

# CHAMP® LED Luminaires PVM Series LED Fixtures

## Installation & Maintenance Information

Crouse-Hinds  
by **EATON**

IF 1677

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

### APPLICATION

Champ® PMV Series Luminaires are suitable for use in the following areas as defined by the National Electrical Code (NEC®) and CE.

Refer to the luminaire nameplate for specific maximum ambient temperature suitability.

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.

### PMV:

### NEC/CE

- Wet location, Type 4X, IP66

### UL Standards

- UL1598 Luminaires, UL1598A Marine
- UL8750
- UL50, UL50E

### CSA Standards

- CSA C22.2 No. 250.0-08

### Input Voltage:

100-277 VAC 50/60 Hz  
347-480 VAC 50,60 Hz  
108-250 VDC 50/60 HZ

#### ⚠ WARNING

To avoid the risk of fire 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.

#### To avoid product degradation:

Make sure the supply voltage is the same as the luminaire voltage.

Do not operate in ambient temperatures above those indicated on the luminaire nameplate.

Use proper supply wiring as specified on the luminaire nameplate.

All gasket seals must be clean.

Keep tightly closed when in operation.

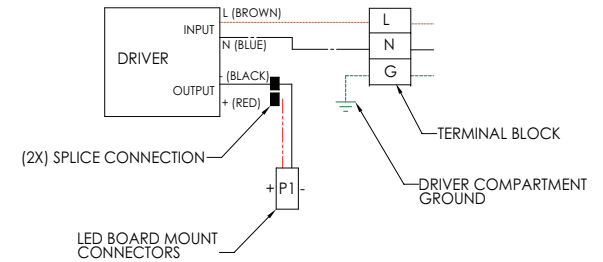
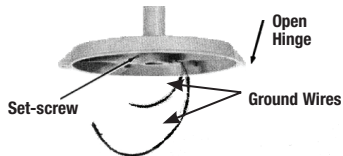
### WIRING

- Pull field wiring into cover module.
- Close all unused conduit entries with conduit plugs provided. To prevent galling and to ensure water-tightness, lubricate conduit plugs with Cooper Crouse-Hinds HTL lubricant before installing, and secure wrench-tight with at least five (5) full threads engaged (42-52 ft.-lb. for 3/4" plugs, and 58-68 ft.-lb. for 1" plugs).
- Hang LED luminaire on the cover module hinge hook. See Figure 2a.
- Connect supply wires to luminaire wire leads or terminal block per the attached wiring diagrams using methods that comply with all applicable codes. See Figure 2b. Tighten all electrical connections.
- Close driver housing onto cover module, making sure that all wires are safely inside driver housing. Tighten captive closing screw to 30 in.-lbs. (3.4 N-m). Ensure two (2) bosses on driver housing are in contact with cover module.
- Turn power on.

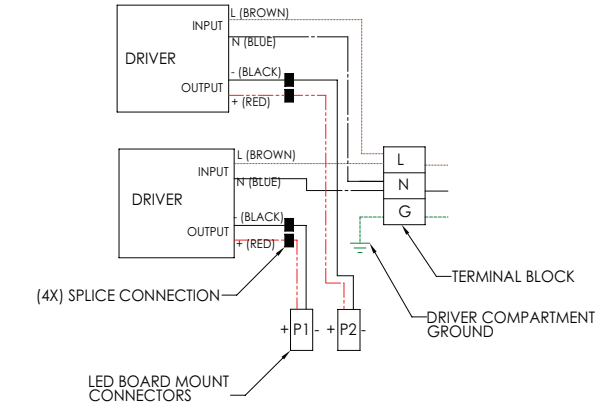


FIGURE 2a

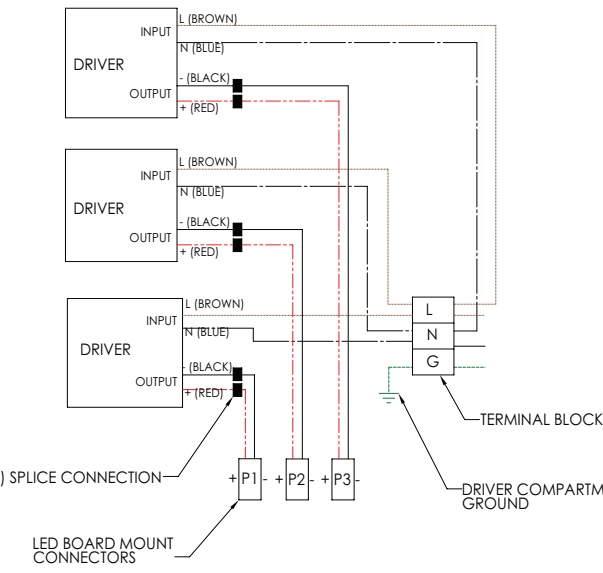
FIGURE 1



WIRING DIAGRAM  
3L CONFIGURATION



WIRING DIAGRAM  
5L CONFIGURATION



WIRING DIAGRAM  
7L-11L CONFIGURATION

FIGURE 2b

## WIRE GUARD INSTALLATION

Loosen but DO NOT completely remove wire guard screw. If already loosened move to next step.

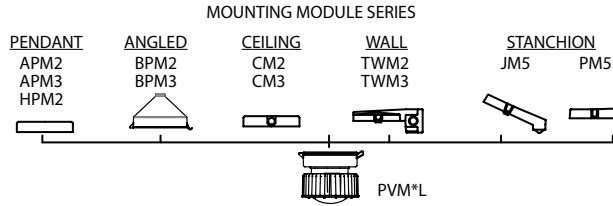
Set wire guard in place by pushing it over the bottom rim of the fixture which is on the lowest casting until it sits in place above that rim. Ensure that the wire guard is in place around the complete bottom and is not partially in place above the rim.

Tighten the screw attached to wire guard until guard is securely attached to bottom casting. The screw will be tight enough when the wire guard can no longer easily rotate on the fixture.

**NOTE:** The sheet metal tabs which the screw goes through do not need to be touching for the guard to be securely fastened; the wire guard will be secure without those two tabs touching one another.

## FIELD ASSEMBLED FIXTURES

### Champ® PMV Series Lighting Fixtures



### MOUNTING MODULE NOTES:

- 2: indicates 3/4" NPT thread
- 3: indicates 1" NPT thread
- 5: indicates 1-1/2" thread
- Pendant, angled, ceiling, and stanchion mounts have one (1) conduit entry; ceiling and wall mounts have five (5) conduit entries

## 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](http://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. If the lens is removed from the fixture, the lens gasket must be replaced to maintain restricted breathing ratings.

## REPLACEMENT PARTS

Crouse-Hinds PMV Series Champ luminaires 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.

## 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 globe or refractor and lamp are cool when performing maintenance.

## INSTALLATION CHECKLIST

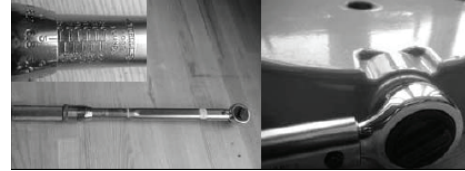
1. Verify sufficient HTL lubricant is on conduit plugs (recommend approximately 1/8" bead around the first thread of plug) and that all unused conduit entries on the cover module are closed with lubricated plugs.



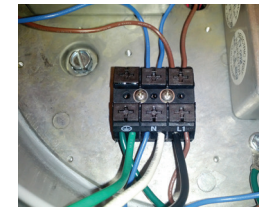
2. Verify conduit plugs are installed to at least five (5) full threads into the cover module conduit entries.



3. Verify installed conduit plugs are torqued to 42-52 ft.-lbs. for 3/4" plugs and 58-68 ft.-lbs. for 1" plug. Making sure at least 5 full threads are engaged.



4. Verify supply wires are connected to luminaire wire leads (or terminal block) per wiring diagrams.



5. Verify all electrical connections are tightened.



6. Verify all wires are safely and neatly inside driver housing and not on top of wire terminal. Close driver housing onto cover module.



7. Verify captive closing screw is tightened to 30 in.-lbs. (3.4 N-m) and two (2) bosses on driver housing are in contact with cover module.



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.

**Crouse-Hinds**  
by **EATON**

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