

# Clearlight LED Retrofits



Clearlight LED Retrofit for:

Dusk-till-Dawn, Ballast-in-Arm, 8" Recessed Can Lights, Soffit Lights, Garage Lights, and Assorted Decorative Fixtures

## Ratings:

- Conforms to UL standard 1598, CSA C22.2 No. 250, Standard for Safety of Luminaires
- IP65 weather protection
- Temperature rated at -40°C to 45°C

**Applications:** Recognized as the LED retrofit for HID NEMA dusk-till-dawn fixtures Clearlights can also be used in 8" recessed can lights, soffit lights, and some garage and decorative fixtures. Replaces up to 175W HID or incandescent bulbs.

**Installation:** Clearlights screw into the existing mogul, medium (E26), or GU-24 socket.

**Recommended Practice:** Wire around the legacy HID ballast for additional energy and maintenance savings. Always install a Clearlight in the 'light down' direction.

**Thermal Management:** Clearlights use both active and passive cooling making it a superior retrofit. Active cooling uses no bearings, brushes, or other frictional parts to rub or wear out and has low acoustical emissions. LED life is assured by thermal management protection circuitry that controls current levels to the LEDs based on temperature. Temperature is measured at the LED package, often referred to as the solder point temp, or  $T_{sp}$ . At 65°C the fixture begins to cut back on the current to the LEDs to either maintain, or reduce the temperature back down to 65°C.

C L E A R L I G H T - - - - - V - - - - -

PRODUCT ID	FAMILY	WATTS	PERFORMANCE CODES	PHOTOMETRIC TYPE	BASE	LENGTH	KIT OPTIONS
Clearlight = Clearlight Retrofit	Eco = EcoSpot	40 = 40 watts	6K-0	V = Type V	MO = Mogul	L = Long S = Short	0000
	Bea = Beacon	50 = 50 watts	4K-6 4K-8	V = Type V	MO = Mogul ME = Med 00 = Kit	L = Long S = Short 0 = Kit	0000 105B 732B
					GU = GU-24*	S = Short	0000

\*GU-24 only available in Short

## PERFORMANCE CODES

Code	CCT**	CRI	Lumens	LED mA	BUG	IES File Numbers
6K-0	6000K ± 500	74	2160	650ma	B1-U1-G0	ITL63336/ 63337
4K-6	3800-4800K	>60	>3000	940ma	B2-U3-G1	pending
4K-8	3800-4200K	>80	>2700	940ma	B2-U3-G1	ITL70624/70625

## ELECTRICAL PERFORMANCE

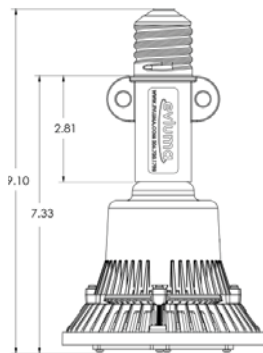
- 120-277 VAC 50/60 Hz
- Power Factor >90% and THD <20%
- Class C Lighting Strike Protection for long life in harsh electrical environments
- Integral High capability surge protection for 120- 277 VAC per IEEE/ANSI C62.42.2 - 2002 at 6kV/3kA Location Category C-Low
- **Optional** high capability surge protection for 20kV/10kA per IEEE/ANSI C62.42.2 - 2002 Location Category C-High



# Clearlight LED Retrofits

## EcoSpot

40W LED Clearlight



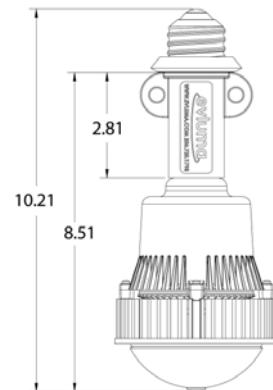
Mogul Base L= Long 9.10"

### Construction

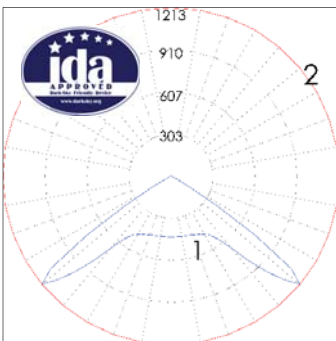
- Die cast and extruded aluminum
- Powder coated housing
- High efficiency reflective optics with a customized, impact-modified optical acrylic diffused cover
- Contains 16 highly efficient LEDs
- Silicone encapsulated integral driver in weather tight compartment
- Durable and shatter resistant
- Mercury free. PCBs and solder are lead free

## Beacon

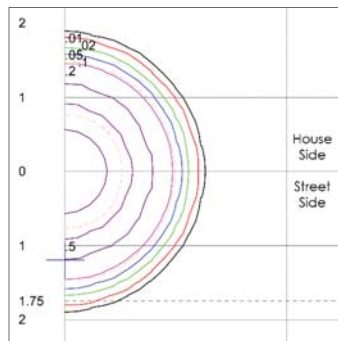
50W LED Clearlight



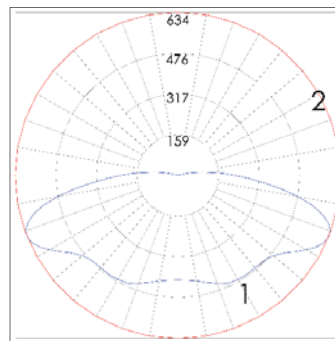
Mogul Base L= Long 10.21"



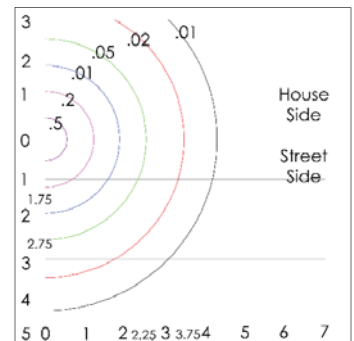
**EcoSpot Polar Candela Distribution:**  
Vertical Plane (1) and Horizontal Cone (2)  
through Maximum Candela



**EcoSpot IsofootCandle Plot:**  
Values Based on 25.25 ft. Mounting Height  
Peak Vertical Angle: 50°



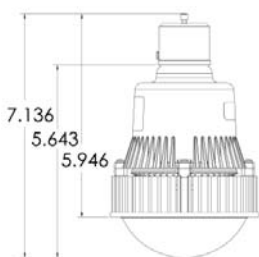
**Beacon Polar Candela Distribution:**  
Vertical Plane (1) and Horizontal Cone (2)  
through Maximum Candela



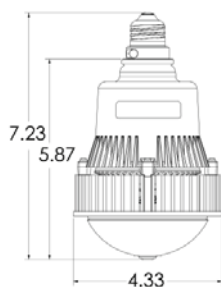
**Beacon IsofootCandle Plot:**  
Values Based on 25.25 ft. Mounting Height  
Peak Vertical Angle: 67.5°

## Beacon

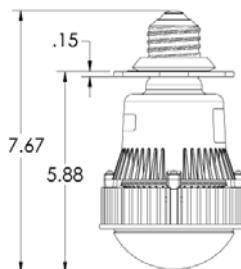
GU-24 Short



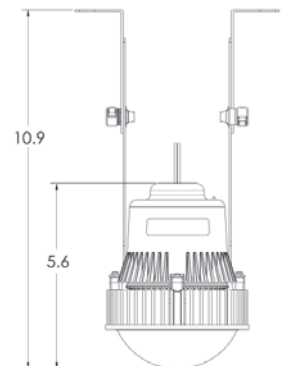
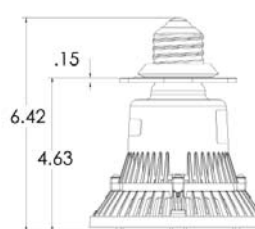
Medium Short



Mogul Short



Mogul EcoSpot 105B, Universal Bracket



5 Year Warranty. Lumen Maintenance (L70) at 70,000 hours.

Watts given at typical operating temperature.

\*\*CCT determined by manufacturer bins available.

LM-79 Photometric & Electrical Performance verified by ITL Boulder.

LM-80 data available. In-Situ testing performed by CLTC.

Evluma is a member of Quality Advocates. All data subject to change without notice. Made in the U.S.A. of U.S. and imported parts.

**lighting facts**  
LED Product Partner

**evluma**

624 Rainier Ave South, Seattle, WA 98144 206-720-1798 [www.evluma.com](http://www.evluma.com)

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