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HALD-48-1X150LED-V2-XDIMM

150W Dimmable Clean Room LED Light -2x4 Lay-In Troffer- C1D1 - C2D2 - ISO 14644/FS-209E Rated

Product ID: 148501

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.

HALD-48-1X150LED-V2-XDIMM Dimmable HAZLOC Lay-In Panel Mount Light

Listing: United States - Canada
Lamp Type: Cree LED
Dimensions: 48"L x 24"W x 5.38"D
Flange Dimensions: 48"L x 24"W
Weight: 55 lbs
Voltage: 100-277 Volts AC, 50/60Hz
Total Watts: 150W
Total Lumens: 17,500
Luminous Efficacy: 116.67 Lm/W
Lamp Life: 60,000+ Hours
Color Temp: 5000K, 4500K or 3000K
Color Rendering Index: >75 CRI
Beam Angle: 60° or 125°
Lighting Configuration: Flood Pattern
Power Efficiency: >95%
Mounting: Recessed Panel Mounting
Power Factor: 0.992
Ambient Operating Temp Range: -50°C to +65°C
Operating Temp Rating: T5
Housing Material: Steel
Housing Finish: Powder Coated - White
Lens Material: Polycarbonate
Mounting: Recessed Panel Mounting
Wiring Hub: 3/4" NPT

Ratings/Approvals

Listed for United States and Canada
Class I Divisions 1 & 2, Groups C and D
Class II Divisions 1 & 2, Groups E,F,G
Class III Divisions 1 & 2
Certified to UL 844 Ed. 13
Certified to UL 1598
Certified to C22.2 No. 137 Rev 2009
Certified to C22.2 No. 250.0
Certified to C22.2 No. 30-M-1986 Rev 2012
T5 Temperature Rating
Paint Spray Booth Approved
IEC 60529 Tested
IP67 Rated Waterproof
LEL Approved
Multiple Driver Banks
80% Lumen Retention after 60,000 Hours
Factory Sealed Light Fixture
0-10V Dimmable via External Driver
FS-209E Clean Room Rated
ISO 14644 Clean Room Rated

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The HALD-48-1X150LED-V2-XDIMM from Larson Electronics is a Dimmable LED Hazardous Area LED Light Fixture that is designed to provide operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. This LED panel mount fixture is ETL listed Class I Division 2, Class II Divisions 1 & 2, and is approved for use within clean rooms and other areas that require little or no contamination within the work environment. The HALD-48-1X150LED-V2-XDIMM is sealed and rated for FS 209E and ISO 14644 cleanroom applications. Cree LED technology and compact design makes this lamp an excellent replacement upgrade option for clean rooms where flammable chemical/petrochemical vapors are present and little to no contamination is required.

******PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO THIS HAZARDOUS LOCATION LIGHT FIXTURE******

The HALD-48-1X150LED-V2-XDIMM Explosion Proof Clean Room rated LED fixture is a 2x4 Class I Division 2 hazardous location lay-in LED light fixture and is ideal for use in clean rooms and other areas that require little to no contamination and where space for lighting fixtures is limited. This fixture is T5 temperature rated and is a fully integrated LED unit. The LED assembly is protected by an aluminum framed, hinged, 3/16" thick polycarbonate door that provides direct front access to the internal components. The lamp housing is designed for recessed mounting, and is constructed of non-sparking aluminum coated with a powder coated white finish.

This LED light fixture features 0-10V dimming capabilities via a remote mount external driver. 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.

****PLEASE NOTE THAT THE EXTERNAL DIMMING DRIVER INCLUDED WITH THIS FIXTURE MUST BE MOUNTED OUTSIDE THE HAZARDOUS AREA****

Larson Electronics does offer class rated dimmable power supplies for units that must be mounted within a hazardous location. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information on these completely explosion proof units.

This Class I Division 2, Class II Division 1 & 2 explosion proof light fixture provides 17,500 of high quality light while drawing only 150 watts. The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. Special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 60,000 hour rated lifespan with 80% lumen retention. Light weight and a low profile make this unit an attractive alternative to larger and heavier older fixtures and requires less hardware to install.

The integrated LED assembly in this unit features multiple LED drivers which helps to increase the operational life of the fixture. With traditional LED lights, in the event an LED array or driver fails, the entire fixture no longer illuminates. This new series of LED lamps contains twenty-four individual LED boards configured in a series of banks. Each bank contains two LED boards with an individual driver. In the event of a driver failure, only one bank of LEDs will be effected while the other banks will continue to operate. In the event that of an LED failure, the mating LED will continue to operate.

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.
This light is universal voltage capable and can be operated with 100-277V AC, 50/60Hz without any need for a special ballast. The aluminum body and LED lamp give this light excellent durability and resistance to vibration and impacts. The housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LED luminaries. The LED lamp produces 17,500 lumens with a color temperature of 5000K, 4500K or 3000K and a color rendering index of 75 which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries.

Click Photos to Enlarge



60° Beam Angle



125° Beam Angle



140° Beam Angle

Beam Angles: When used as a portable lighting solution, the varying beam angles are each individually ideal for several environments. The 60° beam provides the most intense beam of the three options. It is perfect for narrow, confined spaces and is ideally suited for tank cleaning purposes. It offers focused light to provide ample illumination to tight work spaces and other environments. The 125° beam offers a more diffused source of light that is also less intense in brightness. It is a great general area work light and performs well when used for outdoor illumination. The 140° beam offers a very wide lighting pattern and is ideal for situations where lighting distance is not a concern, but illumination of a wider area and even light distribution is. The 140° beam is great for situations that call for working in close proximity to lights such as in a paint booth.
Mounting: This fixture is designed for recessed mounting and requires a mounting hole to be made in booth panels capable of accommodating the fixture housing in order to provide the maximum amount of space in clean room areas. Once mounted, this fixture`s door frame will extend 3/8" into the clean room.
Applications: ISO 14644 and FS-209E clean room applications that require little to no contamination including but not limited to medical applications, pharmaceutical, laboratories and any other applications that require ample lighting with little to no contamination within the work area atmosphere.
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.

High Quality Features **Superior LED Benefits**

1. Low power consumption.
2. Fixture arrives assembled and lamped to reduce installation time and cost.
3. Instant on/off operation.
4. Fixture constructed of welded corrosion resistant copper free aluminum alloy.
5. 3/4" Wiring hubs
6. Superior color rendering compared to HPS, LPS, MH.
7. Retains 80% lumen output after 60,000 operating hours.
8. Powder coated aluminum fixture body.
9. Low profile - Lightweight
10. 17,500 Lumen output from only 150 watts
11. 60° or 125° Beam Spread
12. Remote mount external driver provides 0-10V dimming capability.

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)

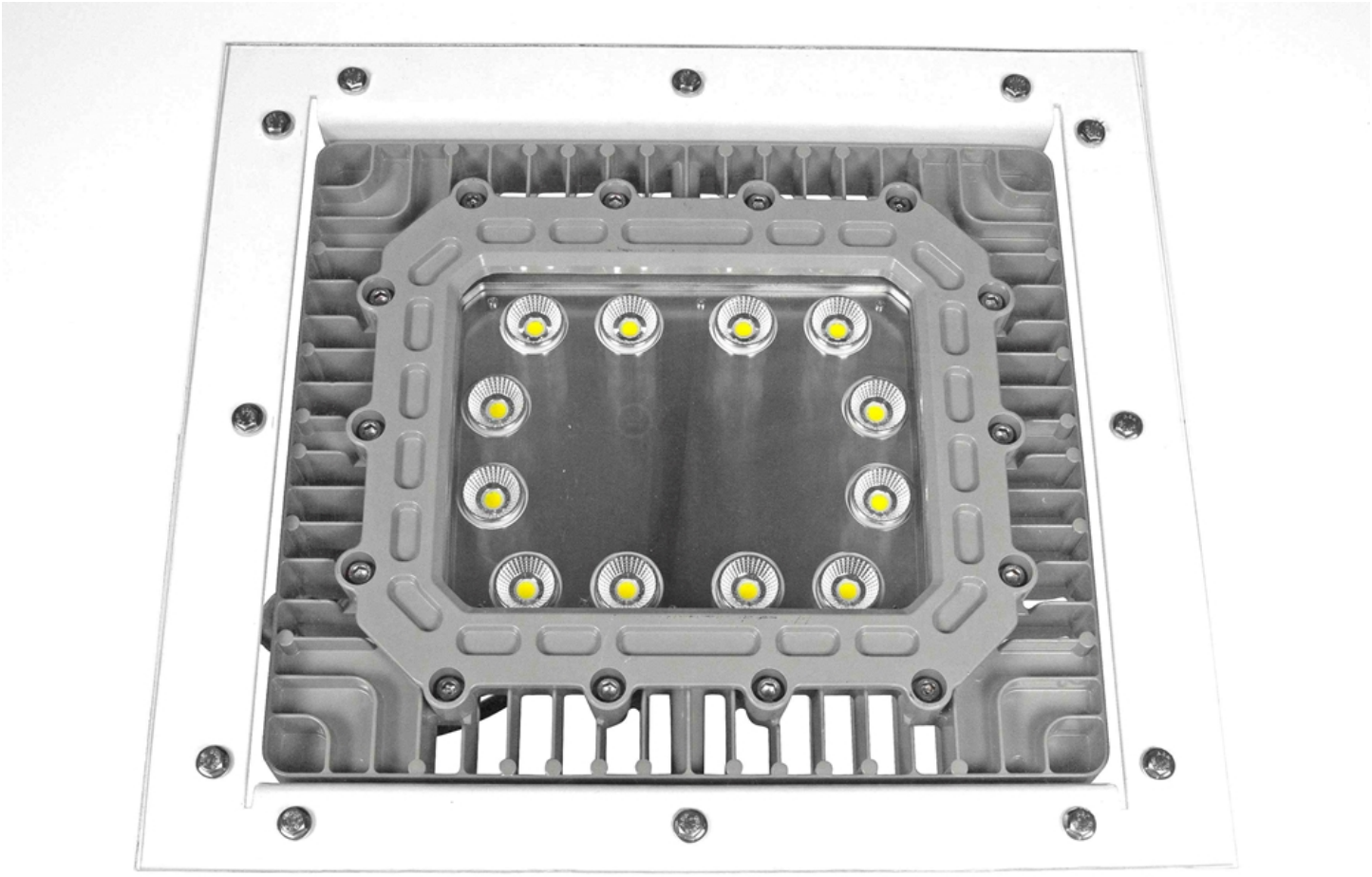






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HALD-48-1X150LED-V2-XDIMM

Product ID: 148501

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HALD-48-1X150LED-V2-XDIMM-Voltage-Beam Angle-Color Temp

Example: HALD-48-1X150LED-V2-XDIMM-1227-60B-50K

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

Beam Angle	
60°	-60B
125°	-125B

Color Temp	
5000K	-50K
4500K	-45K
3000K	-30K

Links (Click on the below items to view):

- **IES (Photometric File)**
- **MSDS (Material Safety Data Sheet**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**