LL48 Linear LED Luminaires
Installation & Maintenance Information

APPLICATION
LL48 Linear LED Luminaires are suitable for use in the following hazardous (classified) areas as defined by the National Electrical Code (NEC®).

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

Luminaire construction is designed for use indoors and outdoors in marine and wet locations, where moisture, dirt, corrosion, vibration, and rough usage may be present.

NEC/CEC
- Class I, Division 2, Groups A, B, C, D
- Wet location, NEMA 4X

UL Standards
- UL 844 Hazardous (classified)
- UL 1598 Luminaires, UL 1598A Marine

CSA Standards
- CSA C22.2 No. 137

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.

WARNING
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.
- To avoid burning hands:
  - Make sure lens and housing are cool when performing maintenance.

APPLICATION
LL48 supplied with a choice of voltages:
100-277VAC 50/60 Hz

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Application Category</th>
<th>Class I, Division 2, Groups A, B, C, D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IP66 NEMA 4X</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-35°C to +55°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-50°C to +60°C</td>
</tr>
<tr>
<td>Standard Conduit Opening</td>
<td>1/2&quot; NPT and M20 x 1.5</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>100-277VAC 50/60 Hz</td>
</tr>
</tbody>
</table>

INSTALLATION
OPENING LIGHTING FITTING
Open all screws with M3 hex driver and remove frames and glass.

SUPPLY WIRING CONNECTION
Use Class I, Division 2 wiring methods in accordance with the NEC and CEC.

CONNECTING WIRE
Connect the conductors to the terminals PE, N, L in accordance with the terminal marking (see wiring diagram).

CLOSING LIGHTING FITTING
Fasten all screws with driver.

OPERATION
Before operation, check that the light has been properly installed according to the operating instructions and other existing regulations.

MAINTENANCE

To avoid electric shock:
- Ensure to cut all power before installation and maintenance, and during the progress. A wiring system with grounding means should be used.

During maintenance, the parts should be checked:
- Check the shell and the protective cover to see if there are any cracks or damage
- Check the pad to see if it is in good condition
- Check the terminal blocks and empty plugs to see if they are firmly secured

Note: When there is discrepancy between these instructions and regulations stipulated or used by the state, regulations stipulated or used by the state should be adhered to.

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.

REPLACEMENT PARTS
Cooper Crouse-Hinds LL48 Linear LED Luminaires are designed to provide years of reliable lighting performance. However, should the need for replacement parts arise, they are available through your authorized Cooper Crouse-Hinds distributor. Assistance may also be obtained through your local Cooper Crouse-Hinds representative.

Cooper Crouse-Hinds Sales Service Department, P.O. Box 4999, Syracuse, New York 13221, Phone (315) 477-7060.
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 Cooper 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.