Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

HAL-LI-EMG-48-4L-LED

Hazardous Area Emergency Fluorescent Light - Lay-In Mount - 2X4 Front Load Troffer - Failsafe - LED

Product ID: 50871

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.

HAL-LI-EMG-48-4L-LED Hazardous Area

Listing: United States - Canada

Dimensions: 47-1/2 "-L x 23-1/2"-W x 3-15/16 "-D
Weight: 44 lbs
Voltage: Universal 120-277VAC 50/60 Hz or 11-25V AC/DC
Total Watts: 112 watts
Total Lumens: 14,000
LED Lamp Life Expectancy: 50,000+ Hours
Luminous Efficiency: 125 Lumens per Watt
Color Temp: 5600K, 4500K, 3000K
Color Rendering Index: >80
Beam Angle: 150°
Power Efficiency: 90%
Power Factor: >0.95
Battery AC Input Voltage: 120/277V AC 60Hz
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 Type: High Temp, Maintenance Free, Nickel Cadmium
Battery Charge Current: 250 mA
Battery Recharge Time: 24 Hours
Ambient Operating Temp Range:0° C to +50°C
Operating Temp Range: T3C Rated 160°C
Minimum Operating Temp: 0°C

Ratings/Approvals

Class 1 Division 2, Groups A, B, C, D
Class 2 Division 2 Groups F,G
Suitable for Locations with Paint Deposits
Approved for Confined Spares
Failsafe Lighting
Emergency Battery Backup
90+ Minute Runtime
Made in the USA

Special Orders - Special Requirements

Maximum Case Temp: +50°C

Materials: Powder Coated 20 Gauge Steel

Mounting: Low Profile Lay-In Troffer Design

Wiring Hub: 3/4" NPT

Contact us for special requirements

Toll Free: 1-800-369-6671

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

Made in Texas

The Larson Electronics HAL-LI-EMG-48-4L-LED Hazardous Area Emergency Backup LED Light Fixture is U.S./Canada ETL listed Class 1 Division 2 Groups A, B, C and D and ideal for use in paint spray booth, clean rooms and industrial hazardous locations where accumulated paint and finish residues may be encountered. This unit is of a lay-in mount, front loading troffer design offering a 2`-W X 4`-L by 2 1/2"-Depth profile for providing maximum illumination from limited mounting space.
******PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO THIS HAZARDOUS LOCATION LIGHT FIXTURE******
The HAL-LI-EMG-48-4L-LED fixture is a 4 foot long, 4 lamp, Class 1 Division 2 Groups A, B, C and D hazardous area Emergency Backup LED light and a good choice for use in industrial clean room applications and paint spray booths. This front access troffer style fixture is T3C temperature rated, vapor proof and dust proof, and comes standard with Larson Electronics`s LEDT8-28W-V1 28 Watt LED bulbs. The housing on this unit is constructed of powder coated 20 gauge steel, and is sealed and gasketed for safety. The Lamp housing contains a highly reflective insert to increase light output efficiency. The lamps are held in place by spring loaded sockets and protected by a 90° hinged glass door with a 3/16” tempered glass lens which is secured with three turn latches.
We now offer our second generation LED tube lamps with this fixture which have increased this hazardous location light’s performance. This four 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.

We have eliminated the ballast normally associated with hazardous location fluorescent fixtures which reduces overall weight and overall complexity of installation. There is no ballast in this unit and 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 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.
This fixture is multi-voltage (universal) capable and is available in voltages of 120-277 VAC (optional low voltage 12-24V DC available). Wiring is through 1/2 NPT wiring hubs located on the back side of the fixture. This fixture also provides

added safety through the inclusion of an integral magnetic paint spray cutoff switch that shuts down paint spray systems when the fixture is opened.
This fixture features a troffer lay-in mounting design housing that measures only 2 and 1/4 inches in thickness and 2 feet wide by four feet long, resulting in a very low profile fixture that is deal for flush mounting in ceilings that utilize standard sized ceiling tiles.

Energy Consumption Comparison

	T5HO	T8	LED
Wattage	216 watts	128 watts	112 watts
Amp Draw @ 120V AC	1.80 amps	1.07 amps	0.93 amps
Amp Draw @ 220V AC	0.98 amps	0.59 amps	0.51 amps
Amp Draw @ 240V AC	0.90 amps	0.54 amps	0.47 amps
Amp Draw @ 277V AC	0.78 amps	0.47 amps	0.40 amps
Amp Draw @ 12V DC	18 amps	10.67 amps	9.33 amps
Amp Draw @ 24V DC	9 amps	5.34 amps	4.67 amps
Lamp Life Expectancy	20,000 hours	24,000 hours	50,000 hours
Operation cost per year (12hs/day @ 12c/kWh)	$113.53	$67.28	$58.86

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 13,440 total lumen light output. An HAL-LI-EMG-48-4L-LED explosion proof fluorescent light, with a combined total of 128 watts, draws 1.07 amps at 120 volts AC. This LED version of the same light, with a total of 112 watts, draws only 0.93 amps at 120 volts AC. The HAL-LI-EMG-48-4L-LED 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.

Made in USA Quality

1. Each unit dialectrically tested.
2. Fixture arrives assembled and lamped to reduce installation time and cost. Adjustable mounting brackets enable the operator to choose any mounting angle for the fixture.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy
4. No ballast box. No ballast to replace. We simply run the black wire to one end of the bulb and white wire to the other.
5. Heavy gauge extruded aluminum reflectors with high gloss reflective finish. Resists dents and corrosion.
6. A wrench is used to unscrew the end caps for relamping the fixture, while some competitive models require the “tap and knock off” method to loosen the end cap.
7. Explosion proof, impact and heat resistant Pyrex tubes provide lamp protection.

Lamp Options

1. 50,000 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 LEED 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.

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Frequently Asked Questions (FAQ)

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Product ID: 50871

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:

HAL-LI-EMG-48-4L-LED-Color Temp

Example: HAL-LI-EMG-48-4L-LED-56K

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

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **MSDS (Material Safety Data Sheet**
- **Operations Manual**
- **STEP File (3D CAD Model)**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**