

EPL-HB-2X150LED-RT

Class 1 Division 1 Explosion Proof 300 Watt High Bay LED Light Fixture - Paint Spray Booth Approved

Product ID: 71050

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-2X150LED-RT - C1D1 High Bay LED Light

Lamp Type: Cree LED

Dimensions: 27.85"L x 16.07"W x 16.76"H

Weight: 67 lbs

Voltage: 100-277 Volts AC, 50/60Hz, 11-25 Volts AC/DC, 18-48V AC/DC, 347-480V high voltage, 125-250V DC, and 0-10V dimmable

Total Watts: 300W

Lumens: 42,000

Luminous Efficacy: 140 Lm/W

Lamp Life: 60,000+ Hours

Color Temp: 5000K, 4000K, 3000K

Color Rendering Index: >75 CRI

Beam Angle: 60°, 125°, or 140°

Lighting Configuration: Flood Pattern

Power Efficiency: >95%

Power Factor: 0.992

Amp Draw: 2.5A @ 120V, 1.25A @ 240V, 1.08A @ 277V, 12.5A @ 24V

Ambient Operating Temp Range: -50° C to +85°C

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: Swivel Mount or Pendant Mount

Wiring Hub: 3/4" NPT

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

Certified to C22.2 No. 30-M-1986 Rev 2012

T5 Temperature Rating

Paint Spray Booth Approved

ABS Type Approved

IEC 60529 Tested

IP67 Rated Waterproof

LEL Approved

Multiple Driver Banks

80% Lumen Retention after 60,000 Hours

Factory Sealed Light Fixture

Field Serviceable

Recommended 15' to 40' Mounting Height

Made in the USA

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

Made in Texas

The Larson Electronics EPL-HB-2X150LED-RT Explosion Proof High Bay light fixture provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. This Class I Division 1 & 2 and Class II Division 1 & 2 LED fixture provides 42,000 lumens at 300 watts. Paint spray booth listed, this high output fixture is designed for installation in locations where flammable gases, vapors and liquids, combustible dusts, and/or ignitable fibers and flyings exist or have the potential to exist. Cree LED technology and compact design makes this lamp an excellent replacement upgrade option for bulky and high maintenance cost older metal halide and high pressure sodium lights.

*****PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO THIS HAZARDOUS LOCATION LIGHT FIXTURE*****

This Class I Division 1 & 2, Class II Division 1 & 2 explosion proof light fixture provides 35,000 of high quality light while drawing only 300 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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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.

LED Drivers: Even in LED fixtures, heat is the single largest factor in premature light failure and color shifting. As a result, many manufacturers reduce the output of their LEDs in order to reduce the amount of heat produced. Rather than lower light output or quality, Larson Electronics addresses this problem with the addition of electronic LED drivers. These internal drivers provide the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels

across a specific range. This not only reduces the energy dissipation, effectively lowering the operating temperature of the fixture, but also prevents AC over-voltage and short circuit loading making this fixture virtually maintenance free. Because the electronic drivers allow the EPL-HB-2X150LED-RT to run at a cooler internal temperature and regulates the electrical current, energy efficiency and LED service hours are maximized while at the same time reducing operating costs and downtime incurred from the frequent servicing intervals required with other hotter running lights. 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. With the EPL-HB-2X150LED-RT series of explosion proof lamps from Larson Electronics, each LED fixture contains twelve individual LED boards configured in a series of banks. Each bank contains two LED on a single board 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.

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Beam Angles: When used as a fixed mount fixture, the varying beam angles need to be mounted at certain heights in order to achieve the greatest coverage and efficiency in both high bay and low bay lighting situations. The 60° beam should be mounted in high bay fixtures over 25' in height and 25' away from objects if used as a wall mounted light. The 125° beam is ideal for low bay fixtures in a height range of 15-25 feet and the same distance away from objects when the wall mounting option is employed. The 140° beam is best used as a low bay fixture in areas with a ceiling height of 15' or less or for illuminating objects up to 15' away when wall mounted. Each LED light on this unit produces 42,000 lumens with a color temperature of 5000K standard 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). This lamp uses Cree LED units that have been chosen for their high lumen per watt ratio and extreme longevity. These Cree LEDs generate a robust 140 lumens per watt effective lumen output and have a 80% lumen retention at 60,000 hours, giving them better efficiency and operational life than traditional light sources.

Field Serviceability: This explosion proof LED light fixture is field serviceable. All major internal components can be purchased from Larson Electronics and installed by a licensed electrician with basic tools. With most explosion proof fixtures, the fixture must be returned to the manufacturer for repair work, which presents downtime and long turn around times for repair work. Larson Electronics addresses this issue with the EPL-HB-2X150LED-RT series with field serviceability, allowing operators to perform service work without having to return the fixture to the manufacturer in the event of damage or failure.

Energy Consumption Comparison

	<u>Metal Halide</u>	<u>LED</u>
Wattage	800* watts	300 watts
Amp Draw @ 120V AC	7.67 amps	2.5 amps
Amp Draw @ 220V AC	4.19 amps	1.37 amps
Amp Draw @ 240V AC	3.84 amps	1.25 amps
Amp Draw @ 277V AC	3.33 amps	1.08 amps
Amp Draw @ 12V DC	66.67 amps	25 amps
Amp Draw @ 24V DC	38.34 amps	12.5 amps

Lamp Life Expectancy	20,000 hours	60,000+ hours
Operation cost per year (12hs/day @ 12c/kWh)	\$483.56	\$157.68

*Includes ballast factor of 1.15 for metal halide

Each LED light fixture has the potential to save \$325.00+ 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.

Voltage: This light is universal voltage capable and can be operated with 100-277V AC, 50/60 Hz without modifications to the fixture, and a low voltage version of this LED fixture that operates on AC/DC voltages from 11-25 volts for rigs and vision systems. 18-48V AC/DC voltages are available for network systems and marine vessels. We also offer an additional 347-480V high voltage, 125-250V DC, and 0-10V dimmable versions of this explosion proof LED light fixture.

Mounting: The EPL-HB-2X150LED-RT offers several mounting options including ceiling mounting, pendant mounting, and wall mounting. Ceiling and wall applications are mounted using the adjustable swivel mount bracket found on the rear of the unit. Pendant applications are mounted from the ceiling and are suspended by rigid pipe via the 3/4" NPT hub on the back of the explosion proof fixture. Wiring is fed through rigid pipe to the junction box and tied in to the fixture's lead wires, completing the electrical connection.

This explosion proof LED light fixture is paint spray booth listed, 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.

Suggested Applications: The EPL-HB-2X150LED-RT is approved for use within environments where flammable or combustible gases, vapors, dusts, fibers, and flying exist or stand the potential to exist, and is ideal for a wide variety of applications. Applications include but not limited to aircraft maintenance, alcohol processing, aerospace, chemical manufacturing, coke processing, cold storage, compressed natural gas (CNG) facilities, cranes, cryogenics, distilleries, food processing (with food grade gasketed polycarbonate lens: [EPL-HB-150LED-RT-188](#)), fuel storage, gas processing plants, grain processing, laboratories, liquefied natural gas (LNG) facilities, liquid propane gas (LPG), manufacturing, marine vessels, methane production, mining, offshore, oil drilling rigs, oil refineries, paint spray booths, paper processing, petrochemical, pharmaceuticals, power plants, production refineries, sand blast cabinets, sewage and septic tanks, shipyards, solvent and cleaning areas, storage facilities, tank farms, tankers, textile, washdown areas, waste treatment plants, and woodworking. [Click here to read the NEC description for explosion proof and hazardous locations.](#)

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.

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.
5. Retains 80% lumen output after 60,000 operating hours.
6. Powder coated aluminum fixture body.
7. Pendant and Swivel Bracket mount included
8. Low profile - Light weight
9. 42,000 Lumen output from only 300 watts
10. Multiple LED Driver Banks for Redundancy
11. Paint Spray Booth Approved

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 peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
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)









EPL-HB-2X150LED-RT

Product ID: 71050

Warranty: 60 Months

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-HB-2X150LED-RT-Voltage-Beam Spread-Color Temp

Example: EPL-HB-2X150LED-RT-1227-60DB-56K

Voltage	
120-277V AC	-1227
11-25V AC/DC	-1224

Beam Spread	
60°	-60DB
125°	-125DB
140°	-140DB

Color Temp	
5600K	-56K
5000K	-50K
4500K	-45K
4000K	-40K
3000K	-30K

Links (Click on the below items to view):

- [Dimensional Drawing 2D](#)
- [IES \(Photometric File\)](#)
- [Operations Manual](#)
- [SpecSheetArabic](#)
- [SpecSheetFrench](#)
- [SpecSheetRussian](#)
- [SpecSheetSpanish](#)
- [STEP File \(3D CAD Model\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
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- [Video1](#)
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- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)