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



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- Requirements

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

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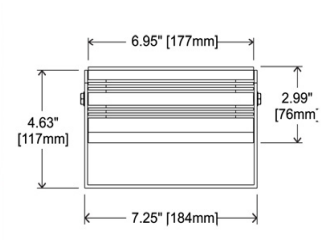
The HAL-31L-LV is a low voltage hazardous location lighting solution approved for Class 1 Division 2 environments and UL 1598 compliant for use in wet locations. This powerful LED light produces 2334 lumens, operates from 12 or 24 VDC, and is available in a variety of configurations to allow tailoring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

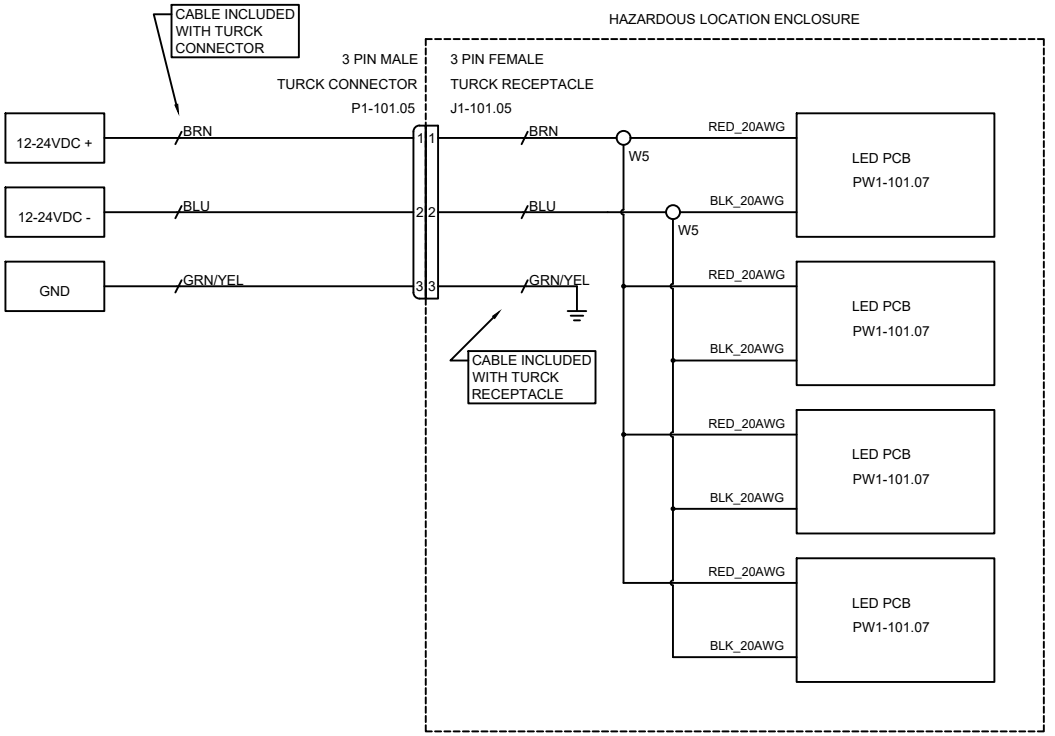
Wiring/Power: These hazardous location LED lights are equipped with 5 feet of cord containing a standard two wire (White+ Black-) connecting configuration. These lights operate from 12 to 24 volt DC current and draw 31 watts 2.64 amps on 12 VDC and 33 Watts 1.4 amps on 24 VDC.

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.

REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	10-31-2023

HAL-31L-LV-FL-3500K-Perm

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TAGS	QTY	CATALOG	DESCRIPTION
J1-101.05	1		FEMALE RECEPTACLE W/ CABLE SINGLE ENDED 3 PIN 250V 8A HAZARDOUS LOCATION 7/8" - 16 UN FRONT MOUNT
P1-101.05	1		MALE CONNECTOR W/ CABLE SINGLE ENDED 3 PIN 250V 8A HAZARDOUS LOCATION 7/8" - 16 UN, STRAIGHT
PW1-101.07	4	UNV00015333	HAL-7W PCB BOARDS
W5	2	UNV00009803	5 HOLE WAGO

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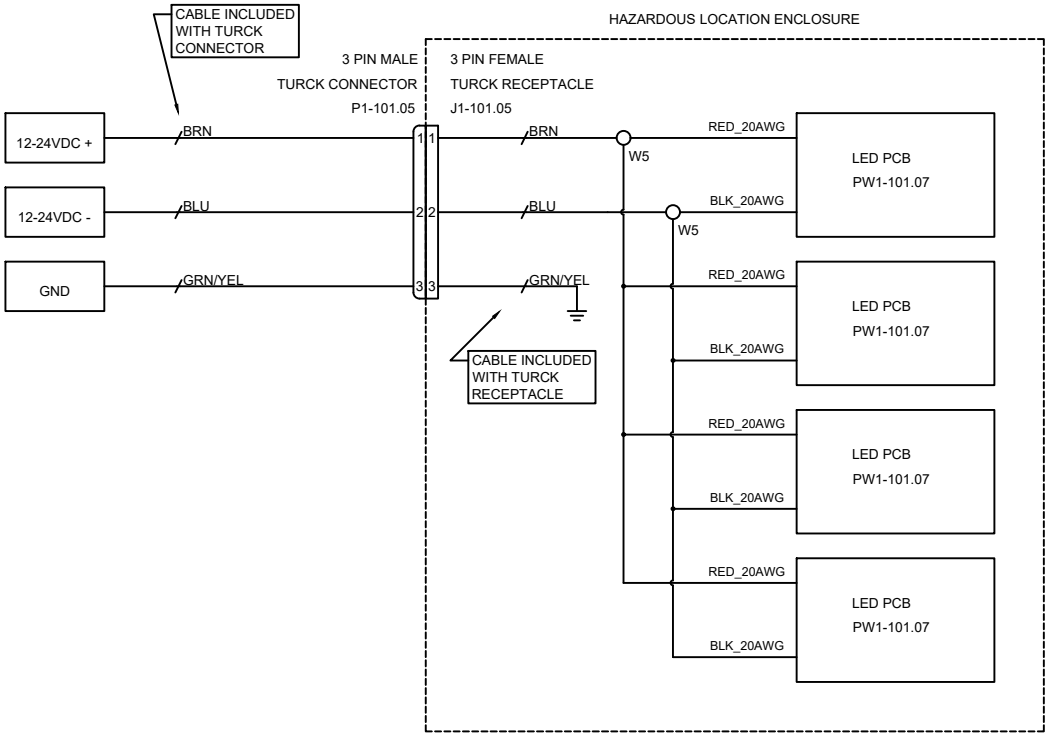
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J.Maldonado	10-31-2023	A
CHECKED BY	SHEET #	DRAWING #
S.Desai	1 OF 1	101

REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	10-24-2023

HAL-31L-LV-FL-6500K-Perm

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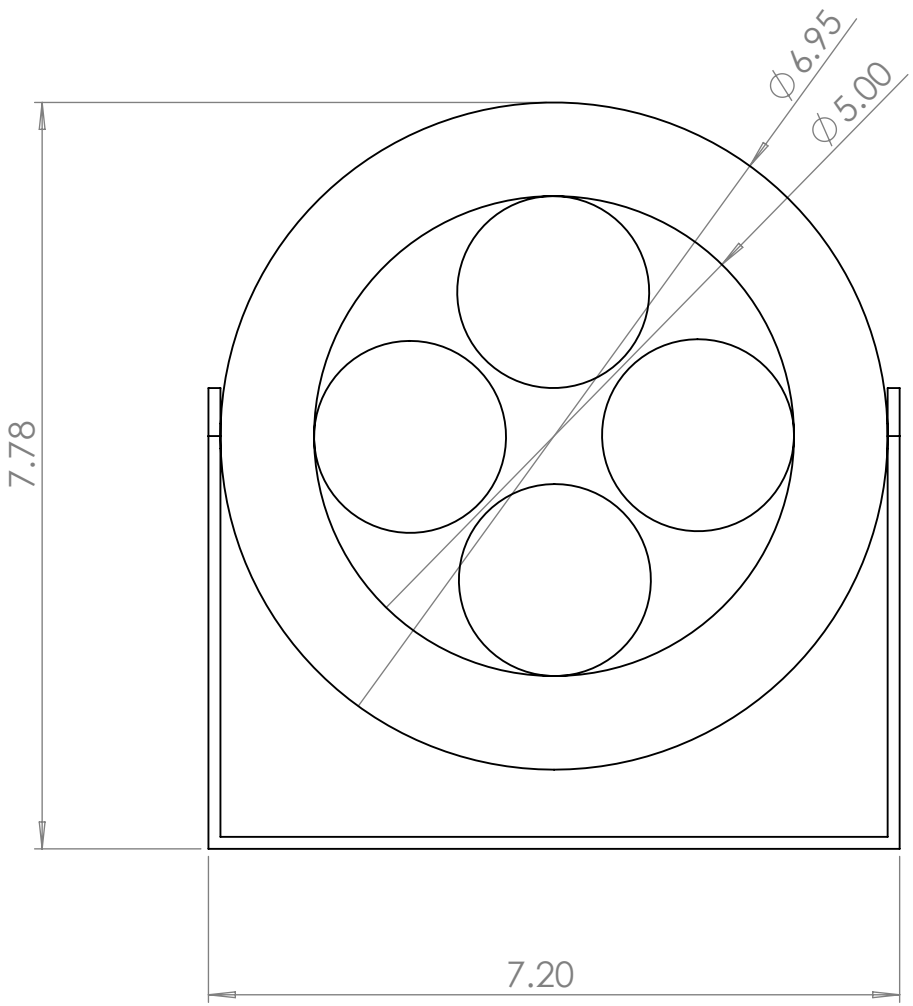


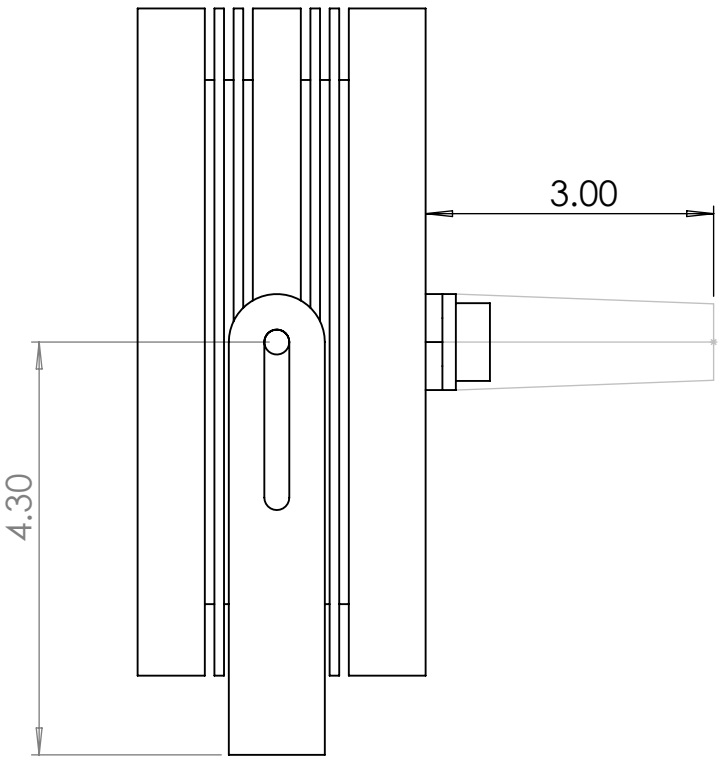
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P1-101.05	1		MALE CONNECTOR W/ CABLE SINGLE ENDED 3 PIN 250V 8A HAZARDOUS LOCATION 7/8" - 16 UN, STRAIGHT
PW1-101.07	4	UNV00015333	HAL-7W PCB BOARDS
W5	2	UNV00009803	5 HOLE WAGO

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KEMP, TX 75143

TITLE: HAL-31L-LV-FL-6500K-Perm

DRAWN BY	DATE	REV
J.Maldonado	10-24-2023	A
CHECKED BY	SHEET #	DRAWING #
S.Desai	1 OF 1	101





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TITLE:

HAL-31L-LV

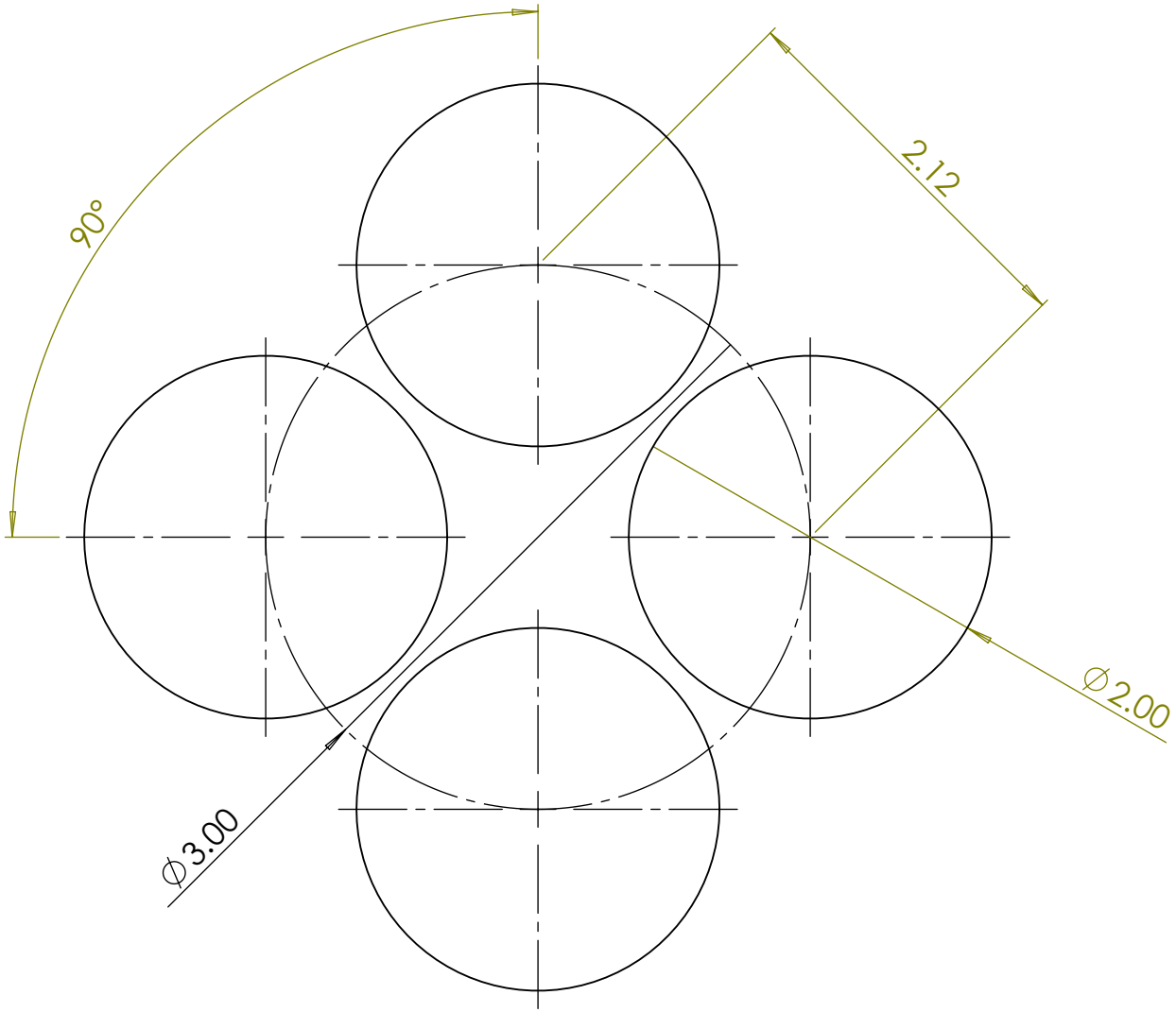
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		NAME
DIMENSIONS ARE IN INCHES	DRAWN	Clint Thompson
MATERIAL A-36 Steel	CHECKED	N/A
DO NOT SCALE DRAWING		

SIZE	DWG. NO.	REV
A	A	

SCALE: NTS | SHEET 1 OF 2

5 4 3 2 1



LED-Array Details for
LE-PN:
HAL-31L-LV

LARSON ELECTRONICS®

TITLE:

LED-Array

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MATERIAL A-36 Steel	CHECKED	N/A
DO NOT SCALE DRAWING		

SIZE	DWG. NO.	REV
A	A	

SCALE: NTS | SHEET 2 OF 2

5 4 3 2 1

1. Lense Diameter: 5” diameter(circle)

2. LED Blank Locations: 4 blanks who’s center-points are located on a 3” diameter circle

   a. The blanks(PCBs) are 2” in diameter.
   b. There are 90 degrees of separation between each of the blanks centers along the 3” circle’s circumference.
   c. Edge to edge at their closest point, the 2” diameter blanks are .121” apart.

3. Strain Relief Length: The strain relief extends 3” inches beyond the back face of the light module.






HAL-31L-LV


Natural Gas for Vehicles

Material Safety Data Sheet

To Whom It May Concern,

Larson Electronics LLC EHL, EPL, EPLC2, HAL, HALP, HALD, HAL-LI, HALS, and HALSS industrial line of LED lights without emergency backup for hazardous locations are considered "ARTICLES" under 29 CFR 1910-1200, the OSHA Hazard Communication Standard, and do not require a Material Safety Data Sheet (MSDS).

Articles are specifically exempt from the regulations of this standard. OSHA defines an article as follows:

1910-1200(c) – Article means a manufactured item other than a fluid or particle:

i. Which is formed to a specific shape or design during manufacture;
ii. Which has end use function(s) dependent in whole or in part upon its shape or design during end use; and
iii. Which under normal conditions does not release more than very small quantities.

The "hazardous location" and "explosion proof" are terminology for the environment where these products will be installed. This is not to be confused with "hazardous materials;" this product does not contain any hazardous materials.

Regards,



Ray Smith
Larson Electronics, LLC.

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Product Description

Title: ELECTRIC LIGHTING FIXTURES FOR USE IN HAZARDOUS (CLASSIFIED) LOCATIONS

Company: LARSON ELECTRONICS LLC - Kemp, TX USA

Product Information: Trade Name(s): Magna Light.

LED Flood Light, Model Nos. EPLC2-HB-150LED-RT, EPLC2-LED-150W-RT, EPLC2-WPLED-150W-RT, EPLC2-HB-150LED-RT-48, EPLC2-HB-100LED-RT, EPLC2-HB-100LED-RT-UVA, EPL-HB-150LED-RT, EP-LED-150W-RT, EPL-WPLED-150W-RT, EPL-HB-150LED-RT-48, EPL-HB-100LED-RT, EPL-HB-100LED-RT-UVA, AL-12-IPS-LED-1224DC, HAL-24-IPS-LED-1224DC, HAL-36-IPS-LED-1224DC, HAL-48-IPS-LED-1224DC; followed by -UVA, -UVB, -UVC, -IR, -C, -VISUV, -VISIR, -VISRED, -VISBLU, -VISGRN, -VISAMB, -27K, -30K, -40K, -45K, -50K, -55K, -56K, -60K, -65K, -DAYLIGHT, -750NM, -770NM, -850NM, -940NM, -1550NM, -RED, -BLU, -GRN, -AMB, or -PRPL.

LED Fixed Lighting suitable for used in Class I, Division 1, Groups C, D. Class I, Division 2, Groups A, B, C & D, T6, -25°C to +40°C., Model Nos. EPL-LP-12-LED-SFC, EPL-LP-24-LED-SFC, EPL-LP-48-LED-SFC.LED Fixed Lighting suitable for used in Class I Division 1 Group B C and D, Class I Division 2 Group A B C and D, Class II Division 1 Group E F and G, Class II Division 2 Group F and G and Class III hazardous locations, T6, -25°C to +40°C., Model Nos. EPL-HB-100LED-RT, EPL-HB-150LED-RT, EPL-HB-200LED-RT, EPL-HB-240LED-RT, EPL-HB-300LED-RT.

LED Light, Model Nos. HAL-7W-LED-XX-Y-ZZZ, HAL-XX-YYY-LED-XX-T-ZZZZ, HAL-31L-LV-XX-Y-ZZZZ, HAL-60W-HV-XX-Y-ZZZZ.

LED Luminaire for use in Class I, Division 1&2, Groups C&D, T5 Hazardous Location, Model Nos. EPL-HB-50LED-RT; followed by -CM, -STNCH, -PT, -WM or -CLG; followed by -1227 or -1224; followed by -60DB, -100DB or -140DB; followed by -30K, -40K or -50K. EPL-HB-50LED-RT; followed by -CM, -STNCH, -PT, -WM, -CLG; followed by -1347 or -347V; followed by -60DB, -100DB or -140DB; followed by -30K, -40K or -50K. EPL-HB-50LED-RT; followed by -CM, -STNCH, -PT, -WM, -CLG; followed by -3480 or -480V; followed by -60DB, -100DB or -140DB; followed by -30K, -40K or -50K.

Luminaires, Model Nos. HAL-48-1L-LED-BMSW, HAL-48-2L-LED-BMSW, HAL-48-3L-LED-BMSW, HAL-24-1L-LED-BMSW, HAL-24-2L-LED-BMSW, HAL-24-3L-LED-BMSW. For use in Hazardous Locations, Class I, Division 2, Groups A, B, C and D; T3C, T4A or T5 -20°C < Tamb < 40°C.

Luminaires, Model Nos. EPL-48-2L-LED-SFC, EPL-24-2L-LED-SFC. for use in Hazardous Locations: Class I, Div. 1, Groups C and D T5 or T6 -20°C < Tamb < 40°C Class II, Div. 1., Groups E, F, and G; Class III Div.1 T3B -20°C < Tamb < 40°C

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Evaluated to the following:	A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Electric Lighting Fixtures for Use in Hazardous (Classified) Locations (UL-844) and are identified with the ETL Listed Mark.

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Product Description

Title: LUMINAIRES

Company: LARSON ELECTRONICS LLC - Kemp, TX USA

Product Information: Trade Name(s): Magna Light.

Fixed Luminaires, Model Nos. EPL-HB-100LED-RT, EPL-HB-150LED-RT, EPL-HB-200LED-RT, EPL-HB-240LED-RT, EPL-HB-300LED-RT, EPL-EMG-LB-100LED-RT, EPL-EMG-LB-150LED-RT, EPL-EMG-LB-200LED-RT.

LED Flood Light, Model Nos. EPLC2-HB-150LED-RT, EPLC2-LED-150W-RT, EPLC2-WPLED-150W-RT, EPLC2-HB-150LED-RT-48, EPLC2-HB-100LED-RT, EPLC2-HB-100LED-RT-UVA, EPL-HB-150LED-RT, EPL-LED-150W-RT,
EPL-WPLED-150W-RT, EPL-HB-150LED-RT-48, EPL-HB-100LED-RT, EPL-HB-100LED-RT-UVA.

LED Light, Model Nos. HAL-7W-LED-XX-Y-ZZZ, HAL-XX-YYY-LED-XX-T-ZZZZ, HAL-31L-LV-XX-Y-ZZZZ, HAL-60W-HV-XX-Y-ZZZZ.

Luminaires, Model Nos. HAL-48-1L-LED-BMSW, HAL-48-2L-LED-BMSW, HAL-48-3L-LED-BMSW, HAL-24-1L-LED-BMSW, HAL-24-2L-LED-BMSW, HAL-24-3L-LED-BMSW. For use in Hazardous Locations, Class I, Division 2, Groups A, B, C and D; T3C, T4A or T5 -20°C < Tamb < 40°C.

Luminaires, Model Nos. EPL-48-2L-LED-SFC, EPL-24-2L-LED-SFC. for use in Hazardous Locations: Class I, Div. 1, Groups C and D T5 or T6 -20°C < Tamb < 40°C Class II, Div. 1., Groups E, F, and G; Class III Div.1 T3B -20°C < Tamb < 40°C

Surface-mounted Luminaire, Model Nos. EPL-LP-12-LED-SFC, EPL-LP-12-LED-SFC, EPL-LP-12-LED-SFC, EPL-LP-12-LED-SFC, EPL-LP-24-LED-SFC, EPL-LP-24-LED-SFC, EPL-LP-24-LED-SFC, EPL-LP-24-LED-SFC, EPL-LP-48-LED-SFC, EPL-LP-48-LED-SFC, EPL-LP-48-LED-SFC, EPL-LP-48-LED-SFC.

Wall mounted luminaire, Model Nos. EPL-HB-50LED-RT; followed by -CM, -STNCH, -PT, -WM or -CLG; followed by -1227 or -1224; followed by -60DB, -100DB or -140DB; followed by -30K, -40K or -50K. EPL-HB-50LED-RT; followed by -CM, -STNCH, -PT, -WM or -CLG; followed by -1347 or -347V; followed by -60DB, -100DB or -140DB; followed by -30K, -40K or -50K. EPL-HB-50LED-RT; followed by -CM, -STNCH, -PT, -WM or -CLG; followed by -3480 or -480V; followed by -60DB, -100DB or -140DB; followed by -30K, -40K or -50K.

Evaluated to the following: A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Luminaires (UL-1598) and are identified with the ETL Listed Mark.

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Product Description

Title: ELECTRIC LIGHTING FIXTURES FOR USE IN HAZARDOUS (CLASSIFIED) LOCATIONS

Company: LARSON ELECTRONICS LLC - Kemp, TX USA

Product Information: Trade Name(s): Magna Light.

LED Flood Light, Model Nos. EPLC2-HB-150LED-RT, EPLC2-LED-150W-RT, EPLC2-WPLED-150W-RT, EPLC2-HB-150LED-RT-48, EPLC2-HB-100LED-RT, EPLC2-HB-100LED-RT-UVA, EPL-HB-150LED-RT, EP-LED-150W-RT, EPL-WPLED-150W-RT, EPL-HB-150LED-RT-48, EPL-HB-100LED-RT, EPL-HB-100LED-RT-UVA, AL-12-IPS-LED-1224DC, HAL-24-IPS-LED-1224DC, HAL-36-IPS-LED-1224DC, HAL-48-IPS-LED-1224DC; followed by -UVA, -UVB, -UVC, -IR, -C, -VISUV, -VISIR, -VISRED, -VISBLU, -VISGRN, -VISAMB, -27K, -30K, -40K, -45K, -50K, -55K, -56K, -60K, -65K, -DAYLIGHT, -750NM, -770NM, -850NM, -940NM, -1550NM, -RED, -BLU, -GRN, -AMB, or -PRPL.

LED Fixed Lighting suitable for used in Class I, Division 1, Groups C, D. Class I, Division 2, Groups A, B, C & D, T6, -25°C to +40°C., Model Nos. EPL-LP-12-LED-SFC, EPL-LP-24-LED-SFC, EPL-LP-48-LED-SFC.LED Fixed Lighting suitable for used in Class I Division 1 Group B C and D, Class I Division 2 Group A B C and D, Class II Division 1 Group E F and G, Class II Division 2 Group F and G and Class III hazardous locations, T6, -25°C to +40°C., Model Nos. EPL-HB-100LED-RT, EPL-HB-150LED-RT, EPL-HB-200LED-RT, EPL-HB-240LED-RT, EPL-HB-300LED-RT.

LED Light, Model Nos. HAL-7W-LED-XX-Y-ZZZ, HAL-XX-YYY-LED-XX-T-ZZZZ, HAL-31L-LV-XX-Y-ZZZZ, HAL-60W-HV-XX-Y-ZZZZ.

LED Luminaire for use in Class I, Division 1&2, Groups C&D, T5 Hazardous Location, Model Nos. EPL-HB-50LED-RT; followed by -CM, -STNCH, -PT, -WM or -CLG; followed by -1227 or -1224; followed by -60DB, -100DB or -140DB; followed by -30K, -40K or -50K. EPL-HB-50LED-RT; followed by -CM, -STNCH, -PT, -WM, -CLG; followed by -1347 or -347V; followed by -60DB, -100DB or -140DB; followed by -30K, -40K or -50K. EPL-HB-50LED-RT; followed by -CM, -STNCH, -PT, -WM, -CLG; followed by -3480 or -480V; followed by -60DB, -100DB or -140DB; followed by -30K, -40K or -50K.

Luminaires, Model Nos. HAL-48-1L-LED-BMSW, HAL-48-2L-LED-BMSW, HAL-48-3L-LED-BMSW, HAL-24-1L-LED-BMSW, HAL-24-2L-LED-BMSW, HAL-24-3L-LED-BMSW. For use in Hazardous Locations, Class I, Division 2, Groups A, B, C and D; T3C, T4A or T5 -20°C < Tamb < 40°C.

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Company: LARSON ELECTRONICS LLC - Kemp, TX USA

Product Information: Trade Name(s): Magna Light.

Fixed Luminaires, Model Nos. EPL-HB-100LED-RT, EPL-HB-150LED-RT, EPL-HB-200LED-RT, EPL-HB-240LED-RT, EPL-HB-300LED-RT, EPL-EMG-LB-100LED-RT, EPL-EMG-LB-150LED-RT, EPL-EMG-LB-200LED-RT.

LED Flood Light, Model Nos. EPLC2-HB-150LED-RT, EPLC2-LED-150W-RT, EPLC2-WPLED-150W-RT, EPLC2-HB-150LED-RT-48, EPLC2-HB-100LED-RT, EPLC2-HB-100LED-RT-UVA, EPL-HB-150LED-RT, EPL-LED-150W-RT,
EPL-WPLED-150W-RT, EPL-HB-150LED-RT-48, EPL-HB-100LED-RT, EPL-HB-100LED-RT-UVA.

LED Light, Model Nos. HAL-7W-LED-XX-Y-ZZZ, HAL-XX-YYY-LED-XX-T-ZZZZ, HAL-31L-LV-XX-Y-ZZZZ, HAL-60W-HV-XX-Y-ZZZZ.

Luminaires, Model Nos. EPL-48-2L-LED-SFC, EPL-24-2L-LED-SFC. for use in Hazardous Locations: Class I, Div. 1, Groups C and D T5 or T6 -20°C < Tamb < 40°C Class II, Div. 1., Groups E, F, and G; Class III Div.1 T3B -20°C < Tamb < 40°C

Surface-mounted Luminaire, Model Nos. EPL-LP-12-LED-SFC, EPL-LP-12-LED-SFC, EPL-LP-12-LED-SFC, EPL-LP-12-LED-SFC, EPL-LP-24-LED-SFC, EPL-LP-24-LED-SFC, EPL-LP-24-LED-SFC, EPL-LP-24-LED-SFC, EPL-LP-48-LED-SFC, EPL-LP-48-LED-SFC, EPL-LP-48-LED-SFC, EPL-LP-48-LED-SFC.

Wall mounted luminaire, Model Nos. EPL-HB-50LED-RT; followed by -CM, -STNCH, -PT, -WM or -CLG; followed by -1227 or -1224; followed by -60DB, -100DB or -140DB; followed by -30K, -40K or -50K. EPL-HB-50LED-RT; followed by -CM, -STNCH, -PT, -WM or -CLG; followed by -1347 or -347V; followed by -60DB, -100DB or -140DB; followed by -30K, -40K or -50K. EPL-HB-50LED-RT; followed by -CM, -STNCH, -PT, -WM or -CLG; followed by -3480 or -480V; followed by -60DB, -100DB or -140DB; followed by -30K, -40K or -50K.

Evaluated to the following: A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Luminaires (CAN/CSA-C22.2 No. 250.0) and are identified with the cETL Listed Mark.; A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Luminaires (CAN/CSA-C22.2 No. 250.0) and are identified with the cETL Listed Mark.

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Frequently Asked Questions (FAQ)