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HALD-48-2X100LED

200W Low Profile Explosion Proof LED Light - 2x4 Lay-In Troffer Class 1/2 Div 1/2 Paint Spray Booth

Product ID: 153759

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-48-2X100LED 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: 75 lbs
Voltage: 100-277 Volts AC, 50/60Hz or 11-25 Volts AC/DC
Total Watts: 200W
Total Lumens: 23,333
Luminous Efficacy: 116.67 Lm/W
Lamp Life: 60,000+ Hours
Color Temp: 5000K, 4000K, 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

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LED Driver Specs

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

Toll Free: 1-800-369-6671

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Made in the USA

The Larson Electronics HALD-48-2X100LED 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 1 Division 2, Class 2 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-48-2X100LED Explosion Proof fixture is a 2x4 Class 1 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.

Click Photo to Enlarge Click Photo to Enlarge Click Photo to Enlarge

This Class 1 Division 2, Class 2 Division 1 & 2 explosion proof light fixture provides 23,333 of high quality light while drawing only 200 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 23,333 lumens with a color temperature of 5000K, 4000K, 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.

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. 23,333 Lumen output from only 200 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.

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Frequently Asked Questions (FAQ)









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HALD-48-2X100LED

Product ID: 153759

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HALD-48-2X100LED-Voltage-Beam Angle-Color Temp

Example: HALD-48-2X100LED-1227-60B-56K

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

Beam Angle	
60°	-60B
125°	-125B

Color Temp	
5600K	-56K
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
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- Video2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map