

HAL-48-2L-ITG-LED-V2

Integrated C1D2 LED Light Fixture - 4 Foot 2 Lamp - Marine Grade Aluminum Light - LED Rig Light

Product ID: 152601

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.

HAL-48-2L-ITG-LED-V2 Integrated Hazardous Area LED Rig Light

Surface Mount Dimensions: 53.74"-L x 7.03"-W x 9.11"-H

Pendant Mount Dimensions: 53.74"-L x 7.03"-W x 7.62"-H

Weight: 22.7 Lbs

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

Total Watts: 56 watts (28 Watts Per Lamp)

Total Lumens: 7,000 (3,500 Per Lamp)

Luminous Efficacy: 125 Lm/W

LED Lamp Life Expectancy: 50,000 Hours

Color Temp: 5600K, 4500K, or 3000K

Color Rendering Index: >80

Beam Angle: 150°

Lighting Configuration: Flood Pattern

Power Efficiency: 90%

Power Factor: >0.95

Ambient Operating Temp Range: -40° C to +65°C

Operating Temp Rating: T4 Rated

Minimum Operating Temp: -30°C

Maximum Case Temp: +90°C

Housing Material: Copper Free Aluminum Extrusion Housing

Lens Material: Shatter/Impact Resistant Acrylic Lens

Gasket Material: Neoprene

Mounting: Surface Standard - Pendant Optional

Wiring Hub: 1/2" or 3/4" NPT

Ratings/Approvals

Class 1, Division 2, Groups A, B, C, D

NRTL Certified to UL 844

NRTL Certified to UL 1598A Marine Type (Salt water)

Certified to Canadian Standards

Meets USCG Specifications

California Title 24 Compliant

T4 Temperature Rating

LEL Listed LED Lamps

Made in the USA

Silicone Free

NRTL Listed for United States and Canada

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

Made in the USA

The Larson Electronics HAL-48-2L-ITG-LED-V2 Hazardous Area Integrated LED Light Fixture is NRTL Listed for United States and Canada Class 1 Division 2 Groups A, B, C and D, NRTL Certified to UL 1598A listed, and ideal for hazardous locations where flammable chemical/petrochemical vapors may be occasionally encountered. 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.

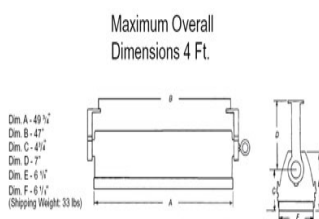
This four foot long, two lamp LED fixture is ideal for operators seeking a top quality hazardous location light that will reduce operating costs, improve lighting quality and reduce downtime incurred from frequent servicing intervals. The HAL-48-2L-ITG-LED-V2 fixture is listed Class 1 Division 2 Groups A, B, C and D hazardous area LED light that takes the reliability and efficiency of a fluorescent fixture and adds even longer lamp life and efficiency with high output LEDs. This fixture is T4A temperature rated and comes standard with our high power 28 watt LED lamps. The lamps are protected by an aluminum framed shatter and heat resistant clear acrylic lens secured with ten draw latches and the fixture is constructed of copper free aluminum alloy. The lamp reflector is corrosion resistant heavy gauge aluminum and coated with a high gloss reflective finish. The HAL-48-2L-ITG-LED-V2 is equipped with a specially designed integrated LED assembly, 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.

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 carries a T4A temperature rating and is NRTL Certified to U.L. 595 and UL 1598A Marine Type approved for use marine environments. The HAL-48-2L-ITG-LED-V2 is weatherproof and provides operators in hazardous locations with a highly efficient, 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.](#)



[Click Photo to Enlarge](#)



[Click Photo to Enlarge](#)



[Surface Mount](#)



[Pendant Mount](#)

We have eliminated the ballast normally associated with 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. 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 125 lumens per watt, for a combined 7,000 total lumen light output. A HAL-48-2L-ITG-LED-V2 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. This results in a lower amp draw while still providing increased reliability and light output.

The HAL-48-2L-ITG-LED-V2 is universal voltage, not multi-tap, and operates on any voltage from 120V to 277V AC 50/60hz without any modifications. The internal LED driver is a "smart" driver, sensing the incoming voltage and adjusting accordingly to provide the current required by the lamp. This allows operators to simply wire the fixture to voltage within the 120-277V range, no modifications required. This includes commonly found voltages such as 120V 60Hz, 220V 50Hz, 240V 60Hz, and 277V 60Hz. We also offer a 12/24V AC/DC version for low voltage applications for AC or DC power. Low voltage fixtures require no modifications between 12V and 24V power sources, nor between alternating and direct current supply.

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
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 bracket end mounting 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. A sliding bracket mount is available so operators can retrofit this

LED light fixture to use the per-existing mounting holes from other fluorescent fixtures. Below, in the related items area you can order the sliding mount bracket option.

Adjustable Surface Mount Brackets: Each bracket is cinched to the bracket mounting peg on each side of the light. The angle of the bracket is set by tightening two cap screws on either side of the bracket. The cap screws act as a set screw. The bracket itself is mounted via a single bolt hole at the top of the bracket. There are two brackets, one on each end of the light. Once the brackets are mounted to a surface (ceiling, floor or wall), the light fixture can be removed from the brackets by loosening the cap screws that hold the bracket to the mounting peg.

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: Aircraft maintenance, oil drilling rigs, refineries, marine and salt water environments, ships, tankers, offshore, 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. Pendant mount fixtures allow for suspension mounting via rigid conduit.
3. Fixture constructed streamlined ribbed corrosion-resistant, copper free extruded aluminum body for better heat dissipation, increasing LED efficiency and lamp life.
4. Aluminum extruded lens frame for greater strength
5. Re-lamping done via ten draw latches, which enable the operator to unlatch the lens and access the lamps.
6. Heavy gauge aluminum reflectors with high gloss reflective finish. Resists dents and corrosion.
7. 1/2" or 3/4", threaded access hole for wiring conduit on both ends of the fixture. Pendant mount fixtures have access holes on ends and back side of fixture.
8. Both surface or pendant mount units can be wired end to end in series.

Superior LED Benefits

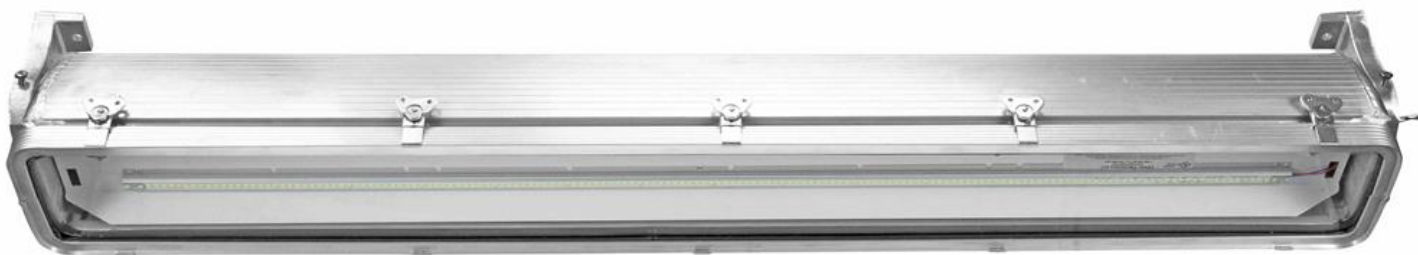
1. 50,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No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

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Frequently Asked Questions (FAQ)









HAL-48-2L-ITG-LED-V2

Product ID: 152601

Warranty: 60 Months

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HAL-48-2L-ITG-LED-V2-Voltage-Color Temp-Mount

Example: HAL-48-2L-ITG-LED-V2-1227-5600K-CLR-SFC

Voltage	
120V-277V	-1227
11-25V AC/DC	-1224

Color Temp	
5600K CLEAR	-5600K-CLR
5600K HI FROST	-5600K-HIFRST
4500K CLEAR	-4500K-CLR
4500K HI FROST	-4500K-HIFRST
3000K CLEAR	-3000K-CLR
3000K HI FROST	-3000K-HIFRST

Mount	
SURFACE	-SFC
PENDANT	-PND

Links (Click on the below items to view):

- [Operations Manual](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
- [HigResPic8](#)
- [HigResPic9](#)
- [HigResPic10](#)
- [Video1](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)