

EPL-HB-100LED-RT-480V

480V Class I Division 1 Explosion Proof 100 Watt High Bay LED Light Fixture - Paint Spray Booth

Product ID: 144415

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: EPL-HB-100LED-RT-480V

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

EPL-HB-100LED-RT-480V - C1D1 High Bay LED Light

Listing: United States - Canada

Lamp Type: Cree LED

Dimensions: 14"H x 16"W 5"D

Weight: 32 lbs

Voltage: 347-480V AC

Total Watts: 100W

Total Lumens: 14,000

Luminous Efficiency: 140 Lm/W

Lamp Life: 60,000+ Hours

Color Temp: 5000K, 4000K, 3000K

Color Rendering Index: >75 CRI

Beam Angle: 60° or 125°

Lighting Configuration: Flood Pattern

NEMA Type (Lighting): 6H x 6V (60° Optics); 6H x 6V (125° Optics); 6H x 7V (140° Optics)

IES Classification: Type I (60° Optics); Type VS (125° Optics); Type VS (140° Optics)

Longitudinal Classification: Very Short (60° Optics); Very Short (125° Optics); Short (140° Optics)

Cutoff Classification: Cutoff

CIE Type: Direct

BUG Rating: B4-U1-G0 (60° Optics); B4-U1-G1 (125° Optics); B3-U1-G2 (140° Optics)

Power Efficiency: >95%

Ratings/Approvals

Listed for United States and Canada

Class I, Divisions 1 & 2, Groups C and D

Class II, Divisions 1 & 2, Groups E,F,G

Class III, Divisions 1 & 2

Certified to UL 844 Ed. 13

Certified to UL 1598

Certified to C22.2 No. 137 Rev 2009

Certified to C22.2 No. 250.0

T5 Temperature Rating

Paint Spray Booth Approved

IEC 60529 Tested

IP67 Rated Waterproof

LEL Approved

Multiple Driver Banks

80% Lumen Retention after 60,000 Hours

Factory Sealed Light Fixture

Recommended 15' to 40' Mounting Height

Power Factor: 0.992
Amperage: 0.83A @ 120V, 0.42 @ 240V, 0.36 @ 277V
Ambient Operating Temp Range: -50° C to +65°C
Operating Temp Rating: T5
Housing Material: Copper Free Cast Aluminum
Lens Material: Hardened Borosilicate Glass
Gasket Material: Silicone
Mounting: 3/4" Pendant & Swivel Mount - Both Ship w/ Fixture
Wiring: 10' 16/3 SOOW w/ Flying Leads
Wiring Hub: 3/4" NPT

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

The Larson Electronics EPL-HB-100LED-RT-480V Explosion Proof High Bay light fixture provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. Cree LED technology and compact design makes this lamp an excellent replacement upgrade option for bulky and high maintenance cost older incandescent, metal halide and high pressure sodium lights.

This Class I Division 1 & 2, Class II Division 1 & 2 explosion proof light fixture provides 14,000 lumens of high quality light while drawing only 100 watts. The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. Special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 60,000 hour rated lifespan with 80% lumen retention. Light weight and a low profile make this unit an attractive alternative to larger and heavier older fixtures and requires less hardware to install.



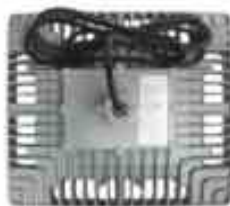
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The explosion proof LED light fixture features multiple LED drivers which helps to increase the operational life of the fixture. With traditional LED lights, in the event an LED array or driver fails, the entire fixture no longer illuminates. This new series of LED lamps contains eight individual LED boards configured in a series of banks. Each bank contains two LED boards with an individual driver. In the event of a driver failure, only one bank of LEDs will be effected while the other banks will continue to operate. In the event that of an LED failure, the mating LED will continue to operate.

Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. Instead of heating a small filament or using a

combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.

This light is universal voltage capable and can be operated with 347-480 VAC without modifications. 347V is common in Western Canada, while 480V is common in the United States and Eastern Canada. This explosion proof LED light fixture is IP67 rated, dust-proof, and protected against high pressure jets and temporary submersion. The cast aluminum body and LED lamp give this light excellent durability and resistance to vibration and impacts. The housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LEDs and electronics.

Energy Consumption Comparison

	<u>Metal Halide</u>	<u>LED</u>
Wattage	250 watts	100 watts
Amp Draw @ 347V AC	0.83 amps	0.29 amps
Amp Draw @ 480V AC	0.60 amps	0.21 amps
Lamp Life Expectancy	20,000 hours	50,000+ hours
Operation cost per year (12hs/day @ 12c/kWh)	\$149.80	\$52.56

Each LED light fixture has the potential to save ~\$100.00+ per year in electricity alone, not including maintenance costs, operational downtime, reduced productivity, HVAC loads, or carbon footprint. When retrofitting an entire facility with 100s of light fixtures, the return on investment of LED over metal halide becomes evident.

This LED light produces 14,000 lumens with a color temperature of 5000K and a color rendering index of 75 which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries. We also offer a 3000K warm white and 4000K natural white color temperature options (longer lead times may apply for non-standard temperatures). The EPL-HB-100LED-RT-480V offers several mounting options including ceiling mounting, pendant mounting, wall mounting and cable mounting. The standard version of this explosion proof LED fixture includes a pendant mount and a surface mount option.

High Quality Features

1. Low power consumption.
2. Instant on/off operation.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy.
4. Superior color rendering compared to HPS, LPS, MH.

Superior LED Benefits

1. 60,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of



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| 5. Retains 80% lumen output after 60,000 operating hours. | peripheral cooling units (A/C, refrigeration) |
| 6. Powder coated aluminum fixture body. | 5. 100% recyclable. |
| 7. Pendant and Swivel Bracket mount included | 6. No toxins-lead, mercury. |
| 8. Low profile - Light weight | 7. No UV light, infrared radiation or CO2 emissions. |
| 9. 14,000 Lumen output from 100 watts | 8. Qualifies buildings for LED and other sustainable business certifications. |
| | 9. Bright, even light maintains consistent color over time. |
| | 10. Instant on/off – No flickering, delays or buzzing. |
| | 11. Very good color rendering. |
| | 12. Vibration/impact resistant. |
| | 13. Significantly cooler operation. |
| | 14. Less frequent outages, higher output improves workplace safety. |



Frequently Asked Questions (FAQ)

There are no Fags

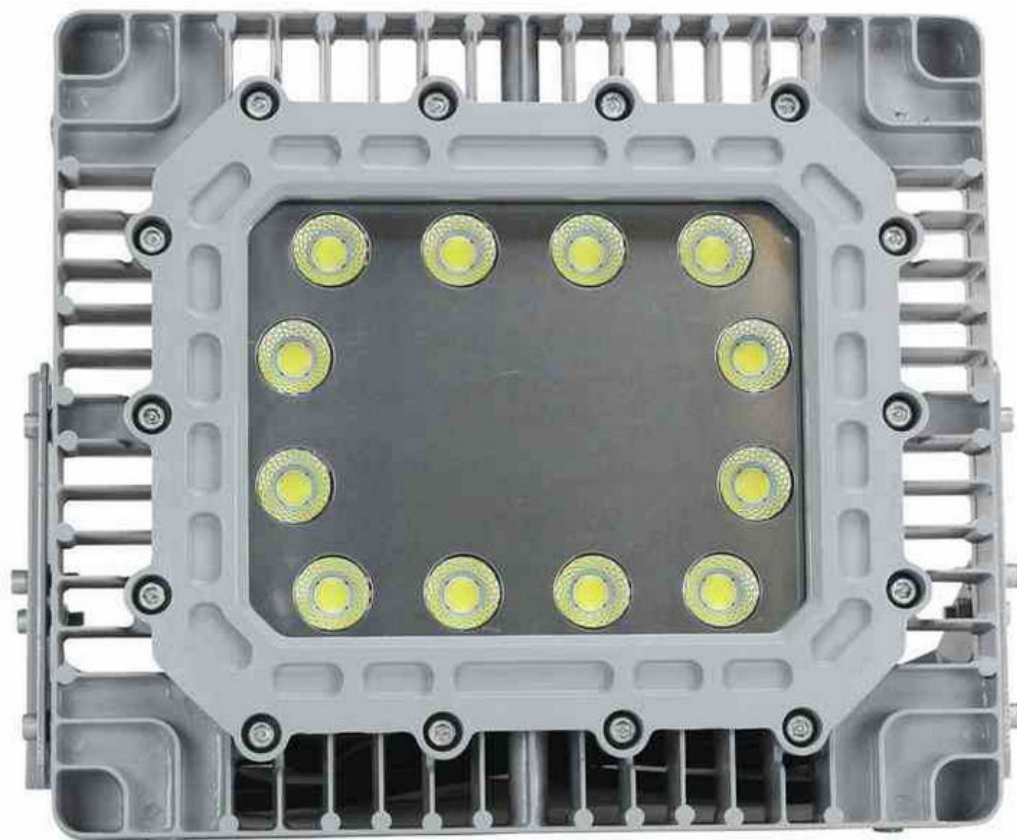


Image: EPL-HB-100LED-RT-480V



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EPL-HB-100LED-RT-480V

Product ID: 144415

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-HB-100LED-RT-480V-Beam Angle

Example: EPL-HB-100LED-RT-480V-60B

Beam Angle	
60°	-60B
125°	-125B

Links (Click on the below items to view):

- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(<https://www.larsonelectronics.com/images/product/CECCert/144415.PDF>)
- **IES (Photometric File)**(<https://www.larsonelectronics.com/images/product/ies/144415.ZIP>)
- **LM79**(<https://www.larsonelectronics.com/images/product/LM79/144415.PDF>)
- **LM80**(<https://www.larsonelectronics.com/images/product/LM80/144415.PDF>)
- **Operations Manual**(<https://www.larsonelectronics.com/images/product/Manual/144415.PDF>)
- **Photometric Flood Report**(<https://www.larsonelectronics.com/images/product/FloodReport/144415.PDF>)
- **Photometric Indoor Report**(<https://www.larsonelectronics.com/images/product/IndoorReport/144415.PDF>)
- **Photometric Polar Graph**(<https://www.larsonelectronics.com/images/product/PolarGraph/144415.PDF>)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(<https://www.larsonelectronics.com/images/product/NECCert/144415.PDF>)
- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/144415.JPG>)
- **HigResPic2**(<https://www.larsonelectronics.com/images/product/HigResPic2/144415.JPG>)
- **HigResPic3**(<https://www.larsonelectronics.com/images/product/HigResPic3/144415.JPG>)
- **HigResPic4**(<https://www.larsonelectronics.com/images/product/HigResPic4/144415.JPG>)
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- **HigResPic8**(<https://www.larsonelectronics.com/images/product/HigResPic8/144415.JPG>)
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- **HigResPic10**(<https://www.larsonelectronics.com/images/product/HigResPic10/144415.JPG>)
- **Video1**(https://www.youtube.com/watch?v=IU_55HyiXV8)
- **Video2**(<https://www.youtube.com/watch?v=rvPRFZk-Fpc>)
- **ISO 9001 Certification**(<http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF>)
- **Business Certificate**(<https://www.larsonelectronics.com/images/pdfdocs/w9.PDF>)
- **Shipping Time Map**(<https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf>)