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HALP-EMG-48-2L-LED-DNMS-2XW

56W Hazardous Location Light Emergency Backup Fixture, Non-Metallic, 2 LED Lamps, Motion + Day/Night Sensor, Corrosion Resistant, Marine Application, C1D2/C2D2

Product ID: 240636

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-DNMS-2XW - Hazardous Area LED Offshore Emergency Light	Ratings/Approvals
Listing: NRTL Listed to United States, Canada	Listed for United States and Canada
Lamp Technology: LED	Class I, Division 2, Groups A, B, C, D
Dimensions: 52.00"-L x 8.25"-W x 7.00"-H	Class II, Division 2, Groups F, G
Weight: 8 lb	NRTL Certified to UL 844
Voltage: Universal 120-277V AC, 50/60 Hz or 12-24V AC/DC	NRTL Certified to UL 924
Lamp Qty: (2)	NRTL Certified to UL 1598A Marine Type (Salt water)
Lamp Wattage: 28 Watts Per Lamp	NRTL Certified to C22.2 No. 137
Total Watts: 56 Watts	NRTL Certified to C22.2 No. 250.0
Lamp Lumens: 3,500 lms	Meets USCG Specifications
Lumens on Battery Power: 3,500 lms	California Title 24 Compliant
Total Lumens: 7,000 lms	T6 Temperature Rating
Luminous Efficacy: 125 Lm/w	Non-Corrosive Construction
Lamp Life Expectancy: 50,000+ Hours	Non-Metallic Housing Pan & Lens
Lamp Color Temperature: 3000K, 4500K, or 5600K	Made in the USA
Color Rendering Index: >80 CRI	BAA Compliant
Lamp Type: LED	Silicone Free
Lamp Base: -	CE Certified
Replacement Lamp: -	Field Serviceable
Beam Angle: 150°	Failsafe Lighting
Dimming Function: No	Emergency Battery Backup
Lighting Configuration: Flood	90+ Minute Runtime
Power Efficiency: >95%	Switch Leg for Powering Light On/Off
Power Factor: 0.992	Individual Circuit Control
Amps: 0.47A @ 120V, 0.27A @ 208V, 0.25A @ 220V, 0.23A @ 240V, 0.20A @ 277V	Integrated Day/Night + Motion Sensor
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
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

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Made in the USA

The HALP-EMG-48-2L-LED-DNMS-2XW 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 fixture is equipped with an added battery backup providing 90 minutes of emergency runtime.

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-DNMS-2XW 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. Designed for total illumination control, the LED lamps can be controlled individually to suit the needs of operations in the hazardous location. 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



Click Photo to Enlarge





Sensor Technology: The emergency LED light is equipped with an innovative and powerful day/night + motion sensor. This sensor, which is located inside the light fixture itself, allows the HALP-EMG-48-2L-LED-DNMS-2XW to operate in one of several different and versatile modes. This LED light fixture can be set to be motion activated, day/night activated or in a combination of motion sensing and day/night modes. This high-tech sensor is also highly adjustable and allows operators to modify the following settings: motion sensor sensitivity, motion sensor time-delay and the intensity output level of the fixture. Having this degree of flexibility in operation and settings offers operators an incredibly versatile light fixture.
Sensor Configuration: The impressive versatility of the motion + day/night sensor found in the HALP-EMG-48-2L-LED-DNMS-2XW LED light fixture allows for a lot of creativity in the setup of a single one of these light fixtures. However, the versatility is further increased when multiple units are to be installed together such as in a parking garage or other similar structure. Operators can take advantage of the sensor versatility to set up an energy efficient and automated lighting setup. Take a parking garage for example. Operators would be able to set up a sequence of HALP-EMG-48-2L-LED-DNMS-2XW fixtures with alternating lights on separate circuits. The first circuit would have sensors set to a lower lux level than the fixtures on the second circuit. This hypothetical setup would allow half the lights to come on as daylight began to fade and the rest of the lights would only come on once complete darkness had fallen. The fixtures could then be adjusted for motion sensing which would allow selected fixtures to power on when pedestrian or vehicle movement was detected and then turn off after an operator chosen interval to conserve energy. This is just one example of the flexibility and versatility that can be achieved with the HALP-EMG-48-2L-LED-DNMS-2XW.
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-DNMS-2XW 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-DNMS-2XW 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-DNMS-2XW 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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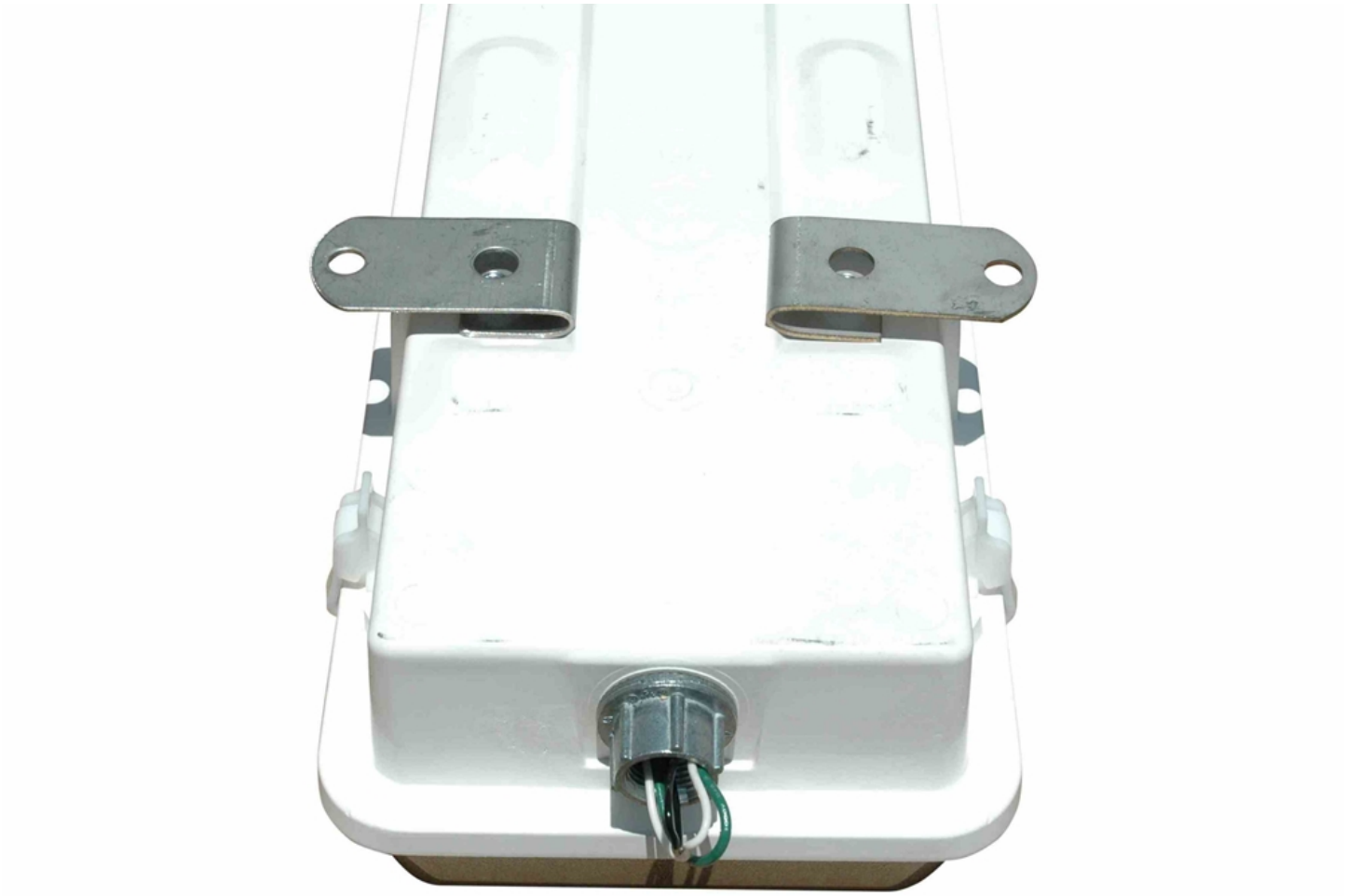
Frequently Asked Questions (FAQ)



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HALP-EMG-48-2L-LED-DNMS-2XW

Product ID: 240636

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HALP-EMG-48-2L-LED-DNMS-2XW-Voltage-Mount-Color Temp

Example: HALP-EMG-48-2L-LED-DNMS-2XW-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):

- **Dimensional Drawing 2D**
- **MSDS (Material Safety Data Sheet**
- **Operations Manual**
- **USA NEC Certificate (Commonly referred to as UL Certificate)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **Video1**
- **Video4**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**