**Application**

Champ® VMV and NVMV Series Luminaires are suitable for use in the following hazardous (classified) areas as defined by the National Electrical Code (NEC®). 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.

**VMV:**
- NEC/CEC
  - Class I, Division 2, Groups A, B, C, D
  - Class II, Groups E, F, G
  - Class III
  - Similar presence
  - Wet location, Type 4X

**UL Standards**
- UL 844 Hazardous (classified)
- UL1598 Luminaires, UL1598A Marine

**CSA Standards**
- CSA C22.2 No. 137

**NVMV:**
- IEC/EN/ATEX
  - Ex eX eX 10.0008
  - Ex nA IC T4 Sc Texp -30°C to +40°C
  - Ex nA IC T3 Sc Texp -30°C to +55°C
  - Ex nA IC T3 Sc Texp -30°C to +40°C
  - Ex tB IEC61800-5-2 Db IP66 Texp -30°C to +40°C
  - Ex tB IEC61800-5-2 Db IP66 Texp -30°C to +40°C

**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.

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

**Installation**

**Mounting**

1. Mount the cover module in its support position.
   - Ceiling and wall mount: mark and drill desired location on mounting surface. Secure with 1/4" (6mm) bolts or lag screws (not provided).
   - Pendant, stanchion mount: securely thread onto the appropriate NPT size conduit. Tighten set-screw located in the conduit hub. See Figure 1.
   - Cooper Crouse-Hinds HLT thread lubricant must be added to the conduit threads to prevent water from entering the fixture.

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

**WARNING**

To avoid explosion:

Make sure 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.
Use proper supply wiring as specified on the luminaire nameplate.
All gasket seals must be clean.

Before opening, electrical power to the luminaire must be turned off. Keep lightly closed when in operation.

**Wiring**

1. Pull field wiring into cover module.
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6. Turn power on.
FIELD ASSEMBLED FIXTURES
Champ® VMV Series Lighting Fixtures, 50-140 Watt
Complete lighting fixture consists of cover, LED luminaire.

WIRING
Wire per wiring diagram and per required electrical codes.

INSTALLATION / MOUNTING OF VMV11L347/480 K1
This needs four (4) mounting bolts (provided by others) to attach the box to a surface or it could be conduit supported. (See IF 388 for specific mounting instructions).

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. 79B: 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 VMV and NMV 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 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) 477-7000.

LED MODULE REPLACEMENT INSTRUCTIONS
1. Turn off electrical power to the luminaire before opening.
2. Loosen captive closing screw, open luminaire, and leave hanging on cover module hinge hook.
3. Disconnect supply wire from luminaire wire leads and remove luminaire from cover module.
4. At workbench, remove wire nut connections from both LED drivers’ DC outputs to LED module (see Step 1).
5. Unthread the three (3) housing bolts using a 3/16” hex tool; do not remove bolts from assembly.
6. Carefully separate the heat sink/driver housing from the LED module, pulling the LED wires through the bushing in the driver housing.
7. Remove any gasket material from the bottom of the heat sink with a shop rag (see Step 2).
8. Place new LED module on workbench and inspect gasket to ensure proper sealing during assembly (see Step 3).
9. Gently place heat sink/driver housing into LED module while feeding the paired wires from the LED module through the bushing in the driver housing, being sure to align the bolts with the tapped holes in the LED module.
10. Thread the three (3) housing bolts into the LED module using a 3/16” hex tool. Torque bolts to 50 in.-lbs. (5.7 N-m).
11. Use supplied wire nuts to connect LED driver DC output to LED module wires, noting correct polarity.
12. Mount and wire luminaire per Installation Instructions.

REPLACEMENT PARTS
Table provides list of parts for Champ® VMV Series Lighting Fixtures, 50-140 Watt.

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 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 56-68 ft.-lbs. for 1” plug.
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.

MOUNTING AND WIRING OF VMV11L347/480 K1

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