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HAL-48-2L-ITG-LED-BMSW-2XSL

160W C1D2 4' 2-Lamp LED Light - Lamps Operate On Individual Circuits - Offshore LED Rig Light

Product ID: 147160

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-BMSW-2XSL Hazardous Area LED Light Fixture
NRTL Listed for United States & Canada
Dimensions: 51.1"L x 7.09"W x 8.65"H
Weight: 22.2 lbs
Total Watts: 160 watts
Voltage: Universal 90-305VAC or 127-431VDC - 12-24V AC/DC and 347-480VAC Optional
Fixture Lumens: 19,200
LED Lamp Life Expectancy: 60,000 Hours
Luminous Efficacy: 120 Lumens per Watt
Operating Temp Range: T4A Rated -40°C to +65°C
Beam Angle: 160°
Color Temp: 6000K
Mounting: Back Mount Swivel Bracket
Wiring Hub:1/2" or 3/4" Threaded
Materials: Aluminum Housing
Lens Material: Acrylic Lens

Ratings/Approvals
Class I Division 2, Groups A, B, C & D
NRTL Certified to UL 844
NRTL Certified to UL 1598A Marine Type
Listed for Canada

T4 Temperature Rating

Meets USCG Specs
California Title 24 Compliant

Special Orders - Special Requirements
Contact us for special requirements
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Made in the USA

The Larson Electronics HAL-48-2L-ITG-LED-BMSW-2XSL Explosion Proof Integrated LED Light Fixture is NRTL Listed for United States and Canada Class I Division 2 Groups A, B, C and D - NRTL Certified to UL 1598A listed, has a T4A temperature rating and ideal for hazardous locations where flammable chemical/petrochemical vapors may be occasionally encountered. This

hazardous location LED light 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. Operating on independent circuits, each lamp in this unit can be connected to a separate switch and controlled individually of each other.
This four foot, two lamp 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 HAL-48-2L-ITG-LED-BMSW-2XSL fixture is equipped with a specially designed integrated LED array which produces 19,200 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.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge







The HAL-48-2L-ITG-LED-BMSW-2XSL is a 4 foot long, 2 lamp, Class I 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 integrated LED array. This fixture is T4A temperature rated and comes standard with our high power integrated LED array. The LED array is protected by a powder coated aluminum frame and shatter and heat resistant clear acrylic lens secured with ten zinc coated steel draw latches.
The HAL-48-2L-ITG-LED-BMSW-2XSL features two lamps that each operate on their own independent circuits. This means that each lamp in the light fixture can be operated individually of the other lamp. This feature allows operators to connect one fixture on two switches and control each individual lamp separately from the other. Having this ability, increases the versatility and usefulness of this LED two-lamp explosion proof light fixture.
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 fixture is constructed of copper free sheet aluminum and powder coated. The lamp reflector is corrosion resistant heavy gauge aluminum and coated with a high gloss reflective finish. The HAL-48-2L-ITG-LED-BMSW-2XSL 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.
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.

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 integrated heat sink allows for efficient heat dissipation, preventing the LEDs from overheating and keeping the overall temperature of the fixture relatively low. Solid state LED technology eliminates the need for a ballast box and lamps, a cumbersome feature of fluorescent fixtures that add weight and require frequent repairs.

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 19,200 lumens at 120 lumens per watt. 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 160 watts, draws only 1.3 amps at 120 volts AC. 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 HAL-48-2L-ITG-LED-BMSW-2XSL 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 and 0-10V dimmable by simply installing the custom driver or DC-DC transformer.

Energy Consumption Comparison

	T5HO	T8	Integrated LED
Wattage	216 watts	128 watts	160 watts
Amp Draw @ 120V AC	1.8 amps	1.07 amps	1.33 amps
Amp Draw @ 220V AC	0.98 amps	0.58 amps	0.73 amps
Amp Draw @ 240V AC	0.9 amps	0.53 amps	0.23 amps
Amp Draw @ 277V AC	0.78 amps	0.46 amps	0.67 amps
Amp Draw @ 12V DC	18 amps	10.67 amps	13.33 amps
Amp Draw @ 24V DC	9 amps	5.33 amps	6.67 amps
Fixture Lumens	20,000	11,800	19,200
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

Please note: The above energy tables are comparing 4ft 4-lamp fixtures to the HAL-48-2L-ITG-LED-BMSW-2XSL 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 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.

Standard Surface Mount Brackets: Each L bracket is cinched to the bracket

mounting peg on each side of the light. The angle of the bracket is set by tightening two bolts on either side of the bracket. The bolts act as a set screw. The bracket itself is mounted via a single bolt hole at the top the bracket. There are two brackets. Once the brackets are mounted to a surface (ceiling, floor or wall), the light fixture can be pivoted by loosening the that hold the bracket to the mounting peg. This fixture allows 45° of pivot from the 90° point.

Suggested Applications: Aircraft maintenance, oil drilling rigs, refineries, marine and salt water environments, ships, tankers, offshore, solvent and cleaning areas, 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 constructed streamlined ribbed corrosion-resistant, copper free sheet aluminum body for better hear dissipation and extended ballast life.
4. Aluminum lens frame for greater strength
5. Re-lamping done via 10 draw latches, which enable the operator to unlatch the lens and access the lamps.
5. Heavy gauge aluminum reflectors with high gloss reflective finish. Resists dents and corrosion.
6. 1/2" or 3/4",threaded access hole for wiring conduit.
7. Units can be wired end to end in series.

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 LED 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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HAL-48-2L-ITG-LED-BMSW-2XSL
Product ID: 147160

Warranty: 60 Months

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

Options:
HAL-48-2L-ITG-LED-BMSW-2XSL-Hub Config
Example: HAL-48-2L-ITG-LED-BMSW-2XSL-0.5IN

Hub Config	
1/2IN	-0.5IN
3/4IN	-0.75IN

Links (Click on the below items to view):

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- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map