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## HAL-48-2L-LED-BMSW-D-V2

# 0-10V Dimmable C1D2 LED Pivoting Light - 4 Foot 2 Lamp - Offshore LED Rig Light - Meets USCG Specs

**Product ID: 144302**

**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-LED-BMSW-D-V2 Hazardous Area**
**NRTL Listed for United States & Canada**
**Dimensions: 51.1"-L x 7.09"-W x 8.65"-H**
**Weight: 22.2 Lbs**
**Total Watts: 56 watts (28 Watts Per Lamp)**
**Total Lumens: 7,000 (3,500 Per Lamp)**
**Voltage: Universal 120-277V AC 50/60Hz**
**LED Lamp Life Expectancy: 50,000 Hours**
**Luminous Efficacy: 120 Lumens per Watt**
**Operating Temp Range: T4A rated -40°C to +65°C**
**Beam Angle: 150°**
**Color Temp: 5600K, 4500K, or 3000K**
**Color Rendering Index:** >80

**Beam Angle:** 150°
**Lighting Configuration:** Flood Pattern
**Power Efficiency:** 90%
**Power Factor:** >0.95
**Mounting: Back Mount Swivel Bracket**
**Wiring Hub: 1/2" or 3/4` threaded**
**Materials: Sheet aluminum housing, 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
0-10V Dimmable

**Special Orders - Special Requirements**
Contact us for special requirements
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**Made in the USA**
**The Larson Electronics HAL-48-2L-LED-BMSW-D-V2 Hazardous Area 0-10V**

**Dimmable 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.**

This four foot long, two lamp, 0-10V dimmable 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-LED-BMSW-D-V2 fixture 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 LEDs. This fixture is T4A temperature rated and comes standard with 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. We now offer our second generation dimmable 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 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 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-LED-G2 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 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. 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-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 56 watts, draws only 0.47 amps at 120 volts AC. The HAL-48-2L-LED-BMSW-D-V2 is universal voltage, not multi-tap, and operates on any voltage from 100V to 277V AC 50/60hz without any modifications. Standarad 0-10V dimming switches (mounted outside the hazardous location) are compatible with these hazardous location fixtures. Larson Electronics offers an explosoin proof dimmer switch for mounting within the hazardous location.

**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 |
| Lamp Life Expectancy | 20,000 hours | 24,000 hours | 50,000 hours |
| Color Temperature | 5000K / 4100K | 4100K | 5600K |
| 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.
**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.

**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.

**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

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.

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-LED-BMSW-D-V2**
**Product ID: 144302**

**Warranty:** 60 Months

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

**Options:**
**HAL-48-2L-LED-BMSW-D-V2-Color Temp-Hub Config**
**Example: HAL-48-2L-LED-BMSW-D-V2-56K-0.5IN**

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

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

Links (Click on the below items to view):

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