

EPL-EMG-LED-100W-RT

100W Explosion Proof Emergency LED Flood Light - Surface Mount - 14,000 Lumens - C1D1

Product ID: 148314

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.

EPL-EMG-LED-100W-RT Explosion Proof Emergency LED Flood Light

Listing: United States - Canada

Lamp Type: Cree LED

Dimensions: 14"H x 16"W 5"D

Weight: 32 lbs

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

Total Watts: 100W

Total Lumens: 14,000

Luminous Efficiency: 140 Lm/W

Lamp Life: 60,000+ Hours

Color Temp: 5000K, 4000K, 3000K

Color Rendering Index: >75 CRI

Beam Angle: 60° or 125°

Lighting Configuration: Flood Pattern

Power Efficiency: >95%

Power Factor: 0.992

Amperage: 0.83A @ 120V, 0.42 @ 240V, 0.36 @ 277V

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

Operating Temp Rating: T5

Emergency Runtime: 90 Minutes

Emergency Lumens: 2625

Housing Material: Copper Free Cast Aluminum

Lens Material: Hardened Borosilicate Glass

Gasket Material: Silicone

Mounting: Adjustable Flat Surface Mount U-Bracket

Wiring: 10` 16/3 SOOW w/ Flying Leads

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,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

T5 Temperature Rating

Paint Spray Booth Approved

IEC 60529 Tested

IP67 Rated Waterproof

LEL Approved

Multiple Driver Banks

80% Lumen Retention after 60,000 Hours

Factory Sealed Light Fixture

Remote Mount Emergency Battery Backup

90 Minute Emergency Runtime

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

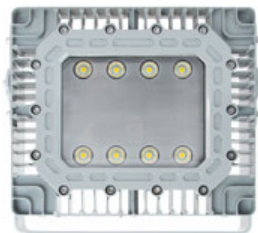
Fax: 1-903-498-3364

Wiring Hub: 3/4" NPT

E-mail: sales@larsonelectronics.com

The Larson Electronics EPL-EMG-LED-100W-RT Explosion Proof Emergency LED Flood Light Fixture provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. Cree LED technology and compact design makes this lamp an excellent replacement upgrade option for bulky and high maintenance cost older fixtures. This unit features a remote mount battery backup for emergency operation.

This Class I Divisions 1 & 2, Class II Divisions 1 & 2 explosion proof emergency LED flood light fixture provides 14,000 lumens of high quality light while drawing only 100 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.



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[Click Photo to Enlarge](#)

This emergency LED light works, mounts and is wired like our EPL-LED-100W-RT 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 at 2,625 lumens. 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.

The explosion proof LED light fixture features multiple LED drivers which helps to increase the operational life of the fixture. With traditional LED lights, in the event an LED array or driver fails, the entire fixture no longer illuminates. This new series of LED lamps contains eight individual LED boards configured in a series of banks. Each bank contains two LED boards with an individual driver. In the event of a driver failure, only one bank of LEDs will be effected while the other banks will continue to operate. In the event that of an LED failure, the mating LED will continue to operate.

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. This light is universal voltage capable and can be operated with 100-277 VAC, 50/60Hz. We also offer a 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.

Energy Consumption Comparison

	<u>Metal Halide</u>	<u>LED</u>
Wattage	250 watts	100 watts
Amp Draw @ 120V AC	2.38 amps	.83 amps
Amp Draw @ 220V AC	1.30 amps	0.45 amps
Amp Draw @ 240V AC	1.19 amps	0.42 amps
Amp Draw @ 277V AC	1.03 amps	0.36 amps
Amp Draw @ 12V DC	23.75 amps	8.3 amps
Amp Draw @ 24V DC	11.88 amps	4.17 amps
Lamp Life Expectancy	20,000 hours	50,000+ hours
Operation cost per year (12hs/day @ 12c/kWh)	\$149.80	\$52.56

Each LED light fixture has the potential to save ~\$100.00+ 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.

This LED light produces 14,000 lumens with a color temperature of 5000K 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 4000K natural white color temperature options (longer lead times may apply for non-standard temperatures). The EPL-EMG-LED-100W-RT offers an adjustable mounting system that this fixture to be mounted to any flat surface including walls and ceilings.

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.

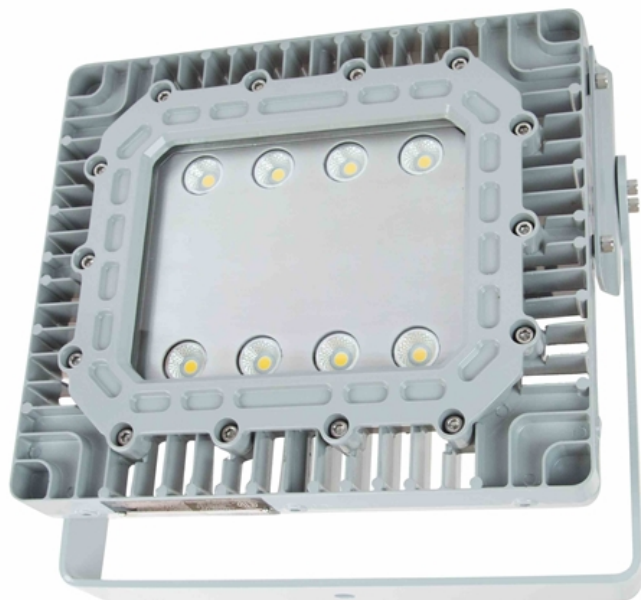
High Quality Features

1. Low power consumption.
2. Instant on/off operation.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy.
4. Superior color rendering compared to HPS, LPS, MH.
5. Retains 80% lumen output after 60,000 operating hours.
6. Powder coated aluminum fixture body.
7. Pendant and Swivel Bracket mount included
8. Low profile - Light weight
9. 14,000 Lumen output from only 100 watts
10. Remote mount emergency battery backup with 90 minute runtime.
11. Fixture produces 2,625 lumens of light during emergency operation.

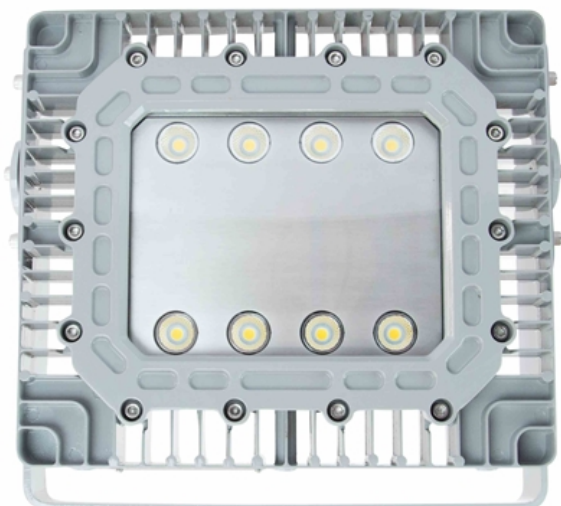
Superior LED Benefits

1. 60,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
8. Qualifies buildings for LED and other sustainable business certifications.
9. Bright, even light maintains consistent color over time.
10. Instant on/off - No flickering, delays or buzzing.
11. Very good color rendering.
12. Vibration/impact resistant.
13. Significantly cooler operation.
14. Less frequent outages, higher output improves workplace safety.

Frequently Asked Questions (FAQ)









EPL-EMG-LED-100W-RT

Product ID: 148314

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-EMG-LED-100W-RT-Voltage-Beam Angle-Color Temp

Example: EPL-EMG-LED-100W-RT-1227-60B-56K

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

Beam Angle	
60°	-60B
125°	-125B

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

Links (Click on the below items to view):

- [Operations Manual](#)
- [SpecSheetRussian](#)
- [SpecSheetSpanish](#)
- [Wiring Diagram \(Online\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)