

50W Rechargeable Explosion Proof Mini LED Brick Light - C1D1/C2D1 - 50' SOOW Cord w/ EXP Plug - Magnetic Mount EPL-PM.M-50LED-RPS-50C-EPP



Specifications / Additional Information

EPL-PM.M-50LED-RPS-50C-EPP Explosion Proof LED Brick Light

Lamp Type: Rechargeable LED
Dimensions: 8.38" W x 9.56" D x 17.25" H
Total Weight: 45 lbs
Voltage: 100-277V AC 50/60Hz
Total Watts: 50 watts
Total Lumens: 6,250
LED Lamp Life Expectancy: 50,000 Hours
Color Temp: 5000K
Color Rendering Index: >75 CRI
Beam Angle: 60° or 125°
Lighting Configuration: Flood Pattern
Power Efficiency: >95%
Power Factor: 0.992
Amperage: 2.5A @ 120V, 1.26 @ 240V, 1.08 @ 277V
Ambient Operating Temp Range: -50°C to +65°C
Operating Temp Rating: T5
Lamp Housing Material: Copper Free Cast Aluminum
Stand Material: Non-Sparking Aluminum
Lens Material: Hardened Borosilicate Glass
Gasket Material: Silicone
Mounting: Triangular Shaped Aluminum Base Stand with (4) 100 Lb. Magnetic Feet
Finish: Powder Coated - Gloss Blue
Battery Type/Runtime: Lithium Ion/5 Hours per Charge
Wiring: 50' 16/3 SOOW Cord EXP Cord Cap
Cord Cap: 5-15P, 5-20P or 6-20P
Switch: On/Off

Quick Summary

Listed for United States and Canada
Class I, Div 1&2, Groups C,D
Class II, Div 1&2, Groups E,F,G
Certified to UL 1598
Certified to C22.2 No. 137 Rev 2009
Certified to C22.2 No. 250.0
T5 Temperature Rating
Paint Spray Booth Approved
IEC 60529 Tested
IP67 Rated Waterproof
LEL Approved
Multiple Driver Banks
80% Lumen Retention after 50,000 Hours
Factory Sealed Light Fixture
Direct Replacement for 400W Portable Lights

Special Orders- Requirements

Contact us for special requirements
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Made in Texas

The EPL-PM.M-50LED-RPS-50C-EPP Rechargeable Explosion Proof LED Brick Light from Larson Electronics is rated Class I, Divisions 1 and 2 Groups C D and Class II, Divisions 1 and 2 and uses a 7 inch LED light head to produce 6,250 lumens of light while drawing only 50 watts. A lithium-ion battery provides up to 5 hours of operation per full charge. Operators may recharge the battery using a 50-foot 16/3 SOOW cord with an explosion proof cord cap. The EPL-PM.M-50LED-RPS-50C-EPP explosion proof LED Brick Light provides 4,000 square feet of work area coverage with 6,250 lumens of light output. This portable LED light is mounted to an A-frame style aluminum base with 4 magnetic feet and has an

adjustable LED light head measuring 7 inches square. The LED light head on this unit produces a brilliant flood pattern of light that is ideal for illuminating enclosed areas and hazardous locations where flammable vapors, gases and dusts may be present. The LED unit is powered by a lithium ion battery, which offers 5 hours of operation per charge. Operators may access a switch for toggling the lamp on/off. This explosion proof LED light fixture is comprised of a 7 inch wide square LED light head mounted within a portable, magnetic base stand fabricated from non sparking aluminum with a convenient carrying handle built into the top of the stand. The aluminum A-frame is powder coated with glossy blue finish for corrosion resistances and aesthetics. The lamp can be easily adjusted up or down 90 degrees and locked into position by simply loosening the two hand screws located on either side of the light head and retightening them once the desired angle is found.



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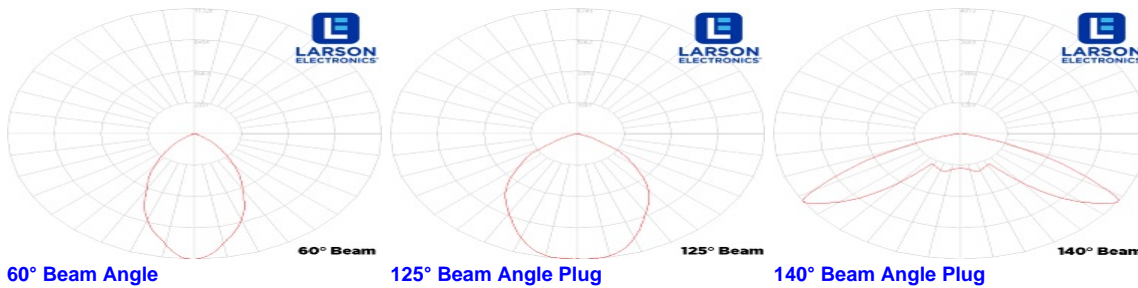
Light Head Information: This Class I, Division 1 & 2; Class II, Division 1 & 2 explosion proof light fixture provides 6,250 lumens of high quality light while drawing only 50 watts. The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. Special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 50,000 hour rated lifespan with 80% lumen retention.

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-PM.M-50LED-RPS-50C-EPP 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.

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Beam Angles: When used as a portable lighting solution, the varying beam angles are each individually ideal for several environments. The 60° beam provides the most intense beam of the three options. It is perfect for narrow, confined spaces and is ideally suited for tank cleaning purposes. It offers focused light to provide ample illumination to tight work spaces and other environments. The 125° beam offers a more diffused source of light that is also less intense in brightness. It is a great general area work light and performs well when used for outdoor illumination. The 140° beam offers a very wide lighting pattern and is ideal for situations where lighting distance is not a concern, but illumination of a wider area and even light distribution is. The 140° beam is great for situations that call for working in close proximity to lights such as in a paint booth.

This 50W explosion proof LED lamp produces a total of 6,250 lumens with a color temperature of 5600K 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 4500K 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 86.67 lumens per watt effective lumen output and have a 80% lumen retention at 50,000 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-PM.M-50LED-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	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	50,000+ 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 recharged via 100-277V AC, 50/60Hz outlets. We also offer a non-rechargeable low voltage version of this LED fixture that operates on AC/DC voltages from 11-25 Volts. 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.

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5-15 Straight Blade Plug



5-20 Straight Blade Plug

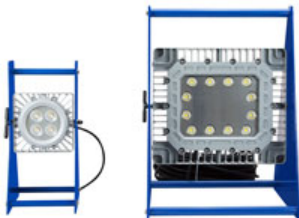


6-20 Straight Blade Plug

Wiring Plug: For recharging the lithium ion battery, this explosion proof portable flood lighting system is equipped with 50 feet of 16/3 chemical and abrasion resistant SOOW cord that is fitted with an explosion proof cord cap for easy connection to explosion proof outlets. Plug options include a 5-15 15 amp straight blade plug for use with 120V explosion proof outlets, a 5-20 20 amp straight blade plug for use with 120V explosion proof outlets, or a 6-20 20 amp straight blade plug for use with 220-240V explosion proof outlets.

Magnetic Mount: Four adjustable feet allow operators to level the light fixture in the field, and the two magnet feet provide a strong magnetic pull to stabilize the light fixture during deployment, reducing movement of the light from vibrations or accidental bumps.

Suggested Applications: This pedestal base stand explosion proof light is ideal for any application inside Class I and II, Divisions 1 & 2 explosion proof or hazardous location environments requiring durable and quality lighting in a portable form factor.



[Click Here to view our 150 watt 13,000 lumen unit](#)

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.

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Options:

EPL-PM.M-50LED-RPS-50C-EPP-Cord Cap-Beam Config

Example: EPL-PM.M-50LED-RPS-50C-EPP-1523-1523

Cord Cap	
5-15P	-1523
5-20P	-2023.125V
6-20P	-2023.250V

Beam Config	
60°	-1523
125°	-2023.125V

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