

### EXP-EMG-2L-LE3

**Explosion Proof Bug Eye Emergency LED Fixture - Self-Testing - 90 Minute Emergency Runtime  
- (2) 12W LED Lights**

**Product ID: 273489**

**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.**

#### **EXP-EMG-2L-LE3 Explosion Proof Emergency LED Fixture**

**Listing:** NRTL Listed for United States & Canada

**Lamp Technology:** LED

**Lamp Qty:** (2)

**Dimensions:** 30"-L x 20"-H x 10"-D

**Weight:** -

**Voltage:** 120/277V AC, 60Hz

**Total Watts:** 24W

**Single-lamp Watts:** 12W

**Total Lumens:** 5,500 lms

**Single-lamp Lumens:** 2,750 lms

**Luminous Efficacy:** 110 Lm/W

**LED Life Expectancy:** 50,000 Hours

**Color Temperature:** 6000K - White

**CRI:** -

**Lamp Type:** -

**Lamp Base:** -

**Replacement Lamp:** -

**Beam Angle:** 40°

**Light Configuration:** Flood

**Flood Beam:** 300`L x 225`W

**Emergency Runtime:** 90 Minutes

#### **Ratings/Approvals**

Class I, Divisions 1 & 2, Groups B, C, D

Class I, Zones 1 & 2, Groups IIB+H2, IIA

Class II, Divisions 1 & 2, Groups E, F, G

Class III, Divisions 1 & 2

NEMA 3R, 4, 7 (B, C, D), 9 (E, F, G)

NRTL Listed to UL 508A

NRTL Listed to UL 1203

NRTL Listed to CSA C22.2 No 14, 25, 30

24 Hour Battery Recharge Time

Self-Testing Unit

Horizontal and Vertical Adjustable

**Battery:** Maintenance-Free 3.6 Volt NiCad Rechargeable Battery

**Battery Recharge Time:** 24 Hours

**Battery Life Expectancy:** 15 Years

**Amps:** 0.2A @ 120V, 0.08A @ 277V

**Ambient Operating Temp:** 0°F to +113°F

**Housing Material:** Die Cast Aluminum

**Housing Color:** Powder Coated - Grey

**Lens Material:** Polycarbonate

**Mounting:** Surface Mount

**Adjustability:** Lamp Heads Horizontally & Vertically Adjustable

**Wiring:** Operator Provided Wiring & Seal Off

**Special Orders - Special Requirements**

Contact us for special requirements

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**The EXP-EMG-2L-LE3 from Larson Electronics is an Explosion Proof Bug Eye Emergency LED Fixture that is Class I, Divisions 1 & 2, Groups B, C, D, Class I, Zones 1 & 2, Groups IIB+H2, IIA, Class II, Divisions 1 & 2, Groups E, F, G and Class III Divisions 1 & 2 rated for hazardous areas. Equipped with two LED lamps, the EXP-EMG-2L-LE3 produces a total of 5,500 lms and will operate for at least 90 minutes in the event of a power failure or outage. This unit is self-testing, has a 24-hour battery recharge time following emergency operation and operates on 120/277V AC @ 60Hz.**

The EXP-EMG-2L-LE3 explosion proof emergency bug eye LED fixture is ideal for installation in hazardous areas that require emergency illumination in the event of a power failure or power outage. This fixture features three explosion proof enclosures that are configured in a bug eye layout. The two upper enclosures house the LEDs while the bottom enclosure contains an indicator light. The unions between the upper enclosures and the lower enclosure allow for both horizontal and vertical adjustment.

**Light Features:** The EXP-EMG-2L-LE3 features two lamps that each produce 2,750 lumens of high-intensity white LED light. A flood configuration throws a 40° beam that measures 300`L and 225`W. This explosion proof emergency LED fixture features brown-out, short circuit and voltage surge protection and has a low voltage disconnect which prevents damage to the battery caused by a deep discharge. This self-testing LED fixture will run for at least 90 minutes after a power failure thanks to the maintenance-free 3.6 volt NiCad battery. After emergency use, the battery takes 24 hours to completely recharge.

**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.

**Emergency Operation:** The EXP-EMG-2L-LE3 features a backup battery that will run the fixture for at least 90 minutes following a power outage or any other loss of power. The included emergency backup battery is a 3.6 volt NiCad rechargeable unit. These batteries are maintenance-free and have a life expectancy of 15 years while being able to operate in a wide variety of conditions including in temperatures ranging from 0°F to +113°F. This unit also features a low voltage disconnect. This means that if the fixture detects that the battery's terminal

voltage has fallen below a certain level, the low voltage circuit will disconnect the emergency lighting load until normal power is restored. This prevents the battery from experiencing a deep discharge and becoming damaged.

**Explosion Proof Ratings:** The EXP-EMG-2L-LE3 from Larson Electronics is an explosion proof emergency LED fixture. This particular unit is Class I, Divisions 1 & 2, Groups B, C, D, Class I, Zones 1 & 2, Groups IIB+H2, IIA, Class II, Divisions 1 & 2, Groups E, F, G and Class III Divisions 1 & 2 rated for hazardous areas.

**Wiring:** The EXP-EMG-2L-LE3 explosion proof emergency self-testing LED fixture is **NOT** a factory sealed fixture. Operators will bring their own wiring to a junction box and complete their connects. The operator will also provide their own seal off for this fixture. The EXP-EMG-2L-LE3 operates on 120/277V AC @ 60Hz.

**Mounting:** The EXP-EMG-2L-LE3 is designed to be surface mounted to flat surfaces such as walls. The unions connecting the upper lamps to the lower indicator light enclosure allow for both horizontal and vertical adjustment. This gives operators the ability to adjust the light to their specific mounting location for ideal light coverage during a power failure or power outage.

**Suggested Applications:** The EXP-EMG-2L-LE3 is ideal for use as emergency lighting in areas where an explosion proof fixture is required.

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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## Frequently Asked Questions (FAQ)

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**Product ID: 273489**

**Export Control Classification Number (ECCN): EAR99**

Links (Click on the below items to view):

- [Wiring Diagram \(Online\)](#)
- [HigResPic1](#)
- [Video1](#)
- [Video2](#)
- [Video3](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)