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EPLC2-LB-50LED-RT-CM-DIMM

50W Explosion Proof Low Bay Dimmable LED Fixture - C1D2/C2D1 - Paint Spray Booth Approved -7,000 lms - Ceiling Mount, T5 - 0-10V Dimming

Product ID: 278372

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.

EPLC2-LB-50LED-RT-CM-DIMM - Explosion Proof Low Bay Dimmable LED Light

Listing: NRTL Listed for United States & Canada
Lamp Technology: LED
Dimensions: 7.04"-L x 15.04"-H x 5.72"-D
Weight: 9 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° or 125°
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

Ratings/Approvals

Class I, Division 2, Groups C and D
Class II, Divisions 1 & 2, Groups E, F and 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
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
0-10 V Dimmable

Special Orders - Special Requirements

Lens Material: Hardened Borosilicate Glass
Gasket Material: Silicone
Mounting: Ceiling/Surface Mount
Wiring: Internal Wiring Junction Box
Hub: (4) 3/4" NPT Threaded Hubs

Contact us for special requirements
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The EPLC2-LB-50LED-RT-CM-DIMM from Larson Electronics is an Explosion Proof Low Bay Dimmable LED Light Fixture that 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 EPLC2-LB-50LED-RT-CM-DIMM is a Class I, Division 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 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 EPLC2-LB-50LED-RT-CM-DIMM 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

	Metal Halide	LED
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: This light is universal voltage capable and can be operated with 100-277V AC, 50/60 Hz. We also offer a low voltage version of this LED fixture that operates on AC/DC voltages from 11-25 Volts.
This LED light fixture features 0-10V dimming capabilities. This gives operators the ability to manually adjust the brightness of the LED lamp quickly and easily. The 0-10V dimming allows for adjustments to fit the brightness needs of any lighting situation. A 0-10V dimmable light works through the use of a DC control signal that ranges between zero and ten volts. The basic idea is that at 10 volts of input the light is at its brightest level with 0 volts being the lowest possible dimness setting. The smooth, continuous and flicker-free dimming of a 0-10V dimmable LED light is ideal for a wide range of different lighting applications.
Wiring: The explosion proof low bay LED light fixture is equipped with an internal wiring junction box built into the mount of the fixture. A total of four, 3/4" NPT threaded ports are available for running conduit (located at every corner of the unit). Additionally, wiring can be passed through the junction box, reducing the need for additional junction boxes. Operators run wiring directly to the fixture and terminate in the junction box mount. This fixture is factory sealed and does not require a seal off.
Mount: This explosion proof low bay LED light fixture comes standard with a flat surface ceiling mounting system, equipped with four bolts. The sturdy, square mounting plate can be secured on horizontal or vertical surfaces. Spacing between the mounting component and LED fixture`s fins, which are located at the back of the unit, streamline cool operation. Several mounting options including pendant 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 for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)






LARSON ELECTRONICS LLC
EPL-HB-50LED-122T-60DB-50K
INPUT: 100-277VAC 50/60Hz 50W
CLASS I DIV. 1 & 2 GROUPS C, D
Ambient Temperature Range : -25°C-40°C
CONFORMS TO UL 844
CERTIFIED TO CAN/CSA TD C22.2 NO. 137
Suitable for Locations Having Deposits
of Readily Combustible-Paint Residues
CAUTION: To Reduce the risk of ignition of hazardous atmospheres, disconnect the luminaire from the supply circuit before opening. Keep tightly closed when in operation.
Suitable for wet locations
ATTENTION: Afin de prévitер l' inflammation d' atmosphéres, déconnecter du circuit d'alimentation avantdangereuses. Conserver hermétiquement temé lorsqu'il est en fonctionnement.
Convient aux emplacements humides
Groups
Temp Rating
C , D
T5
D0300097
Intertek
5000012

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Product ID: 278372

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPLC2-LB-50LED-RT-CM-DIMM-Voltage-Beam Spread-Color Temperature

Example: EPLC2-LB-50LED-RT-CM-DIMM-1227-60B-56K

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

Beam Spread	
60°	-60B
125°	-125B
140°	-140B

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

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **Photometric Flood Report**
- **Photometric Indoor Report**
- **Photometric Polar Graph**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**