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

HALP-EMG-24-2L-LED

28W Hazardous Location Light Emergency Backup Fixture, Non-Metallic, 2 LED Lamps, Corrosion Resistant, Marine Application, C1D2/C2D2

Product ID: 70417

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-24-2L-LED - Hazardous Area LED Offshore Emergency Light

Listing: NRTL Listed to United States, Canada
Lamp Technology: LED
Dimensions: 25.88"-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: 14 Watts Per Lamp
Total Watts: 28 Watts
Lamp Lumens: 1,750 lms
Lumens on Battery Power: 1,750 lms
Total Lumens: 3,500 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: 0.23A @ 120V, 0.12A @ 220V, 0.11A @ 240V, 0.10A @ 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 C22.2 No. 137
NRTL Certified to UL 1598A Marine Type (Salt water)
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

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
Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

Made in the USA

The HALP-EMG-24-2L-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 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 two 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-24-2L-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-24-2L-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 1,750 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.

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 two 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-24-2L-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 14 watt LED lamps produce 30% more illumination than standard T8 bulbs while offering lower amp draw and increased reliability. Each lamp produces 1,750 lumens at 125 lumens per watt, for a combined 3,500 total lumen light output. A HAL-24-2L-T8 hazardous location fluorescent light, with a combined total of 34 watts, draws 0.29 amps at 120 volts AC. This LED version of the same light, with a total of 28 watts, draws only 0.23 amps at 120 volts AC. The HALP-EMG-24-2L-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.

Energy Consumption Comparison

	T5HO	T8	LED
Wattage	54 watts	32 watts	28 watts
Amp Draw @ 120V AC	0.45 amps	0.27 amps	0.23 amps
Amp Draw @ 220V AC	0.25 amps	0.15 amps	0.12 amps
Amp Draw @ 240V AC	0.23 amps	0.13 amps	0.11 amps
Amp Draw @ 277V AC	0.19 amps	0.11 amps	0.10 amps
Amp Draw @ 12V DC	4.5 amps	2.67 amps	2.33 amps
Amp Draw @ 24V DC	2.25 amps	1.33 amps	1.17 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	$14.71

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.
Standard Flange Brackets: Flange type aluminum 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 14.91" inches on center apart along the top of this hazardous location light. The mounting holes are 9.5" inches on center across the top of the light.
Standard Suspension Mounting: This light fixture can hang from the ceiling suspected by rigid pipe. Each fixture is equipped with either two 1/2" or 3/4" NPT hubs on either side of the fixture. Operators will bring rigid pipe down to the

threaded mounting ups. The wiring is fed down through the rigid pipe to one of the NPT hubs and tied to the fixture`s lead wires to complete the electrical connection. The remaining pendant hub provides support for the opposite end of the fixture.

Suggested Applications: The HALP-EMG-24-2L-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.

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

Frequently Asked Questions (FAQ)

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







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

HALP-EMG-24-2L-LED
Product ID: 70417

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

Options:
HALP-EMG-24-2L-LED-Voltage-Mount-Color Temp
Example: HALP-EMG-24-2L-LED-1227-SFC.0.75IN-30K

Voltage	
120-277V AC	-1227
12-24V AC/DC	-1224

Mount	
SURFACE 3/4IN	-SFC.0.75IN
SURFACE 1/2IN	-SFC.0.5IN
PENDANT 3/4IN	-PND.0.75IN
PENDANT 1/2IN	-PND.0.5IN

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

Links (Click on the below items to view):

- **IES (Photometric File)**
- **MSDS (Material Safety Data Sheet**
- **Operations Manual**
- **USA NEC Certificate (Commonly referred to as UL Certificate)**
- **Wiring Diagram (Oneline)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **Video1**
- **Video4**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**