Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

## HAL-31L-LV

# 31 Watt Low Voltage LED Fixture for Hazardous Location Lighting - Class 1 Division 2 Approved

**Product ID: 50941**

**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-31L-LV Hazardous Location LED Light**

**Lamp Type: LED**
**Lamp Dimensions (w/o Bracket):** 6.9" Diam"- 2.9"-Depth
**Lamp Dimensions (w/ Bracket):** 4.63"-H 7.25" W"

**Weight:** 4.5lb | 2.05 k g

**Watts:** 31.6 W @ 12 VDC | 33.6 W @ 24 VDC
**Voltage:** 12-28V DC

**Lumens:** Spot: 2334 - Flood: 1996

**Lamp Life Expectancy:** 100,000 Hours
**CRI:** CW: 75, NW: 75, WW: 80
**Amps:** 2.64 A @12 VDC - 1.4 A @ 24 VDC
**Light Color:** CW: 6500K, NW: 4300K, WW: 3500K
**Beam Type:** 30° Spot or 100° Flood

**Mounting:** 1/4" - 20 Screws /Aluminum 1" Yoke

**Materials:** Machined aluminum housing - acrylic lens
**Housing Finish:** Clear anodized finish
**Temp Range:** -40°C – +85°C
**Typical Case Temperature:** ~20°C above ambient temperature
**Wiring:** 5Ft Lead w/ Turck Connector | White: + Black: -

3 year warranty replacement on this LED light. After 30 days, the customer ships the failed LED light and/or LED bulb to Larson Electronics at their expense. If the failure is a manufacturer defect, we will ship a new replacement to the customer. If failure occurs within 30 days of receipt, Larson Electronics will provide a return label via email to the customer. When the failed light is returned, we will ship a new replacement.

**ETL Listed**

Class 1 Division 2 Groups A,B,C,D
CSA 22.2 No. 250.0
UL 1598

IP66 Ingress Protection

T3 Temperature Rating
LM-80 > 60,500 hrs (based on Cree long term tests)

**Special Orders - Special Requirements**

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

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

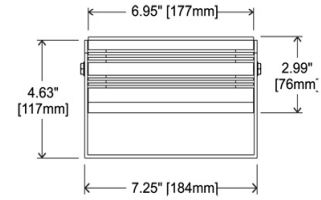
**Buy American Compliant**

**The HAL-31L-LV is a low voltage hazardous location lighting solution approved for Class 1 Division 2 environments and UL 1598 compliant for use in wet locations. This powerful LED light produces 2334 lumens, operates from 12 or 24 VDC, and is available in a variety of configurations to allow tailoring to the specific requirements of various applications.**

The HAL-31L-LV is designed to provide a high output and ruggedly durable lighting solution for applications where Class 1 Division 2 compliance is required. This low voltage explosion proof light can be operated with either 12 or 24 volt DC current and includes 5 feet of connecting lead with standard two wire configuration. This light is constructed of precision machined aluminum for excellent strength and durability, clear anodized for corrosion resistance, and is IP66 rated for ingress protection against dust and direct exposure to high pressure water spray.
The HAL-31L-LV is also available in a 30 degree spotlight beam configuration for distance and a 100 degree configuration for wide area illumination. The light output is offered in 6500K cool white, 4300K neutral white, and 3500K warm white color temperatures for maximum illumination. The high output, cool running operation, and good color rendering properties of this light make it an ideal replacement for older, bulkier, and less reliable metal halide and high pressure sodium lamps.



Click Photo to Enlarge




Click Photo to Enlarge




Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

**Durability:** The HAL-31L-LV hazardous location LED light is constructed of machined aluminum for high strength and durability with a clear anodized finish for increased corrosion resistance. The housing is IP66 rated, providing protection against intrusion into the housing from dusts, dirt, oils and water directly sprayed on the housing at high pressure. This LED light is equipped with an impact resistant acrylic lens for increased safety compared to glass lenses. This design is weather resistant, suitable for indoor or outdoor applications, and ideal for areas where wetness or dusty conditions are commonly encountered.
**High Output LEDs:** The LEDs in this unit are Cree X-Lamp XR-E units that have been chosen for their high lumen per watt ratio and extreme long life. These Cree LEDs provide over 90 lumens per watt output and have a 70% lumen retention at 100,000 hours, giving them better efficiency and operational life than comparable LEDs. These lights are available in a 30 degree spotlight configuration for long beam length or 100 degree flood configuration for wide area coverage. The HAL-31L-LV has multiple color temperature options and is offered in 6500K cool white

with a color rendering of 75, 4300K neutral white with a color rendering of 75, and 3500K warm white with a color rendering of 80.

**Mounting:** Mounting for this unit is provided by an included aluminum yoke that allows vertical adjustment of the light once installed. The mounting yoke is 1 inch wide and predrilled with two ¼ inch holes spaced 2 inches apart for easy and secure mounting to flat surfaces. The entire assembly weighs 4.5 lbs and measures only 6.9 inches in diameter and 3 inches deep, making it ideal for mounting in areas where space is limited and a heavy fixture cannot be installed due to lack of support.

**Wiring/Power:** These hazardous location LED lights are equipped with 5 feet of cord containing a standard two wire (White+ Black-) connecting configuration. These lights operate from 12 to 24 volt DC current and draw 31 watts 2.64 amps on 12 VDC and 33 Watts 1.4 amps on 24 VDC.

**Versatility:** The HAL-31L-LV is ETL listed for Class 1 Division 2 groups A,B,C and D locations, certified to CSA 22.2 No. 250.0, and conforms to UL 1598. This unit carries an IP66 waterproof rating ensuring protection against ingress from dusts, dirt, oils and water sprayed at high pressure directly on the fixture. This light is ideal for indoor or outdoor applications, food processing, and industrial operations with hazardous location classification where dusty or wet conditions are commonly encountered.

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

# Frequently Asked Questions (FAQ)






HAL-31L-LV


Natural Gas for Vehicles

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

**HAL-31L-LV**

**Product ID: 50941**

**Export Control Classification Number (ECCN):** EAR99

**Options:**

**HAL-31L-LV-Beam Pattern-Color Temp-Bracket**

**Example: HAL-31L-LV-SP-6500K-Perm**

| Beam Pattern | |
|---|---|
| SPOT | -SP |
| FLOOD | -FL |

| Color Temp | |
|---|---|
| CW 6500K | -6500K |
| NW 4300K | -4300K |
| WW 3500K | -3500K |

| Bracket | |
|---|---|
| PERMANENT | -Perm |
| PORTABLE | -Port |

Links (Click on the below items to view):

- Canadian CEC Certificate (Commonly referred to as CSA Certificate)
- Dimensional Drawing 2D
- DXF (2D CAD Model)
- IES (Photometric File)
- MSDS (Material Safety Data Sheet
- Operations Manual
- STEP File (3D CAD Model)
- USA NEC Certificate (Commonly referred to as UL Certificate)
- Wiring Diagram (Oneline)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map