LITETRONICS®

INNOVATION. SIMPLIFIED.

2017 PRODUCT CATALOG

FIXTURES

RETROFITS

BULBS

Inside: New products and expanded features — Better lighting for better business.

A MESSAGE FROM THE CEO

Litetronics is committed to providing you innovative, energy efficient lighting that provides long-term value and quality. This catalog includes many recently introduced products.

In the last year, we also took significant steps to improve our total service.

We installed a new ERP system, providing many ways to streamline our business and improve our service.

To accelerate the development and launch of new and innovative lighting products, we increased our product design and quality control groups. We also strengthened our territory coverage, marketing and customer service.

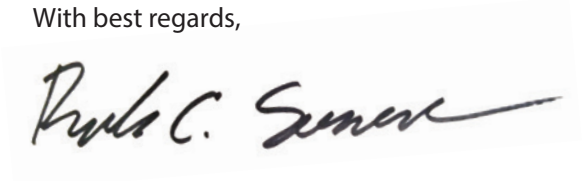
In July, we moved into a new headquarters/warehouse in Bedford Park, IL that is bigger and better suited to our growing operations.

The 2017 catalog shows a variety of new and enhanced lighting products. As you read this we are working hard on a next generation of lighting products and applying our new resources in ways that will make Litetronics easier to work with.

To keep pace with all these changes, I encourage you to stay close to our Regional Sales Reps, our partners and distributors and to regularly visit our website, Litetronics.com. These are the best sources of information on our latest developments.

Lastly and most importantly, I would like to thank you for your business and support through this exciting period of change. We are focused on delivering you even better lighting solutions and also on ensuring that they are simple to design-in and use. Our company is focused exclusively on lighting products, as we have been since we started our business. We go to work each day with the goal to make ours a long and prosperous business relationship.

With best regards,



Robert C. Sorensen
CEO
Litetronics International, Inc.

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CATALOG INFORMATION:

The information and product specifications contained in this catalog are based upon data believed to be accurate at the time of printing. This information is subject to change without notice and without incurring liability. If you have questions regarding specific product details, please contact us at 1-800-860-3392 or via email at customerservice@litetronics.com.

LITETRONICS®

INNOVATION. SIMPLIFIED.

Creating better solutions — Since 1970

Since our founding, we've focused on finding innovative ways to make lighting that is easier to use, better looking, longer lasting and more efficient. So, as the industry has evolved, we have as well.

Our persistent commitment to the customer experience drives us to develop quality solutions that are easy to order as well as install. And as technology changes, we'll still be here, focusing on bringing you truly unique solutions for your lighting needs.

Local service — Strong support

Our customers are served by an established network of lighting experts, including local stocking distributors and valued partners. All are supported by our strong regional sales and customer service teams and backed by a deeply involved management group. Our shared goal is to deliver best-in-class technical service and value.

Better online tools — Improved experience

Just as Litetronics aims to develop innovative lighting, we strive to continually make it easier for you to select the best options for your needs. The new Litetronics.com provides invaluable functionality and easy navigation from any device. For an overview of our website, view the catalog's inside back cover or simply visit www.litetronics.com. You will see — we've designed the tools and resources to ensure the lighting you get will look and work just as you expected it would.

Our guiding purpose — Superior service

Litetronics operates with a passion that carries through our entire team, through our improving systems, our support team and our ongoing investments in resources. We stand behind our decades of experience and reputation for world-class engineering and quality. Customer support is as important to us as our technology. If you see an opportunity to improve, please reach out. We want your input. It helps us in moving forward with refined solutions to better meet all your lighting needs.

HOMESTEAD HIGH SCHOOL

MEQUON, WISCONSIN

Upgraded with LED Round High Bays and TLED's

LED LOW BAYS & HIGH BAYS

LINEAR & ROUND

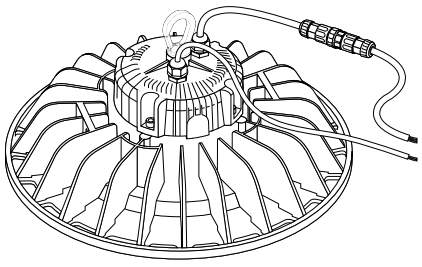
Litetronics offers a growing range of LED Low Bay and High Bay products, from compact IP 65 and NSF qualified round High Bays to our new Linear Low Bay and High Bay fixtures.

LED High Bays provide a significant upgrade over your Metal Halide or HPS fixtures. They offer a better CRI and longer lasting, more consistent light.

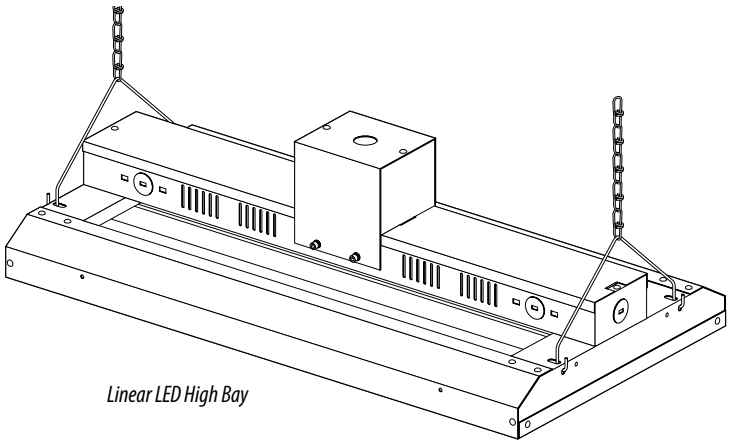
Once you upgrade to our lighting, you will realize immediate energy savings and a light improvement all will notice. And since all our Instant Bright High Bays are usable with dimming switches and proximity sensors, you can further extend the daily savings and the life of our products by minimizing "On" time.

Our LED Low/High Bay line have been among the fastest growing segments of our product offering, and we have more products in development. Visit our website regularly to see what we are introducing and the various case studies that demonstrate our products in use across different industries.

SHAPES



Round LED High Bay



Linear LED High Bay

THE IMPACT OF LONG LIFE, HIGH QUALITY LIGHT

Better light = Better experience

Our LED Round High Bays improve the experience for everyone in your facility. Strong Center Beam Candle Power (CBCP) and a higher CRI produce better, more natural color rendering. That means products and labels are easier to read, healthcare facilities are brighter and blue dresses actually look blue.

Traditional Metal Halide (Before)

LED High Bay installation (After)

Better quality means better visibility

Check out the advantages of the Litetronics High and Low Bays.

TRADITIONAL METAL HALIDE	LITETRONICS® LED ROUND HIGH BAYS	LITETRONICS® LINEAR HIGH BAY
		
Light depreciation 70% over 10,000 hours	100,000 hour rated life	100,000 hour rated life
Toned, off-color light; 65 Color Rated Index	High 84 Color Rated Index	High 80 Color Rated Index
No Dimming	Full dimming and proximity sensing	Full dimming and proximity sensing
1-5 minute warm up/Longer restrike	Instant Bright	Instant Bright
Separate screen protection for bulb	Durable shatter-proof polycarbonate lens option	Protective screen for Low Bays
1-2 year warranty	10 year warranty	10 year warranty

Excellent value and a strong, long lasting lumens/watt ratio.

CIRCULAR HIGH BAY				LINEAR HIGH/LOW BAY			
WATTS		LUMENS	LUMENS/WATT	WATTS		LUMENS	LUMENS/WATT
125	=	16,000	128	75	=	9,800	130
185	=	24,000	129	185	=	24,000	129
220	=	29,000	131	320	=	41,600	130

ROUND LED HIGH BAY

Quick and easy installation for a variety of locations

The Litetronics waterproof LED High Bay makes it easy to improve your lighting installation and your ease of maintenance. Our standard glass lens products are IP 65 rated and can be used indoors or out for direct and indirect lighting. 5.75" tall, under 16" wide and only 16-18 lbs, they are easy to install and hang by hand.

SIMPLE, EASY INSTALLATION

- Aligns with pre-existing circular HID mounting layouts to maintain original aesthetics
- Multi-setting yoke for application flexibility
- Direct and indirect lighting

RUGGED BUT SLEEK

- Contemporary look and feel
- Tough aluminum cast housing
- Shatterproof polycarbonate lens (Optional)
- Indoor/outdoor
- Lightweight/compact

EFFICIENT, HIGH-QUALITY LIGHT

- Uses half the energy of metal halides; two-thirds of T5 fluorescents
- Higher lumen/watt ratio than most other LED high bays
- Uniform, circular light distribution
- Direct/Indirect lighting

RATED IP65–WATERPROOF

- Ideal for pools and outdoor applications
- Easy spray rinse cleaning
- Optional corrosion-resistant coating for harsh chemical environments

ENERGY-OPTIMIZING FEATURES

- Integrated 0-10 low-voltage dimming
- Easy-mount sensors for proximity detection and daylighting
- Sensors available in IP 20 and IP 65

NSF QUALIFIED

- Certified to meet public health and safety standards
- Qualified for use in food industry applications
- Universally recognized

ROUND LED HIGH BAY

MARKETS	APPLICATIONS
Retail Warehouse Industrial Gyms Transit Facilities	Wall Wash Down Light

FEATURES

NSF/ANSI 2 · INSTANT bright · MERCURY FREE · UV FREE

MADE IN THE USA

AVAILABLE

Clear Glass 0-10V Dimming Specifications

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.D.[1]	HIGH BAY LUMENS*	C.B.C.P.[2]
A	125	120-277	125W 16" BLK LED HB 120-277V GCL 4000K 0-10V DIM	[4] HB125B440DL	4000	84	15.75"	16,000	5402
A	125	120-277	125W 16" BLK LED HB 120-277V GCL 5000K 0-10V DIM	[4] HB125B450DL	5000	84	15.75"	16,000	5402
A	185	120-277	185W 16" BLK LED HB 120-277V GCL 4000K 0-10V DIM	[4] HB185B440DL	4000	84	15.75"	24,000	7848
A	185	120-277	185W 16" BLK LED HB 120-277V GCL 5000K 0-10V DIM	[4] HB185B450DL	5000	84	15.75"	24,000	7848
A	220	120-277	220W 16" BLK LED HB 120-277V GCL 4000K 0-10V DIM	[4] HB220B440DL	4000	84	15.75"	29,000	9086
A	220	120-277	220W 16" BLK LED HB 120-277V GCL 5000K 0-10V DIM	[4] HB220B450DL	5000	84	15.75"	29,000	9086

Frosted Glass 0-10V Dimming Specifications

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.D.[1]	HIGH BAY LUMENS*	C.B.C.P.[2]
A	125	120-277	125W 16" BLK LED HB 120-277V GFR 4000K 0-10V DIM	[4] HB125B140DL	4000	84	15.75"	15,000	4753
A	125	120-277	125W 16" BLK LED HB 120-277V GFR 5000K 0-10V DIM	[4] HB125B150DL	5000	84	15.75"	15,000	4753
A	185	120-277	185W 16" BLK LED HB 120-277V GFR 4000K 0-10V DIM	[4] HB185B140DL	4000	84	15.75"	22,000	6906
A	185	120-277	185W 16" BLK LED HB 120-277V GFR 5000K 0-10V DIM	[4] HB185B150DL	5000	84	15.75"	22,000	6906
A	220	120-277	220W 16" BLK LED HB 120-277V GFR 4000K 0-10V DIM	[4] HB220B140DL	4000	84	15.75"	26,000	7995
A	220	120-277	220W 16" BLK LED HB 120-277V GFR 5000K 0-10V DIM	[4] HB220B150DL	5000	84	15.75"	26,000	7995

Polycarbonate lens material is available upon request

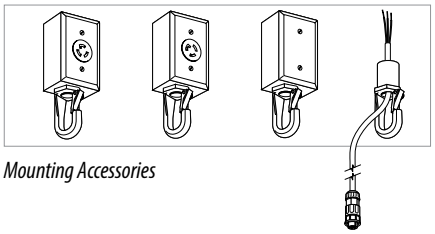
[1] Maximum Overall Diameter [2] Center Beam Candle Power

* Based on Photometric testing consistent with IES LM-79 testing; Lumens will vary based on diffuser and fixture.

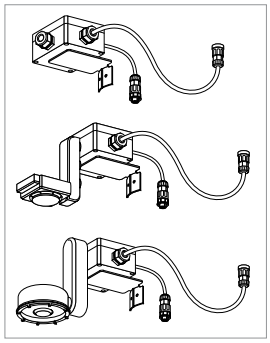
[4] Listed by the The DesignLights Consortium® (DLC 4.1) as a high quality, high efficiency LED product for the commercial sector.

ROUND LED HIGH BAY ACCESSORIES

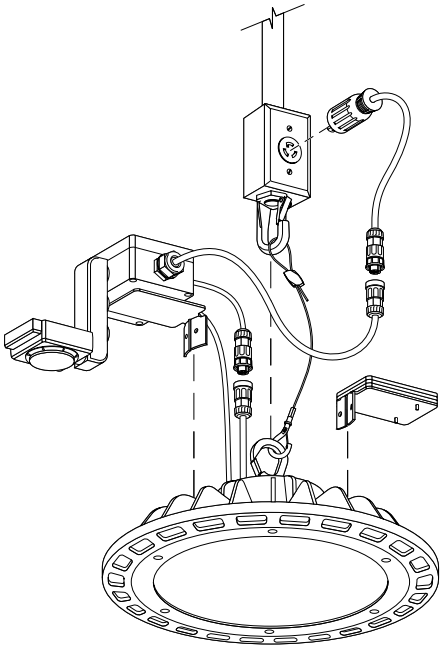
ACCESSORY OVERVIEW

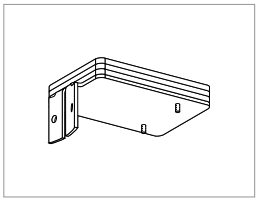


Mounting Accessories

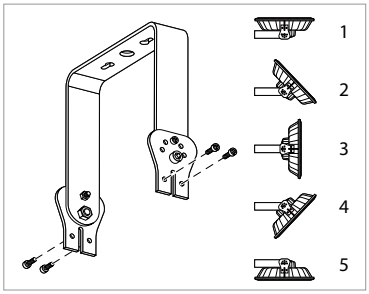


IP 20 and IP 65 Sensor & Junction Accessories





Counter Weight for Sensor Application



Yoke Mounting for Wall Wash and Angle Mounts

Mounting Accessories

IMAGE	DESCRIPTION	ORDERING CODE	ACCESSORY USE
A	ROUND HOOK 24X42X60 M10	HBAM20	Used with 125W High bay instead of standard Snap hook.
B	ROUND HOOK 29X49X69 M12	HBAM21	Used with 185 & 220W High bay instead of standard Snap hook.
C	9" X 9" ALUMINUM SWIVEL YOKE BRACKET BLACK	HBAM22	Yoke bracket to help aim light at any angle. (5 settings)
D	9" X 9" ALUMINUM SWIVEL YOKE BRACKET WHITE	HBAM23	Yoke bracket to help aim light at any angle. (5 settings)
E	125V SOCKET HUB & JUNCTION BOX 3/4" SNAPHOOK	HBAM26	Connects to NEMA L5-15 plug. Cable can be passed through top of socket hub via hole in snaphook. Used to connect High Bay cable to conduit—3/4" threaded pipe.
F	277V SOCKET HUB & JUNCTION BOX 3/4" SNAPHOOK	HBAM27	Connects to NEMA L7-15 plug. Cable can be passed through top of socket hub via hole in snaphook. Used to connect High Bay cable to conduit—3/4" threaded pipe.
G	PASS THRU JUNCTION BOX WITH 3/4" SNAPHOOK	HBAM28	Opening at top and bottom allow for internal connecting of cable and provide mechanical fixturing support. Top hole includes 3/4" threaded pipe.
H	FIXTURE HOOK WITH 3/4" PIPE ADAPTER	HBAM31	Connects direcly to conduit via 3/4" threaded pipe, providing fixturing support.
I	5' SAFETY CABLE WITH CABLE LOCK AND SNAP LOCK HOOK	HBAM30	5' cable with snap hook and adjustable cable lock to set length.

ROUND LED HIGH BAY ACCESSORIES


A


B


C

Sensor & Junction Accessories

IMAGE	MAX VOLTAGE	CURRENT CAPACITY	DESCRIPTION	ORDERING CODE	ACCESSORY USE
A	120-347V	4.32-8.33A	PIR MOTION SENSOR IP 20 WITH JUNCTION BOX	HBAS40	WattStopper HBP-112 High Bay Passive Infrared (PIR) Occupancy Sensors provide control of individual LED High Bay. Includes preconnected junction box.
B	120-277V	7-10.5A	PIR MOTION SENSOR IP 65 WITH JUNCTION BOX	HBAS41	WattStopper HB350W-L3 and HB350W-L4 High Bay Passive Infrared (PIR) Occupancy Sensors for Wet Locations consist of a sensor and lens module and preconnected junction box.
C			JUNCTION BOX WITH BRACKET	HBAJ60	Mounted directly on High Bay. Serves as a connection hub for sensor mount. Good for wet location. All cords can be easily connected.


E F G H I J K

Cord Accessories

IMAGE	MAX VOLTAGE	CURRENT CAPACITY	DESCRIPTION	ORDERING CODE	ACCESSORY USE
E	120V	15A	15A 120V L5-15P PLUG 5' BLK CORD WP TWIST CONNECT	HBAC25	For 120 volts application. This NEMA L5-15P Plug - twist connects with L5-15R receptacle. Other end easily connects with twist connect of High Bay
F	277V	15A	15A 277V L7-15P PLUG 5' BLK CORD WP TWIST CONNECT	HBAC21	For 277 volts application. This NEMA L7-15P Plug - twist connects with L7-15R receptacle. Other end easily connects with twist connect of High Bay
G	120-277V	15A	15A 120-277V 3 WIRES 10' BLK CORD WP TWIST CONNECT	HBAC05	For 120V or 277 volts application. Cord is 10' long. Length helps to install High bay away from power. 3 wires connected to junction box. Other end connects with twist connect of High Bay
H	120-277V	15A	15A 120-277V 3 WIRES 10' WHT CORD WP TWIST CONNECT	HBAC06	For 120V or 277 volts application. Cord is 10' long. Length helps to install High bay away from power. 3 wires connected to junction box. Other end connects with twist connect of High Bay
I	120V	15A	15A 120V L5-15P PLUG 10' BLK CORD WP TWIST CONNECT	HBAC15	For 120 volts application. NEMA L5-15P Plug - twist connects with L5-15R receptacle. Other end easily connects with twist connect of High Bay
J	277V	15A	15A 277V L7-15P PLUG 10' BLK CORD WP TWIST CONNECT	HBAC17	For 277 volts application. NEMA L7-15P Plug - twist connects with L7-15R receptacle. Other end easily connects with twist connect of High Bay
K	120V	15A	15A 120V 5-15P PLUG 5' BLK CORD WP TWIST CONNECT	HBAC23	For 120 volts application. This NEMA 5-15P Plug - connects with 5-15R receptacle. Other end easily connects with twist connect of High Bay

Counter Weight Accessories

IMAGE	DESCRIPTION	ORDERING CODE	ACCESSORY USE
L	COUNTER WEIGHT WITH BRACKET FOR SENSOR ACCESSORIES	HBAW70	This counter weight provides balance to the High Bay fixture after junction box or sensor accessories have been installed.


L

LINEAR LED LOW & HIGH BAY

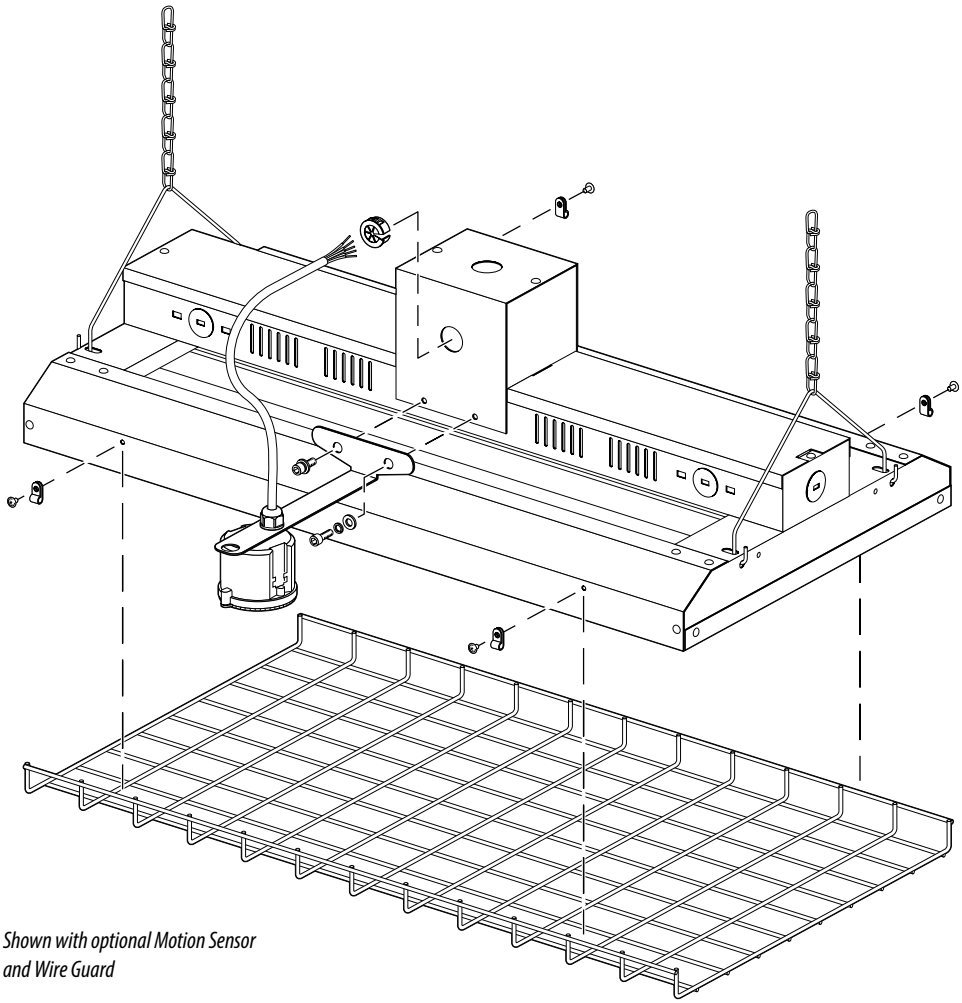
The Litetronic family of linear LED Low and High Bay fixtures includes 75, 110, 140, 185 and 320 watt models. The products are all DLC premium, and offer ratings of 130 lumens/watt or higher.

Standard with 0-10 volt dimming, the new series offers easy-attach sensor options for daylighting and motion sensoring. While the 75-185 watt models are designed for universal 120-277V applications, the 320 watt High Bay model is also available upon request with a 480V driver for heavy-duty industrial installations.

The fixtures come with a frosted lens and offer large lighting surfaces that make them ideal for upgrading T5 HO fluorescents. The instant-bright fixtures eliminate all ballast issues and last many times longer than fluorescents, making them a very attractive solution for high ceiling installations where maintenance is difficult and expensive. Compared to traditional HID lighting, our Low and High Bay fixtures offer longer life and avoid the slow warm up and 3-5 minute restrike time that make space management difficult with traditional HID lighting.

All the Low/High Bay Linear fixtures are delivered with chain hangers and hooks as well as a junction box with knock-outs and a power cord to enhance user convenience and ease of installation. Wire guards are a standard option for the 140 and 185 watt products. They are available in other wattages upon request.

- 100,000 hour rated life
- 10 year warranty
- 0-10- dimming.
- CRI : 80
- Operating temp : -4° to 104°
- Instant bright
- Polycarbonate diffuser lens



Shown with optional Motion Sensor and Wire Guard

LINEAR LED LOW & HIGH BAY

MARKETS	APPLICATIONS
Hospitality Hospitals Offices Restaurants Retail Schools	Retail Floor Corridor Lighting Task Area Cove Lighting

FEATURES

INSTANT bright · MERCURY FREE · UV FREE

Linear Low Bay

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	LUMENS*
A	75	120-277	75W WHT LED LB 120-277V PCFR 4000K 1-10V DIM	[4] LLB075UK240DL	4000	80	23.82″	12.60″	9,800
A	75	120-277	75W WHT LED LB 120-277V PCFR 5000K 1-10V DIM	[4] LLB075UK250DL	5000	80	23.82″	12.60″	9,800

Linear High Bay

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	LUMENS*
A	110	120-277	110W WHT LED HB 120-277V PCFR 4000K 1-10V DIM	[4] LHB110UK240DL	4000	80	23.82″	12.60″	14,300
A	110	120-277	110W WHT LED HB 120-277V PCFR 5000K 1-10V DIM	[4] LHB110UK250DL	5000	80	23.82″	12.60″	14,300
B	140	120-277	140W WHT LED HB 120-277V PCFR 5000K 1-10V DIM	[4] LHB140UM250DL	5000	80	23.82″	17.32″	18,200
B	185	120-277	185W WHT LED HB 120-277V PCFR 4000K 1-10V DIM	[4] LHB185UM240DL	4000	80	23.82″	17.32″	24,000
B	185	120-277	185W WHT LED HB 120-277V PCFR 5000K 1-10V DIM	[4] LHB185UM250DL	5000	80	23.82″	17.32″	24,000
C	320	120-277	320W WHT LED HB 120-277V PCFR 4000K 1-10V DIM	[4] LHB320UP240DL	4000	80	45.87″	17.32″	41,600
C	320	120-277	320W WHT LED HB 120-277V PCFR 5000K 1-10V DIM	[4] LHB320UP250DL	5000	80	45.87″	17.32″	41,600

Accessories

IMAGE	VOLTS	DESCRIPTION	ORDERING CODE	ACCESSORY USE
D		LINEAR HIGH BAY WIRE GUARD 2′ X 1.5′	LHBAGM	This wire guard for low/high bay luminaires in warehouses, retail, or industrial buildings where lamp protection is needed. For 140W and 180W products only.
E	120-277V	LINEAR HIGH BAY KIT MOTION SENSOR IP65 1-10V DIM	LLBAS51	Microwave motion sensor, IP65, 1-10V and rating 400W@120Vac, 800W@220-277Vac (inductive) and HF system 5.8GHz±75MHz, ISM wave band. For indoor use only.

[1] Maximum Overall Length [2] Maximum Overall Width [3] Center Beam Candle Power

[4] Listed as premium by the The DesignLights Consortium® (DLC 4.1) as a high quality, high efficiency LED product for the commercial sector.

* Based on Photometric testing consistent with IES LM-79 testing; Lumens will vary based on diffuser and fixture.

LED RETROFITS

FOR FLUORESCENT FIXTURES

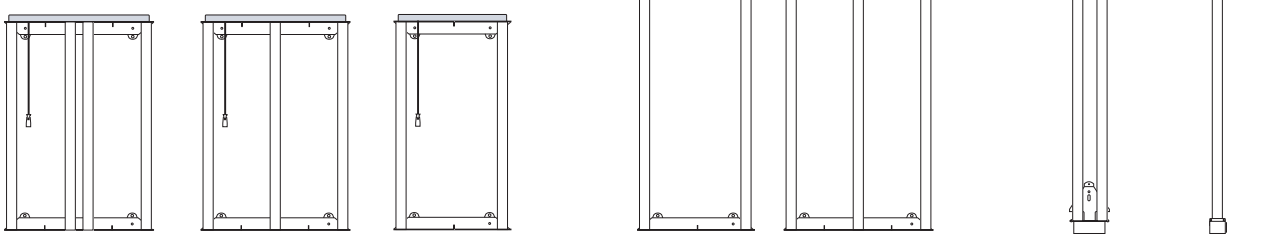
Improve light quality, simplify installation, save energy and preserve fixture appearance.

Converting your fluorescent lights to LED has never been easier. Our patented RetroFit is a fully integrated kit for 120-277 volt applications. Powerful rare earth magnets secure it into place, freeing your hands to complete a quick installation. There's no ballast. There are no separate tubes, and very few parts. In fact, your installation can be done in less than 3 minutes.

Once our RetroFit is installed, you'll experience consistent and even light (83 Color Rated Index) across all fixtures for 85,000 hours, or about 20 years of 11.5 hours/day use. All that time you will be saving up to 60% on energy costs over your fluorescent lighting. Additionally, when wired for dimming, daylight harvesting or proximity sensors, you may further extend your savings and the life of the RetroFits.

SHAPES

Our RetroFit kits are produced for all types of strip, wrap or troffer fixtures.



INNOVATING FOR EASE

Powerful magnets make for fast, hands free installation

There's simply nothing else quite like this feature on the market. Once our RetroFit is lifted into place, the magnets hold to the top of the fixture, so you can use both hands to quickly finish the installation.

Remove

- Turn off the power
- Unscrew existing fluorescent tubes
- Remove ballast cover
- Disconnect ballast and cut wires near sockets. Leave sockets in place

Secure

- Place the RetroFit into position (Magnets up)
- Align as needed. Magnets will hold the kit in place
- Secure RetroFit with self-tapping screws

Connect

- Attach the quick connect to the incoming electrical line
- Cover wires and connection with provided magnetic junction box

Finish

- Secure cover with self-tapping screws
- Apply included spec labels to the fixture
- Close cover
- Restore power

"The quality is amazing...and I've never seen a product that goes in as quickly and as easily."

— Roger Goecks
Lakeshore Middle School

LED RETROFIT 1'X4'

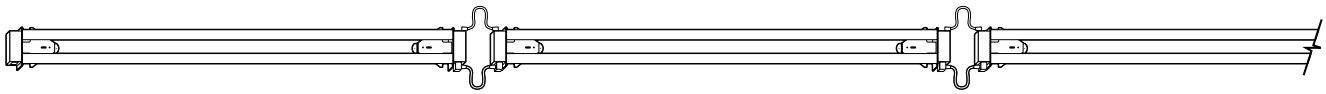
MARKETS	FIXTURES
Hospitals Schools Office Retail	Troffers Strips Wraps

FEATURES

INSTANT bright · UV FREE · MERCURY FREE

Litetronics has simplified the job of retrofitting strip fixtures. The 1'x4' direct-connect and dimmable RetroFits are well suited for upgrades in single units and 8' fixtures as well as the long line assemblies used in cove and factory lighting. From a single source, our 16 and 32 Watt RetroFits can be directly connected to each other with dimming as well as power lines. All can be daisy-chained using the direct jumpers as well as 8" or 4' cables (See accessories page).

- Simple install
- No need to break into the ceiling plenum
- Usable with Litetronics 23 Watt battery back-up
- Universal 120-277V driver
- 85,000-hour rated life
- 7-year warranty



With the ability to Daisy Chain, cover much more ground from one power source. You can directly connect long lines of dimmable 1'x4' LED RetroFit. How long? Up to 284'.

WATTS	DAISY CHAIN	LENGTH W/ DIRECT CONNECT	LENGTH W/ 8" CORD	LENGTH W/ 4' CORD
16	36	144'	167'	284'
32	18	72'	83'	140'
45	12	48'	55'	92'

1-Tube Connectable

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
A	16	120-277	16W 1X4-1 LED RF QC 3500K	[4] RF16UQT135C	3500	83	46.5"	1.75"	2,200	1,725
A	16	120-277	16W 1X4-1 LED RF QC 4000K	[4] RF16UQT140C	4000	83	46.5"	1.75"	2,200	1,725
A	16	120-277	16W 1X4-1 LED RF QC 5000K	[4] RF16UQT150C	5000	83	46.5"	1.75"	2,200	1,725

1-Tube 0-10V Dimmable Connectable

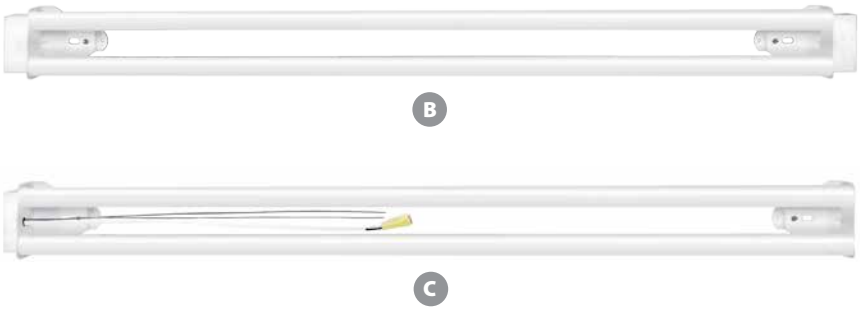
IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
A	16	120-277	16W 1X4-1 LED RF QC 3500K DIM	[4] RF16UQT135CDL	3500	83	46.5"	1.75"	2,200	1,725
A	16	120-277	16W 1X4-1 LED RF QC 4000K DIM	[4] RF16UQT140CDL	4000	83	46.5"	1.75"	2,200	1,725
A	16	120-277	16W 1X4-1 LED RF QC 5000K DIM	[4] RF16UQT150CDL	5000	83	46.5"	1.75"	2,200	1,725

[1] Maximum Overall Length [2] Maximum Overall Width

[4] Listed by the The DesignLights Consortium® (DLC 4.1) as a high quality, high efficiency LED product for the commercial sector.

* Based on Photometric testing consistent with IES LM-79 testing; Lumens will vary based on diffuser and fixture.

LED RETROFIT 1'X4'



MARKETS	FIXTURES
Hospitals Schools Office Retail	Troffers Strips Wraps

FEATURES

INSTANT bright · UV FREE · MERCURY FREE

2-Tube Connectable

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
B	32	120-277	32W 1X4-2 LED RF QC 3500K	[4] RF32UQT135C	3500	83	46.5"	4"	4,400	3,450
B	32	120-277	32W 1X4-2 LED RF QC 4000K	[4] RF32UQT140C	4000	83	46.5"	4"	4,400	3,450
B	32	120-277	32W 1X4-2 LED RF QC 5000K	[4] RF32UQT150C	5000	83	46.5"	4"	4,400	3,450
B	45	120-277	45W 1X4-2 LED RF QC 3500K	[4] RF45UQT135C	3500	83	46.5"	4"	6,300	4,800
B	45	120-277	45W 1X4-2 LED RF QC 4000K	[4] RF45UQT140C	4000	83	46.5"	4"	6,300	4,800
B	45	120-277	45W 1X4-2 LED RF QC 5000K	[4] RF45UQT150C	5000	83	46.5"	4"	6,300	4,800

2-Tube Hardwire

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
B	32	120-277	32W 1X4-2 LED RF HW 4000K	[4] RF32UHT140	4000	83	46.5"	4"	4,400	3,450
B	45	120-277	45W 1X4-2 LED RF HW 4000K	[4] RF45UHT140	4000	83	46.5"	4"	6,300	4,800

2-Tube 0-10V Dimmable Connectable

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
B	32	120-277	32W 1X4-2 LED RF QC 3500K DIM	[4] RF32UQT135CDL	3500	83	46.5"	4"	4,400	3,450
B	32	120-277	32W 1X4-2 LED RF QC 4000K DIM	[4] RF32UQT140CDL	4000	83	46.5"	4"	4,400	3,450
B	32	120-277	32W 1X4-2 LED RF QC 5000K DIM	[4] RF32UQT150CDL	5000	83	46.5"	4"	4,400	3,450

2-Tube 0-10V Dimmable

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
C	32	120-277	32W 1X4-2 LED RF QC 4000K DIM	[4] RF32UQT140DL	4000	83	46.5"	4"	4,400	3,450

[1] Maximum Overall Length [2] Maximum Overall Width

[4] Listed by the The DesignLights Consortium® (DLC 4.1) as a high quality, high efficiency LED product for the commercial sector.

* Based on Photometric testing consistent with IES LM-79 testing; Lumens will vary based on diffuser and fixture.

LED RETROFIT 2'X2'

MARKETS	APPLICATIONS
Hospitals Schools Office Retail	Troffers Wrap

FEATURES

INSTANT bright · UV FREE · MERCURY FREE

2-Tube

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
A	22	120-277	22W 2-2X2 LED RF QC 3500K	[4] RF22UQT235	3500	83	21"	11.25"	2,975	2,375
A	22	120-277	22W 2-2X2 LED RF QC 4000K	[4] RF22UQT240	4000	83	21"	11.25"	2,975	2,375
A	22	120-277	22W 2-2X2 LED RF QC 5000K	[4] RF22UQT250	5000	83	21"	11.25"	2,975	2,375

3-Tube

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
B	32	120-277	32W 3-2X2 LED RF QC 3500K	[4] RF32UQT235	3500	83	21"	14.8"	4,300	3,450
B	32	120-277	32W 3-2X2 LED RF QC 4000K	[4] RF32UQT240	4000	83	21"	14.8"	4,300	3,450
B	32	120-277	32W 3-2X2 LED RF QC 5000K	[4] RF32UQT250	5000	83	21"	14.8"	4,300	3,450

4-Tube

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
C	52	120-277	52W 4-2X2 LED RF QC 3500K	[4] RF52UQT235	3500	83	21"	14.8"	7,000	5,600
C	52	120-277	52W 4-2X2 LED RF QC 4000K	[4] RF52UQT240	4000	83	21"	14.8"	7,000	5,600
C	52	120-277	52W 4-2X2 LED RF QC 5000K	[4] RF52UQT250	5000	83	21"	14.8"	7,000	5,600

3-Tube 0-10V Dimming

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
D	32	120-277	32W 3-2X2 LED RF QC 3500K DIM	[4] RF32UQT235DL	3500	83	21"	14.8"	4,300	3,450
D	32	120-277	32W 3-2X2 LED RF QC 4000K DIM	[4] RF32UQT240DL	4000	83	21"	14.8"	4,300	3,450
D	32	120-277	32W 3-2X2 LED RF QC 5000K DIM	[4] RF32UQT250DL	5000	83	21"	14.8"	4,300	3,450

3-Tube Bi-Level Switching

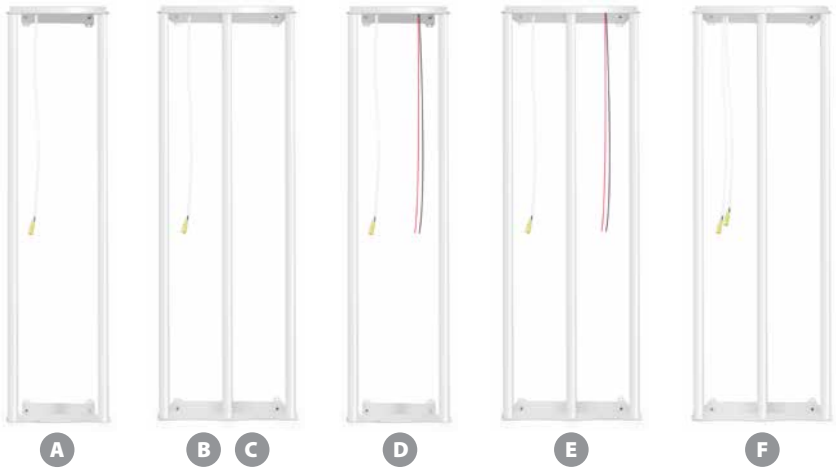
IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.	RETROFIT LUMENS*	LUMINAIRE LUMENS*
E	32	120-277	32W 3-2X2 LED RF QC 3500K BI-LEVEL	[4] RF32UQT235B	3500	83	21"	14.8"	4,300	3,450
E	32	120-277	32W 3-2X2 LED RF QC 4000K BI-LEVEL	[4] RF32UQT240B	4000	83	21"	14.8"	4,300	3,450
E	32	120-277	32W 3-2X2 LED RF QC 5000K BI-LEVEL	[4] RF32UQT250B	5000	83	21"	14.8"	4,300	3,450

[1] Maximum Overall Length [2] Maximum Overall Width

[4] Listed by the The DesignLights Consortium® (DLC 4.1) as a high quality, high efficiency LED product for the commercial sector.

* Based on Photometric testing consistent with IES LM-79 testing; Lumens will vary based on diffuser and fixture.

LED RETROFIT 2'X4'



MARKETS	APPLICATIONS
Hospitals Schools Office Retail	Troffers Wrap

FEATURES

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2-Tube and 3-Tube

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
A	32	120-277	32W 2-2X4 LED RF QC 3500K	[4] RF32UQT435	3500	83	44.5"	11.25"	4,150	3,450
A	32	120-277	32W 2-2X4 LED RF QC 4000K	[4] RF32UQT440	4000	83	44.5"	11.25"	4,150	3,450
A	32	120-277	32W 2-2X4 LED RF QC 5000K	[4] RF32UQT450	5000	83	44.5"	11.25"	4,150	3,450
B	50	120-277	50W 3-2X4 LED RF QC 3500K	[4] RF50UQT435	3500	83	44.5"	14.8"	6,500	5,400
B	50	120-277	50W 3-2X4 LED RF QC 4000K	[4] RF50UQT440	4000	83	44.5"	14.8"	6,500	5,400
B	50	120-277	50W 3-2X4 LED RF QC 5000K	[4] RF50UQT450	5000	83	44.5"	14.8"	6,500	5,400

2-Tube and 3-Tube 0-10V & 120V Dimming

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
C	50	120	50W 3-2X4 LED RF QC 3500K DIM	RF50AQT435D	3500	83	44.5"	14.8"	6,500	5,400
C	50	120	50W 3-2X4 LED RF QC 4000K DIM	RF50AQT440D	4000	83	44.5"	14.8"	6,500	5,400
C	50	120	50W 3-2X4 LED RF QC 5000K DIM	RF50AQT450D	5000	83	44.5"	14.8"	6,500	5,400
D	32	120-277	32W 2-2X4 LED RF QC 3500K DIM	[4] RF32UQT435DL	3500	83	44.5"	14.8"	4,150	3,450
D	32	120-277	32W 2-2X4 LED RF QC 4000K DIM	[4] RF32UQT440DL	4000	83	44.5"	14.8"	4,150	3,450
D	32	120-277	32W 2-2X4 LED RF QC 5000K DIM	[4] RF32UQT450DL	5000	83	44.5"	14.8"	4,150	3,450
E	50	120-277	50W 3-2X4 LED RF QC 3500K DIM	[4] RF50UQT435DL	3500	83	44.5"	14.8"	6,500	5,400
E	50	120-277	50W 3-2X4 LED RF QC 4000K DIM	[4] RF50UQT440DL	4000	83	44.5"	14.8"	6,500	5,400
E	50	120-277	50W 3-2X4 LED RF QC 5000K DIM	[4] RF50UQT450DL	5000	83	44.5"	14.8"	6,500	5,400

3-Tube Bi-Level Switching

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	CCT (K)	CRI	M.O.L.[1]	M.O.W.[2]	RETROFIT LUMENS*	LUMINAIRE LUMENS*
F	50	120-277	50W 3-2X4 LED RF QC 3500K BI-LEVEL	[4] RF50UQT435B	3500	83	44.5"	14.8"	6,500	5,400
F	50	120-277	50W 3-2X4 LED RF QC 4000K BI-LEVEL	[4] RF50UQT440B	4000	83	44.5"	14.8"	6,500	5,400
F	50	120-277	50W 3-2X4 LED RF QC 5000K BI-LEVEL	[4] RF50UQT450B	5000	83	44.5"	14.8"	6,500	5,400

[1] Maximum Overall Length [2] Maximum Overall Width

[4] Listed by the The DesignLights Consortium® (DLC 4.1) as a high quality, high efficiency LED product for the commercial sector.

* Based on Photometric testing consistent with IES LM-79 testing; Lumens will vary based on diffuser and fixture.

23 WATT LED EMERGENCY BATTERY BACKUP

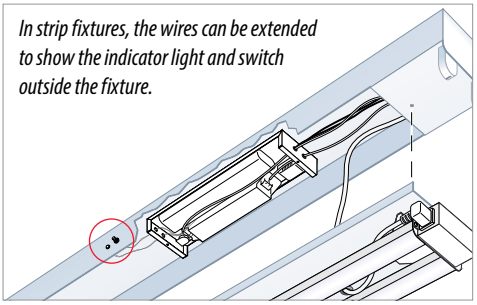
MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Hospitals	Troffers Strips

FEATURES

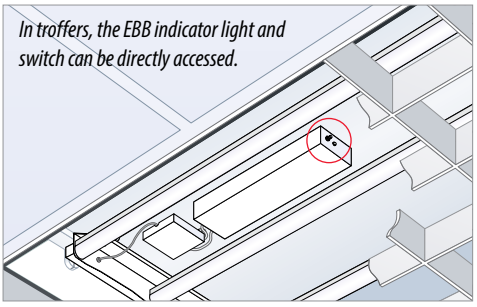
MERCURY FREE

The patented EB23UQ LED Emergency Battery Backup (EBB) enables our 0-10V Dimmable LED RetroFit kits for use in emergency situations. In a power failure, the LED EBB automatically switches on. The unit provides 100 lumens/watt or up to 2300 lumens for 90 minutes without light degradation. Lumen output is determined by the wattage of the RetroFit kit. The field programmable EBB unit contains a battery, charger and a driver module in a single compact design. Powerful, rare earth magnets secure the LED EBB to the fixture, freeing the installers hands for easy installation.

- Meets or exceeds all NEC and LSC Emergency Lighting Requirements for ceiling heights up to 23 feet
- Usable with all 0-10V dimmable Litetronics LED RetroFits, and non-dimmable units up to 22 watts
- No light degradation for 90-minute runtime
- Can be mounted up to 20 feet from the RetroFit kit
- 5 Year Limited Warranty
- UL 924 listed for USA and Canada



Emergency Battery Backup mounted inside fixture



Emergency Battery Backup mounted in troffer

Emergency Battery Backup

IMAGE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	COMPATIBLE WITH
A	23	120-277	23W 120-277V WH QC EMERGENCY BATTERY BACKUP	EB23UQ	1	50,000	LED RETROFITS
	-	12	EMERGENCY BATTERY REPLACEMENT 4500MAH 12V	EBA45-12V	1	50,000	EB23UQ

EB23UQ COMPATIBILITY CHART*

COMPATIBLE W/ ALL 0-10V DIMMABE RETROFITS		NON-DIMMABLE LTI RETROFITS UNDER 23W
RF32UQT2XXDL	RF50UQT4XXDL	RF16UQT1XXC **
RF32UQT4XXDL	RF16UQT1XXCDL	RF22UQT2XX
RF32UQT1XXDL	RF32UQTCDL	

* Check Litetronics.com for the latest compatability updates.

** Item cannot be used in Daisy Chain application. Can only be used to backup individual unit.

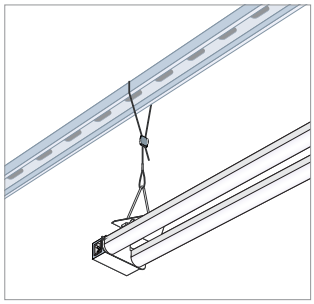
LED RETROFIT ACCESSORIES

A

B

C

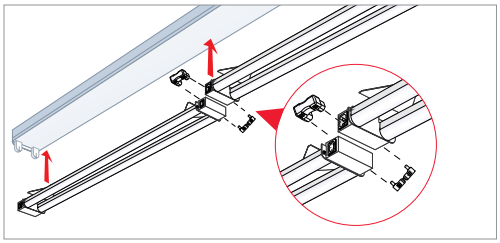
D



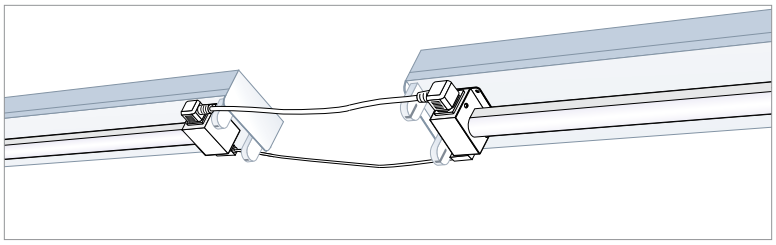
RetroFit Suspension Kit (D) shown in operation

RetroFit Accessories

IMAGE	DESCRIPTION	ORDERING CODE	FEATURES & BENEFITS
A	STANDARD RETROFIT JUNCTION BOX *	RFAJBS-1	PROVIDES EXTRA SPACE FOR ELECTRICAL WIRING WHEN NEEDED
B	LARGE RETROFIT JUNCTION BOX	RFAJBL	PROVIDES EXTRA SPACE FOR ELECTRICAL WIRING WHEN NEEDED
C	20MM BI-METAL HOLE SAW INCLUDING ARBOR - WHITE *	RFAHS-20	DRILL A 20MM HOLE THROUGH METAL FOR ELECTRICAL WIRING OF RETROFIT
D	RETROFIT SUSPENSION KIT (5FT CABLES) *	RFAXPVL5	READY-TO-USE KIT FOR SUSPENDING RETROFIT FOR STANDALONE USE



RetroFit power (G) and dimming (H) connectors shown in operation



8" RetroFit power (F) and dimming (J) connector cables shown in operation

E

F

G

H

I

J

Connecting Accessories for power and dimming

IMAGE	DESCRIPTION	ORDERING CODE	FEATURES & BENEFITS
E	4'- RETROFIT LAMP TO LAMP EXTENSION-WHITE *	RFAC-4FT	POWER CABLE FOR RETROFITS UP TO 4' APART.
F	8"- RETROFIT LAMP TO LAMP EXTENSION-WHITE *	RFAC-8IN	POWER CABLE FOR RETROFITS UP TO 8" APART
G	RETROFIT DUAL CONNECTOR - WHITE *	RFAC	MOLDED POWER JUMPER CONNECTS RETROFITS END-TO-END
H	RETROFIT 0-10V CONNECTING SERIES - WHITE *	RFALVC	0-10V DIMMER JUMPER CONNECTS RETROFITS END-TO-END
I	4' - RETROFIT 0-10V CONNECTING SERIES - WHITE *	RFALVC-4FT	0-10V DIMMER CABLE FOR RETROFITS UP TO 4' APART
J	8" - RETROFIT 0-10V CONNECTING SERIES - WHITE *	RFALVC-8IN	0-10V DIMMER CABLE FOR RETROFITS UP TO 8" APART

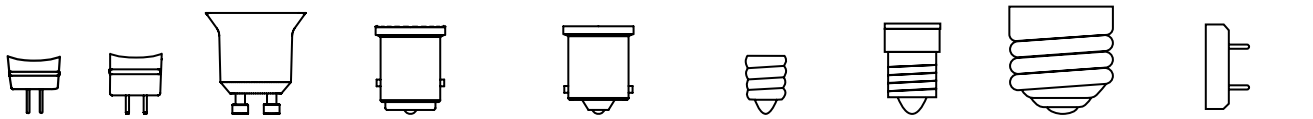
* Accessory applies to 1' x 4' RetroFit only.

LED

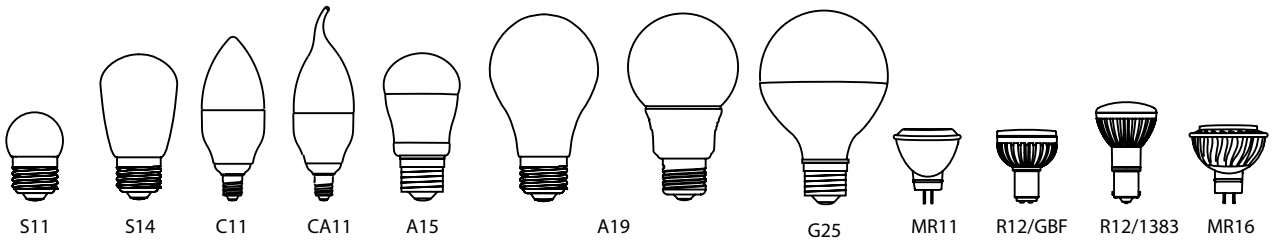
LIGHT EMITTING-DIODE

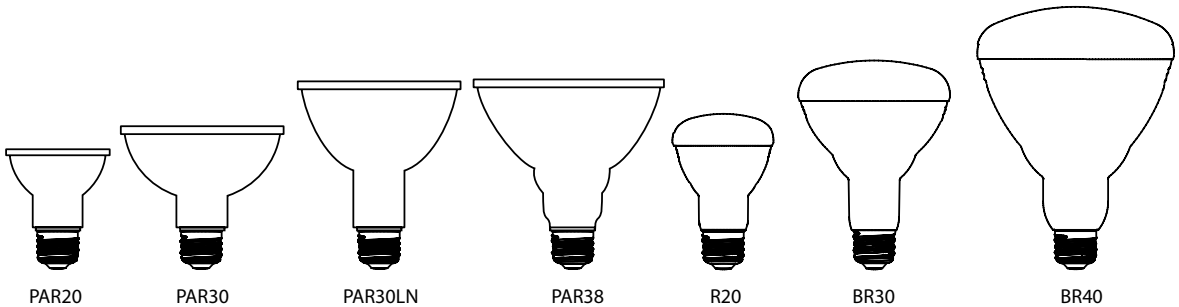
LIGHT BULBS

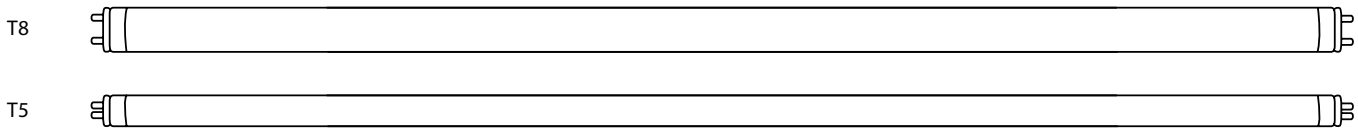
BASES



SHAPES



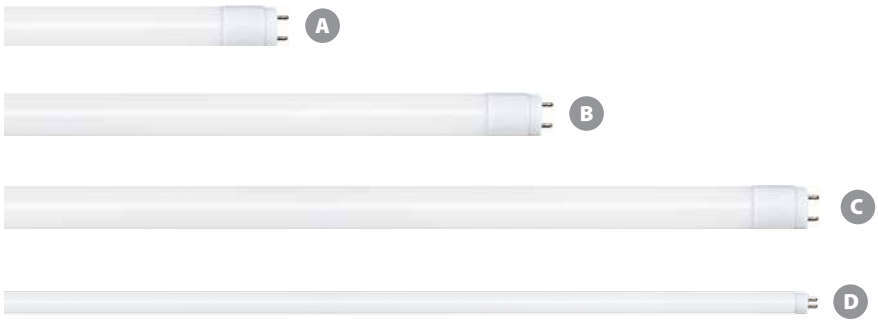




LED T8 & T5 BALLAST COMPATIBLE LAMPS

Litetronics LED T8 and T5 plug & play lamps work with most ANSI approved instant start and program start fluorescent ballasts. Enjoy significant energy savings as well as maintenance free operation for up to 50,000 hours by just replacing your old fluorescents with our new LED plug & play lamps.

- 330 degree beam angle
- 50,000 hour life
- 47% energy savings vs. standard T8 fluorescent
- Maintains original fixture UL certification
- Warrantied for 5 years when used with normal & low ballast factor ballasts



MARKETS	APPLICATIONS
Restaurants Hospitals Retail Schools Warehouse	Strip Light Fixtures Wraps Cove Lighting

FEATURES

INSTANT bright · MERCURY FREE · UV FREE

CONVERSION CHART

LED		T8 Fluorescent
8 watts	=	17 watts
9 watts	=	18 watts
10.5 watts	=	25 watts
11.5 watts	=	25 watts
14 watts	=	32 watts
15 watts	=	32 watts
18 watts	=	32 watts

LED T8 Ballast Compatible

IMAGE	WATTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	QTY/ CASE	AVERAGE RATED LIFE	CRI	LUMENS	CCT (K)	M.O.L.[1]
A	8	8W LED T8 2FT	[4] LT08T82835	330°	25	50,000	83	1200	3500	24"
A	8	8W LED T8 2FT	[4] LT08T82840	330°	25	50,000	83	1200	4000	24"
A	8	8W LED T8 2FT	[4] LT08T82850	330°	25	50,000	83	1200	5000	24"
B	10.5	10.5W LED T8 3FT	LT10ET83835	330°	25	50,000	83	1400	3500	36"
B	10.5	10.5W LED T8 3FT	LT10ET83840	330°	25	50,000	83	1400	4000	36"
B	10.5	10.5W LED T8 3FT	LT10ET83850	330°	25	50,000	83	1400	5000	36"
C	11.5	11.5W LED T8 4FT	[4] LT11ET84835	330°	25	50,000	83	1800	3500	48"
C	11.5	11.5W LED T8 4FT	[4] LT11ET84840	330°	25	50,000	83	1800	4000	48"
C	11.5	11.5W LED T8 4FT	[4] LT11ET84850	330°	25	50,000	83	1800	5000	48"
C	15	15W LED T8 4FT	[4] LT15T84835	330°	25	50,000	83	2200	3500	48"
C	15	15W LED T8 4FT	[4] LT15T84840	330°	25	50,000	83	2200	4000	48"
C	15	15W LED T8 4FT	[4] LT15T84850	330°	25	50,000	83	2200	5000	48"

LED T5 Ballast Compatible

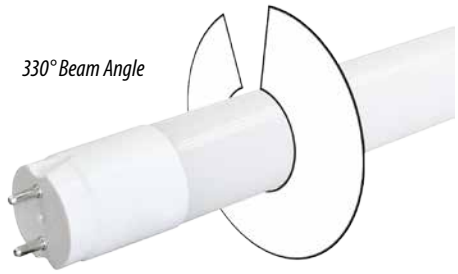
IMAGE	WATTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	QTY/ CASE	AVERAGE RATED LIFE	CRI	LUMENS	CCT (K)	M.O.L.[1]
D	25	25W LED T5 4FT	[4] LT25T54835	330°	25	50,000	83	3500	3500	45.8"
D	25	25W LED T5 4FT	[4] LT25T54840	330°	25	50,000	83	3500	4000	45.8"
D	25	25W LED T5 4FT	[4] LT25T54850	330°	25	50,000	83	3500	5000	45.8"

[1] Maximum Overall Length

[4] Listed by the The DesignLights Consortium® (DLC 4.1) as a high quality, high efficiency LED product for the commercial sector.

LED T8 BYPASS LAMPS

Litetronics ballast bypass TLEDs run directly on line voltage, eliminating the ballast, and any ballast compatability issues. They also eliminate the power loss caused by the ballast, as well as maintenance issues related to ballast life. Shaped for existing linear fixtures, they are fused for overload protection. The tubes offer 330 degree light output and frosted glass for optimal light diffusion. Rated for 50,000 hours and with a 5 year warranty, they offer over twice the life and a significant energy upgrade over ballasted fluorescent lights.



LED T8 Bypass Single Ended

The 2' and 4' single end ballast bypass LED lamps reduce wire bulk. Fused against overload, the drivers are integrated within the end cap, providing strong thermal grounding. Designed to meet UL specifications 1598 and 1598B, the single ended Bypass TLEDs protect from shock when touching both ends.

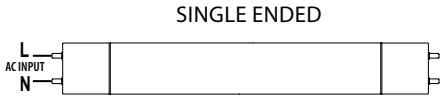


IMAGE	WATTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	QTY/ CASE	AVERAGE RATED LIFE	CRI	LUMENS	CCT (K)	M.O.L.[1]
A	9	9W LED T8 2FT BYPASS SINGLE END	[4] LT09T82835B1	330°	25	50,000	83	1150	3500	24"
A	9	9W LED T8 2FT BYPASS SINGLE END	[4] LT09T82840B1	330°	25	50,000	83	1150	4000	24"
A	9	9W LED T8 2FT BYPASS SINGLE END	[4] LT09T82850B1	330°	25	50,000	83	1150	5000	24"
C	18	18W LED T8 4FT BYPASS SINGLE END	[4] LT18T84835B1	330°	25	50,000	83	2200	3500	48"
C	18	18W LED T8 4FT BYPASS SINGLE END	[4] LT18T84840B1	330°	25	50,000	83	2200	4000	48"
C	18	18W LED T8 4FT BYPASS SINGLE END	[4] LT18T84850B1	330°	25	50,000	83	2200	5000	48"

LED T8 Bypass Double Ended

The 14 Watt Double Ended Ballast bypass TLED offers 128 lpw and no potential ballast loss.

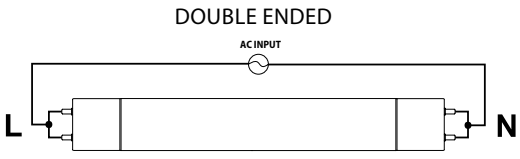


IMAGE	WATTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	QTY/ CASE	AVERAGE RATED LIFE	CRI	LUMENS	CCT (K)	M.O.L.[1]
C	14	14W LED T8 4FT BYPASS DOUBLE END	[4] LT14T84835B2	330°	25	50,000	83	1800	3500	48"
C	14	14W LED T8 4FT BYPASS DOUBLE END	[4] LT14T84840B2	330°	25	50,000	83	1800	4000	48"
C	14	14W LED T8 4FT BYPASS DOUBLE END	[4] LT14T84850B2	330°	25	50,000	83	1800	5000	48"

[4] Listed by the The DesignLights Consortium® (DLC 4.1) as a high quality, high efficiency LED product for the commercial sector.

[1] Maximum Overall Length

LED BR/R PROFESSIONAL SERIES

The LED BR/R Professional Series sleek design and frosted lens look just like incandescents — no unsightly metal and no harsh "hot spots" in the lens. They work on most dimmers and are tested for seamless, flicker-free dimming. With reflector lamps, brightness is especially critical, and LED BR/R Professional Series match the lumen output of a 65, 85, or 120-watt incandescent bulb, with 87% less energy. LED BR/R Professional Series is everything you want in an LED Reflector, without the heavy weight.

- Dimmable
- Instant-On, Instant-Bright
- 3-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Cinemas	Recessed Cans Track Lighting

FEATURES

DIMMABLE · INSTANT bright · MERCURY FREE · FREE UV FREE

CONVERSION CHART

LED		Incandescent
8 watts	=	65 watts
12 watts	=	85 watts

A B

R20

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM SPREAD	BEAM ANGLE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
A	8	MED	120	8W R20 MED 120V FL	*LP08546FL2D-1	FLOOD	110°	6	25,000	83	2700	550	3.8"	207

BR30

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM SPREAD	BEAM ANGLE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
B	12	MED	120	12W BR30 MED 120V FL	LP12550FL2D-1	FLOOD	110°	6	25,000	83	2700	850	5.11"	110
B	12	MED	120	12W BR30 MED 120V FL	*LP12550FL6D-1	FLOOD	110°	6	25,000	83	4000	925	5.11"	300

* Energy Star Archived V1.0 · Energy Star Qualified V2.0 · [1] Maximum Overall Length · [2] Center Beam Candle Power

LED SIGNLIGHT

Our LED SignLight light bulbs are UL Wet Location rated for indoor or outdoor use. LED technology means both a longer life and a savings of more than 90% versus incandescents. Our LED SignLights are professionally flash tested through a rigorous process — flashed over 1 million times — to ensure they offer the long-lasting, reliable performance you've come to expect from us.

- Flashable
- 25,000-50,000 hour life
- Over 90% energy savings compared to incandescent
- UL Wet for indoor/outdoor use
- 3-year warranty

MARKETS	APPLICATIONS
Casinos Theaters	Marquees Signs Perimeter Lighting

FEATURES

WEATHER RESISTANT · FLASHABLE · INSTANT bright · MERCURY FREE · UV FREE

S11

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
A	1	INT	120	1W S11 INT 120V CL	LD01312CL2	25	CLEAR	25,000	83	2700	50	2.4"
B	1	MED	120	1W S11 MED 120V CL	LD01512CL2	25	CLEAR	25,000	83	2700	50	2.4"
C	1	INT	120	1W S11 INT 120V WH	LD01312WH2	25	WHITE	25,000	83	2700	50	2.4"
D	1	MED	120	1W S11 MED 120V WH	LD01512WH2	25	WHITE	25,000	83	2700	50	2.4"
E	1	INT	120	1W S11 INT 120V CR	LD01312CR	25	RED	25,000	-	-	-	2.4"
F	1	MED	120	1W S11 MED 120V CR	LD01512CR	25	RED	25,000	-	-	-	2.4"
G	1	INT	120	1W S11 INT 120V CY	LD01312CY	25	YELLOW	25,000	-	-	-	2.4"
H	1	MED	120	1W S11 MED 120V CY	LD01512CY	25	YELLOW	25,000	-	-	-	2.4"
I	1	INT	120	1W S11 INT 120V CB	LD01312CB	25	BLUE	25,000	-	-	-	2.4"

[1] Maximum Overall Length

LED SIGNLIGHT

MARKETS	APPLICATIONS
Casinos Theaters	Marquees Signs Perimeter Lighting

FEATURES

WEATHER RESISTANT · FLASHABLE · INSTANT bright · MERCURY FREE · UV FREE

CONVERSION CHART

LED		Incandescent
1 watts	=	11 watts
1.5 watts	=	15 watts
2.5 watts	=	25 watts

S14

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
A	1.5	MED	120	1.5W S14 MED 120V CL	LD1E514CL1	25	CLEAR	25,000	83	2400	75	3.35"
B	1.5	MED	120	1.5W S14 MED 120V CL	LD1E514CL2	25	CLEAR	25,000	83	2700	90	3.35"
C	1.5	MED	120	1.5W S14 MED 120V WH	LD1E514WH2	25	WHITE	25,000	83	2700	85	3.35"
D	1.5	MED	120	1.5W S14 MED 120V CR	LD1E514CR	25	RED	25,000	-	-	-	3.35"
E	1.5	MED	120	1.5W S14 MED 120V CY	LD1E514CY	25	YELLOW	25,000	-	-	-	3.35"
F	1.5	MED	120	1.5W S14 MED 120V CB	LD1E514CB	25	BLUE	25,000	-	-	-	3.35"

A19

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
G	1.5	MED	120	1.5W A19 MED 120V CL	LD1E518CL2-1	10	CLEAR	25,000	83	2700	90	4"
H	2.5	MED	120	2.5W A19 MED 120V FR	LD2E518FR2	10	FROST	50,000	83	2700	150	4"

[1] Maximum Overall Length

LED A-LINE

The LED A-line is ideal for most general purpose lighting applications. The A15 makes an excellent choice for ceiling fans, ceiling fixtures or appliances. It also offers shatterproof construction, and smooth, even dimming capability.

- Dimmable
- Instant-On, Instant-Bright
- Meets ANSI specifications; fits in standard fixtures
- 3-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitaliy Retail Cinemas	Appliances General Lighting Wall Sconces Table and Floor Lamps Dimmable Fixtures

FEATURES

DIMMABLE · INSTANT bright · MERCURY FREE · UV FREE

CONVERSION CHART

LED		Incandescent
5 watts	=	25 watts

A

A15

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
A	5	MED	120	5W A15 MED 120V FR DIM	LD05516FR4D	10	FROST	25,000	83	3000	325	3.35"

[1] Maximum Overall Length

[2] Center Beam Candle Power

LED OMNI PROFESSIONAL SERIES

The Omni Professional Series A19 LED bulbs replace 40-60 watt incandescent bulbs and deliver an 80% energy savings. An omni-directional bulb, they produce, even, comfortable light output in all directions.

Their light distribution pattern is perfect for table lamps, chandeliers, sconces, and other applications where proper lighting is critical. Without bulky heatsinks or unsightly fins, their sleek design resembles incandescent. Litetronics LED Omni Professional Series shines savings in all directions.

- Dimmable
- 25,000 hour life
- Up to 80% energy savings compared to incandescent equivilent
- 305° beam angle
- 3-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitaliy Retail Cinemas	Appliances General Lighting Wall Sconces Table and Floor Lamps Dimmable Fixtures

FEATURES

OMNI DIRECTIONAL · DIMMABLE · INSTANT bright · MERCURY FREE · FREE UV FREE

CONVERSION CHART

LED		Incandescent
7 watts	=	40 watts
10 watts	=	60 watts

A

A19

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
A	7	MED	120	7W A19 MED 120V WH DIM	*LM07518WH2D-1	10	WHITE	25,000	83	2700	470	4.4"
A	10	MED	120	10W A19 MED 120V WH DIM	LM10518WH2D	10	WHITE	25,000	83	2700	800	4.4"

* Energy Star Archived V1.0 · Energy Star Qualified V2.0 · [1] Maximum Overall Length

LED PAR

Litetronics LED PARs use LED chip-on-board (COB) technology which results in consistent color, and a centrally-located light source that looks like halogen. With our enhanced optics lens, they provide comfortable, glare-free lighting. Litetronics demanding dimming criteria ensures they dim, flicker-free on a wide variety of dimmers. They feature an ultra-lightweight heatsink that optimizes heat management and provides maximum reliability.

- Chip-on-board (COB) technology
- 30,000-hour life
- 3-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Cinemas	Recessed Cans Track Lighting

FEATURES

DIMMABLE · INSTANT bright · MERCURY FREE · UV FREE

CONVERSION CHART

LED		Halogen
8 watts	=	50 watts

A

PAR20

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
A	8	MED	120	8W PAR20 NF DIM	*LP08560NF2D	25°	NARROW FLOOD	6	30,000	83	2700	550	3.5"	1,568
A	8	MED	120	8W PAR20 WF DIM	*LP08560WF2D	60°	WIDE FLOOD	6	30,000	83	2700	550	3.5"	669
A	8	MED	120	8W PAR20 WF DIM	*LP08560WF4D	60°	WIDE FLOOD	6	30,000	83	3000	550	3.5"	669

* Energy Star Archived V1.0

[1] Maximum Overall Length

[2] Center Beam Candle Power

LED PAR *(cont.)*

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Cinemas	Recessed Cans Track Lighting

FEATURES

DIMMABLE · INSTANT bright · MERCURY FREE · UV FREE

CONVERSION CHART

LED		Halogen
15 watts	=	75 watts
16 watts	=	90 watts

A

B

PAR30LN

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
A	15	MED	120	15W PAR30LN NF DIM	*LP15564NF2D	25°	NARROW FLOOD	6	30,000	83	2700	1,000	4.6"	3,431
A	15	MED	120	15W PAR30LN NF DIM	*LP15564NF4D	25°	NARROW FLOOD	6	30,000	83	3000	1,000	4.6"	3,431

PAR38

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
B	16	MED	120	16W PAR38 NF DIM	*LP16566NF2D	25°	NARROW FLOOD	6	30,000	83	2700	1,050	5.2"	3,714
B	16	MED	120	16W PAR38 NF DIM	LP16566NF4D	25°	NARROW FLOOD	6	30,000	83	3000	1,050	5.2"	3,714
B	16	MED	120	16W PAR38 FL DIM	*LP16566FL2D	40°	FLOOD	6	30,000	83	2700	1,050	5.2"	1,824
B	16	MED	120	16W PAR38 WF DIM	*LP16566WF2D	60°	WIDE FLOOD	6	30,000	83	2700	1,050	5.2"	1,287
B	16	MED	120	16W PAR38 WF DIM	*LP16566WF4D	60°	WIDE FLOOD	6	30,000	83	3000	1,050	5.2"	1,287

* Energy Star Archived V1.0

[1] Maximum Overall Length

[2] Center Beam Candle Power

LED PAR PROFESSIONAL SERIES

LED PAR Professional Series manage lamp heat to increase reliability and light output. They also feature LED chip-on-board (COB) technology for consistent color, and a centrally-located light source that looks like halogen.

Our system ensures flicker-free dimming on a wide variety of dimmers. Since LED lighting needs to operate efficiently as well as look great, LED PAR Professional Series is designed to replace up to a 90 watt halogen, while saving 82% in energy costs.

- Dimmable
- 25,000-hour life
- 3-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Cinemas	Recessed Cans Track Lighting

FEATURES

DIMMABLE · INSTANT bright · MERCURY FREE · UV FREE

CONVERSION CHART

LED		Halogen
7 watts	=	35 watts
12 watts	=	55 watts

A

B

PAR20

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS
A	7	MED	120	7W PAR20 MED 120V FL DIM	*LP07560FL2D	40°	FLOOD	6	25,000	83	2700	470
A	7	MED	120	7W PAR20 MED 120V FL DIM	*LP07560FL4D	40°	FLOOD	6	25,000	83	3000	470
A	7	MED	120	7W PAR20 MED 120V FL DIM	LP07560FL6D	40°	FLOOD	6	25,000	83	4000	500
A	7	MED	120	7W PAR20 MED 120V WF DIM	LP07560WF4D	60°	WIDE FLOOD	6	25,000	83	3000	470

PAR30

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS
B	12	MED	120	12W PAR30 MED 120V FL DIM	*LP12562FL4D	40°	FLOOD	6	25,000	83	3000	850

* Energy Star Archived V1.0

LED PAR PROFESSIONAL SERIES *(cont.)*

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Cinemas	Recessed Cans Track Lighting

FEATURES

DIMMABLE · INSTANT bright · MERCURY FREE · UV FREE

CONVERSION CHART

LED		Halogen
12 watts	=	55 watts
15 watts	=	75 watts
17 watts	=	90 watts

A

B

PAR30LN

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS
A	12	MED	120	12W PAR30LN MED 120V FL DIM	LP12564FL2D	40°	FLOOD	6	25,000	83	2700	850

PAR38

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS
B	15	MED	120	15W PAR38 MED 120V FL DIM	LP15566FL4D-1	40°	FLOOD	6	25,000	83	3000	1050
B	15	MED	120	15W PAR38 MED 120V FL DIM	LP15566FL6D-1	40°	FLOOD	6	25,000	83	4000	1124
B	15	MED	120	15W PAR38 MED 120V WF DIM	LP15566WF2D-1	60°	WIDE FLOOD	6	25,000	83	2700	1050
B	17	MED	120	17W PAR38 MED 120V FL DIM	LP17566FL4D-W	40°	FLOOD	6	25,000	83	3000	1300

Energy Star Qualified V2.0

LED PARFECTION

LED PARfection bulbs offer a patented lens to generate high center beam candle power. Compared to competing LED PAR bulbs, they have higher lumen output and maintain that advantage over their 50,000-hour rated life. The patent-pending Thermal-Breeze™ heat management design allows the LEDs to maintain optimum performance and actually weigh less than a standard halogen bulb.

- Thermal Breeze™ Cooling System
- Instant-On, Instant-Bright
- 5-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Cinemas	Recessed Cans Track Lighting

FEATURES

DIMMABLE · INSTANT bright · MERCURY FREE · UV FREE

A B C D

PAR20

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
A	6	MED	120	6W PAR20 NF DIM	*LP06560NF2D	25°	NARROW FLOOD	6	50,000	83	2700	400	3.39"	1,840
A	6	MED	120	6W PAR20 NF DIM	*LP06560NF4D	25°	NARROW FLOOD	6	50,000	83	3000	450	3.39″	2,065
A	6	MED	120	6W PAR20 WF DIM	LP06560WF4D	40°	WIDE FLOOD	6	50,000	83	3000	450	3.39″	650

PAR30

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
B	10	MED	120	10W PAR30 WF DIM	*LP10562WF2D	40°	WIDE FLOOD	6	50,000	83	2700	700	3.75″	1,000

PAR30LN

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
C	10	MED	120	10W PAR30LN FL DIM	*LP10564FL2D	28°	FLOOD	6	50,000	83	2700	700	4.60″	2,545
C	10	MED	120	10W PAR30LN WF DIM	*LP10564WF2D	40°	WIDE FLOOD	6	50,000	83	2700	700	4.60″	1,000
C	10	MED	120	10W PAR30LN WF DIM	LP10564WF4D	40°	WIDE FLOOD	6	50,000	83	3000	700	4.60″	1,000
D	10	MED	120	10W PAR30LN SP DIM	LP10564SP2D	15°	SPOT	6	50,000	83	2700	700	4.60″	4,700

* Energy Star Archived V1.0

[1] Maximum Overall Length

[2] Center Beam Candle Power

LED PARFECTION *(cont.)*

A

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Cinemas	Recessed Cans Track Lighting

FEATURES

DIMMABLE · INSTANT bright · MERCURY FREE · UV FREE

CONVERSION CHART

LED		Halogen
6 watts	=	35 watts
10 watts	=	50 watts
15 watts	=	75 watts

PAR38

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
A	10	MED	120	10W PAR38 SP DIM	LP10566SP2D	15°	SPOT	6	50,000	83	2700	700	5.10″	4,700
A	10	MED	120	10W PAR38 FL DIM	LP10566FL2D	28°	FLOOD	6	50,000	83	2700	700	5.10″	2,545
A	10	MED	120	10W PAR38 WF DIM	LP10566WF2D	40°	FLOOD WIDE	6	50,000	83	2700	700	5.10″	1,000
A	15	MED	120	15W PAR38 FL DIM	*LP15566FL2D	28°	FLOOD	6	50,000	83	2700	1,000	5.10"	3,635
A	15	MED	120	15W PAR38 FL DIM	LP15566FL7D	28°	FLOOD	6	50,000	83	5000	1,200	5.10"	4,360
A	15	MED	120	15W PAR38 FL DIM	LP15566SP2D	28°	SPOT	6	50,000	83	2700	1,200	5.10″	4,360

PAR38 Non-Dimming

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
A	10	MED	100-135	10W PAR38 FL MULTI	LP10566FL2-M	28°	FLOOD	6	50,000	83	2700	850	5.10″	3,090
A	10	MED	100-135	10W PAR38 FL MULTI	LP10566FL4-M	28°	FLOOD	6	50,000	83	3000	850	5.10″	3,090
A	10	MED	100-135	10W PAR38 WF MULTI	LP10566WF2-M	40°	WIDE FLOOD	6	50,000	83	2700	850	5.10″	1,215
A	10	MED	100-135	10W PAR38 WF MULTI	LP10566WF4-M	40°	WIDE FLOOD	6	50,000	83	3000	850	5.10″	1,215
A	15	MED	100-240[3]	15W PAR38 FL	LP15566FL2	28°	FLOOD	6	50,000	83	2700	1,000	5.10"	3,635
A	15	MED	100-240[3]	15W PAR38 FL	LP15566FL7	28°	FLOOD	6	50,000	83	5000	1,200	5.10"	4,090
A	15	MED	100-240[3]	15W PAR38 WF	LP15566WF7	40°	WIDE FLOOD	6	50,000	83	5000	1,200	5.10″	1,830

* Energy Star Archived V1.0

[1] Maximum Overall Length

[2] Center Beam Candle Power

[3] Suitable for 277V

LED ELEVATORLIGHT

LED GBF and 1383 bulbs are the most energy-efficient lighting available for elevators. In place of a low-voltage 20-watt incandescent or halogen elevator bulb, they use only 2 watts, offering 90% energy savings. Solid-state LED lighting is extremely durable, lasting 25,000 hours – 25 times longer than traditional elevator light.

- 25,000-hour life
- Instant-On, Instant-Bright
- Shatterproof
- 3-year warranty

MARKETS	APPLICATIONS
Offices Hospitality Museums Retail	Elevators

FEATURES

INSTANT bright · MERCURY FREE · UV FREE

CONVERSION CHART

LED		Incandescent
2 watts	=	20 watts

R12

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	CBCP[2]
A	2	BA15D	12	2W R12 BA15D FL	LP02E44FL2	120°	FLOOD	10	25,000	83	2700	125	1.81"	60
B	2	BA15S	12	2W R12 BA15S FL	LP02D44FL2	120°	FLOOD	10	25,000	83	2700	125	2.48"	60

[1] Maximum Overall Length

[2] Center Beam Candle Power

LED PARFECTION MINI REFLECTORS

LED PARfection Mini Reflectors, like all Litetronics LED PARs, feature crisp white light, and a smooth beam pattern. The MR16s' exclusive Thermal-Breeze™ convection airflow system ensures the bulb stays cool.

The MR11 provides the perfect amount of light, and a smooth, even beam spread, for accent lighting and specialty applications. LED PARfection Mini Reflectors replace 20-50 watt halogen bulbs while using 20% less energy and lasting 3 times longer than typical halogen bulb.

- Up to 78 LPW
- Thermal-Breeze™ cooling system (MR16)
- Fits into gimbal rings and standard fixtures
- 3-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Cinemas	Recessed Cans Track Lighting Landscape Lighting

FEATURES

INSTANT bright · MERCURY FREE · UV FREE

CONVERSION CHART

LED		Incandescent
3.5 watts	=	20 watts
7 watts	=	38 watts


A


B


C


D

MR11

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
A	3.5	GU4	12	3.5W MR11 GU4 FL	LP3EJ54FL4	24°	FLOOD	10	25,000	83	3000	150	1.2″	775

MR16

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
B	6	GU5.3	12	6W MR16 GU5.3 NF	LP06B56NF2	25°	NARROW FLOOD	6	25,000	83	2700	430	1.9″	2,325
B	6	GU5.3	12	6W MR16 GU5.3 NF	LP06B56NF6	25°	NARROW FLOOD	6	25,000	83	4000	450	1.9″	2,435

MR16

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
C	6	GU10	120	6W MR16 GU10 NF DIM	LP06A56NF6D	25°	NARROW FLOOD	6	25,000	83	4000	450	2.16″	2,435

PAR16

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
D	6	MED	120	6W MR16 JDR NF DIM	LP06556NF2D	25°	NARROW FLOOD	6	25,000	83	2700	450	2.36″	2,435
D	6	MED	120	6W MR16 JDR FL DIM	LP06556FL2D	40°	FLOOD	6	25,000	83	2700	450	2.36″	835
D	6	MED	120	6W MR16 JDR FL DIM	LP06556FL4D	40°	FLOOD	6	25,000	83	3000	450	2.16″	835

[1] Maximum Overall Length

[2] Center Beam Candle Power

LED MINIREFLECTORS PROFESSIONAL SERIES

The Litetronics LED Mini Reflectors Professional Series, like all Litetronics LED PARs, feature crisp white light, and a smooth beam pattern. The MR16's unique heatsink system ensures the bulb stays cool to maintain a high Lumen Per Watt efficacy. LED Mini Reflectors replace 20-38 watt halogen bulbs, use less than 20% of the energy, and last 3 times longer than typical halogen light bulbs.

- 25,000 hour life
- Up to 82% energy savings compared to halogen
- Fits into gimbal rings and standard fixtures
- 3-year warranty
- Offers both GU5.3 and GU10 bases

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Cinemas	Recessed Cans Track Lighting Landscape Lighting

FEATURES

DIMMABLE · INSTANT bright · MERCURY FREE · UV FREE

CONVERSION CHART

LED		Halogen
7 watts	=	38 watts

A

B

MR16

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	BEAM ANGLE	BEAM SPREAD	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	C.B.C.P.[2]
A	7	GU5.3	12	7W MR16 GU5.3 12V FL	*LP07B56FL4	40°	FLOOD	6	25,000	83	3000	400	2"	950
A	7	GU5.3	12	7W MR16 GU5.3 12V FL	LP07B56FL7	40°	FLOOD	6	25,000	83	5000	456	2"	1083
B	7	GU10	120	7W MR16 GU10 120V FL DIM	*LP07A56FL4D	40°	FLOOD	6	25,000	83	3000	450	2.7"	1139
B	7	GU10	120	7W MR16 GU10 120V FL DIM	LP07A56FL6D	40°	FLOOD	6	25,000	83	4000	482	2.7"	1219

* Energy Star Archived V1.0

[1] Maximum Overall Length

[2] Center Beam Candle Power

LED DECORATIVE

An energy-efficient alternative to incandescent bulbs, the LED Decorative line of light bulbs is ideal for most decorative lighting fixtures. Candles have an ultra-wide light spread that replicates the ambient light of an incandescent bulb — great for chandeliers, or fixtures where ambient light in all directions is important.

The G25 completes the line offering powerful, directional light, ideal for hanging pendant fixtures, or anywhere traditional globe light bulbs are used.

- Dimmable
- Up to 85% Energy Savings
- Meets ANSI specifications; fits in standard fixtures
- 3-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitaliy Retail Cinemas	General Lighting Wall Sconces Table and Floor Lamps Dimmable Fixtures

FEATURES

DIMMABLE · INSTANT bright · MERCURY FREE · UV FREE

CONVERSION CHART

LED		Incandescent
5 watts	=	25 watts
7 watts	=	40 watts
10 watts	=	60 watts

C11/CA11

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
A	5	CAND	120	5W C11 CAND 120V CL DIM	LD0527CL2D	10	CLEAR	25,000	83	2700	300	4.3"
A	5	CAND	120	5W C11 CAND 120V CL DIM	LD0527CL4D	10	CLEAR	25,000	83	3000	300	4.3"
B	5	CAND	120	5W C11 CAND 120V FR DIM	LD0527FR2D	10	FROST	25,000	83	2700	325	4.3"
B	5	CAND	120	5W CA11 CAND 120V FR DIM	LD0527FR4D	10	FRONT	25,000	83	3000	325	4.3"
C	5	CAND	120	5W CA11 CAND 120V CL DIM	LD0528CL2D	10	CLEAR	25,000	83	2700	300	4.75"
D	5	CAND	120	5W CA11 CAND 120V FR DIM	LD0528FR2D	10	FROST	25,000	83	2700	325	4.75"
D	5	CAND	120	5W CA11 CAND 120V FR DIM	LD0528FR4D	10	FROST	25,000	83	3000	325	4.75"

G25

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
E	7	MED	120	7W G25 MED 120V FR DIM	LD07536FR7D	6	FROST	25,000	83	5000	550	5.05"
E	10	MED	120	10W G25 MED 120V FR DIM	LD10536FR4D	6	FROST	25,000	83	3000	800	5.05"

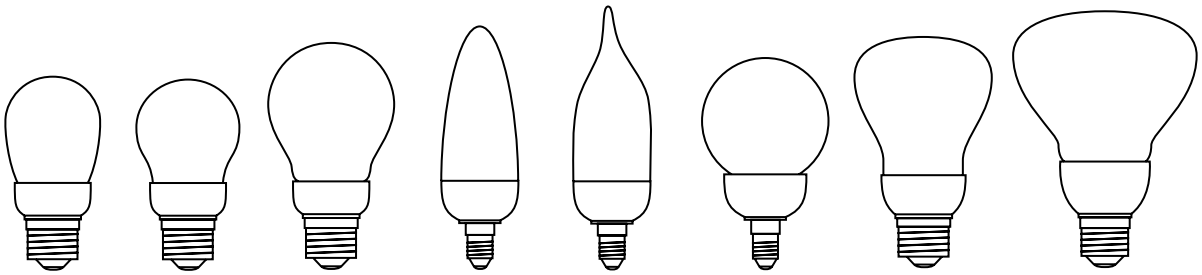
[1] Maximum Overall Length

CCFL

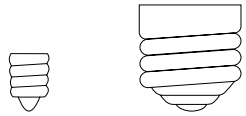
COLD-CATHODE FLUORESCENT

LIGHT BULBS

SHAPES



BASES



MICRO BRITE™

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%.

- Indoor and outdoor rated (select models only)
- Dimmable and flashable (select models only)
- 2-year warranty

MARKETS	APPLICATIONS
Restaurants	Exit Signs
Hospitality	Marquee
Casino	Perimeter Lighting
Cinema	Refrigerators
	Signs

FEATURES

WEATHER RESISTANT

FLASHABLE

CONVERSION CHART

Micro-Brite™		Incandescent
2 watts	=	11 watts
3 watts	=	20 watts
4 watts	=	25 watts
5 watts	=	30 watts
8 watts	=	40 watts
11 watts	=	50 watts

S14

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
A	2	MED	120	2W S14 CL SW	MB-200	30	CLEAR	25,000	82	2700	80	3.58″
B	3	MED	120	3W S14 CL SW	MB-300	30	CLEAR	25,000	82	2700	130	3.58″

A15

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
C	4	MED	120	4W A15 WH SW	MB-401	30	WHITE	25,000	82	2700	175	3.5″

A19

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
D	3	MED	120	3W A19 CL SW	MB-310	15	CLEAR	25,000	82	2700	130	4.33″

[1] Maximum Overall Length

MICRO BRITE™ (cont.)

MARKETS	APPLICATIONS
Restaurants	Marquee
Hospitality	Signs
Casino	General Lighting
Cinema	Dimmable Fixtures
Agriculture	

FEATURES

DIMMABLE · WEATHER RESISTANT · FLASHABLE*

* Select models only

A19

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
A	5	MED	120	5W A19 CL PW	MB-500DP	15	CLEAR	25,000	82	2850	200	4.33"
B	5	MED	120	5W A19 WH PW	MB-501DP	15	WHITE	25,000	82	2850	200	4.33"
B	5	MED	120	5W A19 WH 4	MB-502D	15	WHIE	25,000	82	4100	200	4.33"

Non-Flashable

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
C	8	MED	120	8W A19 CL LW	MB-800DL	15	CLEAR	18,000	82	2250	325	4.88"
D	8	MED	120	8W A19 WH SW	MB-801D	15	WHITE	18,000	82	2700	325	4.88"

MARKETS	APPLICATIONS
Restaurants	Dimmable Fixtures
Hospitality	Elevators
Casino	Recessed Cans
Cinema	Signs
	Track Lighting

FEATURES

DIMMABLE

R20

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
E	5	MED	120	5W R20 FF SW	MB-509D	15	FROST	25,000	82	2700	200	4.05″
E	5	MED	120	5W R20 FF LW	MB-509DL	15	FROST	25,000	82	2250	200	4.05″
E	5	MED	120	5W R20 FF PW	MB-509DP	15	FROST	25,000	82	2850	200	4.05″
E	8	MED	120	5W R20 FF PW	MB-809DP	15	FROST	25,000	82	2850	325	4.05″

BR30

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
F	8	MED	120	8W BR30 FF LW	MB-900DL	6	FROST	18,000	82	2250	325	5.39″
F	8	MED	120	8W BR30 FF PW	MB-900DP	6	FROST	18,000	82	2850	325	5.39″
F	11	MED	120	11W BR30 FF LW	MB-1100DL	6	FROST	18,000	82	2250	450	5.39″
F	11	MED	120	11W BR30 FF PW	MB-1100DP	6	FROST	18,000	82	2850	450	5.39″

MARKETS	APPLICATIONS
Restaurants	Chandeliers
Hospitality	Vanities
Casino	Decorative Lighting
Cinema	Dimmable Fixtures
	Wall Sconces

FEATURES

DIMMABLE

FLASHABLE *

* Select models only

C11

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
G	5	CAND	120	5W C11 CL PW	MB-540DP	30	CLEAR	25,000	82	2850	200	4.50″
H	5	MED	120	5W C11 CL PW BENT TIP	MB-543DP	30	CLEAR	25,000	82	2850	200	4.88″
I	5	CAND	120	5W C11 CL PW BENT TIP	MB-547DP	30	CLEAR	25,000	82	2850	200	5.00″
J	5	CAND	120	5W C11 BT PW BENT TIP	MB-549DL	30	WHITE	25,000	82	2250	200	5.00″
J	5	CAND	120	5W C11 WH PW BENT TIP	MB-549DP	30	WHITE	25,000	82	2850	200	5.00″

G16.5

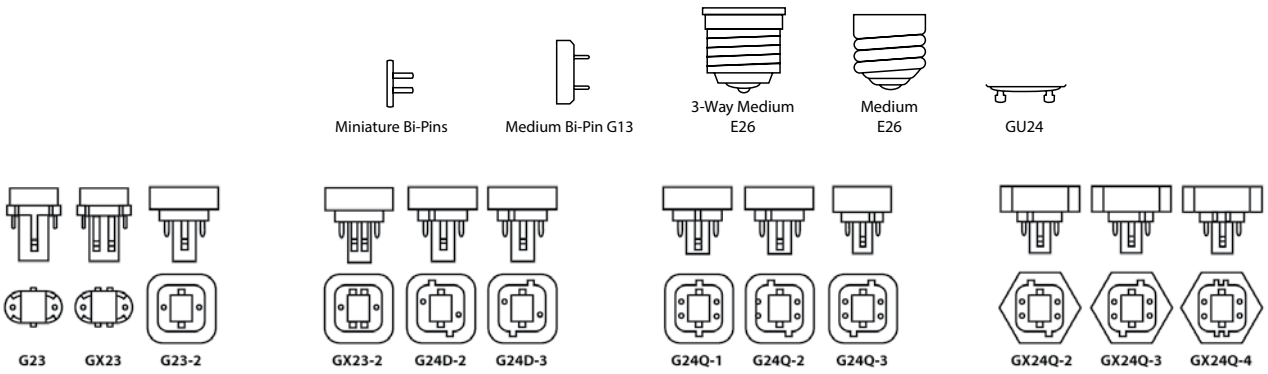
IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	FINISH	AVERAGE RATED LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]
K	5	CAND	120	5W G16.5 CL PW	MB-538DP	20	CLEAR	25,000	82	2850	200	3.54″

[1] Maximum Overall Length

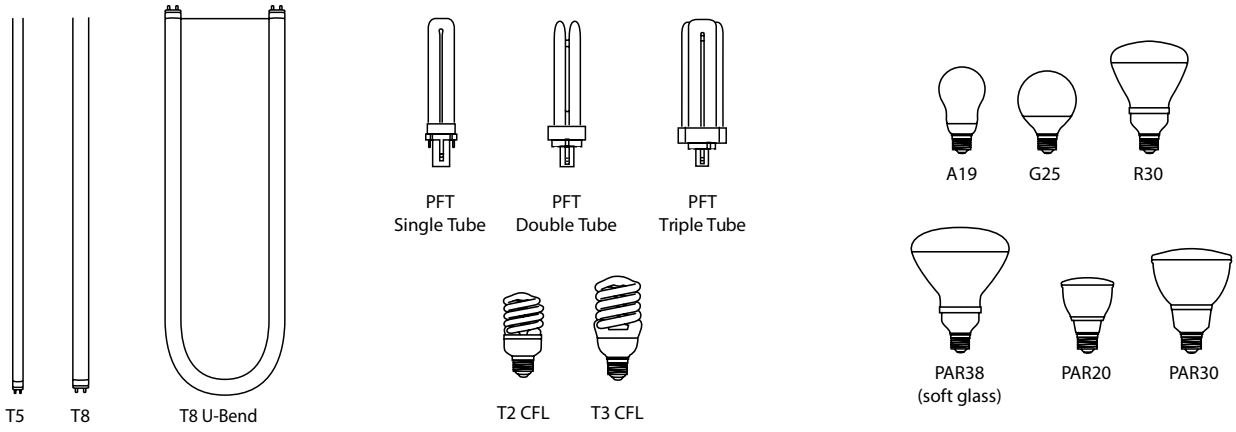
FLUORESCENT

LIGHT BULBS

BASES



SHAPES



ENERGY-LITE™

Energy-Lite™ T5 & T8 high output lamps are the best fluorescent choice when high levels of light output and color rendition are needed. They have a long life of up to 36,000 hours and are available in 2-foot (F17), 3-foot (F25) and 4-foot (F32) lengths. All Litetronics Energy-Lite lamps are TCLP compliant. The low mercury content of these lamps meets all government safety standards, and their long life cuts down on waste.

- All lamps are TCLP compliant
- Up to 90 CRI
- 2-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitality Retail	Office Lighting Troffers Hospitals Parking Garage Stairways Shopping Malls High/Low Bay Industrial

A

B

T5

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	RATED LIFE 3-HR START	RATED LIFE 12-HR START	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
A	54	MIN BI PIN	F54 T5 835 HO	L-54935	40	30,000	36,000	85	3500	5,100	4,750	45.80″
A	54	MIN BI PIN	F54 T5 841 HO	L-54941	40	30,000	36,000	85	4100	5,100	4,750	45.80″
A	54	MIN BI PIN	F54 T5 850 HO	L-54950	40	30,000	36,000	85	5000	5,100	4,750	45.80″

T8

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	RATED LIFE 3-HR START	RATED LIFE 12-HR START	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
B	17	MED BI PIN	F17 T8 730	L-346	25	30,000	36,000	75	3000	1,400	1,300	24.00″
B	17	MED BI PIN	F17 T8 735	L-347	25	30,000	36,000	75	3500	1,400	1,300	24.00″
B	17	MED BI PIN	F17 T8 741	L-348	25	30,000	36,000	75	4100	1,400	1,300	24.00″
B	17	MED BI PIN	F17 T8 750	L-349	25	30,000	36,000	75	5000	1,400	1,300	24.00″
B	25	MED BI PIN	F25 T8 730	L-338	25	30,000	36,000	75	3000	2,225	2,075	36.00″
B	25	MED BI PIN	F25 T8 735	L-339	25	30,000	36,000	75	3500	2,225	2,075	36.00″
B	25	MED BI PIN	F25 T8 741	L-340	25	30,000	36,000	75	4100	2,225	2,075	36.00″
B	25	MED BI PIN	F25 T8 750	L-341	25	30,000	36,000	75	5000	2,225	2,075	36.00″
B	28	MED BI PIN	F28 T8 835	L-396	25	30,000	36,000	85	3500	2,725	2,525	48.00"
B	28	MED BI PIN	F28 T8 841	L-397	25	30,000	36,000	85	4100	2,725	2,525	48.00"
B	28	MED BI PIN	F28 T8 850	L-398	25	30,000	36,000	85	5000	2,725	2,525	48.00"
B	32	MED BI PIN	F32 T8 830	§ L-334	25	30,000	36,000	85	3000	3,100	2,925	48.00″
B	32	MED BI PIN	F32 T8 835	§ L-335	25	30,000	36,000	85	3500	3,100	2,925	48.00″
B	32	MED BI PIN	F32 T8 841	§ L-336	25	30,000	36,000	85	4100	3,100	2,925	48.00″
B	32	MED BI PIN	F32 T8 850	§ L-337	25	30,000	36,000	85	5000	3,100	2,925	48.00″
B	32	MED BI PIN	F32 T8 CB 90	§ L-359	25	30,000	36,000	90	5000	3,200	2,975	48.00″

*Ⓔ These bulbs meet federal efficiency standards.

[1] Maximum Overall Length

§ CEE certified

ENERGY-LITE™ *(cont.)*

MARKETS	APPLICATIONS
Restaurants Hospitality Retail	Office Lighting Troffers Hospitals Parking Garage Stairways Shopping Malls High/Low Bay Industrial

A

T8 U-Bend

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
A	32	MED BI PIN	F32 T8 835 6″ U-BEND	L-385	20	30,000	85	3500	3,100	2,925	22.60″
A	32	MED BI PIN	F32 T8 841 6″ U-BEND	L-386	20	30,000	85	4100	3,100	2,925	22.60″
A	32	MED BI PIN	F32 T8 850 6″ U-BEND	L-387	20	30,000	85	5000	3,100	2,925	22.60″

*Ⓔ These bulbs meet federal efficiency standards.

[1] Maximum Overall Length

PFT SINGLE TUBE

PFT plug-in compact fluorescent lamps are equipped with a two or four-pin base specific to the lamp's wattage. With a ballast that is built into the fixture, PFT lamps have a rated life of up to 12,000 hours. They are available in 2700K, 3500K, 4100K, and 5000K.

- 10,000 to 12,000-hour average life
- Available with 2 and 4-pin bases
- 1-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitality Casino Cinema	General Lighting Recessed Cans Wall Sconces

CONVERSION CHART

PFT		Incandescent
7 watts	=	25 watts
9 watts	=	40 watts
13 watts	=	60 watts

PFT

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]	M.O.D.[2]
A	7	G23	7W T4 S 2P 27	L-12051	50	10,000	82	2700	400	350	5.24″	1.28″
A	7	G23	7W T4 S 2P 50	L-12054	50	10,000	82	5000	400	350	5.24″	1.28″
B	9	G23	9W T4 S 2P 35	L-12102	50	10,000	82	3500	580	500	6.42″	1.28″
C	13	GX23	13W T4 S 2P 27	L-12151	50	10,000	82	2700	825	700	6.97″	1.28″
C	13	GX23	13W T4 S 2P 35	L-12152	50	10,000	82	3500	825	700	6.97″	1.28″
C	13	GX23	13W T4 S 2P 41	L-12153	50	10,000	82	4100	825	700	6.97″	1.28″
C	13	GX23	13W T4 S 2P 50	L-12154	50	10,000	82	5000	825	700	6.97″	1.28″

*E These bulbs meet federal efficiency standards.

[1] Maximum Overall Length

[2] Maximum Overall Diameter

PFT DOUBLE TUBE

MARKETS	APPLICATIONS
Restaurants Hospitality Casino Cinema	General Lighting Recessed Cans Wall Sconces

CONVERSION CHART

PFT		Incandescent
13 watts	=	60 watts
18 watts	=	75 watts
26 watts	=	100 watts

PFT

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]	M.O.D.[2]
A	13	GX23-2	13W T4 D 2P 35	L-12162	50	12,000	82	3500	900	775	4.61″	1.38″
A	13	GX23-2	13W T4 D 2P 41	L-12163	50	12,000	82	4100	900	775	4.61″	1.38″
B	13	G24Q-1	13W T4 D 4P 27	L-12165	50	12,000	82	2700	900	775	5.00″″	1.38″
B	13	G24Q-1	13W T4 D 4P 35	L-12166	50	12,000	82	3500	900	775	5.00″	1.38″
B	13	G24Q-1	13W T4 D 4P 41	L-12167	50	12,000	82	4100	900	775	5.00″	1.38″
B	13	G24Q-1	13W T4 D 4P 50	L-12168	50	12,000	82	5000	900	775	5.00″	1.38″
C	18	G24D-2	18W T4 D 2P 41	L-12212	50	12,000	82	4100	1,200	1,025	5.91″	1.38″
D	18	G24Q-2	18W T4 D 4P 27	L-12215	50	12,000	82	2700	1,200	1,025	5.63″	1.38″
D	18	G24Q-2	18W T4 D 4P 35	L-12216	50	12,000	82	3500	1,200	1,025	5.63″	1.38″
D	18	G24Q-2	18W T4 D 4P 41	L-12217	50	12,000	82	4100	1,200	1,025	5.63″	1.38″
E	26	G24D-3	26W T4 D 2P 27	L-12261	50	12,000	82	2700	1,800	1,525	6.70″	1.38″
E	26	G24D-3	26W T4 D 2P 35	L-12262	50	12,000	82	3500	1,800	1,525	6.70″	1.38″
E	26	G24D-3	26W T4 D 2P 41	L-12263	50	12,000	82	4100	1,800	1,525	6.70″	1.38″
F	26	G24Q-3	26W T4 D 4P 27	L-12265	50	12,000	82	2700	1,800	1,525	6.42″	1.38″
F	26	G24Q-3	26W T4 D 4P 35	L-12266	50	12,000	82	3500	1,800	1,525	6.42″	1.38″
F	26	G24Q-3	26W T4 D 4P 41	L-12267	50	12,000	82	4100	1,800	1,525	6.42″	1.38″
F	26	G24Q-3	26W T4 D 4P 50	L-12268	50	12,000	82	5000	1,800	1,525	6.42″	1.38″

*Ⓔ These bulbs meet federal efficiency standards.

[1] Maximum Overall Length

[2] Maximum Overall Diameter

PFT TRIPLE TUBE

MARKETS	APPLICATIONS
Restaurants Hospitality Casino Cinema	General Lighting Recessed Cans Wall Sconces

CONVERSION CHART

PFT		Incandescent
18 watts	=	75 watts
26 watts	=	100 watts
32 watts	=	125 watts
42 watts	=	150 watts

PFT

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]	M.O.D.[2]
A	18	GX24Q-2	18W T4 T 4P 27	L-12221	50	12,000	82	2700	1,200	1,025	4.41"	1.93"
A	18	GX24Q-2	18W T4 T 4P 35	L-12222	50	12,000	82	3500	1,200	1,025	4.41"	1.93"
B	26	GX24Q-3	26W T4 T 4P 27	L-12271	50	12,000	82	2700	1,800	1,525	5.00"	1.93"
B	26	GX24Q-3	26W T4 T 4P 35	L-12272	50	12,000	82	3500	1,800	1,525	5.00"	1.93"
B	26	GX24Q-3	26W T4 T 4P 41	L-12273	50	12,000	82	4100	1,800	1,525	5.00"	1.93"
C	32	GX24Q-3	32W T4 T 4P 27	L-12321	50	12,000	82	2700	2,400	2,050	5.51"	1.93"
C	32	GX24Q-3	32W T4 T 4P 35	L-12322	50	12,000	82	3500	2,400	2,050	5.51"	1.93"
C	32	GX24Q-3	32W T4 T 4P 41	L-12323	50	12,000	82	4100	2,400	2,050	5.51"	1.93"
D	42	GX24Q-4	42W T4 T 4P 35	L-12372	50	12,000	82	3500	3,200	2,725	6.42"	1.93"
D	42	GX24Q-4	42W T4 T 4P 41	L-12373	50	12,000	82	4100	3,200	2,725	6.42"	1.93"
D	42	GX24Q-4	42W T4 T 4P 50	L-12374	50	12,000	82	5000	3,200	2,725	6.42"	1.93"

*(E) These bulbs meet federal efficiency standards.

[1] Maximum Overall Length

[2] Maximum Overall Diameter

NEOLITE™

The Litetronics Neolite™ Mini CFL design allows a shorter length and high light output, meaning an overall more-efficient bulb. In fact, Neolite's new lumen outputs make it possible to save up to 78% energy versus comparable incandescent bulbs. They still have low mercury, fast warm-up, and last many times longer than incandescent bulbs.

- < 1.5 milligram of mercury
- Small M.O.L. fits more applications
- Warms up under 60 seconds
- 2-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Cinema	Ceiling Fixtures General Lighting Recessed Cans Table and Floor Lamps Wall Sconces

FEATURES

FAST WARM-UP | INSTANT on | LOW MERCURY

CONVERSION CHART

NeoLite™		Incandescent
10 watts	=	40 watts
13 watts	=	60 watts
20 watts	=	75 watts
23 watts	=	100 watts

T2 CFL

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	M.O.D.[2]
A	10	MED	120	10W T2 27	*NL-10527	30	10,000	82	2700	650	3.7″	1.9″
A	10	MED	120	10W T2 41	NL-10541	30	10,000	82	4100	700	3.7″	1.9″
B	13	MED	120	13W T2 41	NL-13541	30	10,000	82	4100	950	3.9″	1.9″
B	13	MED	120	13W T2 50	NL-13550	30	10,000	82	5000	950	3.9″	1.9″
C	20	MED	120	20W T2 27	*NL-20527	30	10,000	82	2700	1,300	4.25″	2.2″
C	20	MED	120	20W T2 41	NL-20541	30	10,000	82	4100	1,400	4.25″	2.2″
C	20	MED	120	20W T2 50	NL-20550	30	10,000	82	5000	1,400	4.25″	2.2″
D	23	MED	120	23W T2 41	NL-23541	30	10,000	82	4100	1,660	4.4″	2.2″
D	23	MED	120	23W T2 50	NL-23550	30	10,000	82	5000	1,660	4.4″	2.2″

* Energy Star Archived V1.0

[1] Maximum Overall Length

[2] Maximum Overall Diameter

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 60% when directly replacing incandescent bulbs.

- Small M.O.L. fits more fluorescent applications
- 10,000 to 15,000-hour average life
- 2-year warranty (3-year warranty for 30-watt CFLs)

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Cinema	Ceiling Fixtures General Lighting Table and Floor Lamps Wall Sconces

FEATURES

INSTANT on

T3 CFL

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	M.O.D.[2]
A	27	MED	120	27W T3 50	L-27450	10	10,000	82	5000	2,015	5.31″	2.51″
B	30	MED	120	30W T3 50 BD	L-30450	30	15,000	82	5000	2,050	5.15″	2.67″

[1] Maximum Overall Length

[2] Maximum Overall Diameter

SPIRAL-LITE™ 3-WAY

Litetronics Spiral-Lite™ Low Profile (SPLP) 3-Way CFLs are specially engineered to provide quality light and energy savings in specialty fixtures. With the light output of a 50/100/150-watt incandescent lamp, the Spiral-Lite 3-Way lamp offers low, medium, and high light settings in the same fixture. Spiral-Lite 3-Way lamps are Energy Star qualified and work in standard 3-way fixtures.

- Up to 60% energy savings compared to incandescent
- Works in standard 3-way fixtures to provide three different light output levels
- 1-year warranty

A

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Cinema	Ceiling Fixtures General Lighting Table and Floor Lamps 3-Way fixtures

FEATURES

3-Way

T3 CFL

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	M.O.D.[2]
A	12/22/33	3-WAY	120	33W SPLP 3-WAY	*L-33627	40	10,000	82	2700	600/1200/2150	5.32″	2.75″

SPIRAL-LITE™ Dimmable

A

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Cinema	Ceiling Fixtures Dimmable Fixtures General Lighting Table and Floor Lamps Wall Sconces

FEATURES

DIMMABLE INSTANT on

T3 CFL

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	M.O.D.[2]
A	23	MED	120	23W T3 27 DIM	*L-23527D	30	10,000	82	2700	1,650	5.47″	2.40″

* Energy Star Archived V1.0

[1] Maximum Overall Length

[2] Maximum Overall Diameter

SPIRAL-LITE™ GU24

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Cinema	Ceiling Fixtures General Lighting Table and Floor Lamps Wall Sconces

FEATURES

INSTANT on

CONVERSION CHART

Spiral-Lite™		Incandescent
13 watts	=	60 watts
23 watts	=	100 watts

T3 GU24

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	LIFE	CRI	CCT (K)	LUMENS	M.O.L.[1]	M.O.D.[2]
A	13	GU24	120	13W T3 27 GU24	* L-13C27	30	10,000	82	2700	900	3.77″	2.04″
B	23	GU24	120	23W T3 27 GU24	*L-23C27	30	10,000	82	2700	1,725	4.48″	2.44″

Accessory

IMAGE	DESCRIPTION	ORDERING CODE	FEATURES & BENEFITS
C	GU24-E26 SOCKET LOCK	GU24-E26	• SCREWS INTO A MEDIUM-BASED SOCKET; ALLOWS MEDIUM-BASED FIXTURES TO ACCEPT LAMPS WITH A GU24 BASE • PERMANENTLY CONVERTS INCANDESCENT SOCKETS TO QUALIFY FOR UTILITY REBATES

* Energy Star Archived V1.0

[1] Maximum Overall Length

[2] Maximum Overall Diameter

SPIRAL-LITE™ Covered

MARKETS	APPLICATIONS
Restaurants Hospitality Casino Cinema	Recessed Cans Track Lighting

FEATURES

INSTANT on


A


B


C

R30

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	LIFE	CRI	CCT (K)	INITAL LUMENS	MEAN LUMENS	M.O.L.[1]
A	15	MED	120	15W R30 27 FR	*L-15527R30-1	24	10,000	82	2700	750	675	5.47″
A	15	MED	120	15W R30 41 FR	* L-15541R30	24	10,000	82	4100	750	675	5.47″

R40

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	LIFE	CRI	CCT (K)	INITAL LUMENS	MEAN LUMENS	M.O.L.[1]
B	23	MED	120	23W BR40 41 FR	L-23541R40	24	10,000	82	4100	750		6.33″

PAR38

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	LIFE	CRI	CCT (K)	INITAL LUMENS	MEAN LUMENS	M.O.L.[1]
C	23	MED	120	23W PAR38 27 FL	L-23527P38	24	8,000	82	2700	1,300	1,175	6.33″
C	23	MED	120	23W PAR38 41 FL	L-23541P38	24	10,000	82	4100	195	N/A	6.33″

* Energy Star Archived V1.0

[1] Maximum Overall Length

SPIRAL-PAR™

Litetronics Spiral-PAR™ compact fluorescent lamps save users time and money, while maintaining attractive design and performance. 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. They are available in 2700K, 3500K, and 4100K.

- 8,000-hour average life
- Direct replacement for incandescent PAR lamps
- 1-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitality Casino Cinema	General Lighting Decorative Lighting Table and Floor Lamps Wall Sconces

CONVERSION CHART

Spiral-PAR™		Halogen
9 watts	=	35 watts
15 watts	=	50 watts

PAR20

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	LIFE	CRI	CCT (K)	INITAL LUMENS	MEAN LUMENS	M.O.L.[1]
A	9	MED	120	9W SPLP PAR20 27	L-1471	15	8,000	82	2700	300	275	3.82"
A	9	MED	120	9W SPLP PAR20 41	L-1472	15	8,000	82	4100	300	275	3.82"

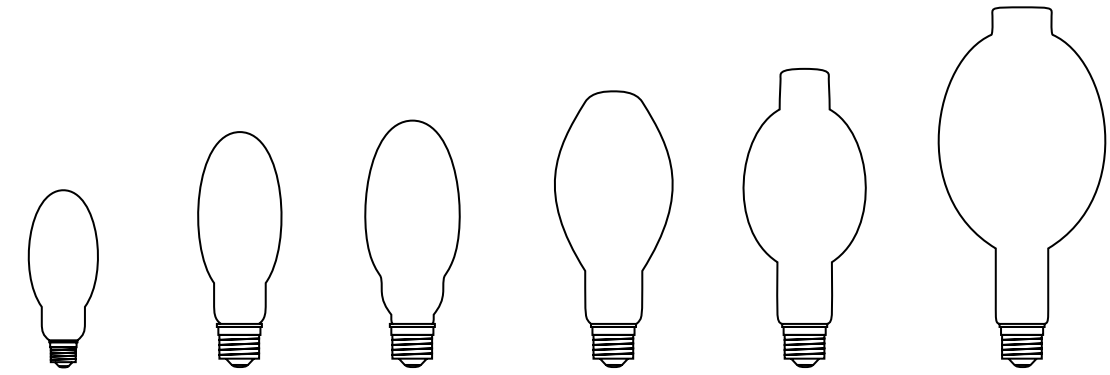
PAR30

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	LIFE	CRI	CCT (K)	INITAL LUMENS	MEAN LUMENS	M.O.L.[1]
B	15	MED	120	15W SPLP PAR30 41	L-1382-1	15	10,000	82	4100	750	650	4.88"

[1] Maximum Overall Length

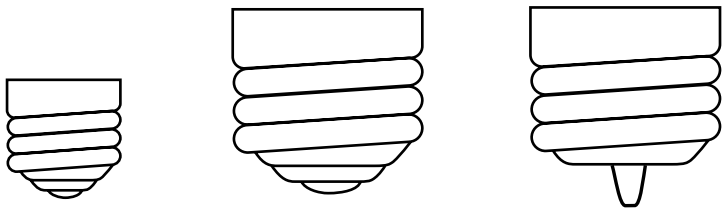
HID
HIGH INTENSITY DISCHARGE
LIGHT BULBS

SHAPES



ED17/EDX17 | ED23.5 | ED28 | ED37 | BT37 | BT56

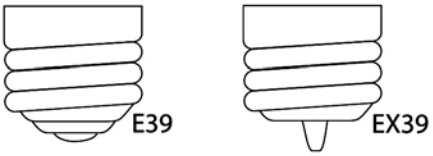
BASES

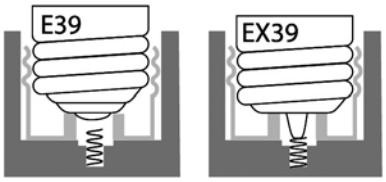


Medium E26 | Mogul E39 | Mogul EX39

UNDERSTANDING E39 VS. EX39 MOGUL BASES

EX39 bases are used to prevent non open-fixture rated bulbs from being used in open fixtures. An open fixture-rated bulb contains a quartz shroud that surrounds the arc tube to reduce any risk of damage or injury in the unlikely case of an arc tube rupture.





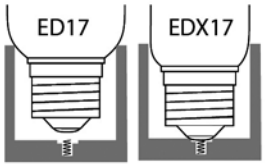
Open fixture-rated ED37 bulbs are equipped with an EX39 base, a mogul base that has an extended center terminal.

The EX39 base will make contact in a EX39 socket. A standard mogul base (Found on non open fixture-rated lamps) will not make contact.

(Intended for open fixtures, EX39 bases can also be used in enclosed fixtures and standard E39 sockets).

UNDERSTANDING ED17 VS. EDX17 SHAPES

EDX17 bulbs are shaped to allow only open-fixture rated bulbs from being used in open fixtures. An open fixture-rated bulb contains a quartz shroud that surrounds the arc tube to reduce any risk of damage or injury in the unlikely case of an arc tube rupture.



Only open fixture-rated bulbs are available in an EDX17 shape, with a maximum neck diameter of 1.24" vs. the ED17 neck diameter of 1.34"

Only the narrow neck of the EDX17 bulbs will fit into the EX26 sockets of open fixtures, allowing the base to make contact.

(Intended for open fixtures, EDX17 bulbs can also be used in enclosed fixtures and standard medium sockets)

Super Arc™ METAL HALIDE LAMPS

MARKETS	APPLICATIONS
Automotive Commercial Industrial	Sports Arenas Tennis Courts Billboards/ Roadways High/Low Bay Industrial Canopy Lighting Car Dealerships Gas Stations

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.

- 1-year warranty (up to 12,000H), or 2-year warranty (20,000H)
- 65-70 CRI
- 10,000 to 20,000-hour average life
- Compact arc size

ED17

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
A	175	MED	MH175 U CL	L-835	12	10,000	M57	65	4000	14,000	9,295	5.44"

ED28

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
B	250	MOG	MH250 U CL	L-845	12	12,000	M58	65	4000	21,000	17,935	8.30"

BT37

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
C	1,000	MOG	MH1000 U CL R	L-856	12	12,000	M47	65	4000	110,000	96,000	11.50"

ED37

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
D	400	MOG	MH400 U CL	L-850	12	20,000	M59	65	4000	36,000	28,000	11.02"
E	400	MOG	MH400 U CT	L-860	12	20,000	M59	70	3700	36,000	28,800	11.02"

BT56

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
F	1,000	MOG	MH1000 U CL	L-870	4	12,000	M47	65	4000	110,000	86,000	15.39"

[1] Maximum Overall Length

Super Arc™ OPEN FIXTURE METAL HALIDE LAMP

MARKETS	APPLICATIONS
Automotive Commercial Industrial	Sports Arenas Tennis Courts Billboards/ Roadways High/Low Bay Industrial Canopy Lighting Car Dealerships Gas Stations

A

ED37

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
A	400	EX39	MP400 BU CL O	L-876	12	20,000	M59	65	4000	32,000	26,000	15.39"

Super Arc™ PULSE-START OPEN FIXTURE METAL HALIDE LAMPS

MARKETS	APPLICATIONS
Commercial Industrial	Sports Arenas Tennis Courts Billboards/ Roadways High/Low Bay Industrial

A

B

EDX17

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
A	70	MED	MPPS70 U CL O	L-886	12	10,000	M98	75	4000	5,300	3,885	5.43"
A	100	MED	MPPS100 U CL O	L-885	12	10,000	M90	75	4000	8,300	5,660	5.43"
B	100	MED	MPPS100 U CT O	L-828	12	10,000	M90	80	3700	8,300	5,700	5.43"
B	150	MED	MPPS150 U CL O	L-884	12	10,000	M102	75	4000	12,000	9,600	5.43"

[1] Maximum Overall Length

Super Arc™ PULSE-START METAL HALIDE LAMPS

MARKETS	APPLICATIONS
Commercial Industrial	Sports Arenas Tennis Courts Billboards/ Roadways High/Low Bay Industrial

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 offers superior lumen maintenance, reducing the number of fixtures needed. Also, with a rated life of up to 20,000 hours, Pulse-Start lamps last twice as long as competing metal halide lamps.

The uniquely shaped arc tube in Pulse-Start lamps eliminates any pockets where cool spots can form. This efficient use of available materials allows Pulse-Start lamps to replace higher wattage Metal Halides, and save you money on energy. Pulse-Start lamps also reduce color shift by up to 400K, reach full light quicker than standard metal halides, and have lower restrike time.

- 65-80 CRI
- 10,000 to 20,000-hour average life
- Unique arc shape eliminates cool spots
- 1-year warranty

ED17

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
A	50	MED	MHPS50 U CL	L-887	12	10,000	M110	70	4000	3,300	2,815	5.44″
A	70	MED	MHPS70 U CL	L-825	12	10,000	M98	75	4000	5,300	3,885	5.44″

ED28

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
B	320	MOG	MHPS 320 U CL	L-714	12	20,000	M132/M154	65	4000	33,000	26,400	8.33″

[1] Maximum Overall Length

Super Arc™ HIGH PRESSURE SODIUM LAMPS

MARKETS	APPLICATIONS
Automotive Commercial Industrial	Sports Arenas Tennis Courts Billboards/ Roadways High/Low Bay Industrial Car Dealerships

Super Arc™ High Pressure Sodium (HPS) lamps are a superior 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 are more efficient than incandescent, metal halide, and many fluorescent lamps. The long life and high lumen output of the Super Arc HPS lamps ahead of the competition.

- Up to 24,000-hour life
- Short warm-up time
- 2-year warranty

A

B

C

D

ED17

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
A	70	MED	LU70 E26 CL	L-4111	12	24,000	S62	22	2100	6,300	5,040	5.43"
A	100	MED	LU100 E26 CL	L-4114	12	24,000	S54	22	2100	9,500	7,705	5.43"

ED18

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
B	250	MOG	LU250 E39 CL	L-4132	24	24,000	S50	22	2100	26,000	22,100	9.68"
B	400	MOG	LU400 E39 CL	L-4133	24	24,000	S51	22	2100	50,000	42,500	9.68"

ED23.5

IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
C	70	MOG	LU70 E39 CL	L-4110	12	24,000	S62	22	2100	6,000	4,500	7.48"
C	150	MOG	LU150 E39 CL	L-4116	12	24,000	S55	22	2100	16,000	12,800	7.48"

ET25

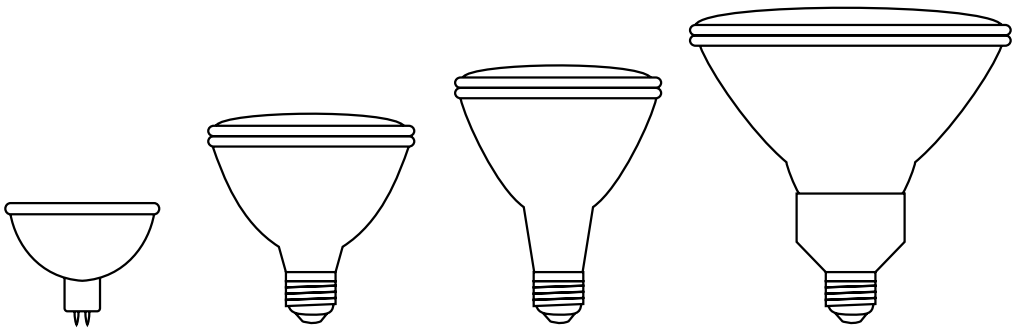
IMAGE	WATTS	BASE	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	ANSI	CRI	CCT (K)	INITIAL LUMENS	MEAN LUMENS	M.O.L.[1]
D	1000	MOG	LU1000 E39 CL	L-4125	12	24,000	S52	22	2100	140,000	124,600	15.07"

[1] Maximum Overall Length

HALOGEN

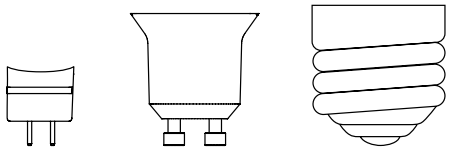
LIGHT BULBS

SHAPES



MR16 | PAR30 | PAR30LN | PAR38

BASES



Bi-Pin GU5.3 | Bi-Pin GU10 | Medium E26

LITE PAR™ Eco

DOE and EISA-Compliant Halogen PAR bulbs are both energy-efficient and economical. Designed to replace non-compliant standard halogens as well as incandescent PAR bulbs, they feature an impressive 20-40% energy savings. Dimmable and instant bright, with a uniform light distribution and whiter light than incandescents, they give the same quality look of traditional halogen lighting.

- DOE and EISA Compliant
- 100 CRI
- Whiter than incandescent

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Cinema	Recessed Cans Track Lighting

CONVERSION CHART

Litepar™ Eco		Standard Halogen
39 watts	=	45-50 watts
60 watts	=	75 watts
80 watts	=	120 watts

A

B

C

PAR30

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	LIFE	LUMENS	M.O.L.[1]	C.B.C.P.[2]
A	39	MED	120	39W PAR30 MED 120V FL	FLOOD	HL-39562FL3	15	1,500	620	3.54″	1,400

PAR30LN

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	LIFE	LUMENS	M.O.L.[1]	C.B.C.P.[2]
B	60	MED	120	60W PAR30LN MED 120V FL	FLOOD	HL-60564FL3	15	1,500	1,070	4.68″	2,000

PAR38

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	LIFE	LUMENS	M.O.L.[1]	C.B.C.P.[2]
C	60	MED	120	60W PAR38 MED 120V FL	FLOOD	HL-60566FL3	15	1,500	1,070	5.2″	2,000
C	80	MED	120	80W PAR38 MED 120V FL	FLOOD	HL-80566FL3	15	1,500	1,590	5.2″	3,100

*Ⓔ These bulbs meet federal efficiency standards.

[1] Maximum Overall Length

[2] Center Beam Candle Power

MR16

There is an MR16 halogen lamp to fit almost any need. Sure-Beam™, Mirro™ Aluminum-Reflector and Econo MR16 lamps.

- 4,000 to 6,000-hour life
- Whiter light
- Dimmable
- Energy efficient

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Cinema	Recessed Cans Track Lighting

A

MR16

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

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	LIFE	CCT	C.B.C.P.[2]	M.O.L.[1]
A	50	GU5.3	12	50 EXN MR16 FL CG	FLOOD	L-3823	10	6,000	3050	1,850	1.77″

*E These bulbs meet federal efficiency standards.

[1] Maximum Overall Length

[2] Center Beam Candle Power

MR16

MARKETS	APPLICATIONS
Restaurants Hospitality Retail Casino Cinema	Recessed Cans Track Lighting

MR16

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

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	LIFE	CCT	C.B.C.P.[2]	M.O.L.[1]
A	50	GU5.3	12	50 EXN/A MR16 CG	FLOOD	L-3805	10	6,000	2900	1,900	1.77″
B	50	GU10	120-125	50 EXN/A MR16 FL CG	FLOOD	L-3700	10	3,000	---	1,800	2.26″

MR16

ECONO™ MR16 light bulbs are an economical choice for low voltage track lighting and recessed cans. They provide crisp, white light, and are used for jewelry stores, retail outlets, restaurants, and bars.

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	BEAM SPREAD	ORDERING CODE	QTY/ CASE	LIFE	M.O.L.[1]
C	20	GU5.3	12	20 MR16 BAB FL CG	FLOOD	L-3800	10	4,000	1.77″
C	50	GU5.3	12	50 MR16 EXT SP CG	SPOT	L-3803	10	4,000	1.77″
C	50	GU5.3	12	50 MR16 EXN FL CG	FLOOD	L-3802	10	4,000	1.77″

*(E) These bulbs meet federal efficiency standards.

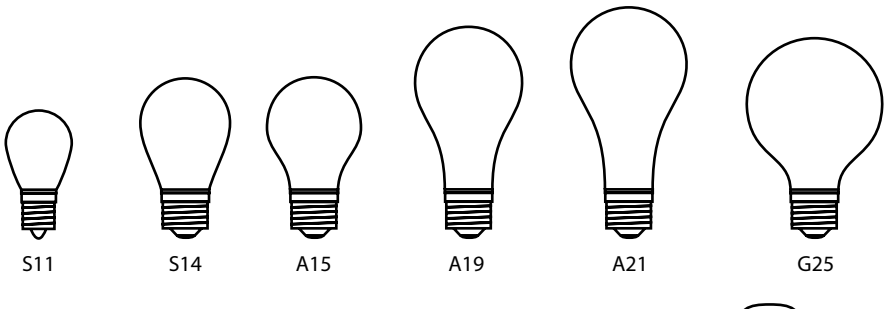
[1] Maximum Overall Length

[2] Center Beam Candle Power

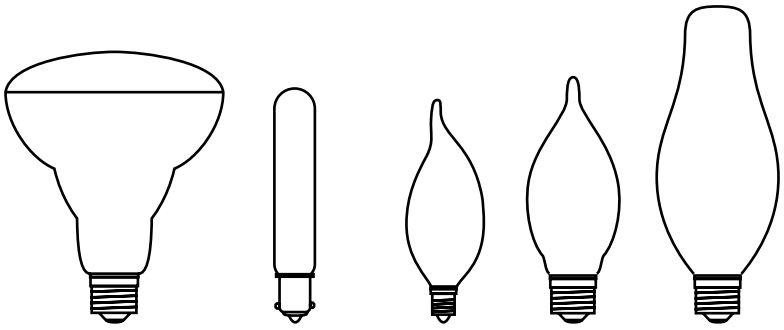
INCANDESCENT

LIGHT BULBS

SHAPES

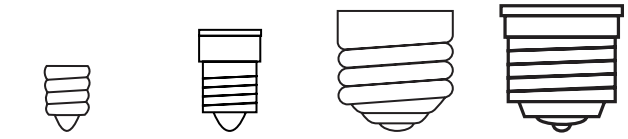


S11 S14 A15 A19 A21 G25



BR30 T6 C11 C15 H19

BASES



Candelabra E12 | Intermediate E17 | Medium E26 | 3-Way Medium E26

Bonus Life™

MARKETS	APPLICATIONS
Restaurants Casino	Signs Marquee

Engineered to outlast standard incandescents, Bonus Life™ lamps offer a life of 4,000 to 9,000 hours plus warranty. Get lasting illumination with Bonus-Life lamps.

- 4,000 to 9,000-hour average life
- 6 month warranty (4,000H) to 1-year warranty (7,000H)
- Seven-support filament mounting

A

S11

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]
A	10	INT	130	10 S11 CL	CLEAR	L-104	25	4,000	66	2.31"

Rough Service™

MARKETS	APPLICATIONS
Restaurants Casino	Signs Marquee Exit Signs

There is a long-lasting Rough Service™ incandescent lamp for almost any application. Rough Service lamps have a rated life of up to 20,000 hours longer than standard or extended-life incandescent bulbs. 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
- Three separate getters
- 2-year warranty

A B C D

S14

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]
A	11	MED	120	11 S14 CL	CLEAR	L-100	120	20,000	70	3.30"
B	11	MED	120	11 S14 FR	FROST	L-101	120	20,000	70	3.30"
C	11	MED	120	11 S14 CY	CR YELLOW	L-101CY	120	20,000	-----	3.30"
A	15	MED	120	15 S14 CL	CLEAR	L-107	120	20,000	88	3.30"

A15

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]
D	30	MED	120	30 A15 FR	FROST	L-278	120	20,000	175	3.30"

*(E) These bulbs meet federal efficiency standards.

[1] Maximum Overall Length

Rough Service™ (cont.)

MARKETS	APPLICATIONS
Restaurants Hospitality Casino Cinema Agriculture	General Lighting Floor and Table Lamps

A19

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]
B	40	MED	120	40 A19 FR	FROST	L-118	120	20,000	320	4.44″
A	60	MED	120	60 A19 CL	CLEAR	L-127	120	20,000	560	4.44″
A	60	MED	120	60 A19 CL 2PK	CLEAR	L127-2	18	20,000	560	4.44″
B	60	MED	120	60 A19 FR STC	FROST	L-128ASTC	120	20,000	560	4.44″
B	75	MED	120	75 A19 FR 2PK	FROST	L131-2	18	20,000	790	4.44″
B	75	MED	120	75 A19 FR STC	FROST	L-131STC	120	20,000	790	4.44″
B	100	MED	120	100 A19 FR	FROST	L-145A	120	20,000	1,100	4.44″
B	100	MED	120	100 A19 FR STC	FROST	L-145ASTC	120	20,000	1,100	4.44″

A21

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]
C	150	MED	120	150 A21 CL 2PK	CLEAR	L163-2	18	20,000	1,750	5.19″

G25

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]
D	25	MED	120	25 G25 CL	CLEAR	L-215	60	20,000	190	4.48″

*Ⓔ These bulbs meet federal efficiency standards.

[1] Maximum Overall Length

Rough Service™ and Bonus Life™

MARKETS	APPLICATIONS
Restaurants Hospitality Casino	Recessed Cans Track Lighting Elevators Signs

A

B

C

D

BR30

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	BEAM ANGLE	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]	C.B.C.P.[2]
A	65	MED	120	65 BR 30 HF	FLOOD	L-809	30	20,000	420	5.39″	200
A	75	MED	120	75 BR 30 HF	FLOOD	L-132E	30	20,000	750	5.39″	250

T6

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	BEAM ANGLE	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]
B	10	INT	120	10 T6 CL	CLEAR	L-234	60	20,000	30	5.39″
C	10	CAND	120	10 T6 CL	CLEAR	L-235	60	20,000	30	5.39″

R20

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	BEAM ANGLE	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]
D	30	MED	120	30 R 20 LF	SPOT	L-114	60	20,000	195	3.77″

*(E) These bulbs meet federal efficiency standards.

[1] Maximum Overall Length

[2] Center Beam Candle Power

DURO-LITE LIGHTING

Duro-Lite™ incandescent lamps have an average rated life of up 6,000 hours. Available in a 3-way configuration (for light adjustable fixtures, each Duro-Lite incandescent lamp comes with a 2-year warranty.

- 6,000-hour average life
- Lasts longer than standard incandescents
- 2-year warranty

MARKETS	APPLICATIONS
Restaurants Hospitality Casino Cinema Agriculture	General Lighting Floor and Table Lamps

C

A19

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	FINISH	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]
C	50/100/150	3-WAY	130	50/100/150 A19 FR DURO LITE	FROST	LS4255	30	6,000	445/1095/1540	3.93"

*E These bulbs meet federal efficiency standards.

[1] Maximum Overall Length

DURO-LITE LIGHTING

MARKETS	APPLICATIONS
Restaurants Hospitality Casino	Wall Sconces Chandeliers Decorative Lighting Coach Lights

Duro-Lite™ Flamescent candle lamps are attractive in design and 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.

- Up to 6,000-hour average life
- Fiberglass winding simulates the look of flames
- Available in a variety of wattages

C11

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]
A	25	CAND	130	25 C11 CL SPARKELITE DURO LITE	LS4029	30	6,000	155	3.85"

C15

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]
B	25	MED	130	25 C15 CL SPARKELITE DURO LITE	LS4026	30	6,000	155	4.48"
B	40	MED	130	40 C15 CL SPARKELITE DURO LITE	LS4056	30	6,000	310	4.48"
C	25	MED	120-125	25 C15 FLAMESCENT AMBER DURO LITE	LS4716	30	3,000	155	4.48"

H19

IMAGE	WATTS	BASE	VOLTS	DESCRIPTION	ORDERING CODE	QTY/ CASE	AVERAGE RATED LIFE	LUMENS	M.O.L.[1]
D	75	MED	120-125	75 H19 CHIMNEY DURO LITE	LS4152	30	3,000	690	6.22"

*E These bulbs meet federal efficiency standards.

[1] Maximum Overall Length

ICON AND TERMS GLOSSARY

PRODUCT FEATURES

Dimmable; can be decreased in brightness with most traditional dimmers

Flashable; Instantly turns on and off and experiences no loss of life when used in flashing applications, such as signage

Works with 3-Way fixtures; allows the bulb to be turned on at 3 separate brightness levels

Weather-resistant; can be safely used in outdoor applications that are exposed to rain or snow

No discernable delay emitting light once powered on

Turns on at full brightness; no warm-up time needed to reach full light output

Fast Warm-up; reaches full brightness in 30 seconds of being powered on

UV Free; does not emit ultraviolet (UV) light

Mecury Free; does not contain mercury

Low Mercury; product contains less than 1.5mg of mercury

Food Service Qualified; Approved to NSF Standards

CERTIFICATIONS

This lamp meets minimum Federal efficiency standards.

DLC products are listed by the DesignLights Consortium® (DLC) as high quality, high efficiency LED products for the commercial sector.

DLC Premium products have reached a higher performance benchmark. This sometimes qualifies them for higher rebates.

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

ENERGY STAR® Lamps Specifications Version 2.0 went into effect on January 2, 2017. Items labeled V1 were rated prior to this update and are listed as archived.

GLOSSARY

"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.

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.

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.)

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.

BRIGHTNESS Commonly used as a reference to the degree of apparent lightness of a surface-its brilliancy or concentration of candle power; 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.

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, of the beam.

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.

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).

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.

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.

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.

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, ultra-violet, and infra-red light.

ELECTRONIC BALLAST A ballast that uses solid state electronic components and typically operates 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.

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

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.

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.

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 high-intensity 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.

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.

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.

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).

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

LEED LEED stands for Leadership in Energy and Environmental Design. The United States Green Building Council (USGBC) created LEED as a rating system for the design, construction, and operation of buildings in an environmentally friendly way. LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality.

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 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.

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 GLAZE A proprietary coating applied to all Neolite lamps prior to the phosphor. Lumen Glaze flushes out impurities from the inner glass tube and acts as a sealant to prevent any remaining impurities from deteriorating the phosphor coating. It also acts as an adhesive to improve phosphor adherence to the glass tube. This increases the lumen maintenance and lumen output of Neolite lamps.

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.

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.

OMNI-DIRECTIONAL Light output that goes in 320 degrees, with less than 20% variance in the amount of light output in all areas except near the base where at least 5% of the total light output is maintained.

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 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.

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.

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.

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.

ROHS RoHS is the acronym for Restriction of Hazardous Substances. RoHS originated in the European Union and restricts the use of specific hazardous materials, such as lead and mercury, found in electrical and electronic products.

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.

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 ceiling, 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 nonhazardous waste. The TCLP test measures the ability of the mercury and/or lead in a lamp to leach from a landfill into groundwater.

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.

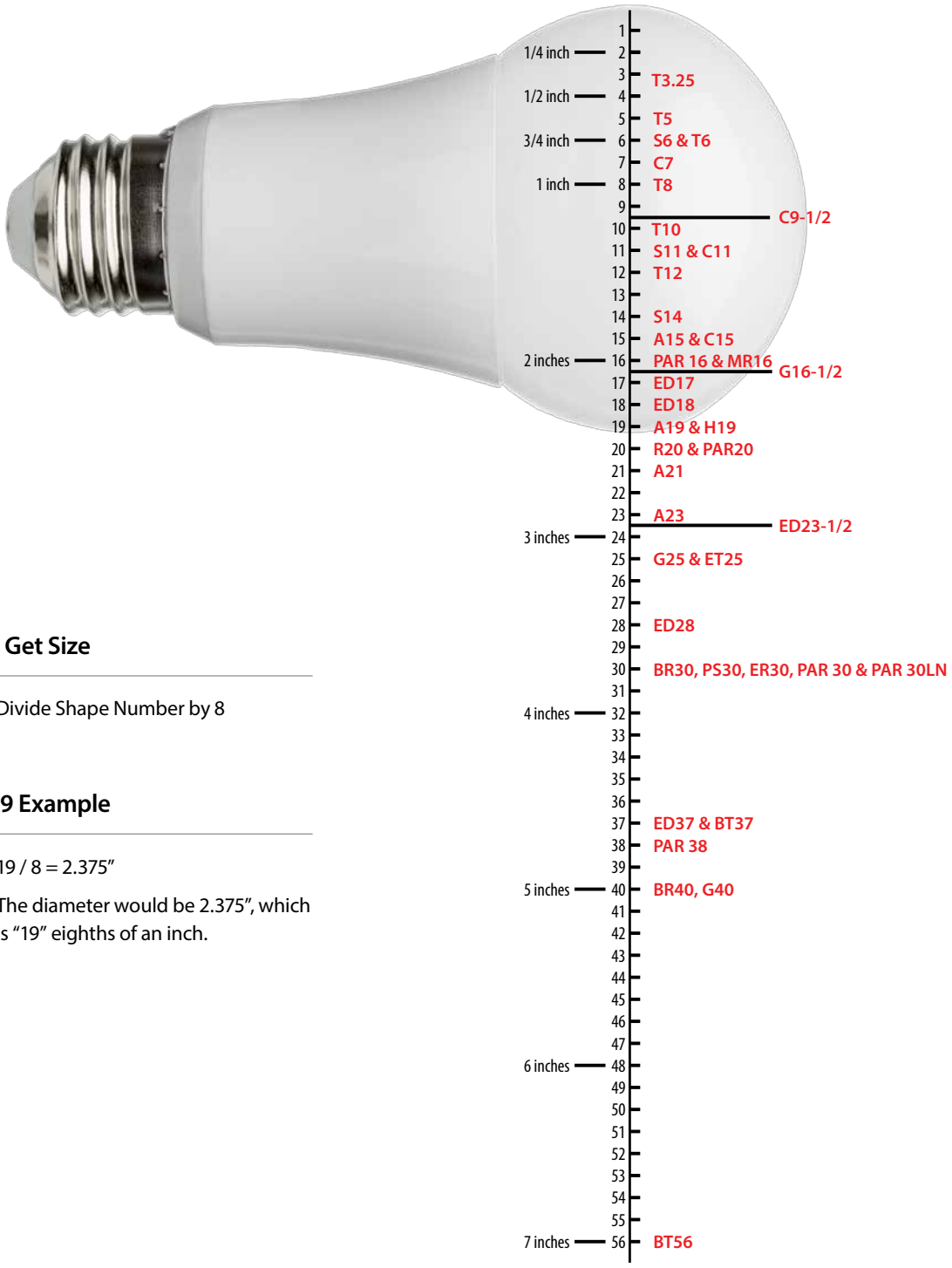
OVERALL LIGHTING EVOLUTION

As lighting has evolved, efficiency has increased drastically. With this, not only does upgrading increase length of life, but will also greatly influence overall cost. The chart below can be used to understand the options for your upgrade.

OLD STANDARD LESS EFFICIENT BULBS	ENERGY EFFICIENT LED ALTERNATIVE
 Incandescent A19	 LED A19 Omni
 Fluorescent T8 and U-Bend	 LED T8 LED RetroFit 2x2
 Halogen PAR 30 Halogen MR16	 LED PAR 30 LED MR16
 CFL S14 Signlight	 LED S14 SignLight
 HID ED17 HID Metal Halide Fixture	 LED Linear Low Bay LED High Bay

LEAST EFFICIENT ***MOST EFFICIENT***

LAMP SHAPE MEASUREMENT



To Get Size

- Divide Shape Number by 8

A19 Example

- 19 / 8 = 2.375"
- The diameter would be 2.375", which is "19" eighths of an inch.

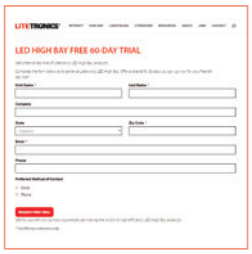
LAMP SHAPES

A	Arbitrary (Standard)	MR	Multi-Faceted Reflector	E/ED	Elliptical, Elliptical
PS	Pear Shape	BR	Bulbous Reflector	PAR	Parabolic Aluminized Reflector
C/CA	Conical, Candle	G	Globe		
S	Straight-sided	T	Tubular		
R	Reflector	BT	Bulged Tubular		

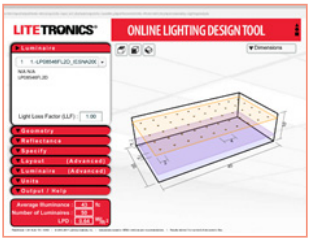
LITETRONICS.COM FOR THE MOST CURRENT INFORMATION

Litetronics.com collects the technical and ordering information you need in one place. Compatible across devices, it also provides an easy way to request quotes, free mock-up samples and product information.

ROI Calculator

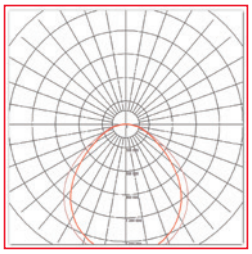


60-Day Trial Request



Custom Lighting Design Tool

Product Search



IES Files

Instructions

Case Studies

Enlightening Sheets

Also featuring:

- Ability to submit quote requests right from product pages
- MSDS Sheets
- Product compatibility lists
- Blog posts containing product and industry knowledge
- Downloadable Catalog

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