



# Certificate of Compliance

**Certificate:** 70021595 (011713\_C\_000)

**Master Contract:** 151933

**Project:** 70081038

**Date Issued:** 2016-06-02

**Issued to:** Killark Electric Manufacturing Co.  
3940 Dr. Martin Luther King Dr.  
St. Louis, Missouri 63113  
USA

**Attention:** Thomas J. 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.*



**Issued by:** *Domenic Somma*  
Domenic Somma

## **PRODUCTS**

CLASS - C342803 - FIXTURES AND FITTINGS-For Hazardous Locations

CLASS - C342883 - FIXTURES AND FITTINGS-For Hazardous Locations-Certified to U.S. Standards

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

**Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; T4, T4A or T3C; Simultaneous Exposure to: Class I, Division 2, Groups A, B, C and D & Class II, Division 1, Groups E, F and G; Class III ): Temperature Coded T3C or T4; Type 4X; Marine Rated (US Only); IPX6**

LED luminaires for use in hazardous locations:

- Series KFLH, rated 120-480 VAC, 50/60 Hz 390 Watts max, 150-250VDC, 390 Watts Max.
- Series KFL2H, rated 120-480 VAC, 50/60 Hz 780 Watts max, 150-250VDC, 780 Watts Max.

Notes:

1. Series Cat. No. KFLH/KFL2H is followed by alphanumeric suffixes denoting electrical and mechanical variations. (See Nomenclature breakdown below).
2. Maximum Ambient 40°C or 55°C as applicable (see Table 1 below for specification).



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## **APPLICABLE REQUIREMENTS**

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

CAN/CSA-C22.2 No.	0-10	-	General Requirements – Canadian Electrical Code, Part II
CAN/CSA-C22.2 No	94-M91	-	Special Purpose Enclosures
CAN/CSA-C22.2 No	60529:05	-	Degrees of Protection Provided by Enclosures (IP Code)
CAN/CSA-C22.2 No	137-M1981	-	Electric Luminaires for Use in Hazardous Locations
CAN/CSA-C22.2 No.	250 -2000	-	Luminaires
ANSI/UL Standard	1598 – 3 <sup>rd</sup> Edition	-	Luminaires
ANSI/UL Standard	1598A – 1 <sup>st</sup> Edition	-	Marine Use Electric Lighting Fixtures
ANSI/UL Standard	844 – 12 <sup>th</sup> Edition	-	Luminaires for Use in Hazardous (Classified) Locations
ANSI/IEC Standard	60529 – 2004	-	Degrees of Protection Provided by Enclosures (IP Code)
ANSI/UL Standard	50 – 11 <sup>th</sup> Edition	-	Enclosures for Electrical Equipment, Environmental Considerations
ANSI/UL Standard	8750 – 1 <sup>st</sup> Edition	-	Light Emitting Diode (LED) Equipment for use in lighting product

## **MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The equipment is marked with the following information. The following markings shall appear on an approved self adhesive backed label(s).

- Submitter's name, Trade Mark, File Number or Master Contract Number,
- Catalog number,
- Hazardous location rating designation (may be optionally marked with Zone marking e.g. (Class I, Zone 2, Groups IIA, IIB, IIC),
- Date code or serial code,
- The CSA Monogram with C US indicator,
- Complete Electrical Ratings: Voltage, Amperes, Frequency and Wattage,
- Lamp Type,



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- Supply wire temperature rating,
- Operating Ambient,
- Temperature Code per “Table 1 – Operating Temperatures”
- "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 K1414 for Installation Operating and Maintenance Instructions"
- May be marked with “SUITABLE FOR WET LOCATIONS” and/or “IPX6” and/or “Enclosure Type 4X”.
- May be marked “Marine Luminaire” [US ONLY] and “Outdoor Type” when provided with stranded wiring, and without fusing option.