

EPL-HB-50LED-RT-JB2-V2-24V-12.3-150

50W Explosion Proof Low Bay LED Light - 24V DC - Extended Bracket - Blunt Cut End

Product ID: 154734

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



Image: EPL-HB-50LED-RT-JB2-V2-24V-12.3-150

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-50LED-RT-JB2-V2-24V-12.3-150 Explosion Proof LED Light Fixture w/
Adjustable Trunnion Mount**

Lamp Type: LED

Dimensions: 14.34" -H x 8.19" -L x 10.3" -W

Watts: 50W

Voltage: 24V DC

Lumens: 7,000

Luminous Efficacy: 140 Lm/W

LED Light Color: 3000K, 4500K & 5600K

LED Life Expectancy: 60,000 hours

Lighting Configuration: Flood

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: B3-U1-G0 (60° Optics); B3-U1-G0 (125° Optics); B3-U1-G1 (140° Optics)

Flood Beam Angle: 60° or 125°

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 and 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

IEC 60529 Tested

IP67 Rated Waterproof



Ambient Operating Temp Range: -50°C to +65°C
Housing Material: Copper Free Cast Aluminum
Housing Color: Epoxy Powder Coated - Grey
Lens Material: Hardened Borosilicate Glass
Mounting: Adjustable Trunnion Mount w/ Extended Bracket
Wiring: 150' 12/3 SOOW Cord w/ Blunt-cut End

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 EPL-HB-50LED-RT-JB2-V224V-12.3-150 from Larson Electronics is an Explosion Proof Low Bay LED Light Fixture that operates on low voltage 12V DC or 24V DC and produces 7,000 lumens during use. The 50-watt unit is Class I, Divisions 1 & 2, Groups C and D, Class II, Divisions 1 & 2, Groups E, F, G and Class III Divisions 1 & 2 rated for hazardous areas and is listed for use worldwide including the United States and Canada. This explosion proof low bay LED light fixture also features a junction box on the back for wiring and an extended adjustable trunnion mount, allowing operators to tilt the light with clearance over the wiring box.

The EPL-HB-50LED-RT-JB2-V224V-12.3-150 produces 7,000 lumens of high-intensity LED light for illumination within hazardous areas and potentially explosive work environments, with 3000K, 4500K and 5600K color temperature options. This explosion proof LED light fixture operates on low voltage 24V DC. The EPL-HB-50LED-RT-JB2-V224V-12.3-150 produces a flood pattern with a 60° or 125° beam.

Durability: The EPL-HB-50LED-RT-JB2-V224V-12.3-150 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.

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.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units contain advanced drivers which use pulse width modulation to control heat buildup rather than simple voltage regulators which are typically harsh on sensitive electronics and can contribute to early LED failure. These units automatically sense the temperature of each LED and adjust the energy frequency or "duty cycle" accordingly to maintain heat levels within acceptable ranges. This system in essence flashes current at an extremely fast on and off rate to each LED based upon the LED's core temperature. This flash

rate is too fast to detect with the human eye, but provides precise control of the current flowing to each LED and thus the heat it generates. This allows the LEDs to be driven at up to 100% capacity without overheating or visible loss of light output. The LEDs are always driven at the same voltage but the duty cycle, however, is changed to alter how long the LEDs are actually on or off. The end result is more light with less heat and longer LED life with an average 80% lumen maintenance after 60,000 hours.

Amperage: The EPL-HB-50LED-RT-JB2-V224V-12.3-150 fixture draws 50 watts. On a 24V DC circuit, each fixture will draw 2.08 amps. When the 150 foot power cord is being supplied with 24V DC, the voltage drop associated with this length of cord is 1V, providing 23V to the fixture. A 3-amp continuous current fuse or breaker should be used for circuit protection for this fixture.

Wiring: This explosion proof LED lighting system is equipped with 150 feet of 12/3 chemical and abrasion resistant SOOW cord with a blunt-cut end (no cord cap). The 12 gauge, 3 conductor SOOW cord is designed for portable tools and equipment that requires a flexibility and durability. This cord is constructed of stranded soft drawn bare copper conductor per ASTM B3 and B174, and the insulation is color coded ethylene propylene diene monomer EPDM. Type SOOW cord is approved for use within hazardous locations per NFPA Article 70 (NEC Cord) for equipment that requires a flexible power cord. This cord is certified to:

- UL flexible cord Subject 62
- CSA flexible cord C22.2-49
- OSHA accepted
- MSHA approved
- Federal Specification JC – 580.

Mounting: This explosion proof LED fixture is supported by an adjustable trunnion mount with an extended bracket for full rotation and clearance over the wiring box. Operators may securely and quickly mount the light for hands-free lighting in hazardous locations and confined spaces.

After mounting, operators can adjust the angle of the LED fixture by tilting the light head up and down to reach the desired position. This versatile mounting system is ideal for industrial work that requires gloves. When a gloved hand is supporting the light through the opening of the trunnion mount, operators may use the LED fixture as a handheld unit for robust control.

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.



Frequently Asked Questions (FAQ)

There are no Faqs

EPL-HB-50LED-RT-JB2-V2-24V-12.3-150

Product ID: 154734

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-HB-50LED-RT-JB2-V2-24V-12.3-150-Beam Config

Example: EPL-HB-50LED-RT-JB2-V2-24V-12.3-150-60DB

Beam Config	
60°	-60DB
125°	-125DB



Links (Click on the below items to view):

- **IES (Photometric File)**(<https://www.larsonelectronics.com/images/product/ies/154734.ZIP>)
- **Operations Manual**(<https://www.larsonelectronics.com/images/product/Manual/154734.PDF>)
- **Photometric Polar Graph**(<https://www.larsonelectronics.com/images/product/PolarGraph/154734.PDF>)
- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/154734.JPG>)
- **ISO 9001 Certification**(<http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF>)
- **Business Certificate**(<https://www.larsonelectronics.com/images/pdfdocs/w9.PDF>)
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