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

## HALP-48-2L-LED-DNMS

# 56W Hazardous Location Light Fixture, Non-Metallic, 2 LED Lamps, Motion + Day/Night Sensor, Corrosion Resistant, Marine Application, C1D2/C2D2

**Product ID: 148085**



**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.**

**HALP-48-2L-LED-DNMS - Hazardous Area LED Offshore Light**
**Listing: NRTL Listed to United States, Canada**
**Lamp Technology: LED**
**Dimensions: 52.00"-L x 8.25"-W x 7.00"-H**
**Weight: 8 lb**
**Voltage: Universal 120-277V AC, 50/60 Hz or 12-24V AC/DC**
**Lamp Qty: (2)**
**Lamp Wattage: 28 Watts Per Lamp**
**Total Watts: 56 Watts**
**Lamp Lumens: 3,500 lms**
**Total Lumens: 7,000 lms**
**Luminous Efficacy: 125 Lm/w**
**Lamp Life Expectancy: 50,000+ Hours**
**Lamp Color Temperature: 3000K, 4500K, or 5600K**
**Color Rendering Index: >80 CRI**
**Lamp Type:** LED
**Lamp Base:** -
**Replacement Lamp:** -
**Beam Angle: 150°**
**Dimming Function: No**
**Lighting Configuration: Flood**
**Power Efficiency: >95%**
**Power Factor: 0.992**
**Amps: 0.47A @ 120V, 0.27A @ 208V, 0.25A @ 220V, 0.23A @ 240V, 0.20A @ 277V**
**Ambient Operating Temp Range: -30°C to +85°C**
**Operating Temp Rating: T4**
**Minimum Operating Temp: -30°C**
**Maximum Case Temp: +90°C**
**Housing Material: Fiberglass Reinforced Polyester Housing**

**Ratings/Approvals**
Listed for United States and Canada
Class I, Division 2, Groups A, B, C, D
Class II, Division 2, Groups F, G
NRTL Certified to UL 844
NRTL Certified to UL 1598A Marine Type (Salt water)
NRTL Certified to C22.2 No. 137
NRTL Certified to C22.2 No. 250.0
Meets USCG Specifications
California Title 24 Compliant
T4 Temperature Rating
Non-Corrosive Construction
Non-Metallic Housing Pan & Lens
Made in the USA
BAA Compliant
Silicone Free
CE Certified
Field Serviceable
Motion + Day/Night Sensor

**Special Orders - Requirements**
Contact us for special requirements

**Lens Material: Shatter/Impact Resistant Acrylic Diffuser**

**Gasket Material: Neoprene**

**Mounting: Flange Type Surface Mount or Pendant Mount**

**Wiring Hub: 1/2" or 3/4" NPT**

**Toll Free:** 1-800-369-6671

**Intl:** 1-214-616-6180

**Fax:** 1-903-498-3364

**E-mail:** sales@larsonelectronics.com

**Made in the USA**

**The HALP-48-2L-LED-DNMS from Larson Electronics is a Hazardous Area LED Light Fixture that is U.S./Canada approved Class I Division 2 Groups A, B, C and D and is specifically designed to handle the rigors of wet and corrosive marine environments. This hazardous location LED light has a T4 temperature rating and carries a United States Coast Guard approval, making it ideal for applications such as oil rigs, ships, offshore applications, petrochemical, manufacturing, chemical storage, and water treatment centers.**

This four foot long, two lamp LED fixture is ideal for operators seeking a top quality hazardous location light that will reduce operating costs, improve lighting quality, and reduce downtime incurred from frequent servicing intervals. The HALP-48-2L-LED-DNMS hazardous area LED light fixture is designed for use in wet areas and saltwater-marine environments where corrosion resistance is critical to equipment longevity and safety. This Class I Division 2 rated fixture is constructed of non-corrosive materials including a polyester housing reinforced with glass fiber, a poured in gasket for reliable sealing, and an impact resistant acrylic diffuser. Corrosion resistant plastic latches secure the lamp cover to the housing and provide a firm lock against the poured in seal to prevent drips and water intrusion.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge







We now offer our second generation LED tube lamps with this fixture which have increased this hazardous location light's performance. This two lamp HAZLOC LED linear fixture is lighter in weight and produces more light than hazardous location fluorescent fixtures. The four foot long LED tube design bulbs included with this unit are rated at 50,000 hours of service life, which is over twice as long as standard T8 bulbs.

The HALP-48-2L-LED-DNMS is NRTL Listed to UL 844 for Class I Division 2, Groups A, B, C, D hazardous locations. This fixture is also NRTL Listed to UL 1598A for outdoor marine type luminaires, and meets US Coast Guard specifications. This light fixture offers the extreme durability, high efficiency, and long lamp life of high power LEDs in a proven hazardous location fixture design, making it a reliable and affordable lighting solution for open areas where flammable chemicals and vapors may occasionally be present.

Click here to read the NEC description for explosion proof and hazardous locations.

We have eliminated the ballast box normally associated with fluorescent fixtures

which reduces overall weight and creates a slimmer unit profile. There is no ballast in this unit and the included LEDT8-28W-V1 LED lamps have a 50,000+ hour service life, both of which result in extreme efficiency and greatly reduced maintenance costs. The solid state design of the LED lamps give this fixture superior resistance to damage from vibration, extremes in temperature and a lamp service life over twice that of standard fluorescent bulbs.
Unlike the glass tube design of traditional fluorescent lamps, these LED T-Style lamps have no filaments or fragile housings to break during operation. Instead of using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current applied and emitting light. The LED assembly is mounted to the "tube" constructed from extruded aluminum, with an acrylic diffuser protecting the LEDs. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than fluorescent lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional fluorescent lighting.
**Sensor Technology:** The HALP-48-2L-LED-DNMS is equipped with an innovative and powerful day/night + motion sensor. This sensor, which is located inside the light fixture itself, allows the HALP-48-2L-LED-DNMS to operate in one of several different and versatile modes. This LED light fixture can be set to be motion activated, day/night activated or in a combination of motion sensing and day/night modes. This high-tech sensor is also highly adjustable and allows operators to modify the following settings: motion sensor sensitivity, motion sensor time-delay and the intensity output level of the fixture. Having this degree of flexibility in operation and settings offers operators an incredibly versatile light fixture.
**Sensor Versatility:** The impressive versatility of the motion + day/night sensor found in the HALP-48-2L-LED-DNMS LED light fixture allows for a lot of creativity in the setup of a single one of these light fixtures. However, the versatility is further increased when multiple units are to be installed together such as in a parking garage or other similar structure. Operators can take advantage of the sensor versatility to set up an energy efficient and automated lighting setup. Take a parking garage for example. Operators would be able to set up a sequence of HALP-48-2L-LED-DNMS fixtures with alternating lights on separate circuits. The first circuit would have sensors set to a lower lux level than the fixtures on the second circuit. This hypothetical setup would allow half the lights to come on as daylight began to fade and the rest of the lights would only come on once complete darkness had fallen. The fixtures could then be adjusted for motion sensing which would allow selected fixtures to power on when pedestrian or vehicle movement was detected and then turn off after an operator chosen interval to conserve energy. This is just one example of the flexibility and versatility that can be achieved with the HALP-48-2L-LED-DNMS.
The 28 watt LED lamps produce 30% more illumination than standard T8 bulbs while offering lower amp draw and increased reliability. Each lamp produces 3,500 lumens at 125 lumens per watt, for a combined 7,000 total lumen light output. A HAL-48-2L-T8 hazardous location fluorescent light, with a combined total of 64 watts, draws 0.54 amps at 120 volts AC. This LED version of the same light, with a total of 56 watts, draws only 0.47 amps at 120 volts AC. The HALP-48-2L-LED-DNMS is universal voltage, not multi-tap, and operates on any voltage from 120V to 277V AC, 50/60 Hz without any modifications. We also make a 12/24V AC/DC version for low voltage applications for AC or DC power.

**Energy Consumption Comparison**

| | T5HO | T8 | LED |
|---|---|---|---|
| Wattage | 108 watts | 64 watts | 56 watts |
| Amp Draw @ 120V AC | 0.90 amps | 0.54 amps | 0.47 amps |
| Amp Draw @ 220V AC | 0.49 amps | 0.29 amps | 0.25 amps |
| Amp Draw @ 240V AC | 0.45 amps | 0.27 amps | 0.23 amps |
| Amp Draw @ 277V AC | 0.39 amps | 0.24 amps | 0.20 amps |

| | | | |
|---|---|---|---|
| Amp Draw @ 12V DC | 9 amps | 5.34 amps | 4.67 amps |
| Amp Draw @ 24V DC | 4.5 amps | 2.67 amps | 2.34 amps |
| Lamp Life Expectancy | 20,000 hours | 24,000 hours | 50,000 hours |
| Color Temperature | 5000K / 4100K | 4100K | 5600K |
| Operation cost per year (12hs/day @ 12c/kWh) | $56.77 | $33.64 | $29.43 |

**Mounting Options:** Unless otherwise specified, our standard, most popular configuration is the flange mount shown enlarged below. We also offer a pendant mount for those needing to suspend the fixture away from the ceiling surface (i.e. suspend from pipe or conduit). Additional mounting configurations can be customized to meet the requirements on the application. Please contact us for special mounting configurations.



Surface Mount (Standard)
Click Photo to Enlarge

**Standard Flange Brackets:** Flange type stainless steel mounts attached at each end of the fixture enables it to be simply secured to any surface. The mounts provide some shock absorbency protection while enabling the user to simply mount the fixture with the through-hole taps that protrude on each side of the fixture. The mounting holes are 38.25" on center apart along the top of this hazardous location light. The mounting holes are 7.2" on center across the top of the light.



Pendant Mount (Optional)
Click Photo to Enlarge

**Standard Suspension Mounting:** Pendant mount fixtures hang from the ceiling and are suspended by rigid pipe. Each fixture is equipped with either two 1/2" or 3/4" NPT hubs, one on each end of the fixture. Operators bring rigid pipe down to the threaded mounting hubs. Wiring is fed down through the rigid pipe to one of the NPT hubs and tied in to the fixture's lead wires, completing the electrical connection. The remaining pendant hub provides support for the opposite end of the fixture.

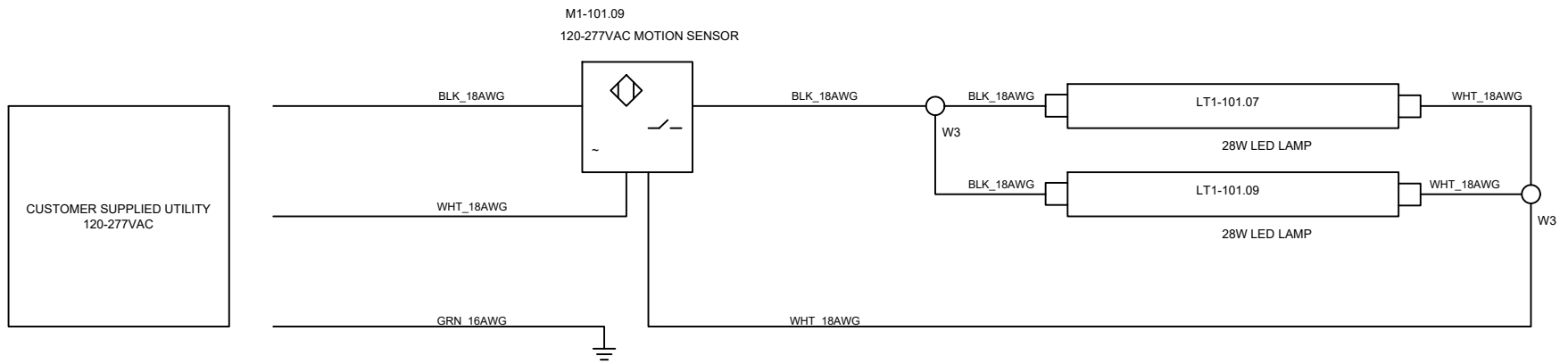
**Suggested Applications:** The HALP-48-2L-LED-DNMS is designed for marine, wet, damp locations where corrosion resistant fluorescent lights are required or are already present. This includes petrochemical facilities, lubrication pits, oil drilling rigs, crew quarters, solvent/cleaning areas, water treatment areas, processing plants, and marine loading docks.

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 |
|---|---|---|
| A | PRODUCTION RELEASE | 9/29/2023 |

# HALP-48-2L-LED-DNMS-SFC.0.5IN-1227-56K

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| TAGS | QTY | CATALOG | DESCRIPTION |
|---|---|---|---|
| LT1-101.07<br>LT1-101.09 | 2 | UNV00008111 | 28W 4F T8 LED 5600K 120/277V CLEAR LENS |
| M1-101.09 | 1 | UNV00016603 | 120-277VAC 3A MOTION SENSOR |
| W3 | 2 | UNV00011954 | 3 HOLE WAGO |

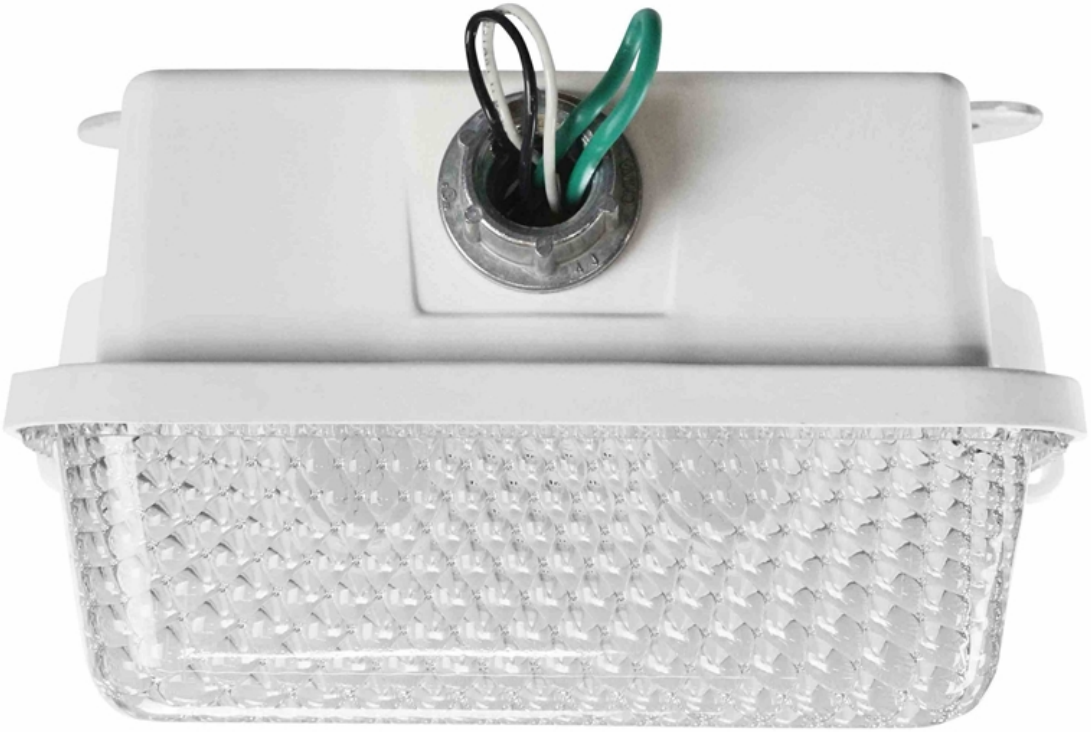
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9419 E US HWY 175,
KEMP, TX 75143

TITLE: HALP-48-2L-LED-DNMS-SFC.0.5IN -1227-56K

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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., EPL.

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 High Bay Luminaires For use in:Class I, Division 1, Groups C and DClass I, Division 2, Groups A, B, C, DClass II, Division 1 Groups E, F and GClass II, Division 2 Group F and GClass IIIClass I Zone 1 Group IIB Class II Zone 21 Group IIIC C Series:Ambient temperature range -40ºC to 60ºC, T4D Series:Ambient temperature range -40ºC to 55ºC (20W-150W) and -40ºC to 45ºC (20W-220W), T4E Series:Ambient temeprature range -40ºC to 65ºC, F Series:Ambient temeprature range -40ºC to 65ºC,T4units over 100W have a T3 temperature codeG Series:Ambient temeprature range -40ºC to 65ºC,T4I Series:Ambient Temperature Range: -40ºC to +60ºC (20W-80W), T4 -40ºC to +40ºC (90W-120W), T4, Model Nos. EPL followed by LR; followed by 24 or 48; followedby 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, or 120;followed by W; followed by LED; may be followedby D, followed by 1227; followed by 30K, 35K, 40K, 50K, 60K; followed by 15B to 360B.

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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 Lighting suitable for used in Class I Division 1 Group 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-MJ-15W-1227, EPL-MJ-15W-3480, EPL-MJ-15W-1247, EPL-MJ-25W-1227, EPL-MJ-25W-3480, EPL-MJ-25W-1247, EPL-MJ-50W-1227, EPL-MJ-50W-3480, EPL-MJ-50W-1247, EPL-MJ-15-1227, EPL-MJ-25-1227, EPL-MJ-15WH-1227, EPL-MJ-25WH-1227.

Lighting for use in Class I Division 2, Groups A, B, C and D, Class II Divison 1 and 2, Groups E,F and G, Class III hazardous locations, T5. Model SP04, Model Nos. HAL-PRM-LED-R4, HAL-PRM-LED-R1, HAL-PRM-LED-R5, HAL-PRM-LED-R6, HAL-PRM-LED-R2, HAL-PRM-LED-R3, HAL-PRM-LED-R7.

Lighting for use in Class I Division 2, Groups A,B,C and D, Class II Divison 1 and 2,
Groups E,F and G, Class III hazardous locations, T5. Model SP05, Model Nos. HAL-LC-24-LED-R1,
HAL-LC-24-LED-R3, HAL-LC-24-LED-R2, HAL-LC-48-LED-R1, HAL-LC-48-LED-R3, HAL-LC-48-LED-R2.

Luminaires, Model Nos. HAL; followed by 24 of 48; followed by 2L; followed by T8,T5HO, LED or LEDT8; followed by SFC. For use in: Hazardous Locations: Class I, Div. 2, Groups A, B, C and D -20°C < Tamb < 40°C, T5.

Luminaires, Model Nos. HALSS; followed by EM; followed by 48; followed by 2L; followed by LED. For use in: Hazardous Locations Class I, Division 2, Groups A, B, C and D: 0°C < Tamb < 40°C, T4.

Luminaires, Model Nos. HALS; followed by 48; followed by 2L, 4L or 6L; followed by T8,T5HO,LED or LEDT8; followed by SFC. For use in: Hazardous Locations Class I, Division 2, Groups A, B, C and D Class II Division 2, Groups F and G -20°C < Tamb < 40°C, T3A, T3B, T3C, T5 or T6.

Luminaires, Model Nos. HALSS; followed by 48; followed by 2L; followed by LED, LEDT8,26 or 46; followed by SFC. For use in: Hazardous Locations Class I, Division 2, Groups A, B, C and D: -20°C < Tamb < 40°C IR2-4-2-26: T6 IR2-4-2-46: T3C IR2-4-2-LEDT8 and IR2-4-2-LED: T4.

Luminaires, Model Nos. HALP; followed by EM; followed by 24 or 48; followed by 2L; followed by T8,T5HO,LED or LEDT8. For use in: Hazardous Locations Class I, Division 2, Groups A, B, C and D: 0°C < Tamb < 40°C, T4.

Luminaires, Model Nos. HAL; followed by EM; followed by 24 or 48; followed by 2L; followed by T8,T5HO,T12,T12HO, LEDT8 or LED;

followed by SFC. For use in: Hazardous Locations Class I, Division 2, Groups A, B, C and D: 0°C < Tamb < 40°C, T4.

Luminaires, Model Nos. EPL; followed by EM; followed by 24 or 48; followed by 2L; followed by T8,T5HO,T12,T12HO, LEDT8 or LED; followed by SFC. For use in: Hazardous Locations Class I, Division 1, Groups C and D, Class II, Division 1, Groups E, F, G, Class III.

Luminaires for use in Hazardous Locations Class I, Division 1, Groups C and D, T5, T6 Class II, Division 1, Groups E, F, and G, T3B Class III 0°C < Tamb < 40°C, Model Nos. EPL-24-2L-T8-SFC, EPL-24-2L-T5-SFC, EPL-48-2L-T8-SFC, EPL-48-2L-T5H0-SFC, EPL-48-4L-T8-SFC, EPL-48-4L-T5HO, EPL-24-216-SFC, EPL-48-216-SFC.EPL- followed by 24 or 48; followed by 2L, 4L, 216, 416; followed by T8, 27, T5HO, 80; followed by SSFC.

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, EPL, Model Nos. EPL-24-2L-T8-SFC, EPL-24-2L-T5-SFC, EPL-48-2L-T8- SFC, EPL-48-2L-T5H0-SFC, EPL-48-4L-T8-SFC, EPL48-4L-T5HO, EPL-24-216-SFC, EPL-48-216-SFC. For use in: Hazardous Locations Class I, Division 1, Groups C and D, T5, T6 Class II, Division 1, Groups E, F, and G, T3B Class III

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

Luminaires, Model Nos. HALP; followed by 24 of 48; followed by 2L or 3L; followed by LED; followed by SFC. For use in: Hazardous Locations Class I, Division 2, Groups A, B, C and D: Luminaires with “LEDT8” suffix: T4 -20°C < Tamb < 55°C Luminaires with “LED” suffix: T4 -20°C < Tamb < 40°C.

**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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# Frequently Asked Questions (FAQ)