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HALS-48-2L-LED-D-V2

0-10V Dimmable Hazardous Location LED Lighting - 4' 2 Lamp Fixture - LED Bulb - C1D2 & C2D2

Product ID: 147534

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-D-V2 Hazardous Location Dimmable LED Light

Dimensions: 12.19"W x 51.5"L x 5.31"H
Weight: 31.5 Lbs
Voltage: Universal 120-277V AC 50/60 Hz
Total Watts: 56 watts
Total Lumens: 7,000
LED Lamp Life Expectancy: 50,000+ Hours
Luminous Efficacy: 125 Lm/W
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

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
0-10V Dimming Capability
Made in the USA
Listed for United States & Canada

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics HALS-48-2L-LED-D-V2 Hazardous Area LED Dimmable Light Fixture is NRTL Listed for United States and Canada Class

I Division 2 Groups A, B, C and D - NRTL Certified to 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-D-V2 fixture is a 4 foot long, 2 lamp, Class I Division 2 Groups A, B, C and D hazardous area dimmable LED light and a good choice for use in industrial applications and wet areas. This 0-10V dimming 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 LED light fixture features 0-10V dimming capabilities. This gives operators the ability to manually adjust the brightness of the LED lamp quickly and easily. The 0-10V dimming allows for adjustments to fit the brightness needs of any lighting situation. A 0-10V dimmable light works through the use of a DC control signal that ranges between zero and ten volts. The basic idea is that at 10 volts of input the light is at its brightest level with 0 volts being the lowest possible dimness setting. The smooth, continuous and flicker-free dimming of a 0-10V dimmable LED light is ideal for a wide range of different lighting applications.

This dimmable fixture is universal voltage and can be operated with voltages of 120-277V AC. This fixture is IP65 rated water and dust-proof and is approved for wet and marine locations. This 0-10V dimming 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-style 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.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

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-D-V2 is universal voltage, not multi-tap, and operates on any voltage from 120V to 277V AC 50/60hz without any modifications.

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

The HALS-48-2L-LED-D-V2 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.
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.

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.
8. 0-10V dimming capability offers energy savings and

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.

brightness control.

13. Significantly cooler operation.
14. Less frequent outages, higher output improves workplace safety.

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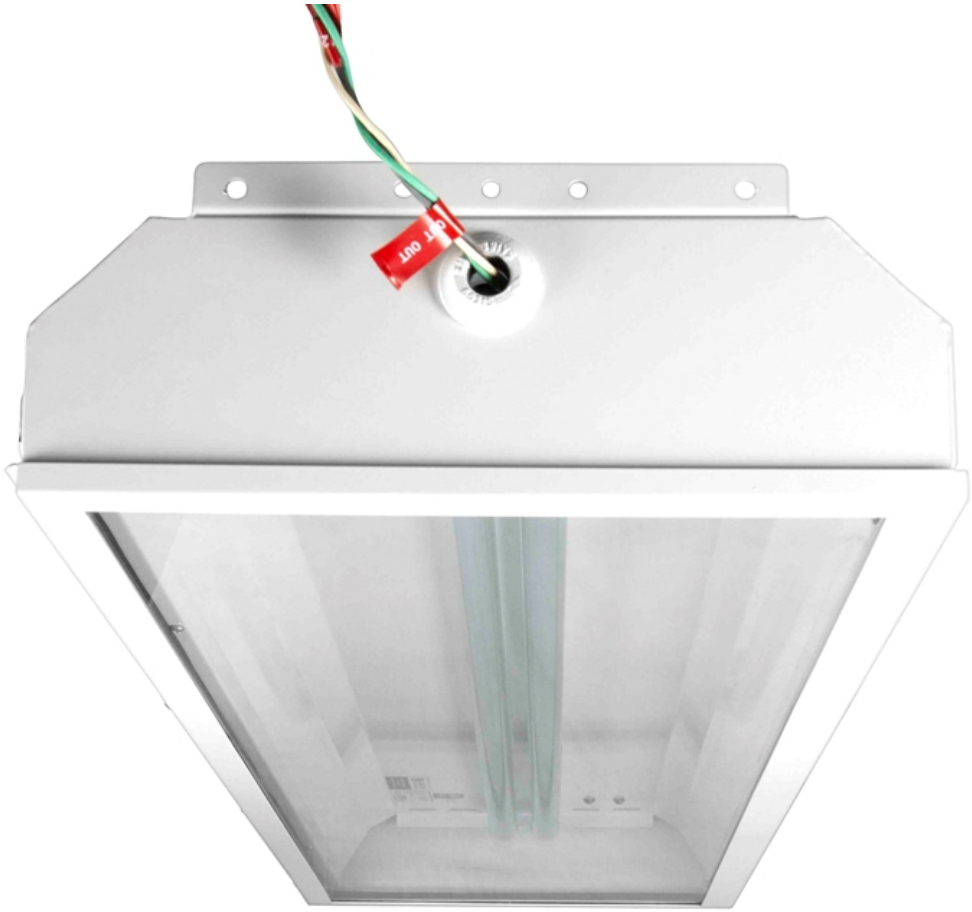
Frequently Asked Questions (FAQ)

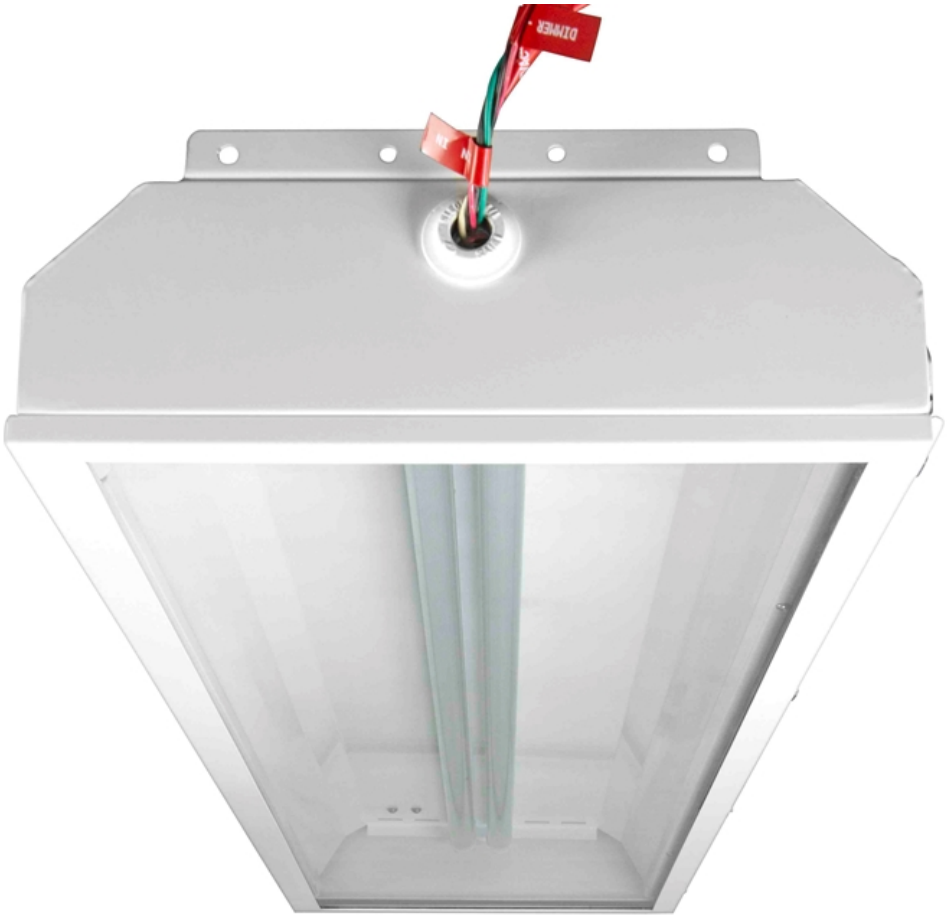




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DIMMER

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HALS-48-2L-LED-D-V2

Product ID: 147534

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HALS-48-2L-LED-D-V2-Mount-Color Temp

Example: HALS-48-2L-LED-D-V2-SFC-56K

Mount	
SURFACE	-SFC
PENDANT	-PND

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

Links (Click on the below items to view):

- **Operations Manual**
- **Wiring Diagram**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**