Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

EPL-HB-150LED-RT-JB3-12C-E2E-EPPC

150W C1D1 Explosion Proof High Bay LED Light Fixture - 21000 Lumens - 12' SOOW Cord w/ EPP Cord Cap - 12' 12/3 SOOW Cord w/ EPP Connector - End to End Connectable

Product ID: 281520

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



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-150LED-RT-JB3-12C-E2E-EPPC - C1D1 High Bay LED End to End Connectable Light

Listing: United States - Canada
Lamp Type: Cree LED
Dimensions: 14"-H x 16"-W x 5"-D
Weight: 32 lb
Voltage: 100-240 Volts AC, 50/60 Hz
Total Watts: 150W
Total Lumens: 21,000
Luminous Efficacy: 140 Lm/W
Lamp Life: 60,000+ Hours
Color Temp: 5600K, 5000K, 4500K, 4000K, 3500K, 3000K, 2700K, or 6500K
Color Rendering Index: >75 CRI
Beam Angle: 60°, 125°, or 140°
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: B5-U1-G1 (60° Optics); B4-U1-G1 (125° Optics); B4-U1-G2 (140° Optics)
Power Efficiency: >95%
Power Factor: 0.992
Ambient Operating Temp Range: -50°C to +65°C

Ratings/Approvals

NRTL 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
NRTL Certified to UL 844 Ed. 13
NRTL Certified to UL 1598
NRTL Certified to C22.2 No. 137 Rev 2009
NRTL Certified to C22.2 No. 250.0
NRTL Certified to C22.2 No. 30-M-1986 Rev 2012
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
3.5kV Surge Protection (NTC Circuit)
Recommended 15' to 40' Mounting Height
End to End Connectable

Operating Temp Rating: T5

Housing Material: Copper Free Cast Aluminum

Housing Finish: Epoxy Powder Coated - Grey

Lens Material: Hardened Borosilicate Glass

Gasket Material: Silicone

Mounting: Surface Mount

End to End Connectable: Up to 15 Units @ 120 V; Up to 25 Units @ 208-240 V

Wiring: 12' 12/3 SOOW Input Cord w/ Explosion Proof Cord Cap; 12' 12/3 SOOW Output Cord w/ Explosion Proof Connector

Cord Cap Options: 5-20P (w/ Matching Connector on Output) or 6-20P (w/ Matching Connector on Output)

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: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The EPL-HB-150LED-RT-JB3-12C-E2E-EPPC from Larson Electronics is an Explosion Proof High Bay LED End to End Connectable Light Fixture that 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. The EPL-HB-150LED-RT-JB3-12C-E2E-EPPC can be connected via end to end connection with up to 15 units end-to-end on 120 V and up to 25 units together on 208-240 V.

This Class I Divisions 1 & 2, Class II Divisions 1 & 2 explosion proof light fixture provides 21,000 of high quality light while drawing only 150 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.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge







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 twelve 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.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. 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 is applied, providing instant illumination with no

warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.
LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.
This light can be operated with 100-240 V AC, 50/60 Hz. 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

	Metal Halide	LED
Wattage	400 watts	150 watts
Amp Draw @ 120V AC	3.83 amps	1.25 amps
Amp Draw @ 220V AC	2.09 amps	0.68 amps
Amp Draw @ 240V AC	1.92 amps	0.63 amps
Lamp Life Expectancy	20,000 hours	50,000+ hours
Operation cost per year (12hs/day @ 12c/kWh)	$241.78	$78.84

Each LED light fixture has the potential to save $150.00+ 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 21,000 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-150LED-RT-JB3-12C-E2E-EPPC is a surface mounted fixture.
End to End Connectable: The EPL-HB-150LED-RT-JB3-12C-E2E-EPPC is an end to end connectable fixture. Otherwise known as daisy chain connecting, operators can connect multiple EPL-HB-150LED-RT-JB3-12C-E2E-EPPC light fixtures together to power them from a single power source. When operating on 120 V, up to fifteen units can be connected together. When operating on 208-240 V, up to 25 units can be connected together.

Click Photos to Enlarge



5-20 Straight Blade Plug



6-20 Straight Blade Plug

Wiring & Plug: This explosion proof flood light is equipped with a 3 way junction port on the back. The input side is equipped with 12` of 12/3 SOOW cord and is terminated in a choice of 20-amp explosion proof cord cap. Plug options include a 5-20 20 amp straight blade plug for use with 120 V explosion proof outlets or a 6-20 20 amp straight blade plug for use with 220-240 V explosion proof outlets. Please make your selection when ordering. The output side of the is equipped with 12` of 12/3 SOOW and a 20-amp explosion proof connector that matches the chosen cord cap.**PLEASE NOTE** voltage ratings on plugs and outlets are MAXIMUM voltage. For low voltage applications, proper voltage must be applied to*

the outlet or damage to the light fixture will occur.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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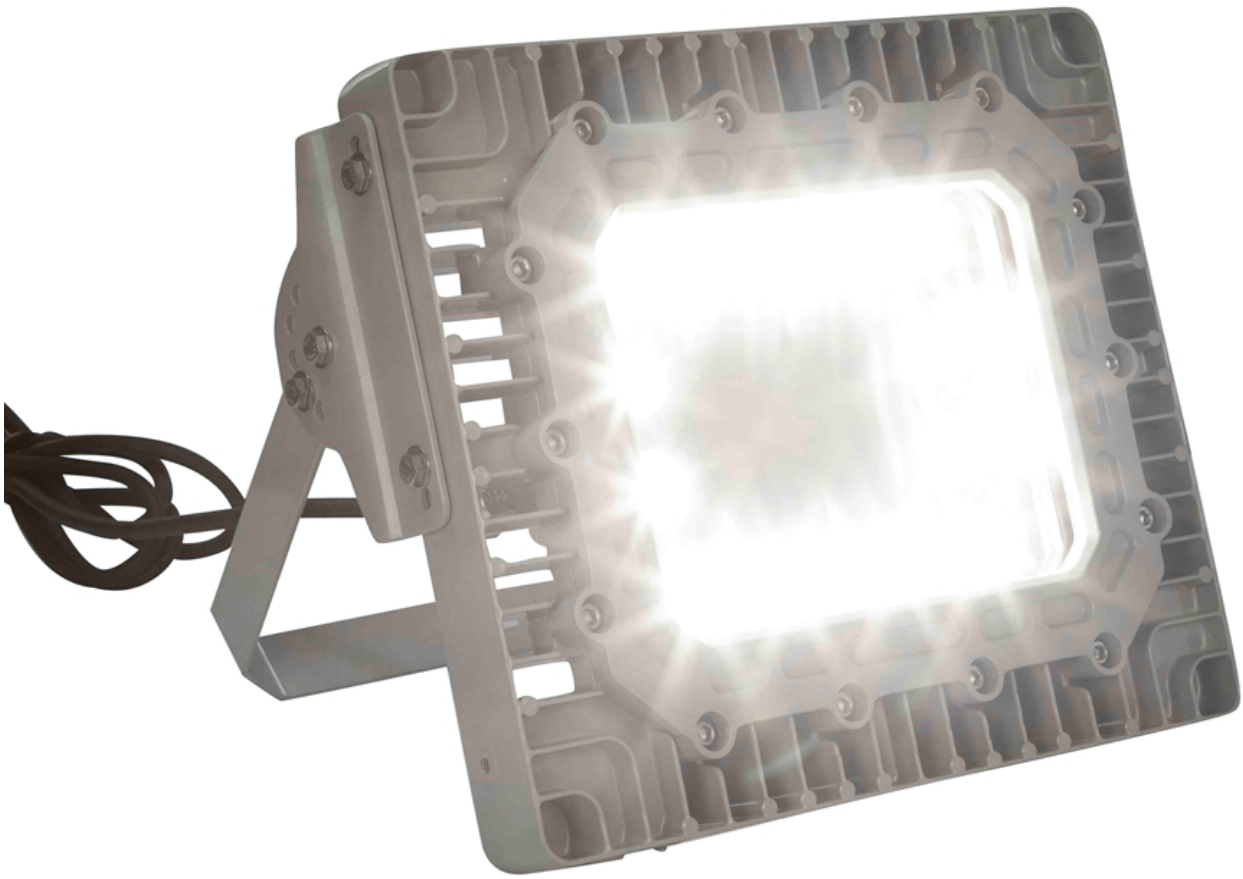
Frequently Asked Questions (FAQ)



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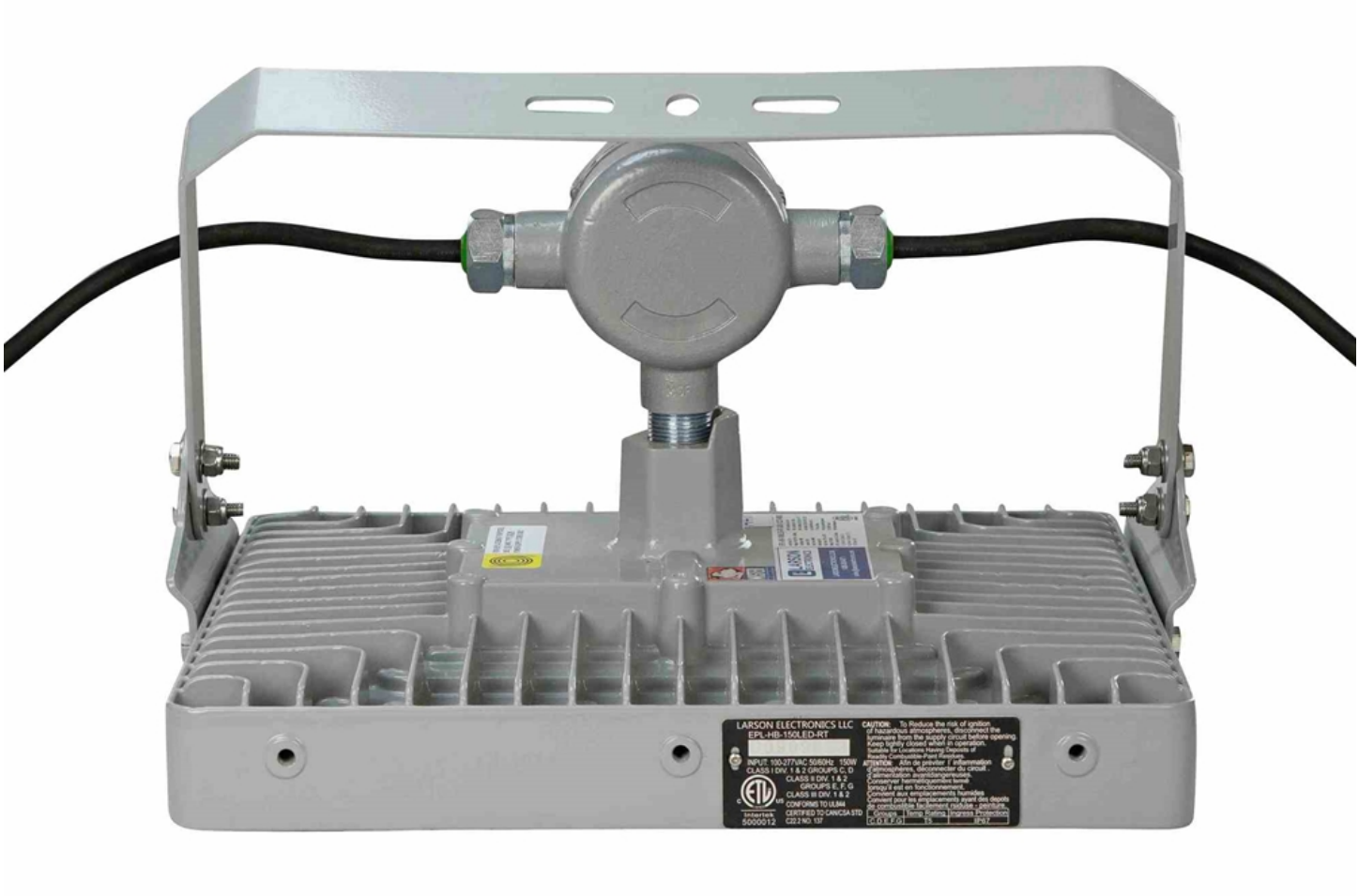


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Product ID: 281520

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-HB-150LED-RT-JB3-12C-E2E-EPPC-Cord Cap-Beam Angle-Color Temp

Example: EPL-HB-150LED-RT-JB3-12C-E2E-EPPC-2023.125V-60B-56K

Cord Cap	
5-20	-2023.125V
6-20	-2023.250V

Beam Angle	
60°	-60B
125°	-125B
140°	-140B

Color Temp	
5600K	-56K
5000K	-50K
4500K	-45K
4000K	-40K
3500K	-35K
3000K	-30K
2700K	-27K
6500K	-65K

Links (Click on the below items to view):

- **Wiring Diagram (Oneline)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**