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## HALSS-48-2L-LED

**Stainless Steel Hazardous Location Lighting LED Fixture - Class I, Div. II - Corrosion Resistant**

**Product ID: 47444**

**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.**

**HALSS-48-2L-LED Hazardous Location LED Lighting**
**ETL Listing: United States**
**Dimensions:** W-9 1/2" x L-54" x H-6 3/4"
**Weight:** 35 Lbs
**Total Watts:** 56 watts
**Total Lumens:** 6720
**Voltage:** 120-277 Volts AC 50/60hz, 12-24 Volts DC
**Lamp Life Expectancy:** 50,000 Hours
**Efficiency:** 90 Lumens per Watt
**Beam Angle:** 150°
**Color Temp:** 5600K or 4500K
**Temp Range: T4C Rated** -30°C to +85°C
**Minimum Operating Temp:** -30°C
**Maximum Case Temp:** +90°C
**Mounting:** Flange type Surface or Pendant Mount
**Wiring Hub:** 1/2 inch threaded

**ETL Ratings**
Class 1 Division 2, Groups A, B, C, D
UL 595 outdoor marine
UL 1598A Marine Type (Salt water)
Meets US Coast Guard specifications.

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

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**Made in the USA**

**The Larson Electronics HALSS-48-2L-LED Hazardous Area LED Light Fixture is ETL approved Class 1 Division 2 Groups A, B, C and D, UL 1598A listed, and is specifically designed to withstand high vibration locations and 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, 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 HALSS-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 1 Division 2 rated fixture is constructed of non-corrosive materials including a 304 stainless steel housing, a poured in gasket for reliable sealing, and an impact resistant acrylic diffuser. Our LED T series lamps included with this fixture add greater light output, longer lamp life and add even better resistance to damage from vibration and impacts. Corrosion resistant stainless steel latches secure the lamp cover to the housing and provide a firm lock against the poured in seal to prevent drips and water intrusion.

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.

This fixture is UL 844 rated and Class 1 Division II, Groups A, B, C, D approved. The HALSS-48-2L-LED also carries UL 1598A and UL 595 outdoor marine ratings 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.



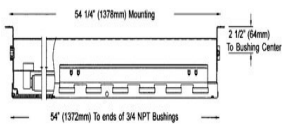
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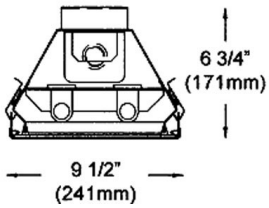
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We have eliminated the ballast box normally associated with fluorescent fixtures which reduces overall weight and creates a slimmer unit profile. There is no ballast in this unit and the included LEDT8-28W-V1 LED lamps have a 50,000+ hour service life, 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 a polycarbonate lens 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 3360 lumens at 120 lumens per watt, for a combined 6720 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 HAL-48-2L-LED-G2 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 | 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 |

This fixture is designed for heavy duty use in applications where intense vibration and corrosive environments may be encountered. Stainless steel construction, high impact acrylic lamp covers, and a Class 1 Division 2 ETL rating make this light ideal for hazardous areas that require illumination with above average dependability.

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

**Adjustable Surface Mount Brackets:** Two stainless steel L-brackets, one on each end of the fixture, enables it to be simply secured to any flat surface. Three through holes provide sufficient mounting for any environment. The angle of the bracket is set by tightening two set screws on either side of the bracket. Once the brackets are mounted to a surface (ceiling, floor or wall), the light fixture can be repositioned by loosening the cap screws, angling the light for maximum illumination, and secured in place by re-tightening the set screws on each mounting bracket.

**Suspension Mounting:** Pendant mount fixtures hang from the ceiling and are suspended by rigid pipe. Each fixture is equipped with two 1/2” 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 HALSS-48-2L-LED is designed for marine wet and damp locations, where corrosion resistant fluorescent lights are required. This lamp is also ideal for locations where heavy vibratory conditions are present. This includes petrochemical facilities, lubrication pits, oil drilling rigs, crew quarters,

solvent/cleaning areas, water treatment areas, processing plants and marine loading docks.

### 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 14 gauge 304 stainless steel.
4. Relamping done via stainless steel snap locking latches which allow the operator to remove the door and access the lamps.
5. Lamp cover-diffuser constructed of high impact acrylic for corrosion resistance and lamp protection.
6. 1/2 inch, threaded access hole for wiring conduit.

### Superior LED Benefits

1. 50,000 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.

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# Frequently Asked Questions (FAQ)







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**HALSS-48-2L-LED**
**Product ID: 47444**

**Warranty:** 36 Months.

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

**Options:**
**HALSS-48-2L-LED-Voltage-Mount-Color Temp**
**Example: HALSS-48-2L-LED-1227VAC-SFC-50K**

| Voltage | |
|---|---|
| 120-277V AC | -1227VAC |
| 12-24V DC | -1224VDC |

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

| Color Temp | |
|---|---|
| 5000K | -50K |
| 4500K | -45K |
| 3000K | -30K |

Links (Click on the below items to view):

- Dimensional Drawing 2D
- Operations Manual
- SpecSheetSpanish
- STEP File (3D CAD Model)
- Wiring Diagram
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map