APPLICATION
Champ® DMVIG Series luminaires are suitable for use in the following hazardous (classified) areas as defined by the National Electrical Code (NEC®), Canadian Electrical Code (CEC), and International Electrotechnical Commission:
• Class I Division 2, Groups A, B, C, D; Class I Zone 2 II
• Class I, Zone 2, AEx nR II, Ex nR II
• Class II, Division 1, Groups E, F and G (85 watt luminaire only)
• IEC Zone 2, Ex nR II

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

DMVIG series luminaire Type 4X / IP66 construction is designed for use indoors and outdoors in Marine and Wet locations, where moisture, dirt, corrosion, vibration and rough usage may be present.

DMVIG series luminaires are designed for 100-120V, 50-60Hz or 200-277V, 50-60 Hz and are furnished complete with one Induction Lighting System lamp, power coupler and high frequency generator in either 85W or 165W.

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 globe, refractor, or reflector lens and lamp 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 5/16” bolts or lag screws (not provided).
   • Pendant, Stanchion and Quad mount: Securely thread onto the appropriate NPT size conduit. Tighten setscrew located in the conduit hub. See figure 1.
2. Unthread globe, remove cardboard sleeve from lamp, and reinstall globe. Cardboard sleeve is for shipping purposes only. Do not energize lamp with sleeve on lamp.

Note: If mounting by pendant, please refer to NEC Article 501.130(B)(3) - Pendant Luminaires (Fixtures) before continuing.

Note: If luminaire is restricted breathing (suffix S826), refer to IF 1391 before continuing.

Wiring
1. The DMVIG Champ luminaire is furnished complete with the Induction Lighting System, which consists of 3 parts:
   a) Lamp (glass bulb)
   b) Power Coupler
   c) HF (high frequency) Generator

   For proper operation the lamp must be properly seated on the power coupler and, for heat dissipation, both the power coupler and HF generator must be firmly mounted to luminaire. To make sure nothing has loosened in shipment, check that the lamp is seated properly and that the four power coupler and four HP generator mounting screws are tightened to 20 lbs.-in. (2.3 N-m). Connect the green ground wire that is attached inside the ballast housing to incoming ground. Connect supply wires to the HF generator as illustrated in the wiring diagram on page 4 of these instructions.
2. Hang luminaire housing on the cover module hinge hook. See figure 2.
3. Pull field wiring into cover module.
4. Close all unused conduit entries with conduit plugs provided. To prevent galling, lubricate conduit plugs with Cooper Crouse-Hinds HTL lubricant before installing. Tighten plugs securely with at least three full threads engaged.
5. Connect supply wires to luminaire wire terminals per the attached wiring diagrams using methods that comply with all applicable codes. Tighten all electrical connections.
6. Close luminaire housing onto cover module making sure that all wires are safely inside and positioned away from the ballast area. Tighten captive closing screw to 30 lbs.-in. (3.5 N-m).
10. Install reflector and wire guard (optional). See the instructions that follow.
11. Turn power on.

WIRE GUARD INSTALLATION
1. To install wire guard, place over globe and press into position over retaining bosses on the luminaire housing adaptor ring.
2. To remove guard, carefully pry open guard at the retaining bosses and pull off.

INDUCTION LAMP SYSTEM REPLACEMENT

The DMVIG Luminaire uses an Induction Lighting System, which has an average life of up to 100,000 hours (depending on ambient temperatures). As such, this luminaire should require minimal lamp system replacement, if at all.

When an induction lamp system no longer functions, it will typically be the HF generator that no longer operates and not the lamp or power coupler. However, due to the end-of-life lumen depreciation characteristic of the induction system, we recommend that the entire system be replaced (all 3 components) not just the generator.

NOTE
If you do decide to replace the components - Refer to the following instructions for replacing the lamp and HF generator.

Cooper Crouse-Hinds does not recommend replacing the power coupler. If the power coupler needs to be replaced, please replace the entire fixture.

LAMP REPLACEMENT
1. Disconnect power to luminaire and allow to cool for 15 minutes.
2. For luminaires with G303 globe, unthread and remove globe for access to lamp. It is not necessary to remove the guard.
3. Remove the induction lamp from the power coupler. Refer to the instructions supplied with the replacement induction lamp system.
4. Install the lamp over the power coupler (See Induction Lighting System instruction sheet).
5. Thoroughly clean or replace the globe gasket seal.
6. Apply a small amount of HTL® Lubricant to the threads of the globe/guard.
7. Thread the globe/guard into the luminaire housing and hand tighten securely. For more information refer to the GLOBE AND GUARD INSTALLATION section.
8. Restore power.

CAUTION
To avoid shortened lamp life, power coupler failure, wiring faults, or HF generator failure, install the lamp onto power coupler firmly and follow completely the instructions supplied with the replacement induction lamp.

To avoid injury, guard against lamp breakage.

HF GENERATOR REPLACEMENT
1. Disconnect power to luminaire and allow to cool completely.
2. Remove the ballast housing screw and lower the ballast housing.
3. Disconnect the supply wires and the power coupler cable at the HF generator.
4. Remove the HF generator from the mounting block by removing the four screws. HF generator should now be free.
For 165W Luminaire only -
Inspect the heat conductive pad that is mounted underneath the HF generator. If damaged, this pad should be replaced.
5. Using the existing screws/bolts, install the new HF generator in the reverse order of the above steps. To insure proper heat dissipation, make sure the HF generator is seated flat against its corresponding mount and tighten screws to 20 lbs.-in. (2.3 N-m)

HF generator assembly must be firmly attached to the luminaire. The new Induction Lighting System must be the identical type, size, voltage, and wattage as marked on the luminaire nameplate.
6. Restore power.
REFLECTOR INSTALLATION

Both dome and 30° angle reflectors incorporate an innovative design that requires no tools or attachment hardware.

To install:
1. Place the reflector in position on the luminaire housing adapter ring. When correctly placed, all three tabs of reflector will rest on areas marked "Place Reflector Tab Here" on adapter ring. See figure 3.
2. Rotate reflector clockwise so that the three tabs slide under captivating bosses on adapter ring. See figure 4.
3. Continue to rotate reflector clockwise until reflector tabs engage final captivating bosses and the reflector "snaps into position. See figure 5.
4. When correctly installed, the position labels inside the reflector will be aligned with the "STOP" indicator on adapter ring.
5. The reflector can be removed by rotating counterclockwise until the three reflector tabs are free of the captivating bosses. See figure 6.

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 No. 70B: Recommended Practice For Electrical Equipment Maintenance (www.nfpa.org).
- The globe (and guard and reflector when used), refractor or reflector lens should be cleaned periodically to insure continued lighting performance. To clean, wipe the reflector, then the globe 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.
- 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 to make sure that all parts are properly assembled.

REPLACEMENT PARTS

Cooper Crouse-Hinds DMVIG Series 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 or the Cooper Crouse-Hinds Sales Service Department, P.O. Box 4999, Syracuse, New York 13221, Phone 315/477-7000.

<table>
<thead>
<tr>
<th>Induction Lamp (Discharge Vessel)</th>
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<tr>
<td>85 watt</td>
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<tr>
<td>165 watt</td>
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<table>
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<tr>
<th>HF Generator</th>
<th>Catalog Number</th>
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<tr>
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<td>P/N 22A01-003</td>
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<td>85 watt, 200-277V</td>
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<td>165 watt, 100-120V</td>
<td>P/N 22A01-006</td>
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<td>165 watt, 200-277V</td>
<td>P/N 22A01-005</td>
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Conductive Pad
(For 165W Luminaire only) P/N 0305750
FIELD ASSEMBLED LUMINAIRES

DMVG Series Luminaires.

Complete luminaire consists of cover, luminaire housing and globe with or without guard or reflector.

WIRING DIAGRAM

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.