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EPL-EMG-48-2L-LED-G2-50C

Explosion Proof Emergency LED Light - 4 Foot 2 Lamp - Backup Ballast - Class 1 & 2 LED Light - 50' 16/3 SOOW Cord w/ Seal Off & Blunt Cut End

Product ID: 293049

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-48-2L-LED-G2-50C Explosion Proof LED Light Fixture

Listing: United States - Canada
Dimensions: 52.00"-L x 11.25"-W x 8.50"-H
Weight: 60 lb
Voltage: Universal 120-277V AC, 50/60 Hz
Total Watts: 56 Watts (28 Watts Per Lamp)
Total Lumens: 7,000 (3,500 Per Lamp)
Lumens on Battery Power: 3,500 (1 Lamp)
LED Lamp Life Expectancy: 50,000+ Hours
Luminous Efficacy: 125 Lumens per Watt
Color Temp: 5600K, 4500K, or 3000K
Color Rendering Index: >80
Beam Angle: 150°
Power Efficiency: 90%
Power Factor: >0.95
Battery AC Input Voltage: 120/277V AC, 60 Hz
Battery AC Input Current: 90 mA
Battery AC Input Power Rating: 9.5W
Battery Output Current: 120V @ 165mA - 277V @ 72mA
Illumination Time: 90+ Minutes
Battery Type: High Temp, Maintenance Free, Nickel Cadmium
Battery Lifespan: 7 to 10 Years
Battery Charge Current: 250 mA
Battery Recharge Time: 24 Hours
Ambient Operating Temp Range:0°C to +50°C

Ratings/Approvals

Class I Division 1, Groups C and D T6
Class I Division 2, Group A,B,C,D
Class II, Divisions 1 & 2, Groups E,F,G
UL 595 Marine Type (Saltwater)
UL 844, UL 924
UL 1598 Marine Type
Certified Canadian Standards
Listed for Paint Spray Booths
California Title 24 Compliant
IP67 Rated - Waterproof
T6 Temperature Rating
NEMA 4X
LEL Listed LED Lamps
Approved for Confined Spares
Silicone Free
Factory Sealed Fixture
Failsafe Lighting
Emergency Battery Backup
90+ Minute Runtime
Made in the USA
Switch Leg for Powering Light On/Off

Operating Temp Rating: T6 Rated
Minimum Operating Temp: 0°C
Maximum Case Temp: +50°C
Housing Material: Cast Aluminum End Caps & Battery Enclosure, Aluminum Reflectors - Copper Free
Lens Material: Hardened Borosilicate Glass Tubes
Gasket Material: Buna Rubber O-Rings
Mounting: Surface Standard - Pendant Optional
Wiring: 50' 16/3 SOOW w/ Seal Off & Blunt Cut End
Warranty: 5 Years*
U.L Approval: U.S Certificate Canada Certificate

Special Orders - Special Requirements
Contact us for special requirements

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Made in the USA

The EPL-EMG-48-2L-LED-G2-50C from Larson Electronics is an Explosion Proof Emergency LED Light Fixture that is United States and Canada approved Class I Divisions 1 & 2 and Class II Divisions 1 & 2 for areas where flammable chemical/petrochemical vapors exist or have the potential to exist. Equipped with 50' of 16/3 SOOW cord, this failsafe explosion proof LED light has a T6 temperature rating and carries a paint spray booth light certification, making it ideal for applications such as paint booths, oil rigs, offshore applications, petrochemical, manufacturing, chemical storage, water treatment centers, and food processing plants.

This four foot, two lamp emergency LED fixture is ideal for operators seeking a top quality explosion proof light that will reduce operating costs, improve lighting quality and reduce downtime incurred from frequent servicing intervals. The EPL-EMG-48-2L-LED-G2-50C is equipped with Larson Electronics' specially designed LED T-series bulbs which produce 7,000 lumens, resulting in 30% more foot candles of illumination at 8 feet as compared to standard T8 lamps when measured with an Extech light meter. Our LED-T series bulbs are visibly brighter than standard T8`s and have consistently surprised many of our customers with their unexpectedly high light output levels.

We now offer our second generation LED tube lamps with this fixture which have increased this hazardous location light’s performance. This two lamp explosion proof LED linear fixture is lighter in weight, has a slimmer profile, and produces more light than traditional explosion proof fluorescent fixtures. The four foot long LED tube design bulbs included with this unit are rated at 50,000 hours of service life, which is over twice as long as standard T8 bulbs.

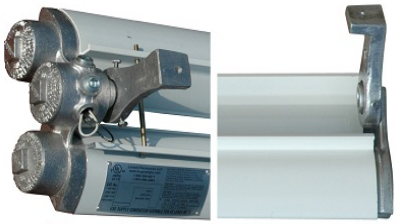
This emergency backup only LED light works, mounts, and is wired like our EPL-48-2L-LED explosion proof integrated LED light fixtures. The main difference is that we add a battery backup unit that adds emergency light functionality to the fixture. With an integrated emergency ballast, this explosion proof LED light will continue to operate one LED lamp for 90 minutes at 3,500 lumens after the main electrical power to the light is severed. Once standard electrical power is restored, the emergency battery pack will be recharged. The battery backup unit includes a switched leg for turning the light fixture on/off without kicking the unit into emergency mode.

This fixture carries a T6 temperature rating and is approved for Class I Division 1, Groups C and D, Class I, Division 2, Group A, B, C and D, and Class II, Divisions 1 and 2, Groups E, F and G environments where flammable or combustible gases, vapors, dusts, fibers, and flying exist or stand the potential to exist. This LED linear fixture is approved for use in confined spaces.

Click here to read the NEC description for explosion proof and hazardous locations.

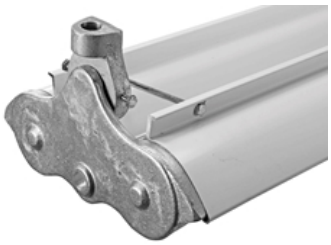
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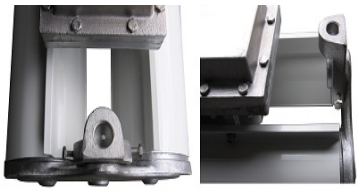


Surface Mount

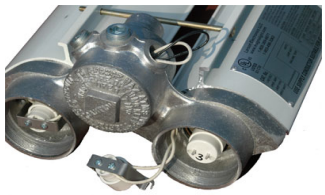
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Click Photo to Enlarge



Pendant Mount



The included LEDT8-28W-V1 LED lamps have a 50,000+ hour service life, both of which result in extreme efficiency and greatly reduced maintenance costs. These fluorescent style LED lamps have internal drivers, eliminating external power components. The solid state design of the LED lamps give this fixture superior resistance to damage from vibration, extremes in temperature and a lamp service life over twice that of standard fluorescent bulbs. This second generation lamp is offered in 5600K cool white, 4500K natural white, and 3000K warm white. Our standard unit ships with 5600K unless different color temperature is specified. Unlike the glass tube design of traditional fluorescent lamps, these LED T-Style lamps have no filaments or fragile housings to break during operation. Instead of using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current applied and emitting light. The LED assembly is mounted to the "tube" constructed from extruded aluminum, with a polycarbonate lens protecting the LEDs. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than fluorescent lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional fluorescent lighting.

The 28 watt LED lamps produce 30% more illumination than standard T8 bulbs while offering lower amp draw and increased reliability. Each lamp produces 3,500 lumens at 125 lumens per watt, for a combined 7,000 total lumen light output. An EPL-EMG-48-2L-T8 explosion proof fluorescent light, with a combined total of 64 watts, draws 0.54 amps at 120 volts AC. This LED version of the same light, with a total of 56 watts, draws only 0.47 amps at 120 volts AC. The EPL-EMG-48-2L-LED-G2-50C is universal voltage, not multi-tap, and operates on any voltage from 120V to 277V AC 50/60hz without any modifications. We also make a 12/24V AC/DC version for low voltage applications for AC or DC power.

Energy Consumption Comparison

	T5HO	T8	LED
Wattage	108 watts	64 watts	56 watts
Amp Draw @ 120V AC	0.90 amps	0.54 amps	0.47 amps
Amp Draw @ 220V AC	0.49 amps	0.29 amps	0.25 amps
Amp Draw @ 240V AC	0.45 amps	0.27 amps	0.23 amps
Amp Draw @ 277V AC	0.39 amps	0.24 amps	0.20 amps
Amp Draw @ 12V DC	9 amps	5.34 amps	4.67 amps
Amp Draw @ 24V DC	4.5 amps	2.67 amps	2.34 amps
Lamp Life Expectancy	20,000 hours	24,000 hours	50,000 hours

Operation cost per year (12hs/day @ 12c/kWh)	$56.77	$33.64	$29.43

Our EPL-EMG-48-2L-LED-G2-50C LED light fixture is U.S. and Canada approved for use in paint spray booths. Please note, according to the NEC, using threaded rigid pipe does not require additional seal offs with this fixture. An EYM and seal off is necessary for flex conduit or other non-rigid pipe implementations.
Wiring: The EPL-EMG-48-2L-LED-G2-50C is outfitted with a seal off and a 50' 16/3 SOOW cord for completing wiring connections. The cord is terminated in a blunt cut end.
Mounting Options: Unless otherwise specified, our standard, most popular configuration is the bracket end mounting shown enlarged below. We also offer a pendant mount for those needing to suspend the fixture away from the ceiling surface (i.e. suspend from pipe or conduit). Additional mounting configurations can be customized to meet the requirements on the application. Please contact us for special mounting configurations.
Adjustable Surface Mount Brackets: Each bracket is cinched to the bracket mounting peg on each side of the light. The angle of the bracket is set by tightening two cap screws on either side of the bracket. The cap screws act as a set screw. The bracket itself is mounted via a single bolt hole at the top the bracket. There are two brackets, one on each end of the light. Once the brackets are mounted to a surface (ceiling, floor or wall), the light fixture can be removed from the brackets by loosening the cap screws that hold the bracket to the mounting peg.
Suspension Mounting: Pendant mount fixtures hang from the ceiling and are suspended by rigid pipe. Each fixture features a 1/2" NPT junction box on one end, and a 1/2” NPT adjustable L-bracket on the other end of the fixture. Operators bring rigid pipe down to the threaded mounting hubs. Wiring is fed down through the rigid pipe to the junction box and tied in to the fixture's lead wires, completing the electrical connection. The adjustable L-shape mounting bracket provides support for the opposite end of the fixture.
Suggested Applications: Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants, chemical manufacturing, waste treatment plants, and gas processing plants.
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)

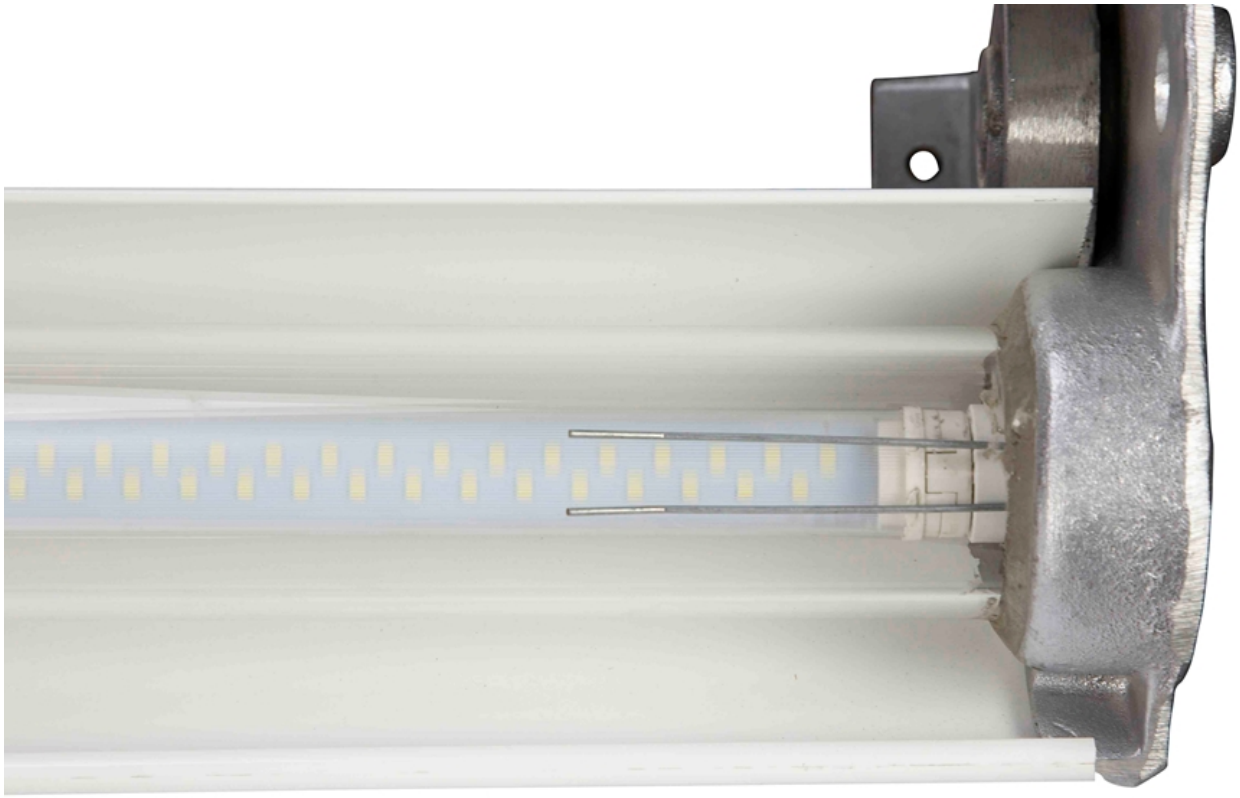






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Product ID: 293049

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-EMG-48-2L-LED-G2-50C-Mount-Voltage

Example: EPL-EMG-48-2L-LED-G2-50C-SFC-120V

Mount	
SURFACE	-SFC
PENDANT	-PND

Voltage	
120V	-120V
277V	-277V

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**