

HALD-48-1X100LED

100W Low Profile Explosion Proof LED Light - 2x4 Lay-In Troffer Class 1/2 Div 1/2 Paint Spray Booth

Product ID: 152667

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-48-1X100LED HAZLOC Lay-In Panel Mount Light

Listing: United States - Canada

Lamp Type: Cree LED

Dimensions: 48"-L x 24"-W x D-5.38"

Flange Dimensions: 48"-L x 24"-W

Weight: 43 lbs

Voltage: 100-277 Volts AC, 50/60Hz or 11-25 Volts AC/DC

Total Watts: 100W

Total Lumens: 11,666

Luminous Efficacy: 116.67 Lm/W

Lamp Life: 60,000+ Hours

Color Temp: 5600K, 4500K, 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

Wiring Hub: 3/4" NPT

LED Driver Specs

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

Input Voltage: 100-277 Volts 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

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Made in the USA

The Larson Electronics HALD-48-1X100LED Hazardous Area LED Light Fixture 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 paint spray booths. Cree LED technology and compact design makes this lamp an excellent replacement upgrade option for paint booths and hazardous locations where flammable chemical/petrochemical vapors are present.

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

The HALD-48-1X100LED Explosion Proof fixture is a 2x4 Class I Division 2 hazardous location lay-in LED light fixture and is ideal for use in paint spray booths and hazardous environments 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 Class I Division 2, Class II Divisions 1 & 2 explosion proof light fixture provides 11,666 lumens of high quality light while drawing only 100 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.

This light is multi-voltage capable and can be operated with 100-277 VAC, 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 11,666 lumens with a color temperature of 5600K, 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.

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 paint spray booth enclosures. Once mounted, this fixture's door frame will extend 3/8" into the spray booth.

Applications: Paint spray booths and enclosed spaces where flammable chemical/petrochemical vapors are present.

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

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 - Light weight
10. 11,666 Lumen output from only 100 watts

Superior LED Benefits

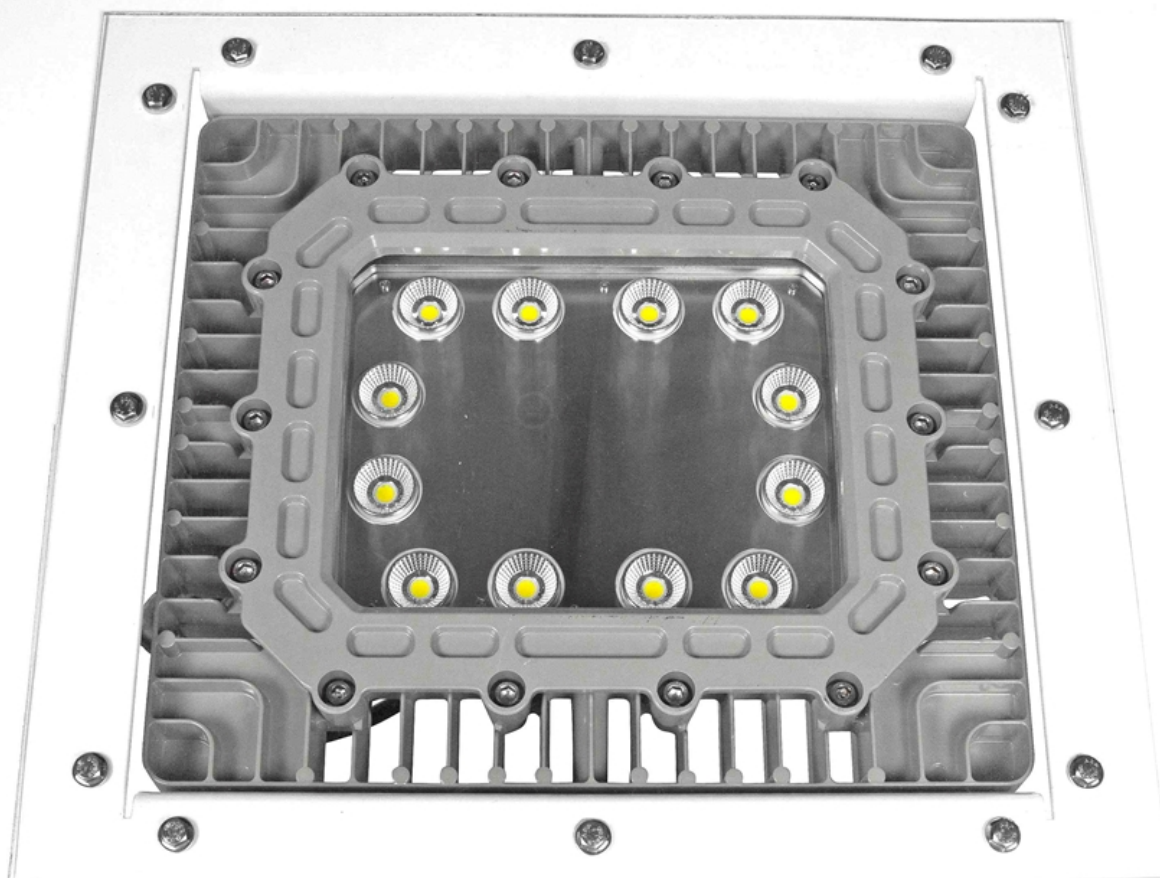
1. 60,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No 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.



Frequently Asked Questions (FAQ)









HALD-48-1X100LED

Product ID: 152667

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HALD-48-1X100LED-Voltage-Beam Config-Color Temp

Example: HALD-48-1X100LED-1227-60B-56K

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

Beam Config	
60°	-60B
125°	-125B

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

Links (Click on the below items to view):

- [Canadian CEC Certificate \(Commonly referred to as CSA Certificate\)](#)
- [CE Certificate](#)
- [Certificate 1, Misc](#)
- [Certificate 2, Misc](#)
- [Certificate 3, Misc](#)
- [IES \(Photometric File\)](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [Operations Manual](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [Wiring Diagram \(Online\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [Video1](#)
- [Video2](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)