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## HAL-LC-48-LED-R1-1227-APM

# 100W Hazardous Location Integrated LED Linear Fixture - C1D2, C2D1 - 120-277V - 15,300 lms/Pipe Mount Brackets - IP66/Field Serviceable

**Product ID: 276910**

**Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).**



Image: HAL-LC-48-LED-R1-1227-APM

**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-R1-1227-APM - Hazardous Location LED Fixture**

**Listing:** NRTL Listed to United States, Canada
**Lamp Technology:** LED
**Dimensions:** 47.72'"-L
**Weight:** 30 lbs
**Voltage:** 120-277V AC, 50/60Hz
**Total Watts:** 100W
**Total Lumens:** 15,300 lms
**Luminous Efficacy:** 153 Lm/w
**Lamp Life:** 75,000+ Hours
**LED Color Temperature:** 5000K, 4500K, 4000K, 3500K or 3000K
**Color Rendering Index:** >80 CRI
**Lamp Type:** Integrated LED
**Lamp Base:** -
**Replacement Lamp:** -
**Beam Angle:** 80° x 120°
**Lighting Configuration:** Flood
**Power Efficiency:** >95%
**Power Factor:** 0.992
**Amps:** 0.833A @ 120V, 0.480A @ 208V, 0.454A @ 220V, 0.416A @ 240V, 0.361A @ 277V

**Ratings/Approvals**

Class I, Division 2 Groups A, B, C and D
Class II, Division 1 Groups E, F and G
Class II, Division 2 Groups F and G
Class III, Divisions 1 & 2
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
IEC 60529 Tested
IP66 Rated Waterproof
Replacement for Fluorescent Linear Fixtures
Field Serviceable

**Ambient Operating Temp Range:** -50°C to +65°C
**Operating Temp Rating:** T5
**Housing Material:** Copper Free Cast Aluminum (non sparking)
**Housing Finish:** Epoxy Powder Coated - Gray
**Lens Material:** Hardened Polycarbonate
**Gasket Material:** Silicone
**Mounting:** (2) Pipe Mount Brackets - Other Mounts Available
**Wiring Hub:** (1) 3/4" NPT

**Special Orders - Special Requirements**
Contact us for special requirements
**Toll Free:** 1-800-369-6671
**Intl:** 1-903-270-1187
**Fax:** 1-903-765-7664
**E-mail:** sales@larsonelectronics.com

**The Larson Electronics HAL-LC-48-LED-R1-1227-APM Hazardous Location Integrated LED Linear Fixture offers powerful lighting with heavy-duty and energy efficient benefits in combustible sites. This 100-watt LED unit delivers 15,300 lumens and is field serviceable. Compatible with pipe mount bracket installations (such as under large pipes, poles, pipe racks, industrial catwalks and more), the IP66 rated fixture operates on universal 120-277V AC, 50/60Hz and features a 3/4" NPT wiring hub.**

The HAL-LC-48-LED-R1-1227-APM is a Class I, Division 2 and Class II, Division 1 & 2 linear fixture that is designed for reliable illumination in facilities that contain hazardous gases/vapors. This 100-watt fixture offers 15,300 lumens of high quality light. An 80° x 120° flood beam angle promotes wide light distribution in the surrounding area. Color temperature options for the LED light includes: 5000K, 4500K, 4000K, 3500K or 3000K. This unit is a suitable replacement for fluorescent linear fixtures. Equipped with field serviceable features, the LED assembly is sealed from the driver box, allowing the driver to be changed without impacting the LEDs.

This hazardous location light is protected by a copper-free cast aluminum housing, with an epoxy powder coated gray finish for durability in rugged environments. The non-sparking housing is specially designed to dissipate heat, which increases the efficiency and lifespan of the LEDs and electronic components. Equipped with a hardened polycarbonate lens, the T5-rated LED fixture carries an IP66 waterproof rating.

**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.

**Field Serviceability:** This LED light fixture is field serviceable. All major internal components can be purchased from Larson Electronics and installed by a licensed electrician with basic tools. With most explosion proof fixtures, the fixture must be returned to the manufacturer for repair work, which presents downtime and long turn around times for repair work. Larson

Electronics addresses this issue with products that cater to field serviceability, allowing operators to perform service work without having to return the fixture to the manufacturer in the event of damage or failure.

**Voltage:** The hazardous location light is universal voltage capable and can be operated with 120-277V AC, 50/60Hz.

**Wiring:** A 3/4" NPT hub at the back of the unit is available for completing wiring connections.

**Mount:** This linear LED light fixture comes standard with two pipe mount brackets at both ends of the unit. Several mounting options including pendant, ceiling and wall mounts for replacing existing light fixtures can be ordered separately.

**Suggested Applications:** Hazardous locations, oil drilling rigs, refineries, solvent and cleaning areas, chemical manufacturing, waste treatment plants, gas processing plants, aircraft maintenance and more.

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



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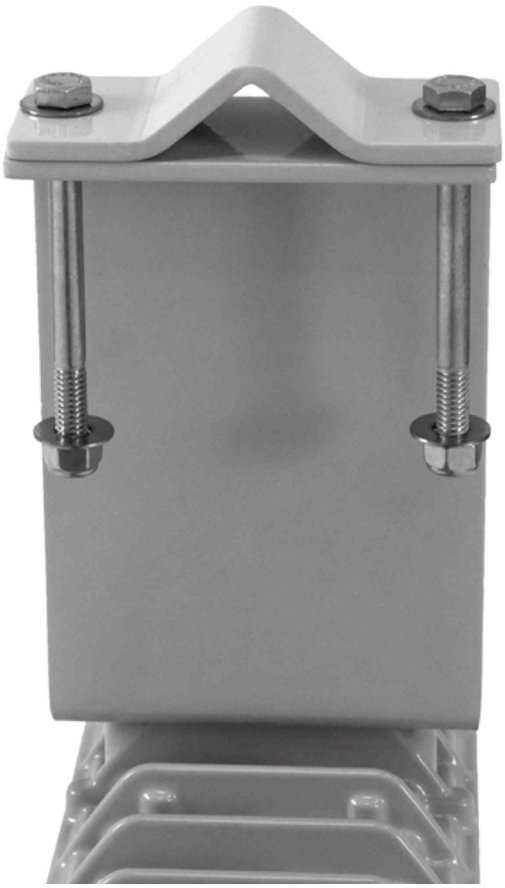

Image: HAL-LC-48-LED-R1-1227-APM



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**HAL-LC-48-LED-R1-1227-APM**

**Product ID: 276910**

**Warranty:** 60 Months.

**Harmonized System (HS) Code:** 9405.41.84.10
**Export Control Classification Number (ECCN):** EAR99

**Options:**

**HAL-LC-48-LED-R1-1227-APM-Color Temp**
**Example: HAL-LC-48-LED-R1-1227-APM-50K**

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

Links (Click on the below items to view):

- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**( https://www.larsonelectronics.com/images/product/CECCert/276910.PDF )
- **CE Certificate**( https://www.larsonelectronics.com/images/product/CECert/276910.PDF )
- **FCC Certificate (Federal Communications Commission, USA)**( https://www.larsonelectronics.com/images/product/FCCCert/276910.PDF )
- **MSDS (Material Safety Data Sheet**( https://www.larsonelectronics.com/images/product/Msds/276910.PDF )
- **Operations Manual**( https://www.larsonelectronics.com/images/product/Manual/276910.PDF )
- **RoHS Certificate (Restriction of Hazardous Substances)**( https://www.larsonelectronics.com/images/product/RoHSCert/276910.PDF )
- **USA NEC Certificate (Commonly referred to as UL Certificate)**( https://www.larsonelectronics.com/images/product/NECCert/276910.PDF )
- **Wiring Diagram**( https://www.larsonelectronics.com/images/product/WiringDiagram/276910.PDF )
- **HigResPic1**( https://www.larsonelectronics.com/images/product/HigResPic1/276910.JPG )
- **HigResPic2**( https://www.larsonelectronics.com/images/product/HigResPic2/276910.JPG )
- **HigResPic3**( https://www.larsonelectronics.com/images/product/HigResPic3/276910.JPG )
- **HigResPic4**( https://www.larsonelectronics.com/images/product/HigResPic4/276910.JPG )
- **HigResPic5**( https://www.larsonelectronics.com/images/product/HigResPic5/276910.JPG )
- **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 )