EVLL HAZARD•GARD®
LED LUMINAIRE
Installation & Maintenance Information

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

APPLICATION
EVLL HAZARD•GARD® LED Luminaires are suitable for use in the following hazardous (classified) areas as defined by the National Electrical Code (NEC®) and Canadian Electrical Code (CEC):

- Class I, Division 1, Groups B, C, D
- Class II, Groups E, F, G
- Wet locations (UL1598), Marine locations (UL1598A), NEMA 4X, IP66

Refer to the luminaire nameplate for specific classification information, maximum ambient temperature suitability and corresponding operating temperature (T-Code).

EVLL HAZARD•GARD® LED Luminaire is designed for use indoors and outdoors in marine and wet locations, where moisture, dirt, corrosion, vibration, and rough usage may be present.

WARNING
To avoid the risk of fire, explosion, or electric shock, this product should be installed, inspected, and maintained by a qualified electrician only, in accordance with all applicable electrical codes.

To avoid electric shock:
Be certain electrical power is OFF before and during installation and maintenance.
Luminaire must be supplied by a wiring system with an equipment grounding conductor.

WARNING
To avoid explosion:
Make sure that the supply voltage is the same as the luminaire voltage.
Do not install where the marked operating temperatures exceed the ignition temperature of the hazardous atmosphere.
Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
All gasket seals must be clean and undamaged.
Use proper supply wiring as specified on the luminaire nameplate.
Before dismounting, electrical power to the luminaire must be turned off. Keep tightly closed when in operation.

DIMENSIONS

FIGURE 1

Driver Housing Bolt (Qty. 8)
Upper Driver Housing
Lower Driver Housing
LED Housing
Set Screw

406.4
Ø 16.0

296.9
11.7

339.7
Ø 13.4

322.4
12.7

153x512

38x23
INSTALLATION

Mounting Modules
1. To prevent galling, lightly lubricate all mounting module threads using Crouse-Hinds HTL lubricant.
2. Refer to the mounting module nameplate for the supply wire temperature rating.

WARNING
To avoid explosion, seal luminaire conduit within the distance given in Table 1, local electrical code requirements, and NEC Article 501 (CEC Section 18).

<table>
<thead>
<tr>
<th>Module</th>
<th>EXTERNAL SEALING REQUIREMENTS</th>
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</thead>
<tbody>
<tr>
<td>EVSP Pendant</td>
<td>EVSC Ceiling</td>
</tr>
<tr>
<td>EVSJ Stanchion</td>
<td>EVS Wall</td>
</tr>
<tr>
<td>EVSA Adapter + EVMP Pendant</td>
<td>EVSA + EV Ceiling</td>
</tr>
<tr>
<td>EVSA + EVMJ Stanchion</td>
<td>EVSA + EV Wall Bracket</td>
</tr>
<tr>
<td></td>
<td>EVS Wall</td>
</tr>
</tbody>
</table>

To prevent electric shock, isolating fixture hangers must not be used in installations where the conduit system is used as the grounding connection.

Pendant mounting module installation:
Lightly lubricate hub threads with Cooper Crouse-Hinds HTL lubricant. Thread the pendant mount onto the conduit until wrench-tight.
Tighten hub locking screw to conduit to 40 lb.-in. (4.5 N-m).

Stanchion mounting module installation:
Hub mounting thread is 1-1/2 NPT.
Lightly lubricate hub thread using Crouse-Hinds HTL lubricant. Thread stanchion mounting module on conduit and torque until wrench-tight.
Tighten hub locking screw to conduit to 40 lb.-in. (4.5 N-m).

Ceiling mounting module installation:
Secure the ceiling mount to the structure using four 5/16" fasteners (not supplied).
Lightly lubricate hub threads using Crouse-Hinds HTL lubricant. Thread conduit into the mounting module hubs until wrench-tight. Install pipe plugs (supplied) into unused conduit openings and torque firmly.

Wall mounting module:
Secure the wall mounting module to the structure using two 3/8" fasteners (not supplied).
Lightly lubricate hub threads using Crouse-Hinds HTL lubricant. Thread conduit into the mounting module until wrench-tight. Install pipe plugs (supplied) into unused conduit openings and torque firmly.

Wiring
1. Remove connection block from mounting module by removing two chrome-colored screws. Pull field wiring into the mounting module.
2. Connect connection block wires to supply wires per the attached wiring diagrams using methods that comply with all applicable codes.
3. Attach circuit ground wire to GREEN ground wire in the mounting module. If separate ground conductor is not used in wiring system, ground wire in mounting module must be capped or removed.
4. Attach ungrounded primary supply wire to BLACK connection block conductor and other supply wire to RED connection block conductor.
5. Tighten all electrical connections securely.
6. Insert connection block into mounting module, and install the two mounting screws. See Figure 7.
7. Apply a small amount of HTL® lubricant to threads. Thread luminaire assembly completely into the mounting module. Tighten locking screw on mounting module head to 40 lb.-in. (4.5 N-m).

**WARNING**

To maintain explosionproof integrity, make sure all threads are fully engaged.

8. Turn power on.

**GUARD INSTALLATION**

Optional guards:
- Wire P71

1. Slip wire guard on the LED housing (see diagram below).
2. Tighten the screw.

**MAINTENANCE**

1. Perform visual, electrical, and mechanical inspections on a regular basis. The environment and frequency of use should determine this. However, it is recommended that checks be made at least once a year. We recommend an Electrical Preventive Maintenance Program as described in the National Fire Protection Association Bulletin NFPA No. 70B: Recommended Practice For Electrical Equipment Maintenance (www.nfpa.org).

2. The lens should be cleaned periodically to ensure continued lighting performance. To clean, wipe the lens with a clean, damp cloth. If this is not sufficient, use a mild soap or a liquid cleaner such as Collinite NCF or Duco #7. Do not use an abrasive, strong alkaline, or acid cleaner. Damage may result.

3. Visually check for undue heating evidenced by discoloration of wires or other components, damaged parts, or leakage evidenced by water or corrosion in the interior. Replace all worn, damaged, or malfunctioning components, and clean gasket seals before putting the luminaire back into service.

4. Electrically check to make sure that all connections are clean and tight.

5. Mechanically check that all parts are properly assembled.

6. To prevent heat build-up, remove dust from the fins on the LED housing, using a soft brush or air pressure.

**REPLACEMENT PARTS**

Crouse-Hinds EVLL HAZARD•GARD® LED Luminaire are designed to provide years of reliable lighting performance. However, should the need for replacement parts arise, they are available through your authorized Crouse-Hinds distributor. Assistance may also be obtained through your local Crouse-Hinds representative.

Crouse-Hinds Sales Service Department, P.O. Box 4999, Syracuse, New York 13221, Phone (315) 477-7000.
FIELD ASSEMBLED LUMINAIRES - EVLL HAZARD-GARD® LED SERIES LUMINAIRES

A complete EVLL luminaire consists of: an EVLL driver-led enclosure, a mounting module, with or without guard and/or reflector.

WIRING DIAGRAMS

- DRIVER 1
- UNV1/UNV34

- DRIVER 2
- UNV1/UNV34

100V to 277VAC 50 or 60 Hz or 180V to 250VDC Input
347V to 480VAC 50 or 60Hz Input

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds "Terms and Conditions of Sale", and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.

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IF 1635
Revision 4
Revised 01/15
Supersedes 09/12