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C1D1 Explosion Proof High Bay LED Fixture w/ Emergency Battery Backup - Paint Spray Booth Approved

EPL-EMG-HB-50LED-RT-CM

EPL-EMG-HB-50LED-RT-CM - C1D1 High Bay LED Light

Listing: United States - Canada
Lamp Type: LED
Dimensions: 7.04" L x 15.04" H x 5.72" D
Weight: -
Voltage: 100-277 Volts AC, 50/60Hz or 11-25V AC/DC
Total Watts: 50W
Total Lumens:7,000
Luminous Efficacy: 140 Lm/W
Lamp Life: 60,000+ Hours
Color Temp: 5600K, 4500K, 3000K
Color Rendering Index: >75 CRI
Beam Angle: 60° or 125°
Lighting Configuration: Flood Pattern
Power Efficiency: >95%
Power Factor: 0.992
Ambient Operating Temp Range: -50° C to +65°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: Flat Surface/Ceiling Mount via (4) Bolts w/ Wiring Junction Box
Wiring: 10` 16/3 SOOW w/ Flying Leads
Wiring Hubs: (5) 3/4" NPT Threaded Hubs
Emergency Mode Runtime: 90 Minutes

Ratings/Approvals

Listed for United States and Canada
Class I, Divisions 1 & 2, Groups C,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
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
90-min Emergency Backup

Special Orders- Requirements

Contact us for special requirements

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The Larson Electronics EPL-EMG-HB-50LED-RT-CM Explosion Proof High Bay LED Fixture with Emergency Backup provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. 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. This unit is equipped with a four-bolt flat surface mounting system, which is suitable for ceiling, wall and surface mounting applications. In emergency mode, the LED lamp will continue to operate at a lower light intensity level for 90 minutes via a remote battery.

This Class I Division 1 & 2, Class II Division 1 & 2 explosion proof light fixture

provides 7,000 lumens of high quality light while drawing only 50 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.

The LED fixture produces 7,000 lumens with a color temperature of 5600K 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 4500K natural white color temperature options (longer lead times may apply for non-standard temperatures).

This 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 11-25V. 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.

The emergency LED light works, mounts and is wired like our EPL-HB-50LED-RT-CM LED light fixtures. The main difference is that we add a remote mounted battery backup unit that adds emergency light functionality to the fixture. This emergency LED light will run at the standard UL suggested 90 minutes after power is lost. The light recharges the battery once electrical power is restored. Standard configuration includes a single emergency battery backup that is automatically recharged and kept in a ready state.

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-EMG-HB-50LED-RT-CM 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.

Wiring: The EPL-EMG-HB-50LED-RT-CM explosion proof high bay LED light fixture is equipped with 10 feet of abrasion and chemical resistant 16/3 SOOW cable with flying leads. The LED light fixture features 5 3/4" NPT threaded ports for running conduit depending on the installation location. Four of the ports are located on the corners of the unit and the fifth port is found on the rear of the explosion proof high bay LED fixture.
Mounting: The EPL-EMG-HB-50LED-RT-CM offers a flat surface mounting system, equipped with four bolts and a wiring junction box. This mounting feature caters to ceiling and flat surface mounting preferences.
Applications: Elevated lighting systems, flammable work sites, warehouses, hazardous locations, manufacturing plants, chemical processing, woodshops, grain storage centers, agricultural sites 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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Options:

EPL-EMG-HB-50LED-RT-CM-Voltage-Beam Angle

Example: EPL-EMG-HB-50LED-RT-CM-1227-1227

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

Beam Angle	
60°	-1227
125°	-1224

Links (Click on the below items to view):

- large
- Manual
- medium
- SpecSheet
- HigResPic1