

# EcoFit® LED Light Engine

The smart solution. The right fit.™



## Made in the USA

Meets ARRA Guidelines  
Manufactured in Lee's Summit, MO

## Universal Application

Roadway

Parking Lot – shoebox, pendant, post-top (*with adapter plate*)

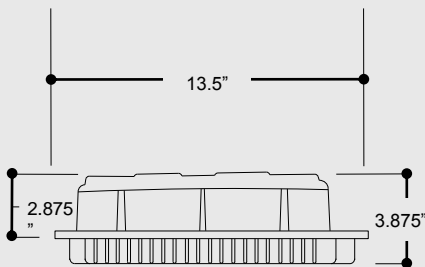
Parking Garage – housing required

Indoor High Bay – housing required

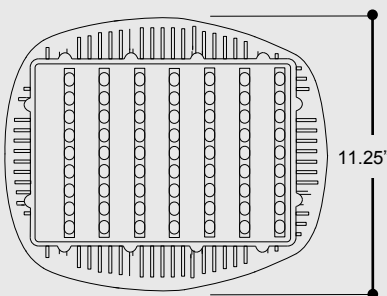
## Independent Performance Tests

EcoFit provides 3<sup>rd</sup> party validation from the most recognized testing laboratories available on [www.ecofitlighting.com](http://www.ecofitlighting.com).

- Photometrics (LM-79)
- Thermal management (LM-80)
- Safety (UL 8750/1598, CSA C22.2)
- Corrosion (ASTM-B117)
- ISO 9000-2001 manufacturer
- RoHS compliant
- Ingress protection (IP-66)
- Pole vibration (ANSI-C136.3)
- Mechanical stress
- Surge Protection (IEEE C62.45)
- Transient protection (IEEE C62.41)
- Noise (47CFR-15B)



Product weight = 13 pounds.



## Approvals and Endorsements

Design Lights Consortium approved  
DOE Lighting Facts listed (all models)  
Cree LED City/University approved  
International Dark Sky Association approved  
PG&E Pre-qualified vendor  
SCE Pre-qualified vendor



Specifications subject to change without notice.  
U.S. Patents D611647, D611648. Other U.S. and International patents pending.

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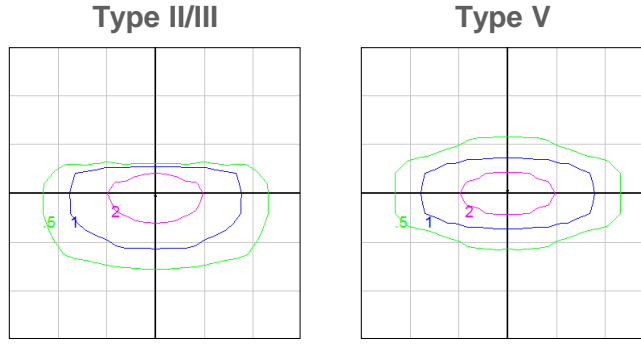
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## Photometrics

**Isofootcandle Plots**  
Initial footcandles at grade.  
90/525mA unit example.

Gridlines represent units of mounting height of 20 feet.



## Standard Features

- 0-10V dimming
- Overtemp protection
- Lightning Arrestor (10kV/5kA)
- Warranty – 5 year on power supply, LEDs, 10 year on chassis/housing

## LED & Electrical Performance

Model	Drive Current (mA)	CRI	Input Power (W)	Input Current (120V)	Input Current (240V)	Type III		Type V	
						Delivered Lumens	Total System Efficacy (Lm/W)	Delivered Lumens	Total System Efficacy (Lm/W)
30	350	≥80	37	0.317A	0.185A	2,265	61	2,262	60
30	525	≥81	56	0.481A	0.235A	3,005	54	2,973	52
42	350	≥81	48	0.408A	0.223A	3,144	65	3,180	65
42	525	≥81	73	0.620A	0.322A	4,145	57	4,192	56
63	350	≥81	70	0.588A	0.308A	4,533	64	4,488	65
63	525	≥82	106	0.892A	0.450A	5,900	56	5,784	55
90	350	≥70	91	0.761A	0.380A	6,365	70	7,375	82
90	525	≥70	136	1.133A	0.567A	8,252	61	9,764	71

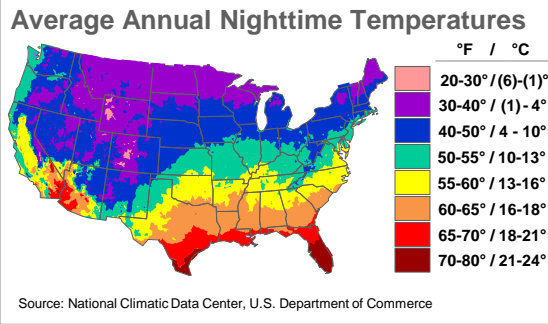
1. Input voltage (120-277 VAC).

2. 480V also available. Operating frequency 50-60 Hz.

3. Power factor > 0.90, THD < 20%.

4. All BUG ratings are B2-U0-G1 or below.

## LED Junction Temperature (T<sub>J</sub>) & Projected L<sub>70</sub> Life



L70 Lifetime Expectancy (LM-80 Test Data)									
Model		Average Nighttime Outdoor Temperature							
LEDs	Drive Current	<32°F (0°C)	41°F (5°C)	50°F (10°C)	59°F (15°C)	68°F (20°C)	77°F (25°C)	86°F (30°C)	95°F (35°C)
30	350	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000
30	525	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000
42	350	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000
42	525	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000
63	350	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000
63	525	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000
90	350	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000
90	525	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000	≥75,000

Note: L<sub>70</sub> life projections are provided by Philips Lumileds, and are based on IES LM-80 testing and IES TM-21 extrapolation methods. Using these methods, Lumileds projects a worst case of 75,000 L<sub>70</sub> hours for 4100K LEDs operated at 700mA and at LED temperatures (T<sub>SP</sub>) of 105°C. Since these levels of drive current and LED temperature are well above EcoFit's highest levels, the L<sub>70</sub> hours shown above should be regarded as conservative. For more information, see [www.EcoFitLighting.com](http://www.EcoFitLighting.com).

## Ordering Information

<b>D</b>	<b>2/3</b>	<b>120/240</b>	<b>350</b>	<b>CXRE</b>	<b>30</b>	<b>4600</b>	<b>CE</b>
<b>Product Series</b>	<b>Distribution</b> 2/3 = Type II/III 5 = Type V	<b>Input Voltage</b> 120-240 = Universal (120-240 VAC) 277 = 277 VAC	<b>LED Drive Current</b> 350 = 350mA 525 = 525mA	<b>LED Supplier</b> CXPE = Cree X-PE REBEL = Lumileds Rebel	<b>LED Quantity</b> 30 = 30 LEDs 42 = 42 LEDs 63 = 63 LEDs 90 = 90 LEDs	<b>LED Color Temperature</b> 4600 = 4600K (Neutral) Nominal Other color temperatures available by request.	<b>Housing</b> AP = Adaptor Plate CE = Ceiling FL = Floodlight CO = Cobra Head