Flood LED Floodlight
NFMV Series 50L Industrial LED Floodlight
Installation & Maintenance Information

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

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

IEC STANDARDS:
• IEC 60079-0:2011/EN60079-0:2012+A11:2013
• IEC 60079-31:2008/EN60079-31:2009
• IEC 60598-1:2008/EN60598-1:2008
• IEC 61184, IEC 60238, IEC 60400, IEC 61347-1,
  IEC 61347-2-1, IEC 61347-2-2, IEC 61347-2-3,
  IEC 61347-2-4, IEC 61347-2-7, IEC 61347-2-8,
  IEC 61347-2-9, IEC 61048, IEC 60196,
  IEC 60927, and IEC 60998-2-4.

LED floodlights are supplied for use with a choice of voltages:
• 100-277 VAC, 50/60 Hz and 108-250 VDC
• 277-480 VAC, 50/60 Hz

LED floodlights are compliant with the regulation on the assessment of product compliance for explosive atmospheres according to INMETRO Directive No. 179/2010 and compliant with IEC Standards 60079-0:2007 and 60079:2010.

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

SPECIAL CONDITIONS OF SAFE USE
DO NOT OPEN WHEN ENERGIZED
POTENTIAL ELECTROSTATIC CHARGING HAZARD
“To reduce the risk of ignition due to electrostatic discharge, avoid contact with the luminaire while an explosive atmosphere is present. Clean only with a damp cloth.”

Do not aim light 90° past or before vertical (see Figure 3).

INSTALLATION
Mounting

YOKE MOUNT – POST MOUNT USING FLOODLIGHT YOKE ONLY
1. Select a durable, corrosion-resistant mounting surface capable of supporting the fixture’s 106 lb. (48.1 kg.) weight and cantilevered mass (as applicable) (see Figure 1).

WIRING
Wiring the Floodlight
1. All components in the fixture are pre-wired so only line in, neutral and ground need to be connected in the fixture to the terminals per the wiring diagrams using methods that comply with all applicable codes.
Use 16 AWG (1.3mm²) minimum for grounding wires. Use 18 AWG (0.82mm²) minimum for common and line wires. Use 75°C min. and 600V min. supply cord with outer sheath diameter in accordance with Table 1. Terminate the equipment grounding conductor (green) first, the common (white) next, and finally, the line voltage (black) last. Secure all electrical connections and wiring entry glands (see Figure 2).

### Table 1

<table>
<thead>
<tr>
<th>Gland Name</th>
<th>PFM50L ORDERING SUFFIX</th>
<th>THREAD TYPE</th>
<th>CABLE DIAMETER RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP816604</td>
<td>M20</td>
<td>M20 x 1.5</td>
<td>8.5 - 16.0mm (0.34 - 0.62 in)</td>
</tr>
<tr>
<td>CAP816784</td>
<td>M25</td>
<td>M25 x 1.5</td>
<td>8.5 - 16.0mm (0.34 - 0.62 in)</td>
</tr>
</tbody>
</table>

2. Ensure gasket joint, back cover and driver housing surfaces are clean and free of damage and debris. Put back cover in place on driver housing and start all eight (8) back cover screws hand tight. Initially, torque back cover screws to 40 in.-lbs. (4.5 N-m) in sequence of A-B-C-D-E-F-G-H as shown in Figure 4. Next, torque back cover screws up to 79 in.-lbs. again in sequence of A-B-C-D-E-F-G-H. Finally, torque screws through A-B-C-D-E-F-G-H sequence one final time and ensure torque values are at 79 in.-lbs. (8.9 N-m).

3. To make final vertical adjustment, loosen the pivot bolts on the floodlight yoke to position floodlight at the desired angle (limited to 60 degrees forward and 45 degrees back, as shown in Figure 3).

4. Rotate the floodlight housing to the desired position.

5. Tighten the two (2) 1/2"-13 bolts to 45 ft.-lbs. (61.0 N-m). Tighten the 5/16"-18 bolts in the adjustment slots to 12 ft.-lbs. (16.3 N-m).

6. Turn power on.

### MAINTENANCE

- 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 70B: Recommended Practice for Electrical Equipment Maintenance (www.nfpa.org). Use a damp cloth when cleaning floodlight surfaces.

- 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. Do not use an abrasive, strong alkaline, or acid cleaner. Damage may result.

- 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.

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

- Mechanically check that all parts are properly assembled.

### REPLACEMENT PARTS

Eaton’s Crouse-Hinds Business LED floodlights 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 or the Crouse-Hinds Sales Service Department, 1201 Wolf Street, Syracuse, New York 13208, Phone 866-764-5454.
VISOR INSTALLATION INSTRUCTIONS

1. Remove power from floodlight.
2. Place floodlight face up.
3. Carefully align visor with two (2) screw holes at the top of the fixture shown in the image above.
4. Install screws provided with visor, taking care to not scratch the finish of the floodlight. Torque to 80 in.-lbs. (9.0 N-m).
5. Install floodlight per above instructions.

NOTE: Visor can be installed before or after floodlight has been in operation.

GUARD INSTALLATION INSTRUCTIONS

1. Remove power from floodlight.
2. Place floodlight face up.
3. Carefully align guard with four (4) screw holes on each side of the fixture shown in the image above.
4. Install screws provided with guard, taking care to not scratch the finish of the floodlight. Torque to 80 in.-lbs. (9.0 N-m).
5. Install floodlight per above instructions.

NOTE: Guard can be installed before or after floodlight has been in operation.

NOTE: Visor and guard can both be used on a floodlight at the same time. Visor and guard are always installed in the field and are not factory installed.