



**QPS Evaluation Services Inc**  
**Testing, Certification and Field Evaluation Body**  
**Accredited in Canada, the USA, and Internationally**

<b>File</b>
<b>LR1728</b>

## CERTIFICATE OF COMPLIANCE (ISO TYPE 3 CERTIFICATION SYSTEM)

Issued to	Killark - A Division of Hubbell Inc.
Address	2112 Fenton Logistics Park Blvd. Fenton, MO 63026 USA.
Project Number	LR1728-1R1
Product	LED Luminaires for use in hazardous locations with optional Battery Backup.
Model Number	VMLX Series, with Mounting Splice Boxes: VMA2B, VMA3B, VMX2B, VMX3B, VMX6B, VMX7B, VMX8B, VMX9B, VMB2B, VMB3B, VMC2B, VMC3B, VMD4B, VMD5B, VMS4B, VMS5B, VMB8B, VMB10B VMLXC is followed by alphanumeric suffixes denoting electrical and mechanical variations. (See Nomenclature breakdown below.) and are for use on Listed Crouse Hinds Fixtures Cat. Nos. CM2, CM3, TWM2 and TWM3 Mounting Covers, Accessory: Exit Sign model: VMLXEX
Electrical Ratings	Input: 120 -277 VAC 50/60 Hz, 347-480 Vac 50/60Hz. Or 12-24 VDC/ 105 -250 VDC
Ex Markings	Class I, Division 2, Groups A, B, C and D; T3*, T3C, T4A, T4, T5. Class I, Zone 2, Groups IIC, IIB, IIA; (US only): Class II, Division 1, Groups E, F and G; T3A or T3C*; Class III; Marine Rated (US Only)
Applicable Standards	CAN/CSA-C22.2 No. 25-17 CAN/CSA-C22.2 No. 94.2:2015/ UL50E, ANSI/IEC 60529:2011 CAN/CSA-C22.2 No. 137-18, CAN/CSA-C22.2 No. 250.13:22 UL 844-2012, UL 1598-2021, UL 1598A-2000, UL 8750 2nd Ed.-2021
Factory/Manufacturing Location	Killark - A Division of Hubbell Inc. 2112 Fenton Logistics Park Blvd. Fenton, MO 63026 USA
Special Conditions of Use	SEE INSTRUCTION SHEET K1531 FOR INSTALLATION, OPERATING AND MAINTENANCE, INSTRUCTIONS.

**Statement of Compliance:** The product(s) identified in this Certificate and described in the Report covered under the above referenced project number have been investigated and found to be in compliance with the relevant requirements of the above referenced standard(s). As such, they are eligible to bear the QPS Certification Mark shown below, in accordance with the provisions of QPS's Service Agreement.  
**IMPORTANT NOTE:** Certification will be revoked if compliance to the latest versions of the standard(s) is not maintained and/or if the product/equipment is modified after certification is granted without prior written consent by QPS.



Issued By: Rob Kohuch, P. Eng.  
Senior Engineer - Hazardous Locations [Ex Products]

Signature:

Date: October 4, 2023



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81 Kelfield St., Units 8, Toronto, ON M9W 5A3 Tel: 416-241-8857; Fax: 416-241-0682  
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### ANNEX 1.

### NOMENCLATURE:

The complete luminaire catalog number is as follows:

Example: Cat. No.    VML 3 X 28 iE 30 F    6-10  
  1    2    3    4    5

**1- Series Designation-VML-X; \*VMLXC (Series Constant)****2- Tank Size \*(Not used on VMLXC)**

- 1 Small            (80W max Approx. 5000, 7000, 9000lm),
- 2 Medium        (140W max Approx. 12000, 15000, 18000lm),
- 3 Large           (250W max Approx. 23000, 28000lm)

**3- Fixture Lumen Output in 1000s of Lumens**

28- Maximum 28,000 lumens which corresponds to 250 watts. Other lower wattage fixtures are follows.  
 140W maximum on VMLXC

<b>'X--'</b>	28	23	18	15	12	9	7	5	3
<b>Watts</b>	250	200	140	120	100	75	55	40	25
<b>Lumens</b>	28000	23000	18000	15000	12000	900	7000	5000	3000

**4- Battery Backup (optional) (80W max) Size 1 and Size 2 tanks**

- iE05—500 Lumen
- iE1 – 1000 Lumen

**5- Voltage – Input supply**

- 27-- 12-24VDC
- 30 – 120 thru 277 VAC, 50/60 Hz
- 33 – 347 thru 480 VAC, 50/60 Hz
- 34 – 105 thru 250 VDC

**6- Mounting Splice Box**

- Blank= No splice box provided
- A = Pendant (VMA2B, VMA3B)
- B = Wall (VMB2B, VMB3B)
- X = Ceiling (VMX2B, VMX3B, VMX6B, VMX7B, VMX8B, VMX9B)
- C = Cone (VMC2B, VMC3B)
- D = Stanchion (VMD4B, VMD5B)
- S = Stanchion 90° (Straight) (VMS4B, VMS5B)

**7-Entry Size**

- Blank-no splice box
- 2 - ¾" NPT
- 3 - 1" NPT
- 4 - 1 ¼" NPT
- 5 - 1 ½" NPT
- 6 - ¾" NPT (5 hubs)
- 7 - 1" NPT (5 hubs)
- 8 - M20 (Metric- 4 hubs)
- 9 - M20 (Metric 5 hubs)

**8-Optics**

- Blank- Type 5-No optics
- 5W- Type 5 wide (140W max)
- T1-Type 1 (80W max)
- T3-Type III (80W max)

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**9-Guard**

G- With Guard  
 N-No Guard

**10-Globe**

Blank- Glass  
 PC – Polycarbonate Lens Clear (Glass Globe standard) (250W Max)

**11-Options**

F – Single Fuse  
 FF – Double Fuse  
 SP— Added Surge Protector  
 Px – Photocell factory installed (x = Factory Wired Voltage)  
 xH – Optional Paint (i.e. RH = Red Housing)

YYZZ – White LED Chromaticity where YY= correlated color temperature (CCT) minimum 3000K; ZZ = Color Rendering Index (CRI) maximum 95 (No value=Standard 5000K CCT 70 CRI minimum)

AMBER- Amber colored LEDs primarily used to help protect marine wildlife  
 \*PCAMBER - Phosphor Coated Amber LEDs  
 CISPR- CE Marked driver.  
 GREEN- Green colored LEDs. Primarily used to help protect migratory birds.  
 HA- High Ambient: bigger tank with lower wattage fixture for use in higher Ambient.  
 AR Angled Reflector  
 DR Dome Reflector

**Accessory**

VMLXEX: Exit Sign model:





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**Table 1 – Operating Temperatures**

Maximum temperature for battery backup fixtures is 50°C

Catalog Number	Wattage	40 ° C Ambient			55 ° C Ambient			65 ° C Ambient		
		Class I, Div. 2 Groups A,B,C & D; (Zone 2, Groups IIC, IIB, IIA) <sup>2</sup>	Class II, Div. 1 Groups E F & G	Supply Wire Temp ° C	Class I, Div. 2 Groups A,B,C & D; (Zone 2, Groups IIC, IIB, IIA)	Class II, Div. 1 Groups E F & G	Supply Wire Temp ° C	Class I, Div. 2 Groups A,B,C & D; (Zone 2, Groups IIC, IIB, IIA)	Class II, Div. 1 Groups E F & G	Supply Wire Temp ° C
VML3X2830/33/34	250	T4A	T4A	75	T3C	T4	90	--	--	--
VML3X2330/33/34	200	T4A	T4A	75	T3C	T4	90	--	--	--
VML2X1830/33/34 <sup>1 3</sup> *ECXC/18L/LE	140	T4A	T4A	75	T4	T4	90	--	--	--
VML2X1530/33/34 <sup>1 4</sup> *ECXC/15L/LE	120	T4A	T4A	75	T4	T4	90	--	--	--
VML2X1230/33/34 <sup>1</sup> *ECXC/12L/LE	100	T4A	T4A	75	T4	T4	90	--	--	--
VML3X1830/33/34 HA <sup>1 3</sup>	140	T4A	T4A	75	T4A	T4	90	T4A	T3C	90
VML3X1530/33/34 HA <sup>1 4</sup>	120	T4A	T4A	75	T4A	T4	90	T4A	T3C	90
VML3X1230/33/34 HA <sup>1</sup>	100	T4A	T4A	75	T4A	T4	90	T4A	T3C	90
VML1X930/33/34 <sup>1</sup> *ECXC/9L/LE	75	T4A	T4A	75	T4A	T4	90	--	--	--
VML1X730/33/34 <sup>1</sup> *ECXC/7L/LE	55	T4A	T4A	75	T4A	T4	90	--	--	--
VML1X530/33/34 <sup>1</sup> *ECXC/5L/LE	40	T4A	T4A	75	T4A	T4	90	--	--	--
VML1X327/30/33/34 <sup>1</sup> *ECXC/3L/LE	25	T4A	T4A	75	T4A	T4	90	--	--	--
VML2X930/33/34 HA <sup>1</sup> *ECXC/9L/LE/HA	75	T4A	T4A	75	T4A	T4	90	T4A	T3C	90
VML2X730/33/34 HA <sup>1</sup> *ECXC/7L/LE/HA	55	T4A	T4A	75	T4A	T4	90	T4A	T3C	90
VML2X530/33/34 HA <sup>1</sup> *ECXC/5L/LE/HA	40	T4A	T4A	75	T4A	T4	90	T4A	T3C	90

<sup>1</sup> T-Code Temperatures Obtained With Nearfield (Type 5W) Optics

<sup>2</sup> T-Code for Green LEDs are T3C for all ambient temperatures.

<sup>3</sup> Max ambient 40C for PC Amber at 140W.\*

<sup>4</sup> Max ambient 50C for PC Amber at 120W.\*



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