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HAL-48-3L-LED-BMSW

Class I Division 2 LED Pivoting Light - 4 foot 3 lamp - LED Oil Rig Fluorescent Replacement

Product ID: 70345

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-48-3L-LED-BMSW Hazardous Area LED Rig Light

Dimensions: 51.1"-L x 7.09"-W x 8.65"-H
Weight: 23.4 Lbs
Voltage: Universal 120-277VAC 50/60 Hz or 11-25V AC/DC
Total Watts: 84 watts (28 Watts per Lamp)
Total Lumens: 10,500 (3,500 per Lamp)
LED Lamp Life Expectancy: 50,000 Hours
Luminous Efficacy: 125 Lumens per Watt
Color Temp: 5600K or 4100K
Color Rendering Index: >80
Beam Angle: 150°
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: Sheet Aluminum
Lens Material: Shatter/Heat Resistant Acrylic Lens
Finish: Corrosion Resistant Industrial Powder Coating
Mounting: Back Mount Swivel Bracket
Wiring Hub: 1/2" or 3/4" NPT

Ratings/Approvals

Class I, Division 2, Groups A, B, C, D
NRTL Certified to UL 844
NRTL Certified to UL 1598A Marine Type
Certified to Canadian Standards
Meets USCG Specifications
LEL Listed LED Lamps
Made in the USA
NRTL Listed for United States and Canada

Special Orders - Special Requirements

Contact us for special requirements

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The Larson Electronics HAL-48-3L-LED-BMSW Hazardous Area 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.

The HAL-48-3L-LED-BMSW fixture is a 4 foot long, 3 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 LEDs. This fixture is T4A temperature rated and comes standard with three of our high power 28 watt LED lamps. The lamps are protected by a powder coated aluminum frame and shatter and heat resistant clear acrylic lens secured with ten zinc coated steel draw latches.

The fixture is constructed of copper free aluminum alloy and powder coated. The lamp reflector is corrosion resistant heavy gauge aluminum and coated with a high gloss reflective finish. This fixture can be configured to run on 120 to 277VAC as well as 12-24V AC/DC and is NRTL Certified to UL 844 and UL 1598A Marine Type approved for use in marine environments. The HAL-48-3L-LED-BMSW 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 see the new HAL-48-2L-ITG-LED-BMSW Class I Division 2 integrated LED fixture producing 19,200 lumens.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge







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.

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 is applied and emit 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 so they 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 10,500 total lumen light output. An HAL-48-3L-BMSW hazardous location fluorescent light, with a combined total of 96 watts, draws 0.8 amps at 120 volts AC. This LED version of the same light, with a total of 84 watts, draws only 0.7 amps at 120 volts AC. This results in a lower amp draw while still providing increased reliability and light output.
The HAL-48-3L-LED-BMSW is universal voltage, not multi-tap, and operates on any voltage from 120V to 277V AC 50/60hz without any modifications. This includes commonly found voltages such as 120V 60Hz, 220V 50Hz, 240V 60Hz, and 277V 60Hz. 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	162 watts	96 watts	84 watts
Amp Draw @ 120V AC	1.35 amps	0.80 amps	0.70 amps
Amp Draw @ 220V AC	0.74 amps	0.44 amps	0.38 amps
Amp Draw @ 240V AC	0.68 amps	0.40 amps	0.35 amps
Amp Draw @ 277V AC	0.59 amps	0.35 amps	0.30 amps
Amp Draw @ 12V DC	13.50 amps	8.00 amps	7.00 amps
Amp Draw @ 24V DC	6.75 amps	4.00 amps	3.50 amps
Lamp Life Expectancy	20,000 hours	24,000 hours	50,000 hours
Color Temperature	5000K / 4100K	4100K	4500K / 5600K
Operation cost per year (12hs/day @ 12c/kWh)	$85.15	$50.47	$44.15

Standard Swivel Mounting Brackets: The light fixture mounts via two L shaped swiveling brackets. The angle of the bracket is set by tightening the nut and bolt on each bracket. The bolt and lock washer act as a set screw, securing the fixture in place once the position is set. The bracket itself is mounted via a single 3/8” bolt hole at the top the bracket. Once the brackets are mounted to a flat surface, the fixture can be pivoted by loosening the nut and bolt that hold the bracket to the fixture. This fixture allows 45° of pivot from the 90° point.
Suggested Applications: Aircraft maintenance, Oil drilling rigs, Refineries, Solvent and cleaning areas, Chemical manufacturing, Waste treatment plants, Gas processing plants, Offshore, Ships, Marine Applications.

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 extruded aluminum body for better hear dissipation and extended ballast life.
4. Aluminum extruded lens frame for greater strength
5. Relamping done via 10 draw latches, which enable the operator to unlatch the lens and access the lamps.
6. Heavy gauge extruded aluminum reflectors with high gloss reflective finish. Resists dents and corrosion.
7. 1/2" or 3/4" threaded access hole for wiring conduit.
8. 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 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-48-3L-LED-BMSW
Product ID: 70345

Warranty: 60 Months.

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

Options:
HAL-48-3L-LED-BMSW-Voltage-Color Temp-Hub Config
Example: HAL-48-3L-LED-BMSW-120277-5600K-0.5IN

Voltage	
120V-277V	-120277
12VDC	-12VDC
24VDC	-24VDC

Color Temp	
5600K	-5600K
4100K	-4100K

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

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **IES (Photometric File)**
- **Operations Manual**
- **SpecSheetSpanish**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**