

## 50W Explosion Proof Low Bay LED Light Fixture - Paint Spray Booth Approved - 7,000 Lumens - T5

### EPL-LB-50LED-RT



#### EPL-LB-50LED-RT - Explosion Proof Low Bay LED Light

Listing: United States - Canada

Lamp Technology: LED

Dimensions: 7.04" L x 7.04" H x 5.72"

Weight: 7 lbs

Voltage: 100-277 Volts AC, 50/60Hz or 11-25 Volts AC/DC

Total Watts: 50W

Total Lumens: 7,000 lms

Luminous Efficacy: 140 Lm/w

Lamp Life: 60,000+ Hours

Color Temp: 5600K, 4500K or 3000K

Color Rendering Index: >75 CRI

Lamp Type: -

Lamp Base: -

Replacement Lamp: -

Beam Angle: 60°, 125° or 140°

Lighting Configuration: Flood Pattern

Power Efficiency: >95%

Power Factor: 0.99

Amps: 0.42A @ 120V, 0.21A @ 240V, 0.18A @ 277V

Ambient Operating Temp Range: -50° C to +65° C

Operating Temp Rating: T5

Temperature Rise: 11°C (10°F) Over Ambient

Housing Material: Copper Free Cast Aluminum

Housing Finish: Epoxy Powder Coated - Grey

Lens Material: Hardened Borosilicate Glass

Gasket Material: Silicone

Mounting: Pendant Mount

Wiring: Internal Wiring Junction Box

Hub: (1) 3/4" NPT

#### Ratings/Approvals

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

LEL Approved

Single LED Driver

80% Lumen Retention after 60,000 Hours

Factory Sealed Light Fixture

Recommended 15' to 40' Mounting Height

Surge Protection

Replacement for 250W Metal Halide Lamps

#### Special Orders- Requirements

Contact us for special requirements

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**The Larson Electronics EPL-LB-50LED-RT Explosion Proof Low Bay LED Light Fixture provides operators with a powerful alternative to traditional hazardous location luminaries. Capable of replacing 250-watt metal halide lamps, this 50-watt low bay LED unit emits 7,000 lumens, carries an IP67 waterproof rating and features an extended lifespan of 60,000+ hours. The factory sealed, explosion proof fixture is protected by a copper-free aluminum housing with an epoxy powder coated finish. The EPL-LB-50LED-RT is a Class I, Division 1 & 2 and Class II, Division 1 & 2 explosion proof light fixture that is designed for energy efficient and superior illumination in combustible**



environments. This 50-watt low bay fixture offers 7,000 lumens of high quality light with a color temperature of 5600K. We also offer a 3000K warm white and 4500K natural white color temperature options (longer lead times may apply for non-standard temperatures). Serving as a suitable replacement for 250-watt metal halide lamps, a color rendering index of 75 ensures colors and details are produced more accurately than high pressure sodium or mercury vapor luminaries.

This low bay lighting solution for explosive sites is IP67 rated, dust-proof and protected against high pressure jets and temporary submersion. The copper-free aluminum alloy housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LEDs and electronic components. An epoxy powder coated finish facilitates 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. The explosion proof low bay LED light also offers operators convenience in the form of field serviceability.

**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 an electronic LED driver. This internal driver provides 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 driver allows the EPL-LB-50LED-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.

**Energy Consumption Comparison**

	<u>Metal Halide</u>	<u>LED</u>
Wattage	175 watts	50 watts
Amp Draw @ 120V AC	1.69 amps	0.42 amps
Amp Draw @ 220V AC	0.92 amps	0.23 amps
Amp Draw @ 240V AC	0.85 amps	0.21 amps
Amp Draw @ 277V AC	0.73 amps	0.18 amps
Amp Draw @ 12V DC	16.77 amps	4.17 amps
Amp Draw @ 24V DC	8.39 amps	2.08 amps
Lamp Life Expectancy	20,000 hours	60,000+ hours
Operation cost per year (12hs/day @ 12c/kWh)	\$241.78	\$26.30

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.

**Voltage:** The light is universal voltage capable and can be operated with 100-277V AC,

50/60Hz. We also offer a low voltage version of this LED fixture that operates on AC/DC voltages from 11-25 Volts.

**Mount:** This explosion proof low bay LED light fixture comes standard with pendant mounting features, which cater to installations that hang from the ceiling. Each fixture contains an internal junction box and one, 3/4" NPT hub. Wiring is fed to the junction box, completing the electrical connection. This fixture is factory sealed and does not require a seal off.

Several mounting options including surface mounting, ceiling mounting and cable mounting can be ordered separately. Compared to high bay lights, low bay fixtures are recommended for lower mounting heights ranging between 15' to 40'.

**Suggested Applications:** Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, chemical manufacturing, waste treatment plants, gas processing plants and more.

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](mailto:sales@larsonelectronics.com) for more information about our custom options tailored to meet your specific industry needs.

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**Options:**

**EPL-LB-50LED-RT-Voltage-Beam Spread-Color Temperature**

**Example: EPL-LB-50LED-RT-1227-1227-56K**

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

Beam Spread	
60°	-1227
125°	-1224

Color Temperature	
5600K	-56K
4500K	-45K
3000K	-30K

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