



# Certificate of Compliance

**Certificate:** 1842112

**Master Contract:** 151933

**Project:** 2463219

**Date Issued:** October 14, 2011

**Issued to:** Killark Electric Manufacturing Co.

3940 Dr. Martin Luther King Dr.  
St. Louis, MO 63113  
USA  
Attention: Mr. Tom Michalski

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



*D. Somma*

**Issued by:** D. Somma, C.E.T.

## **PRODUCTS**

**CLASS 3428 83** - FIXTURES AND FITTINGS - For Hazardous Locations-Certified to U.S. Standards

**CLASS 3428 03** - FIXTURES AND FITTINGS - For Hazardous Locations

**Class I, Division 2, Groups A, B, C and D; Class II, Groups E, F and G; Class III:**

**Ex nA nR II:**

**Class I, Zone 2, AEx nA nR II:**

- KILLARK VM5 Series, Model Number VM-XXXXXX, rated 480 V max, 600 W max.; may be supplied with either: Globe, Enclosed Reflector, or Refractor. For use with supply wiring rated 90°C or higher.

## **Notes:**

- (1) Suffixes denote Lamp Type, Cover Type, Conduit Size, Lamp Wattage, Input Voltage and Optics.

## **APPLICABLE REQUIREMENTS**



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The following standards were used in the evaluation of the products covered under this Certificate:

CAN/CSA- C22.2 No 0-M91 - General Requirements – Canadian Electrical Code, Part II  
25-1966 - Enclosures for use in Class II, Groups E, F and G Hazardous  
Locations.

94-M91 - Special Purpose Enclosures

137-M1981 - Electric Luminaires for Use in Hazardous Locations

CAN/CSA-C22.2 No Requirements E60079-0 - Electrical equipment for explosive gas atmospheres – General

Type of protection “n” E60079-15:02 - Electrical apparatus for explosive gas atmospheres – Part 15:

ANSI/UL Standard 1598 - Luminaires

Locations 1604 - Electrical Equipment for Use in Class I and II, Div. 2, Class III Hazardous

60079-15 - 60079-15 - UL Standard for Safety Electrical Apparatus for Explosive Gas  
Atmospheres Part 15: Electrical Apparatus with Type of Protection "n"

60079-0 - UL Standard for Electrical Apparatus for Explosive Gas Atmosphere  
Part 0 General Requirements

844 - Luminaires for Use in Hazardous (Classified) Locations

### **MARKINGS**

The equipment is marked with the following information Printed on a Certified Adhesive backed label:

- Manufacturer’s name, Trade Mark, File Number or Master Contract Number
- Catalogue number, Hazardous location rating designation, date code, the CSA Monogram with C US indicator and the following:
- “Open circuit before re-lamping”.
- Complete Electrical Ratings: Voltage, Amperes, Frequency and Wattage



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- Lamp Type, Operating Ambient: 40, 55 or 65C (where applicable) & Temperature Code
  - "CAUTION: To Prevent Ignition of Hazardous Atmospheres, Disconnect the Fixture From The Supply Circuit before opening. Keep tightly closed while circuits are alive."
  - "WARNING: To Prevent Fire Or Explosion Do Not Install Where The Marked Operating Temperature Exceeds Ignition Temperature Of Hazardous Atmospheres"
  - "CAUTION: See Instruction Sheet K1281 for Installation Operating And Maintenance Instructions"
- "Suitable For Wet Locations"
- Rated ambient temperature, operating temperature or code, and supply wiring temperature markings for Class I and Class II, see Table 1.
  - For ballast tanks marked "AEx nA nR II", rated ambient temperature, operating temperature, and supply wiring temperature markings, refer to descriptive report under Table 2.
  - For ballast tanks marked Ex nR nA; AEx nR, rated ambient temperature, operating temperature, and supply wiring temperature marking, refer to descriptive report under table 4.
  - May be marked with "suitable for wet location" and or IP66 except for Class I, Zone 2, AEx nA nR II/Ex nR II & Ex nR/AEx nR II.
  - OPTIONAL (When fused is installed - Not for CSA and Marine application): To be marked at the location adjacent to the fuse to be replaced. "CAUTION: Risk of Ignition of Hazardous Atmospheres- Replace only with Fuse Having The Same Voltage And Current Rating As The Existing Fuse." and "WARNING – DO NOT REMOVE FUSE WHEN ENERGIZED."
  - Fixture marked with Ex nA nR/Class I, AEx nA nR are marked with the following Caution:  
Caution for Restricted Breathing application " Globe must be securely hand tightened and periodically inspected."

Warning: Tank assemblies with SNR options ( ExnR & AExnR II luminaires must install sealed entry at mount.)