk inserted into them.

LOCK-OUT DISK A small plastic disk that is inserted into sockets that will have lamps with lock-out bases inserted into them. The lock-out disk permanently converts sockets to work only with energy efficient CFLs.

LOUVER A frame fitted with slats or cross pieces (baffles) that covers an opening of a light fixture. The baffles can act to reduce glare from exposed lamps, shield the light source from view at certain angles, or reflect and direct light. They may also improve appearance of fixtures, although they sometimes reduce light output.

LOW PRESSURE SODIUM A discharge lamp in which light is produced by radiation from sodium vapor operating at a partial pressure of 0.1-1.5 Pa.

LUMEN (LM) The amount of light that is spread over a square foot of the surface by one candle when all parts of the surface are exactly one foot from the one-candle light source.

LUMEN DEPRICIATION As a lamp burns, the amount of light (lumens) produced slowly decreases. For example, in incandescent lamps, the evaporating tungsten gathers on the inside of the bulb wall, causing it to darken. This lets less light through, causing lumen depreciation.

LUMEN MAINTENANCE A measure of how well a lamp maintains its light output over time.

LUMINAIRE A complete lighting unit consisting of a lamp(s), ballast(s), and fixture as required together with the parts designed to distribute the light, position and protect the lamps, and connect them to the power supply.

LUMINAIRE EFFICIENCY The ratio of total lumens emitted by a luminaire to those emitted by the lamp(s) used.

LUMINANCE A complicated mathematical definition of photometric brightness involving the intensity and direction of light. Simply, luminance is the amount of light reflected or transmitted by an object.

LUX The SI unit of illuminance. One lux is one lumen per square meter (lm/m2).

MAINTENANCE FACTOR A factor used to calculate illuminance after a given period of time and under given conditions. It takes into account temperature and voltage variations, dirt accumulation on luminaire and room surfaces, lamp depreciation, maintenance procedures, and atmospheric conditions.



MAXIMUM OVERALL DIAMETER (M.O.D.) The width of a lamp at its widest point. Most lamp shapes denote the lamp's M.O.D., such as PAR38, in eighths of an inch. A PAR38 is 38 eighths of an inch long at its widest point. Spiral-shaped CFLs do not denote the lamp's M.O.D. in the lamp shape; therefore the M.O.D. must be listed separately.

MAXIMUM OVERALL LENGTH (M.O.L.) The length of a lamp from the top of the bulb to the bottom of the base.

MEAN LUMENS The average light output of a lamp over its rated life.

MEDIUM BASE A screw-in base, often referred to as a standard base because it is the most common. This is an E26 base, measuring 1" (26 mm) in diameter.

MEDIUM BI-PIN BASE A linear fluorescent lamp base characterized by a two-pin connection.

MERCURY VAPOR An HID lamp operating at a relatively high pressure and temperature in which the major portion of the light is produced by radiation from excited mercury vapor. Includes clear, phosphor-coated, and self-ballasted lamps. Phosphor-coated lamps add additional light and improve color rendering. Mercury lamps are the oldest of the HID family, and while not as energy efficient as other HID lamps, are commonly used where color rendering is not critical, especially in parking lot, roadway, security, and landscape lighting.

METAL HALIDE An HID light source in which the major portion of the light is produced by the radiation from mercury plus halides of metals such as sodium, scandium, indium, and dysprosium. Metal halide lamps tend to be very efficient and produce a crisp, white light with excellent color-rendering properties. They are commonly used in outdoor lighting installations such as floodlighting and sports stadium lighting, as well as indoors in retail stores, lobbies, and other commercial and public spaces.

METRIC CONVERSION To convert inches to millimeters use the formula: inches X 25.4001=millimeters.

MICRO-BRITE LITETRONICS trade name for a family of cold cathode compact fluorescent lamps.

MOGUL BASE An E39 screw base, 1 ½" (39 mm) in diameter used on larger lamps.

MR16 A line of low voltage compact reflector lamps used for accent and spot lighting. The 16 refers to 16 eighths of an inch diameter.

NANOMETER (NM) A unit of wavelength equal to 10-9 m.

NEOLITE LITETRONICS trade name for T2 compact fluorescent lamps with only one milligram of mercury.

OBJECT COLOR The color of the light reflected or transmitted by an object when illuminated by a standard light source.

O.E.M. Standard term for an Original Equipment Manufacturer. LITETRONICS has many O.E.M. customers who purchase our lamps to use as part of complete lighting systems that they manufacture.

OPEN-RATED HID An HID lamp that can be operated in open or enclosed luminaires. These lamps are designated by ANSI as type-O.

OPERATING CURRENT Current, in amps, consumed by a lamp at rated watts.

OPERATING TEMPERATURE Refers to the temperature of the environment around a lamp that may affect the operation of the lamp.

OPERATING VOLTAGE Voltage at rated watts after the lamp warms.

ORDERING CODE It is important to use this code when ordering to ensure that you receive the exact product you require.

PAR LAMP PAR is an acronym for parabolic aluminized reflector. The reflector, in a parabola shape, is aluminized to reflect the light and then covered with a lens to control the light beam. PAR lamps offer excellent beam control, come in a variety of beam patterns from narrow spot to wide flood, and can be used outdoors unprotected because they are made of "hard" glass that can withstand adverse weather.

PHOSPHOR An inorganic chemical compound processed into a powder and deposited on the inner glass surface of fluorescent tubes and some mercury and metal-halide lamp bulbs. Phosphors absorb short wavelength ultraviolet radiation and transform it into visible light.

PHOTOCELL An electronic device that uses light to regulate the flow of current in automatic control systems. When the photocell detects light, current is not allowed to flow and the lamp remains off. When the photocell does not detect light, current is allowed through and the lamp is turned on. Some photocells work as dimmers; the photocell will allow a variable amount of current to flow depending on how much light is detected. Other photocells work as total on/off switches.

PHOTOMETRY The measurement of quantities associated with light.

PHOTOPIC VISION One of the two types of vision utilized by the human eye. Photopic vision detects color and is used when the eye is exposed to light.

POWER FACTOR (PF) A measure of the phase difference between voltage and current drawn by an electrical device, such as a ballast or motor. Power factors can range from 0 to 1.0, with 1.0 being ideal. Power factor is sometimes expressed as a percent. Incandescent lamps have power factors close to 1.0 because they are simple "resistive" loads. The power factor of a fluorescent and HID lamp system is determined by the ballast used. "High" power factor usually means a rating of 0.9 or greater. A high power factor means an electrical system or device is utilizing power efficiently.

PREHEAT A fluorescent system that requires starters. With this type of system, several seconds of heating time is necessary between the time the circuit is turned on and the time the lamp produces light.

PULSE START An HID ballast with a high voltage igniter to start the lamp.

PURE WHITE LITETRONICS name for the 2850K color of MICRO-BRITE lamps.

QUALITY OF LIGHT Favorable distribution of light in a visual environment. It is determined by measuring visual performance, visual comfort, ease of seeing, safety, and aesthetics for the specific visual tasks involved.

QUANTITY PER CASE Number of product units packed in a master case.

R WARNING A federally mandated (Federal Standard 21 CFR 1040.3) warning which must be printed on all metal halide and mercury lamp packaging and catalogs because both lamps produce enough



ultraviolet radiation to cause negative biological effects.

RADIANT ENERGY Energy traveling in the form of electromagnetic waves. It is measured in units of energy such as joules, ergs or kilowatt hours.

RAPID START CIRCUIT A fluorescent system that does not require starters and usually requires 1 to 2 seconds to start. Current flows continuously through the electrodes, keeping them hot and electrons emissive.

RATED LAMP LIFE The point, in hours, where 50% of the lamps initially started will still be operating. Life may also be based on the average time before the lamp produces a certain amount of light.

RECESSED LIGHTING A fixture that has been built into the ceiling so that the bottom edge of the fixture is flush to the ceiling.

REFLECTION Light striking a surface is either absorbed, transmitted, or reflected. Reflected light bounces off of a surface. Specular reflection means the rays strike and leave the surface at equal angles. Diffuse reflection leaves a surface in all directions.

REFLECTOR LAMP A light source with a built-in reflecting surface.

RESTRIKE TIME Time needed to turn a lamp back on after the power fails.

RETROFITTING Upgrading a lighting system by replacing old fixtures, ballasts, and lamps with current and/or more efficient technology.

ROUGH SERVICE LAMPS New Litetronics trade name for 20,000-hour Super Service incandescent lamps.

SCOTOPIC VISION One of the two types of vision utilized by the human eye. Scotopic vision is adapted to the dark and does not detect different colors; it merely detects different light levels. Scotopic vision is also more sensitive to bluish light sources, such as 5000K, which explains why light sources with high Kelvin temperatures appear brighter to the human eye than light sources with lower Kelvin temperatures.

SELF-BALLASTED LAMPS A lamp in which the current-limiting device is built-in.

SIGN WHITE LITETRONICS name for the 2700K color of MICRO-BRITE lamps.

SOFT LIGHT Diffuse illumination that produces soft-edged, poorly defined shadows.

SPECTRAL POWER DISTRIBUTION (SPD) A graph of the radiant power emitted by a light source as a function of a wavelength.

SPEED OF LIGHT The speed of all radiant energy, including light: approximately 186,000 miles per second.

STARTER A starting switch needed for preheat fluorescent fixtures to "start" or light a lamp. It preheats the lamp cathodes and also provides a powerful electrical "kick" to jump the current through the lamp from cathode to cathode.

SURFACE MOUNTED A type of fixture that is mounted on some type of surface, such as on a wall or under a cabinet.

SUSPENDED Fixture that hangs down from the ceiling to bring the actual lamp part of the fixture closer to the surface to be illuminated.

TASK LIGHTING Lighting directed to a specific surface or area that provides illumination for visual tasks.

TCLP TEST Toxicity Characteristic Leaching Procedure test, specified in the Resource Conservation and Recovery Act (RCRA) of 1990, is used to characterize fluorescent lamp waste as hazardous or non-hazardous waste. The TCLP test measures the ability of the mercury and/or lead in a lamp to leach from a landfill into groundwater.

TORCHERE An indirect floor lamp that sends all or nearly all of its light upward.

TOTAL HARMONIC DISTORTION (THD) A measure of the distortion caused by ballasts and other inductive loads of the input current on alternating current (AC) power systems caused by higher order harmonics of the fundamental frequency (60Hz in North America). THD is expressed in percent and may refer to individual electrical loads (such as ballast) or a total electrical circuit or system in a building. ANSI C82.77 recommends THD not exceed 32% for individual commercial electronic ballasts, although some electrical utilities may require lower THDs on some systems. Excessive THDs on electrical systems can cause efficiency losses, as well as overheating and deterioration of system components.

TROFFER A long, recessed lighting unit, usually installed in an opening in the ceiling.

ULTRAVIOLET (UV) RADIATION Radiant energy of wavelengths shorter than the wavelengths of visible light. "Ultra" means beyond, so ultraviolet rays are beyond the violet end of the spectrum and, thus, beyond the range of sight. On the electromagnetic spectrum, UV radiation is within the wavelength range of 10-380.

UNDERWRITERS LABORATORIES (UL) A private organization which tests and lists electrical equipment for electrical and fire safety according to recognized UL and other standards.

UNIVERSAL BURN A notation indicating that a lamp can be burned base-up, base-down, or horizontally.

VALANCE LIGHTING Lighting from light sources on a wall typically above eye level, shielded by horizontal panels. The light may be upward or downward directed.

VOLT A measure of "electrical pressure" between two points. The higher the voltage, the more current will be pushed through a resistor connected across the points. The volt specification of an incandescent lamp is the electrical "pressure" required to drive it at its designed point. The "voltage" of a ballast (e.g. 277 V) refers to the line voltage it must be connected to.

VOLTAGE A measurement of the electromotive force in an electrical circuit or device expressed in volts. Voltage can be thought of as being analogous to the pressure in a waterline. Standard voltage in the U.S. is 110-120 (130 in some northwestern states). Standard voltage in Europe is 230-240.

WARM UP TIME The amount of time from turn-on to 90% light output.

WATT The unit of electrical power used by an electrical device during its operation. Lamps are rated in watts to indicate their power consumption; power consumed over time equals the electrical energy used. It is related to volts and amps by the following formula: watts = volts X amps.

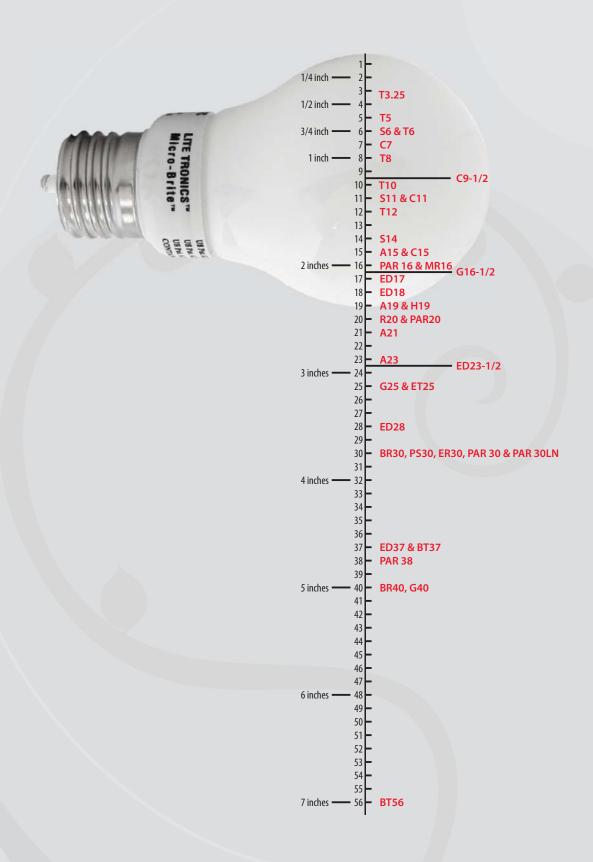
WAVELENGTH Commonly measured in units of micrometers, nanometers, or angstroms. It is the distance between two successive points of a periodic wave, in the direction of propagation, at which the oscillation has the same phase.



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LAMP SHAPE MEASUREMENT_



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