APPLICATION

Champ® VMVIG 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 (IEC):

- Class I Division 2 Groups A, B, C, D; Class I Zone 2 II
- Class I Zone 2, AEx nR II, Ex xR II
- 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).

VMVIG series luminaire 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.

VMVIG series luminaires are supplied for 120V 50-60Hz or 240V 50-60 Hz and are furnished complete with one Philips QL Induction Lighting System in 55W.

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 or refractor and lamp are cool when performing maintenance.

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.

Install luminaire with lamp base up within 25º of vertical.

Use only the Philips QL Lighting System of the wattage specified on the luminaire nameplate.

All gasket seals must be clean.

Keep tightly closed when in operation.

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.

Wiring

1. The VMVIG Champ-Pak luminaire is furnished complete with the Philips QL 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 HP generator must be firmly mounted to luminaire. To make sure nothing has loosened in shipment, check that the lamp is seated properly and both the power coupler and HP generator mounting screws are tight (20 in.-lbs.). 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.

For additional information specific to the QL Lighting system itself, refer to the Philips Lighting QL System Instruction Sheet supplied with the luminaire.
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 leads (or terminals) per the 
   attached wiring diagrams using methods that comply with all 
   applicable codes.  See figure 2.  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 in.-lbs (3.4 N-m).
7. Turn power on.

GLOBE AND GUARD INSTALLATION

1. VMVIG Champ® series luminaire globe cat. no. G24 uses an 
   integral guard cat. no. P21.  Thread segments of both guard and 
   globe are of unequal length (keyed) to insure proper globe and 
   guard thread match upon assembly.  The clip that is attached to the 
   guard helps to secure the guard to the globe.  See figure 3.
2. To assemble, align correctly, then push globe and guard together.
3. Apply a small amount of HTL® Lubricant to the threads of globe 
   and guard.
4. Thread the globe and guard assembly as a unit into the ballast 
   housing.  Hand tighten securely.

QL LAMP SYSTEM REPLACEMENT

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

When a QL 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 
QL System, Philips recommends the entire system be replaced (all 3 
components) not just the generator.

When replacing the QL lamp system, refer to these instructions and the 
instructions supplied with the replacement QL Lighting System.

1. Disconnect power to luminaire and allow to cool completely.
2. Remove globe or refractor and the guard if used.
3. Remove the QL lamp from the power coupler.  Refer to the 
instructions supplied with the replacement QL Lamp system.
4. Remove the ballast housing screw and lower the ballast housing.
5. Disconnect the supply wires and the power coupler cable at the HF 
generator.
6. Remove the two screws connecting the HF generator mounting 
   plate to the ballast housing.
7. Remove the HF generator from the mounting plate by removing the 
   four screws.  HF generator should now be free.
8. Remove the two screws on the power coupler assembly.  Once, 
   inside, remove 4 more screws to separate the power coupler from 
   the power coupler mounting plate.  NOTE:  Power coupler is 
   attached with M4 metric screws.  Do not mix hardware.
9. Perform cleaning and inspection as noted in the MAINTENANCE 
   section.
10. Using the existing screws/bolts, install the new power coupler and 
    HF generator in the reverse order of the above steps.  To insure 
    proper heat dissipation, make sure the power coupler and HF 
    generator are seated flat against their corresponding mounts  
    and tighten screws to 20 in.-lbs.  HF generator and power coupler 
    assemblies must be firmly attached to the luminaire.  The new 
    QL Lighting System must be the identical type, size, voltage, and 
    wattage as marked on the luminaire nameplate.
11. Install the lamp over the power coupler (See QL Lighting System 
    instruction sheet).
12. Thoroughly clean or replace the globe gasket seal.
13. Apply a small amount of HTL® Lubricant to the threads of the 
    globe/guard.
14. Thread the globe/guard into the luminaire housing and hand tighten 
    securely.  For more information refer to the GLOBE AND GUARD 
    INSTALLATION section.
15. 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 QL Lighting System.

To avoid injury, guard against lamp breakage.
REFLECTOR INSTALLATION

1. Install dome or angle reflector by placing the keyway slots over the mounting studs on the ballast housing and rotating clockwise until it “snaps” into position.

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/refractor (and guard and reflector when used) 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 that all parts are properly assembled.

FIELD ASSEMBLED LUMINAIRES

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

REPLACEMENT PARTS

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