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HALD-48-1X4-2X50LED-V2

100W Explosion Proof LED Light - 1x4 Lay-In Troffer - C1D1/C2D1 - ISO 14644/FS-209E Rated

Product ID: 223779

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-48-1X4-2X50LED-V2 HAZLOC Lay-In Panel Mount Light

Listing: United States, Canada
Lamp Technology: CREE LED
Dimensions: 47-3/4"-L x 11-3/4" -W x 8"-D
Weight: 80 lbs
Voltage: 100-277V AC or 11-25V AC/DC
Frequency: 50/60Hz
Total Watts: 100W
Total Lumens: 14,000 lms
Luminous Efficacy: 140 Lm/W
Lamp Life: 60,000+ Hours
Light Color: White
Color Temperature: 5600K, 4500K or 3000K
Color Rendering Index: >75 CRI
Lamp Type: -
Lamp Base: -
Replacement Lamp: -
Beam Angle: 60° or 125°
Lighting Configuration: Flood Pattern
Power Efficiency: >95%
Power Factor: 0.992
Amperage: 0.83A @ 120V, 0.41A @ 240V, 0.36A @ 277V
Ambient Operating Temp Range: -50°C to +65°C
Operating Temp Rating: T5
Housing Material: Copper Free Cast Aluminum
Housing Finish: Powder Coated - White
Lens Material: 1/8" Polycarbonate

Ratings/Approvals

Class I, Divisions 1 & 2, Groups C and D
Class II, Divisions 1 & 2, Groups E,F,G
Certified to UL 844 Ed. 13
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
Recessed Panel Mounting
No Rear Access
FS-209E Clean Room Rated
ISO 14644 Clean Room Rated
Certified to UL 1598

Gasket Material: -
Mount: Recessed Panel Mounting
Wiring: 10` 16/3 SOOW w/ Flying Leads
Color: White

LED Driver Specs

Input Voltage: 100-277V AC

Input Current: 1.8A Max

Power Factor: >98%

Efficiency: >88%

Output Voltage: 54V Max

Output Current: 2.1A

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

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The Larson Electronics HALD-48-1X4-2X50LED-V2 Explosion Proof LED Light is a powerful lighting solution for combustible sites and industrial facilities. This 100-watt front-access LED lamp is an excellent replacement or upgrade option for paint booths and hazardous locations where flammable chemical/petrochemical vapors are present. Constructed of copper-free aluminum, with a powder coated finish, the 1x4 lay-in fixture is compatible with recessed mounting applications. The HALD-48-1X4-2X50LED-V2 is sealed and rated for FS 209E and ISO 14644 cleanroom applications.

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

The HALD-48-1X4-2X50LED-V2 is a Class I, Division 1 & 2 and Class II, Division 1 & 2 rated LED fixture for use in paint spray booths and hazardous environments where space for lighting systems are limited. This 100-watt fixture operates on universal voltage 100-277V AC or 11-25V AC/DC (50/60Hz). During use, the 1x4 lay-in LED light provides 14,000 lumens of output, with a color temperature rating of 5600K, 4500K or 3000K. A color rendering index of 75 ensures accurate production of colors and details. This LED light provides a flood beam pattern, with 60° or 125° beam angles for effective coverage.

The internal components of the LED lamp are accessible via the front (no rear access). To open the fixture, the faceplate must be removed and the LED module is dropped down from the front of the unit. For rear access requirements or servicing, Larson Electronics offers the HALD-48-1X4-2X50LED-V2-V2.

Constructed of copper-free aluminum, the front-access LED assembly is protected by a sturdy frame and a 3/16" thick polycarbonate door. The IP67-rated lamp features a powder coated white finish for durability. Equipped with a T5 temperature rating, the LED light is suitable for use in environments ranging between -50°C to +65°C. A 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.

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 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 eight 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.

Wiring: The HALD-48-1X4-2X50LED-V2 comes with 10` of 16/3 SOOW cord with flying leads for connection to a preferred power source.

Mounting: This fixture is designed for recessed mounting applications and requires a mounting hole to be made in booth panels capable of accommodating the fixture`s housing in order to provide the maximum amount of space in paint spray booth enclosures. Once mounted, this fixture`s door frame will extend 3/8” into the spray booth.

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.

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Frequently Asked Questions (FAQ)



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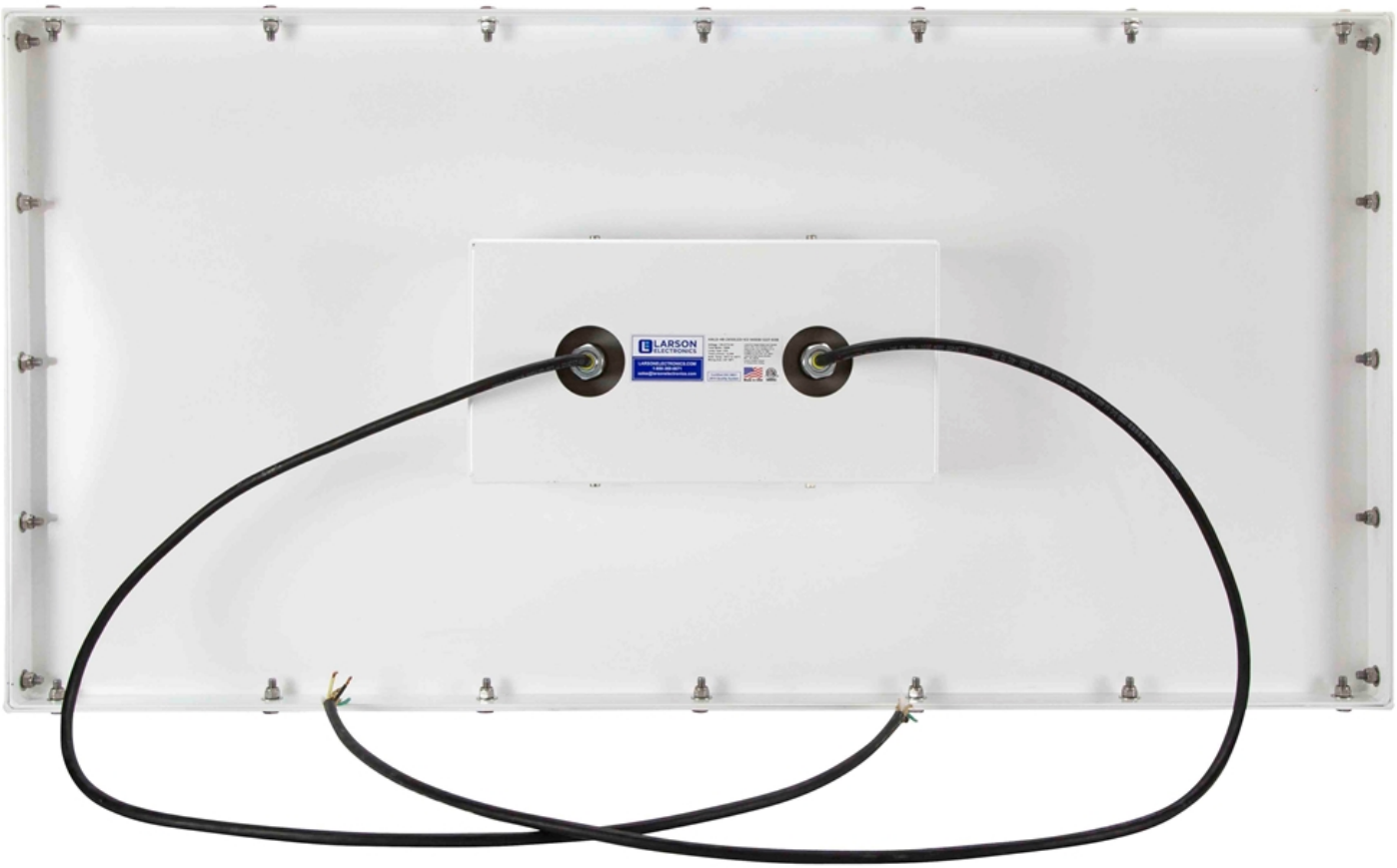
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HALD-48-1X4-2X50LED-V2

Product ID: 223779

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HALD-48-1X4-2X50LED-V2-Voltage-Beam Angle-Color Temp

Example: HALD-48-1X4-2X50LED-V2-1227-60B-56K

Voltage	
100-277V AC	-1227
11-25V AC/DC	-1224

Beam Angle	
60°	-60B
125°	-125B
140°	-140B

Color Temp	
5600K	-56K
5000K	-50K
4500K	-45K
4000K	-40K
3000K	-30K

Links (Click on the below items to view):

- MSDS (Material Safety Data Sheet
- Operations Manual
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- Video2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map