

HALP-48-1L-LED-RPS-M-120V

28W Hazardous Location Light Emergency Backup Fixture, Non-Metallic, 1 LED Lamp, Magnet Mount, Rechargeable, Corrosion Resistant, Marine Application, C1D2/C2D2

Product ID: 272983

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-48-1L-LED-RPS-M-120V - Hazardous Area LED Offshore 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: 120 V AC, 50/60 Hz

Lamp Qty: (1)

Lamp Wattage: 28 Watts Per Lamp

Total Watts: 28 Watts

Lamp Lumens: 3,500 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: 0.47A @ 120V, 0.27A @ 208V, 0.25A @ 220V, 0.23A @ 240V, 0.20A @ 277V

Recharge Time: 24 Hours

Battery: High-Temperature, Maintenance Free Nickel-Cadmium

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 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

T4 Temperature Rating

Non-Corrosive Construction

Non-Metallic Housing Pan & Lens

Made in the USA

BAA Compliant

Silicone Free

CE Certified

Field Serviceable

Ambient Operating Temp Range: -30°C to +85°C
Operating Temp Rating: T4
Minimum Operating Temp: -30°C
Maximum Case Temp: +90°C
Housing Material: Fiberglass Reinforced Polyester Housing
Lens Material: Shatter/Impact Resistant Acrylic Diffuser
Gasket Material: Neoprene
Mounting: Magnetic Mount w/ (4) 200 lb Magnets - 800 lb Combined Force
Wiring: 5' 16/3 SOOW Cord w/ Explosion Proof Cord Cap
Cord Cap: 5-15P or 5-20P

Special Orders - Special Requirements

Contact us for special requirements

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E-mail: sales@larsonelectronics.com

Made in the USA

The HALP-48-1L-LED-RPS-M-120V from Larson Electronics is a Hazardous Area LED 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 T4 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, one 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-48-1L-LED-RPS-M-120V 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.

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[Click Photo to Enlarge](#)

We now offer our second generation LED tube lamps with this fixture which have increased this hazardous location light's performance. This one 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-48-1L-LED-RPS-M-120V 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-48-1L-LED-RPS-M-120V 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

	<u>T5HO</u>	<u>T8</u>	<u>LED</u>
Wattage	54 watts	32 watts	28 watts
Amp Draw @ 120V AC	0.45 amps	0.27 amps	0.23 amps
Amp Draw @ 220V AC	0.24 amps	0.14 amps	0.13 amps
Amp Draw @ 240V AC	0.22 amps	0.13 amps	0.11 amps
Amp Draw @ 277V AC	0.19 amps	0.12 amps	0.10 amps
Amp Draw @ 12V DC	4.5 amps	2.67 amps	2.34 amps
Amp Draw @ 24V DC	2.25 amps	1.34 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)	\$28.38	\$16.82	\$14.72

This fixture operates on rechargeable battery power and uses 120 V AC for recharging purposes.

This rechargeable LED light works, mounts, and is wired like our HALP-48-1L-LED explosion proof LED light fixtures. The main difference is that we add a battery that adds rechargeable functionality to the fixture. This hazardous area light will run one bulb at 28 watts for 90 minutes at 3500 lumens. The light recharges the battery when the 5' 16/3 SOOW cord terminated in an explosion proof cord cap is connected to an outlet. The light takes 24 hours to fully recharge.

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5-15 Straight Blade Plug



5-20 Straight Blade Plug

Wiring & Plug: This rechargeable hazardous area LED light fixture is equipped with 5 feet of 16/3 chemical and abrasion resistant SOOW cord that is fitted with an explosion proof cord cap for easy connection to explosion proof outlets for recharging the battery. Plug options include a 5-15 15 amp straight blade plug for use with 120V explosion proof outlets or a 5-20 20 amp straight blade plug for use

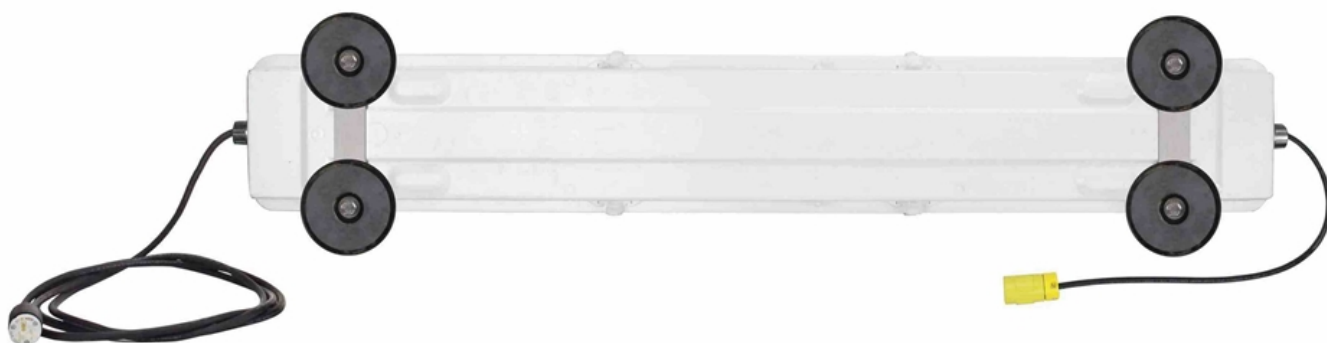
with 120V explosion proof outlets. *****PLEASE NOTE** voltage ratings on plugs and outlets are MAXIMUM voltage. For low voltage applications, proper voltage must be applied to the outlet or damage to the light fixture will occur.***

Mounting: This corrosion resistant light fixture offers a stationary magnetic mounting system. Four 5" OD magnets, each providing 200 lb of gripping force, allow operators to temporarily mount this LED light fixture to ferrous surfaces.

Suggested Applications: The HALP-48-1L-LED-RPS-M-120V 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.

Frequently Asked Questions (FAQ)



HALP-48-1L-LED-RPS-M-120V

Product ID: 272983

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HALP-48-1L-LED-RPS-M-120V-Cord Cap-Color Temp

Example: HALP-48-1L-LED-RPS-M-120V-1523-30K

Cord Cap	
5-15 STRAIGHT	-1523
5-20 STRAIGHT	-2023-125V

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

Links (Click on the below items to view):

- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [Video4](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)