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HALD-EMG-48-2X50LED-V2-140DB

100W Low Profile Clean Room Emergency LED - 2x4 Lay-In Troffer - C1D1/C2D2 - ISO 14644/FS-209E Rated - 140°

Product ID: 267138



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-EMG-48-2X50LED-V2-140DB HAZLOC Emergency Lay-In Panel Mount Light

Listing: NRTL Listed for United States, Canada
Lamp Technology: Cree LED
Dimensions: 48"-L x 24"-W x D-4.5"
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: 100W
Total Lumens: 14,000
Luminous Efficacy: 140 Lm/W
Lamp Life: 60,000+ Hours
Color Temp: 5600K, 4500K, 3000K
Color Rendering Index: >75 CRI
Beam Angle: 140°
Lighting Configuration: Flood Pattern
Power Efficiency: >95%
Power Factor: 0.992
Emergency Runtime: 90 Minutes
Emergency Power Draw: 15 Watts
Emergency Lumen Output: 2,100
Ambient Operating Temp Range: -50°C to +65°C
Operating Temp Rating: T5
Housing Material: Steel
Housing Finish: Powder Coated - White
Lens Material: 1/8" Polycarbonate
Mounting: Recessed Panel Mounting
Wiring Hub: 3/4" NPT

Ratings/Approvals

Class I, Divisions 1 & 2, Groups C and D
Class II, Divisions 1 & 2, Groups E,F,G
Class III, Divisions 1 & 2
FS-209E Clean Room Rated
ISO 14644 Clean Room Rated
NRTL Certified to UL 844 Ed. 13
NRTL Certified to UL 1598
NRTL Certified to C22.2 No. 137 Rev 2009
NRTL Certified to C22.2 No. 250.0
NRTL Certified to C22.2 No. 30-M-1986 Rev 2012
T5 Temperature Rating
IEC 60529 Tested
IP67 Rated Waterproof
LEL Approved
Multiple Driver Banks
80% Lumen Retention after 60,000 Hours
Factory Sealed Light Fixture
Made in the USA

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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E-mail: sales@larsonelectronics.com

Made in the USA

The Larson Electronics HALD-EMG-48-2X50LED-V2-140DB Hazardous Area Emergency 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 sealed and rated for FS 209E and ISO 14644 cleanroom applications. The light features an emergency battery backup. In emergency mode, the LED lamp will operate at 15 watts of power and continue to operate at a lower light intensity level for 90 minutes via a battery.

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

The HALD-EMG-48-2X50LED-V2-140DB Explosion Proof Clean Room rated LED fixture is a 2x4 Class I Division 2 hazardous location lay-in LED emergency 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 Class I Division 2, Class II Division 1 & 2 explosion proof light fixture provides 14,000 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.

Emergency Battery Backup: The emergency LED light works like our HAL-LI-48-2X50LED LED light fixtures. The main difference is that we add a battery backup unit that adds emergency light functionality to the fixture. This emergency LED light will run at the standard UL suggested 90 minutes after power is lost while drawing 15 watts of power and operating at a lower light intensity. The light recharges the battery once electrical power is restored. Standard configuration includes a single emergency battery backup that is automatically recharged and kept in a ready state.

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.

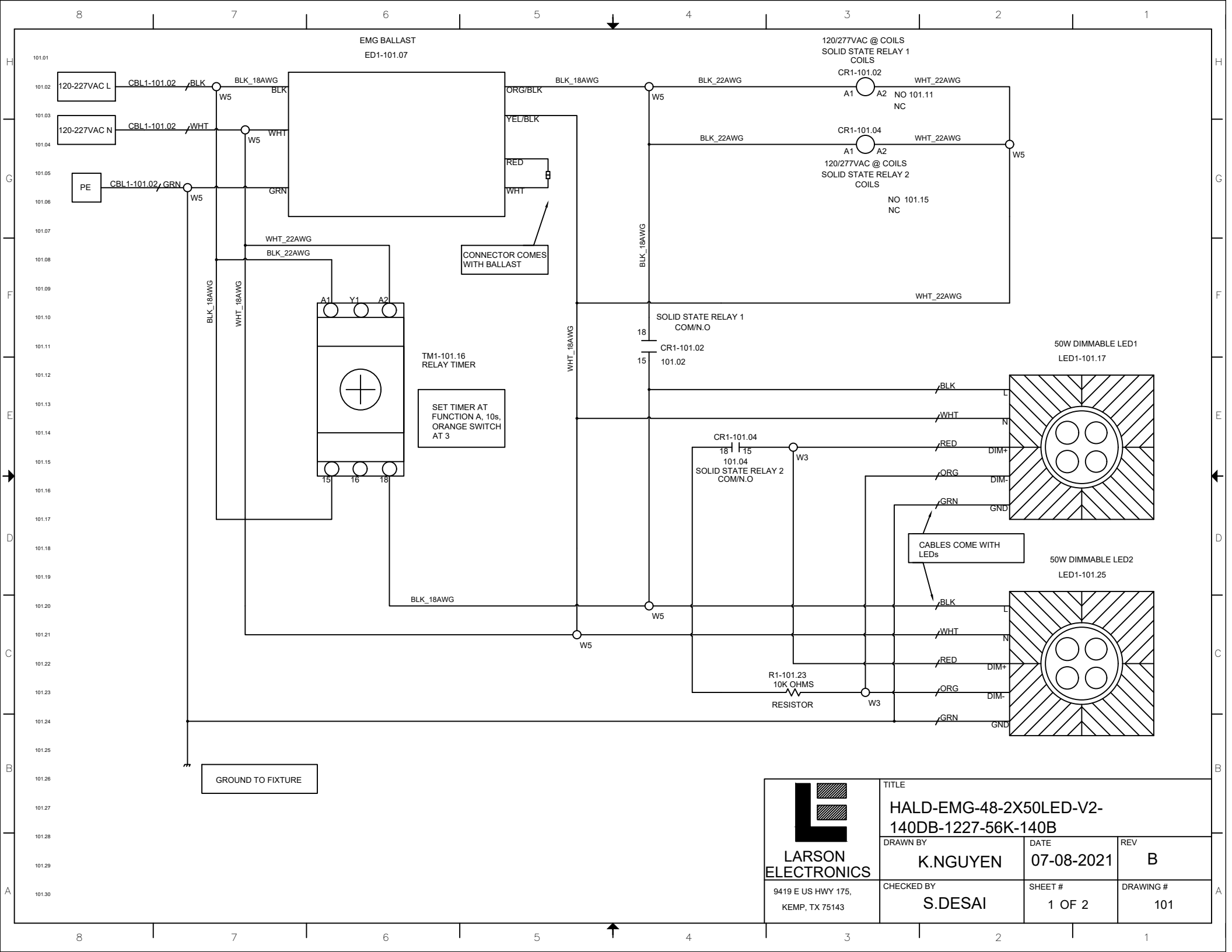
LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive 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 100-277 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 14,000 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 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.

REV	DESCRIPTION	DATE
B	CHANGED: GENERAL PURPOSE RELAYS TO SOLID STATE RELAYS	07/08/2021

HALD-EMG-48-2X50LED-V2-140DB-1227-56K-140B

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LARSON ELECTRONICS 9419 E US HWY 175, KEMP, TX 75143	TITLE: HALD-EMG-48-2X50LED-V2-140DB-1227-56K-140B		
	DRAWN BY: K.NGUYEN	DATE: 07-08-2021	REV: B
	CHECKED BY: S.DESAI	SHEET #: 1 OF 2	DRAWING #: 101

TAGS	QTY	CATALOG	DESCRIPTION
CR1-101.02 CR1-101.04	2	UNV00015812	SOLID STATE RELAY 90-280VAC @ COILS, SPST, N.O
TM1-101.16	1	UNV00012442	TIME DELAY RELAY 12-240VDCAC 16A
LED1-101.17 LED1-101.25	2	FL-0268-AH	50W C1D1 LED DIMMABLE 120-277VAC
ED1-101.07	1	UNV00006871	BODINE 90MIN E BACK UP
R1-101.23	1	N/A	10K OHMS RESISTOR 1/4W
W5	7	UNV00009803	5 HOLES WAGO
W3	2	UNV00011954	3 HOLE WAGO
CBL1-101.02	1	UNV00007524	CORD 16/3 SOOW UL 90C BLK CABLE

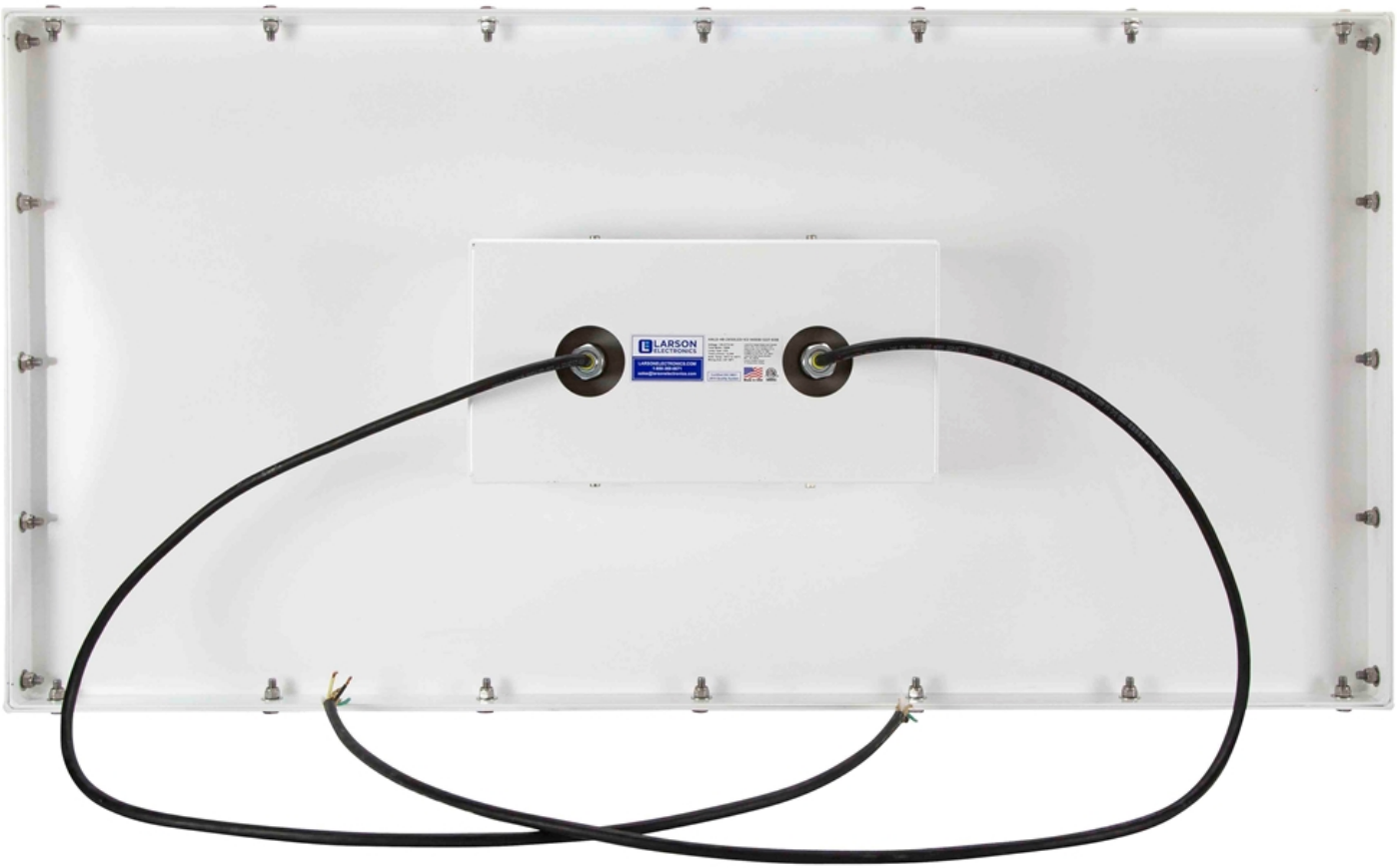
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K.NGUYEN	07-08-2021	B	
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S.DESAI	2 OF 2	102	








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Frequently Asked Questions (FAQ)