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HAL-LC-48-LED-R1-120V-SUS-M1

90W Hazardous Location Integrated LED Luminaire w/ Emergency Battery Backup - C1D2 - 120V - 9,884 lm - Suspended Mount - IP65

Product ID: 338475

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.

HAL-LC-48-LED-R1-120V-SUS-M1 Hazardous Location LED Luminaire w/ Emergency Battery Backup

Listing: NRTL Listed to United States, Canada
Lamp Technology: LED
Dimensions: 48" L x 12" W x 4" H (Approx.)
Weight: 25 lbs (Approx.)
Voltage: 120V AC, 50/60Hz
Total Watts: 90W
Total Lumens: 9,884 lm
Luminous Efficacy: 110 lm/W
Lamp Life: 60,000+ Hours
LED Color Temperature: 3500K
Color Rendering Index: 82 CRI
Lamp Type: Integrated LED
Emergency Backup: Integral Battery Pack
Emergency Runtime: 90 Minutes Minimum
Emergency Output: Reduced Lumen Output During Emergency Operation
Battery Type: Maintenance-Free Rechargeable Battery
Charging System: Automatic Recharge Circuit
Lamp Base: -
Replacement Lamp: -
Lighting Configuration: General Area Illumination
Power Efficiency: >90%
Power Factor: >0.90
Amps: 0.75A @ 120V
Ambient Operating Temp Range: -20°C to +40°C
Operating Temp Rating: T5
Housing Material: Cold Rolled Steel
Housing Finish: White Polyester Powder Coat
Lens Material: White Polyester Powder Coat
Gasket Material: ne-Piece Extruded Silicone
Mounting: Suspended Mount
Suspension Height: 3600mm AFF (Above Finished Floor)
Additional Hardware Required: Aircraft cable suspension kit, ceiling mounting brackets, anchors, and associated installation hardware
Wiring: Factory Installed Driver

Ratings/Approvals

Class I, Division 2, Groups A, B, C & D
IP65 Rated
Wet Location Rated
Suitable for Hazardous Locations
Intertek Listed
UL 844 Compliant
UL 1598 Compliant
CSA Certified
ISO 5 (Class 100) Cleanroom Rated
Emergency Lighting Capability
NFPA 101 Compliant
UL 924 Emergency Lighting Equipment

Special Orders - Special Requirements

Contact us for special requirements
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The Larson Electronics HAL-LC-48-LED-R1-120V-SUS-M1 Hazardous Location Integrated LED Luminaire with Emergency Battery Backup provides reliable, energy-efficient illumination for hazardous and industrial environments. This 90-watt LED fixture delivers 9,884 lumens of high-quality light and features a suspended mounting configuration. The IP65-rated luminaire operates on 120V AC, 50/60Hz and is designed for Class I, Division 2 hazardous locations. An integral battery backup system provides emergency illumination during power outages, ensuring continued visibility for personnel and safe egress.

The HAL-LC-48-LED-R1-120V-SUS-M1 is engineered for facilities where flammable gases, vapors, and combustible materials may be present. This integrated LED fixture produces 9,884 lumens with a 3500K color temperature and 82 CRI for accurate color rendering and comfortable illumination. The fixture is suitable for general area lighting in industrial plants, processing facilities, utility stations, manufacturing environments, and other hazardous locations requiring dependable lighting performance.

Constructed with a heavy-duty cold rolled steel housing and finished with a durable white polyester powder coat, this luminaire is designed for long service life in demanding environments. The fixture utilizes an impact-resistant acrylic lens and a one-piece extruded silicone gasket to maintain its IP65 environmental protection rating against dust and water ingress. The integrated LED system provides over 60,000 hours of maintenance-free operation while consuming significantly less energy than traditional fluorescent fixtures.

LED Benefits: Unlike conventional fluorescent and HID lighting systems, LEDs provide instant-on illumination with no warm-up or restrike delay. Solid-state LED technology contains no fragile filaments, glass tubes, mercury, or hazardous gases, resulting in greater durability, improved safety, and lower maintenance requirements. LEDs also operate at lower temperatures and consume less power while delivering consistent light output throughout their service life.

Voltage: This hazardous location LED luminaire operates on 120V AC, 50/60Hz power.

Emergency Operation: The integrated battery backup system automatically transfers the luminaire to emergency mode upon loss of normal AC power. The unit provides a minimum of 90 minutes of emergency illumination and automatically recharges when normal power is restored. The self-contained emergency system eliminates the need for separate emergency lighting fixtures while maintaining hazardous location suitability.

Mount: The fixture is configured for suspended mounting and is suitable for installation in hazardous and industrial environments where reliable overhead illumination is required.

Suggested Applications: Hazardous locations, chemical processing facilities, manufacturing plants, utility facilities, wastewater treatment plants, industrial processing areas, cleanroom environments, maintenance facilities, and general industrial lighting applications.

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)

There are no Faqs

HAL-LC-48-LED-R1-120V-SUS-M1

Product ID: 338475

Warranty: 60 Months.

Export Control Classification Number (ECCN): EAR99

Options:

HAL-LC-48-LED-R1-120V-SUS-M1-Color Temp
Example: HAL-LC-48-LED-R1-120V-SUS-M1-50K

Color Temp	
5000K	-50K
4500K	-45K
4000K	-40K
3500K	-35K
3000K	-30K

Links (Click on the below items to view):

- **Video1**(https://www.youtube.com/watch?v=S54QV0mqfeM)
- **Video2**(https://www.youtube.com/watch?v=ED2HekU4-38)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)