

## 80W C1D2 Hazardous Location Integrated LED - Corrosion Resistant for Marine - Emergency Backup

[HALP-EMG-48-2L-ITG-LED-V2](#)



### HALP-EMG-48-2L-ITG-LED-V2 Hazardous Area LED Offshore Light

**UL Listing:** United States - Canada

**Dimensions:** W-8.25" x L-52" x H-7"

**Weight:** 13 Lbs

**Total Watts:** 80 watts

**Total Lumens:** 8,000

**Voltage:** Universal 90 to 305V AC or 127 to 431V DC

**Lamp Life Expectancy:** 60,000 Hours

**Luminous Efficacy:** 120 Lm/w

**Temp Range:** -30°C to +85°C

**Beam Angle:** 160°

**Color Temp:** 6000K

**Minimum Operating Temp:** -30° C

**Maximum Case Temp:** 90° C

**Mounting:** Flange Type Surface Mount or Pendant Mount

**Materials:** Polyester Housing Reinforced with Glass Fiber

**Wiring Hub:** 1/2" or 3/4" threaded

**Lens Material:** Acrylic Lens

**Warranty:** YES- 3 Years\*

**U.L Approval:** [U.S Certificate](#) [Canada Certificate](#)

### U.L. Ratings

Class I Division 2, Groups A, B, C, D

Class II, Division 2, Groups F, G

UL 844

UL 1598A Marine Type (Salt water)

California Title 24 Compliant

T4A Temperature Rated

Integrated LED Assembly

Made in the USA

Emergency Battery Backup

### Special Orders- Requirements

Contact us for special requirements

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### **Made in Texas**

**The Larson Electronics HALP-EMG-48-2L-ITG-LED-V2 Hazardous Area LED Light Fixture is U.S./Canada UL Listed Class 1 Division 2 Groups A, B, C and D, UL 1598A listed, and is specifically designed to handle the rigors of wet and corrosive marine environments. This LED light features a emergency battery backup that runs for 90 minutes. This integrated 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 integrated LED fixture is ideal for operators seeking a top quality explosion proof LED light that will reduce operating costs, improve lighting quality and reduce downtime incurred from frequent servicing intervals. The HALP-EMG-48-2L-ITG-LED-V2 fixture is equipped with a specially designed integrated LED array which produces 8,000 lumens of bright light in a 160° wide flood beam spread, resulting in 50% more foot candles of illumination at 8 feet as compared to standard T5HO lamps when measured with an Extech light meter. Our

integrated series are visibly brighter than standard T5HO`s and have consistently surprised many of our customers with their unexpectedly high light output levels. This emergency LED light works, mounts and is wired like our HALP-48-2L-LED-G2 explosion proof LED light fixtures. The main difference is that we add a battery backup unit that adds emergency light functionality to the fixture. This hazardous area emergency light will run one bulb at 40 watts the standard UL suggested 90 minutes after power is lost at 4000 lumens. The light recharges the battery once electrical power is restored. Standard configuration includes a single emergency battery backup that is automatically recharged and kept in a ready state. Alternatively, we can configure this unit to be an emergency only fixture, where the light will only operate when power is lost. Please choose EMG only below for emergency only operation. 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



This Class 1 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. Eight 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.

The HALP-EMG-48-2L-ITG-LED-V2 is UL 844 rated and Class 1 Division II, Groups A, B, C, D approved. This fixture also carries a UL 1598A outdoor marine rating and meets US Coast Guard specifications. This lamp 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 integrated LED array has a 60,000+ hour service life, both of which result in extreme efficiency and greatly reduced maintenance costs. The solid state design of LED technology give this fixture superior resistance to damage from vibration, extremes in temperature, and a lamp life over twice that of standard fluorescent bulbs.

Unlike the glass tube design of traditional fluorescent lamps, this integrated LED array has 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. 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 integrated LED array design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional fluorescent lighting.

The LED array in this fixture produces 80% more illumination than standard T8 bulbs while offering lower amp draw and increased reliability. The LED array

produces 8,000 lumens at 120 lumens per watt. A HALP-48-3L-T5HO hazardous location fluorescent light, with a combined total of 162 watts, draws 1.35 amps at 120 volts AC and produces 15,000 lumens. This LED version of the same light, with a total of 80 watts, draws only 1.3 amps at 120 volts AC and produces 8,000 lumens. The drivers in this unit provide the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. The HALP-EMG-48-2L-ITG-LED-V2 is universal voltage, not multi-tap, and operates on any voltage ranging from 90 to 305V AC or 127 to 431V DC without any modifications necessary. We also offer other variations of this light if needed to fit your specific application, 347-480V AC, 12-24V DC, 48V DC, and 0-10V dimmable models upon request.

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### Energy Consumption Comparison

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	<b>T5HO</b>	<b>T8</b>	<b>Integrated LED</b>
Wattage	216 watts	112 watts	160 watts
Amp Draw @ 120V AC	1.8 amps	0.93 amps	1.33 amps
Amp Draw @ 220V AC	0.98 amps	0.51 amps	0.73 amps
Amp Draw @ 240V AC	0.9 amps	0.47 amps	0.23 amps
Amp Draw @ 277V AC	0.78 amps	0.40 amps	0.67 amps
Amp Draw @ 12V DC	18 amps	9.33 amps	13.33 amps
Amp Draw @ 24V DC	9 amps	4.67 amps	6.67 amps
Fixture Lumens	20,000	14,000	8,000
Lamp Life Expectancy	20,000 hours	24,000 hours	60,000 hours
Color Temperature	5000K / 4100K	4100K	6000K
Operation cost per year (12hs/day @ 12c/kWh)	\$113.53	\$58.87	\$84.10

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*Please note: The above energy tables are comparing 4ft 4-lamp fixtures to the HAL-48-2L-ITG-LED-BMSW integrated LED fixture. The light output is comparable to a 4ft 4-lamp fixture, but the form factor is of a 4ft 2-lamp fixture. This fixture has the same output as our HALS-48-4L with four 54 watt T5HO lamps, but in the compact form factor of the HAL-48-2L-BMSW housing. Currently you cannot achieve comparable light output in the same form factor from fluorescent lighting.*

### 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)**  
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### 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-ITG-LED-V2 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.

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### Made in USA Quality

1. Each unit dialectically tested.
2. Fixture arrives assembled and lamped to reduce installation time and cost. Flange type stainless steel mounts attached at each end of the fixture enables it to be simply secured to any surface.
3. Fixture housing constructed of glass fiber reinforced polyester.
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. Re-lamping done via 6 stainless steel snap locking latches which enables the operator to remove the door and access the lamps.
6. Lamp cover-diffuser constructed of high impact acrylic for corrosion resistance and lamp protection.
7. 1/2" or 3/4", threaded access hole for wiring conduit.

### Superior LED Benefits

1. 60,000 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.

**Options:**

**HALP-EMG-48-2L-ITG-LED-V2-Mount-Hub Config**

**Example: HALP-EMG-48-2L-ITG-LED-V2-SFC-SFC**

Mount	
SURFACE	-SFC
PENDANT	-PND

Hub Config	
1/2IN	-SFC
3/4IN	-PND

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