

HALS-48-2L-LED

Hazardous Location LED Lighting - 4' 2 Lamp Fixture - LED Bulb - Multi-voltage - C1D2 & C2D2

Product ID: 70391

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.

HALS-48-2L-LED Hazardous Location Lighting

Dimensions: W-12 3/16" L-51 1/2 " H-5 5/16 "

Weight: 31.5 Lbs

Voltage: Universal 120-277VAC 50/60 Hz or 11-25V AC/DC

Total Watts: 56 watts

Total Lumens: 7,000

LED Lamp Life Expectancy: 50,000+ Hours

Luminous Efficiency: 125 Lumens per Watt

Color Temp: 5600K, 4500K, 3000K

Color Rendering Index: >80

Beam Angle: 150°

Power Efficiency: 90%

Power Factor: >0.95

Ambient Operating Temp Range:-30° C to +85°C

Operating Temp Range: T3C-T4A Rated

Housing Material: Powder Coated 16 Gauge Steel

Lens Material: Tempered Glass Lens

Mounting: Surface Bracket Standard - Pendant Optional

Wiring Hub: 1/2" NPT - (2) On Top, (2) On Ends

Ratings/Approvals

NRTL Listed for United States & Canada

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

Class II, Division 2 Groups F,G

Class III

NRTL Certified to UL 844

NRTL Certified to UL 1598

IP65

Wet Area Suitable

Quick Release Draw Latches & Hinged Lens

Ease-of-Access Front Access Serviceability

Adjustable Surface Mount Brackets

Made in the USA

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 Larson Electronics HALS-48-2L-LED Hazardous Area Fluorescent Light Fixture is NRTL Listed for United States and Canada Class 1 Division 2 Groups A, B, C and D - NRTL Certified to UL 1598 and ideal for use in

industrial hazardous location lighting where wet conditions and chemical/petrochemical vapors may be encountered.

*****PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO THIS HAZARDOUS LOCATION LIGHT FIXTURE*****

The HALS-48-2L-LED fixture is a 4 foot long, 2 lamp, Class 1 Division 2 Groups A, B, C and D hazardous area fluorescent light and a good choice for use in industrial applications and wet areas. This fixture is T4A temperature rated and comes standard with two T-8 fluorescent style LED lamps which produce a combined 7,000 lumens of light. The housing on this unit is constructed of powder coated 16 gauge steel for durability and contains a hinged reflector and ballast tray for easy and safe servicing. The lamps are held in place by spring loaded sockets and protected by a hinged glass door with a 3/16" tempered glass lens which is secured with four turn latches.

This fixture is universal voltage and can be operated with voltages of 120-277V AC for high voltage models, or 11-25V AC/DC for low voltage models. This fixture is IP65 rated water and dust-proof and approved for wet and marine locations. This fixture also features multiple 1/2" NPT wiring hubs with two located on top of the fixture and two more located at each end, allowing operators to through-wire multiple units in series or mount the unit with wire through conduit pendant mounts.

We have eliminated the ballast normally associated with explosion proof fluorescent fixtures which reduces overall weight and overall complexity of installation. 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. These fluorescent LED lamps have internal drivers, eliminating external power components. 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. This second generation lamp is offered in 5600K cool white, 4500K natural white, and 3000K warm white. Our standard unit ships with 5600K unless different color temperature is specified.

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 3,500 lumens at 120 lumens per watt, for a combined 7,000 total lumen light output. An HALS-48-2L-T8 explosion proof 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 HALS-48-2L-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

	<u>T5HO</u>	<u>T8</u>	<u>LED</u>
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
Operation cost per year (12hs/day @ 12c/kWh)	\$56.77	\$33.64	\$29.43

The HALS-48-2L-LED provides operators in hazardous locations with a very durable, reliable and affordable lighting solution for open areas where flammable chemicals and vapors may occasionally be present.

Adjustable Surface Mount Brackets: Two L-brackets enables it to be simply secured to any flat surface. Three through holes provide sufficient mounting for any environment. Once the brackets are mounted to a surface (ceiling, floor or wall), the light fixture can be repositioned by removing the adjustment bolts, rotating the fixture, and re-inserting the adjustment bolts in pre-drilled holes.

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: Aircraft maintenance, Oil drilling rigs, Refineries, Solvent and cleaning areas, Gas processing plants, Chemical manufacturing, Waste treatment plants, Gas processing plants.

Made in USA Quality

1. Each unit dialectically tested.
2. Fixture arrives assembled and lamped to reduce installation time and cost. Adjustable mounting brackets enable the operator to choose any mounting angle for the fixture, where other models may only offer one or three choices.
3. Fixture housing constructed of white powder coated 16 gauge steel.
4. Relamping done via 4 turn latches, which enable the operator to unlatch the hinged door and access the lamps.
5. Heavy gauge hinged reflector with high gloss reflective finish. Resists dents and corrosion.
6. Multiple 1/2 inch, threaded NPT access holes for through wiring.
7. Units can be wired end to end in series.

Superior LED Benefits

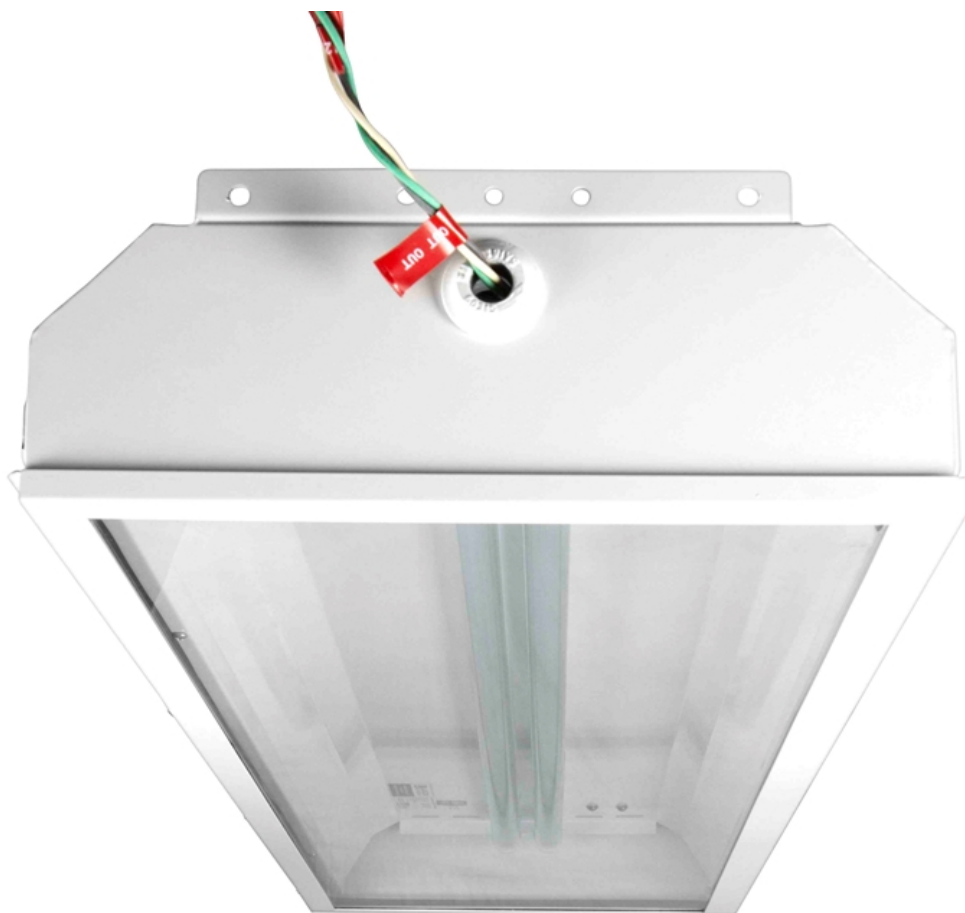
1. 50,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No 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.

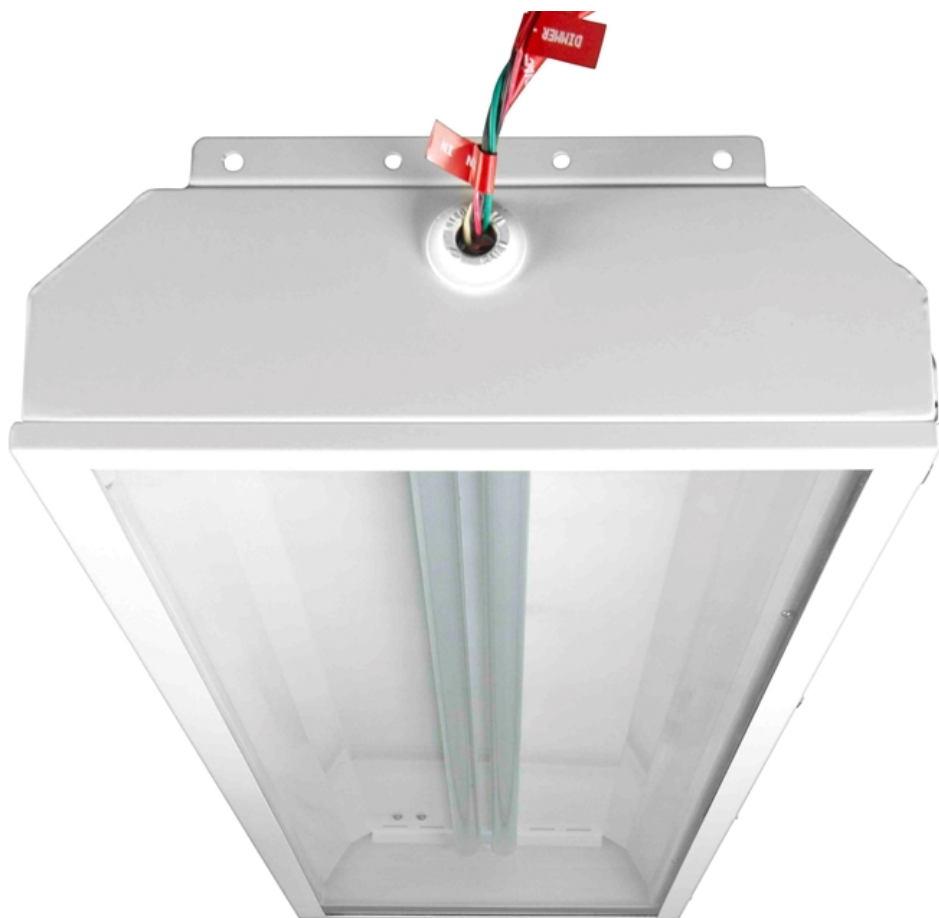


Frequently Asked Questions (FAQ)









HALS-48-2L-LED

Product ID: 70391

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HALS-48-2L-LED-Mount-Color Temp-Voltage

Example: HALS-48-2L-LED-SFC-56K-1227

Mount	
SURFACE	-SFC
PENDANT	-PND

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

Voltage	
110-277 VAC	-1227
11-25V AC/DC	-1224

Links (Click on the below items to view):

- [Dimensional Drawing 2D](#)
- [Operations Manual](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
- [HigResPic8](#)
- [HigResPic9](#)
- [Video1](#)
- [Video2](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)