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## HALP-EMG-48-2L-LED

**56W Hazardous Location Light Emergency Backup Fixture, Non-Metallic, 2 LED Lamps, Corrosion Resistant, Marine Application, C1D2/C2D2**

**Product ID: 50315**

**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.**

**HALP-EMG-48-2L-LED - Hazardous Area LED Offshore Emergency Light**

**Listing: NRTL Listed to United States, Canada**
**Lamp Technology: LED**
**Dimensions: 52.00"-L x 8.25"-W x 7.00"-H**
**Weight: 8 lb**
**Voltage: Universal 120-277V AC, 50/60 Hz or 12-24V AC/DC**
**Lamp Qty: (2)**
**Lamp Wattage: 28 Watts Per Lamp**
**Total Watts: 56 Watts**
**Lamp Lumens: 3,500 lms**
**Lumens on Battery Power: 3,500 lms**
**Total Lumens: 7,000 lms**
**Luminous Efficacy: 125 Lm/w**
**Lamp Life Expectancy: 50,000+ Hours**
**Lamp Color Temperature: 3000K, 4500K, or 5600K**
**Color Rendering Index: >80 CRI**
**Lamp Type:** LED
**Lamp Base:** -
**Replacement Lamp:** -
**Beam Angle: 150°**
**Dimming Function: No**
**Lighting Configuration: Flood**
**Power Efficiency: >95%**
**Power Factor: 0.992**
**Amps: 0.47A @ 120V, 0.27A @ 208V, 0.25A @ 220V, 0.23A @ 240V, 0.20A @ 277V**
**Battery AC Input Voltage: 120/277V AC 60 Hz**

**Ratings/Approvals**

Listed for United States and Canada
Class I, Division 2, Groups A, B, C, D
Class II, Division 2, Groups F, G
NRTL Certified to UL 844
NRTL Certified to UL 924
NRTL Certified to UL 1598A Marine Type (Salt water)
NRTL Certified to C22.2 No. 137
NRTL Certified to C22.2 No. 250.0
Meets USCG Specifications
California Title 24 Compliant
T6 Temperature Rating
Non-Corrosive Construction
Non-Metallic Housing Pan & Lens
Made in the USA
BAA Compliant
Silicone Free
CE Certified
Field Serviceable
Failsafe Lighting
Emergency Battery Backup
90+ Minute Runtime

**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**
**Operating Temp Rating: T6**
**Minimum Operating Temp: 0°C**
**Maximum Case Temp: +50°C**
**Housing Material: Fiberglass Reinforced Polyester Housing**
**Lens Material: Shatter/Impact Resistant Acrylic Diffuser**
**Gasket Material: Neoprene**
**Mounting: Flange Type Surface Mount or Pendant Mount**
**Wiring Hub: 1/2" or 3/4" NPT**

**Special Orders - Special Requirements**
Contact us for special requirements

**Toll Free:** 1-800-369-6671

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## Made in the USA

**The HALP-EMG-48-2L-LED from Larson Electronics is a Hazardous Area LED Emergency Light Fixture that is U.S./Canada approved Class I Division 2 Groups A, B, C and D and is specifically designed to handle the rigors of wet and corrosive marine environments. This failsafe hazardous location LED light has a T6 temperature rating and carries a United States Coast Guard approval, making it ideal for applications such as oil rigs, ships, offshore applications, petrochemical, manufacturing, chemical storage, and water treatment centers.**

This four foot long, two lamp LED fixture is ideal for operators seeking a top quality hazardous location light that will reduce operating costs, improve lighting quality, and reduce downtime incurred from frequent servicing intervals. The HALP-EMG-48-2L-LED hazardous area LED light fixture is designed for use in wet areas and saltwater-marine environments where corrosion resistance is critical to equipment longevity and safety. This Class I Division 2 rated fixture is constructed of non-corrosive materials including a polyester housing reinforced with glass fiber, a poured in gasket for reliable sealing, and an impact resistant acrylic diffuser. Corrosion resistant plastic latches secure the lamp cover to the housing and provide a firm lock against the poured in seal to prevent drips and water intrusion.

This emergency backup LED light works, mounts and is wired like our HALP-48-2L-LED explosion proof 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.



Click Photo to Enlarge



Click Photo to Enlarge



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We now offer our second generation LED tube lamps with this fixture which have increased this hazardous location light's performance. This two lamp HAZLOC LED linear fixture is lighter in weight and produces more light than hazardous location 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.

The HALP-EMG-48-2L-LED is NRTL Listed to UL 844 for Class I Division 2, Groups A, B, C, D hazardous locations. This fixture is also NRTL Listed to UL 1598A for outdoor marine type luminaires, and meets US Coast Guard specifications. This light fixture offers the extreme durability, high efficiency, and long lamp life of high power LEDs in a proven hazardous location fixture design, making it a reliable and affordable lighting solution for open areas where flammable chemicals and vapors may occasionally be present.

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

We have eliminated the ballast box normally associated with fluorescent fixtures which reduces overall weight and creates a slimmer unit profile. 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. 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.

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 an acrylic diffuser 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. A HAL-48-2L-T8 hazardous location 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 HALP-EMG-48-2L-LED is universal voltage, not multi-tap, and operates on any voltage from 120V to 277V AC, 50/60 Hz 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 |
| Color Temperature | 5000K / 4100K | 4100K | 5600K |
| Operation cost per year (12hs/day @ 12c/kWh) | $56.77 | $33.64 | $29.43 |

**Mounting Options:** Unless otherwise specified, our standard, most popular configuration is the flange mount 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.



Surface Mount (Standard)
Click Photo to Enlarge

**Standard Flange Brackets:** Flange type stainless steel mounts attached at each end of the fixture enables it to be simply secured to any surface. The mounts provide some shock absorbency protection while enabling the user to simply mount the fixture with the through-hole taps that protrude on each side of the fixture. The mounting holes are 38.25" on center apart along the top of this hazardous location light. The mounting holes are 7.2" on center across the top of the light.



Pendant Mount (Optional)
Click Photo to Enlarge

**Standard Suspension Mounting:** Pendant mount fixtures hang from the ceiling and are suspended by rigid pipe. Each fixture is equipped with either two 1/2" or 3/4” NPT hubs, one on each end of the fixture. Operators bring rigid pipe down to the threaded mounting hubs. Wiring is fed down through the rigid pipe to one of the NPT hubs and tied in to the fixture's lead wires, completing the electrical connection. The remaining pendant hub provides support for the opposite end of the fixture.

**Suggested Applications:** The HALP-EMG-48-2L-LED is designed for marine, wet, damp locations where corrosion resistant fluorescent lights are required or are already present. This includes petrochemical facilities, lubrication pits, oil drilling rigs, crew quarters, solvent/cleaning areas, water treatment areas, processing plants, and marine loading docks.

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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**HALP-EMG-48-2L-LED**

**Product ID: 50315**

**Harmonized System (HS) Code:** 9405.41.84.10

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

**Options:**

**HALP-EMG-48-2L-LED-Mount-Color Temp-Hub Config**

**Example: HALP-EMG-48-2L-LED-SFC-30K-0.5IN**

| Mount | |
|---|---|
| SURFACE | -SFC |
| PENDANT | -PND |

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

| Hub Config | |
|---|---|
| 1/2IN | -0.5IN |
| 3/4IN | -0.75IN |

Links (Click on the below items to view):

- Dimensional Drawing 2D
- IES (Photometric File)
- MSDS (Material Safety Data Sheet
- Operations Manual
- Solidworks EASM File
- STEP File (3D CAD Model)
- USA NEC Certificate (Commonly referred to as UL Certificate)
- Wiring Diagram (Oneline)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- Video1
- Video2
- Video3
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map