



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX QPS 15.0006X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 7	Issue 6 (2020-01-15)
Date of Issue:	2020-01-16		Issue 5 (2019-02-19)
Applicant:	<b>Killark - A Division of Hubbell Inc.</b> (Delaware) 2112 Fenton Logistics Park Blvd. Fenton MO 63026 <b>United States of America</b>		Issue 4 (2018-02-27)
Equipment:	<b>WM4L/VM4L Series LED Luminaires and Accessories</b>		Issue 3 (2016-12-22)
Optional accessory:			Issue 2 (2016-09-06)
Type of Protection:	<b>'n' 't'</b>		Issue 1 (2015-06-23)
Marking:	IECEX 15.0006		Issue 0 (2015-05-07)
	Ex nA IIC T4 Gc / Ex tb III C T83°C Db		
	WM4L /VM4L Series LED Luminaires		
	100-277 VAC; 50/60 Hz or 105-250 VDC		

Approved for issue on behalf of the IECEx  
Certification Body:

**D. Adams, P. Eng.**

Position:

**Manager, Hazardous Locations Department**

Signature:  
(for printed version)

Date:

**January 16, 2020**

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Certificate issued by:

**QPS  
Evaluation Services Inc.  
81 Kelfield St  
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Toronto, Ontario M9W 5A3  
Canada**





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Certificate No.: **IECEX QPS 15.0006X** Page 2 of 4

Date of issue: 2020-01-16 Issue No: 7

Manufacturer: **Killark - A Division of Hubbell Inc.**  
(Delaware)  
2112 Fenton Logistics Park Blvd.  
Fenton  
MO 63026  
**United States of America**

Additional manufacturing locations: **Hubbell Inc. trading as Chalmit Lighting, Victor Products and Transtar**  
388 Hillington Road  
Glasgow  
G52 4BL  
**United Kingdom**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-15:2010** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:4

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

#### Test Reports:

[CA/QPS/ExTR15.0006/02](#)  
[CA/QPS/ExTR15.0006/05](#)

[CA/QPS/ExTR15.0006/03](#)  
[CA/QPS/ExTR15.0006/06](#)

[CA/QPS/ExTR15.0006/04](#)

#### Quality Assessment Report:

[GB/SIR/QAR16.0021/03](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

WM4L / VM4L Series LED Luminaires, with heat sink: Bulb or Concave, follow by: light source output: 40 - 130 Watts or 6-18(thousand) lumens. Rated input voltage 100-277 V, 50/60 Hz, or 105-250 VDC, Optional battery backup up to 90 Min, Mounting Splice Boxes: A, B, X, C, D, S followed by: 2, 3, 4, 5, 6, 7, 8, 9. Optics – (GL)VMG25, (R5)VMR255, (R1)VMR251, (R3)VMR253, (S5)VZRG4050, (S2)VMRG4020, (ER)VMER40, (GF)VZRGF 12, Followed by G or N, and options of color temperature, TURTLE-Amber colored LEDs , or PCAMBER-Amber colored through Phosphor Coating.

Accessories: Adapter for use with WM4L/VM4L Series LED Luminaires Models: VMCHVM, VMCHVM-DEEP, VMGEH2, VMHLDS, VMHPP2, VMM2LP, VMM3KP and SPL26748.

## Note:

1. The KILLARK's fixture mount adaptor VM series has no affected on the temperature classification of the the WM4L/VM4L series LED luminaire when used together.
2. Refer to the Annex page for detail on VM fixture mount adaptor compatibility with the luminaires.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- Read Installation, Operation and Maintenance Manual first;
- Do not open when energised;
- Do not open when an explosive atmosphere is present;
- The Luminaire shall only be installed where there is a low risk of mechanical damage.
- No modification to the flame-path joints allowed without contacting the manufacturer.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

00 - Original

01 - addition of trademark name "Victor Lighting" to marking label.

02 - Re-issue the ExTR and addition of the following:

1. Add the WM4L series.
2. Add the option going from 2 drivers to 1 driver.
3. Add an alternate concave dish and bullet heat sink design.
4. Add a battery backup option.
5. Add an alternate LED option - Cree XP-L.
6. Add a new wiring scheme and LED board scheme (one board with up to 24 LEDs and 5 smaller boards with up to 8 LEDs instead of up to 16 boards with up to 4 LEDs each).

03 - revised markings and installation manuals

04 - Add Fixture mount adapter VM series for used with WM4I/VM4L series LED luminaires.

05 - Add alternate LEDs and updated the Annex page.

1. Cree's XP-G3 Series: XPGDWT-01-0000-00KE7 -- 5000K, and XPGDWT-01-000-00K7E -- 3000K
2. Cree's XP-E2 Series: XPEBPA-L1-0000-00D01 --PC Amber and XPEBAM-L1-0000-00901 -- Amber Turtle.

### Detail of Changes.

Add on alternate LED's to the existing LED WM4L/VM4L series. The newly LEDs that added to the WM4L/VM4L series are models Cree XP-G3, XP-E2 Amber and XP-E2 Phosphor Coated Amber. The nomenclature of the WM4L/VM4L also add two new suffix to address the new Amber (TURTLE) and Phosphor Coated Amber (PCAMBER).

The additional LEDs are manufactured by CREE. The physical (footprint) of the all the LEDs have not changed. Therefore, the new LEDs still can use the same printed Circuit Board.

06 – Address change for the Applicant and Manufacture location.

07 - Add on alternate Soda lime Glass Globe. All the dimensions of the VMG25 glass globe remains the same.

## Annex:

[IECEX QPS 15.0006-7 Annex.pdf](#)



# QPS Evaluation Services Inc.

Testing, Certification and Field Evaluation Body  
Accredited in Canada, the USA, and Internationally

ANNEX to IECEx QPS 15.0006 Issue No. 7,  
1. Nomenclature

Date: 2020-01-20

Item	Detail																				
Type identification	Series VM4L B 130 30 0 0 00 0 00 (Sample)																				
	<table border="1"> <tr> <td>WM4L/V4ML</td> <td>B</td> <td>130</td> <td>/E2</td> <td>30</td> <td>0</td> <td>0</td> <td>00</td> <td>0</td> <td>0</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> </table>	WM4L/V4ML	B	130	/E2	30	0	0	00	0	0	1	2	3	4	5	6	7	8	9	10
	WM4L/V4ML	B	130	/E2	30	0	0	00	0	0											
	1	2	3	4	5	6	7	8	9	10											
	1: Housing Series WM4L or VM4L.																				
	2: Type of heat sink: <b>B</b> : Bulb, or <b>C</b> : Concave																				
	3: Rated light Wattage:																				
	18 or 130 = 130 Watts																				
	14 or 105 = 105 Watts																				
	120 = 120 Watt																				
100 = 100 Watts																					
12 or 090 = 90 Watts																					
080 = 80 Watts																					
070 = 70 Watts																					
9 or 065 = 65 Watts																					
055 = 55 Watts																					
7 or 050 = 50 Watts																					
6 or 040 = 40 Watts																					
4: Battery Backup model: (blank No backup Mode) / E2 – Battery Backup																					
5: Input Voltage: <b>30</b> : 100-277 Vac, or <b>34</b> : 105-250Vdc																					
6: Mounting Type:																					
<b>A</b> —Pendant																					
<b>B</b> —Wall Bracket																					
<b>C</b> —Cone Top																					
<b>D</b> —Stanchion 25°																					
<b>X</b> —Ceiling																					
<b>S</b> —Stanchion Straight 90°																					
7: Conduit Entry:																					
<b>2</b> —3/4" NPT (A,B,C,X)																					
<b>3</b> —1" NPT (A,B,C,X)																					
<b>4</b> —1 1/4" NPT (D,S)																					
<b>5</b> —1 1/2" NPT (D,S)																					
<b>6</b> —3/4" NPT 5-Hub (X)																					
<b>7</b> —1" NPT 5-Hub (X)																					
<b>8</b> —M20 4-Hub (X)																					
<b>9</b> —M25 5-Hub (X)																					
8: Optic:																					
<b>GL</b> = Glass Globe (VMG25)																					
<b>GG</b> = Globe and Guard																					
<b>R5</b> = Refractor type 5 (VMR255)																					
<b>R3</b> = Refractor type 3 (VMR253)																					
<b>R1</b> = Refractor type 1 (VMR251)																					
<b>ER</b> = Enclosed Reflector (VMER40)																					
<b>S5</b> = 12" Spin top refractor type 5(VZRG4050)																					
<b>S2</b> = 12" Spin top refractor type 2(VMRG4020)																					
<b>GF</b> – 12" Spin-top Flat Glass Optic (VZRGF12)																					
9- Guard																					
<b>G</b> = Guard, <b>N</b> = No Guard																					
10- Options																					
<b>XXXX</b> - Four digit number referring to correlated color temperature and the color rendering Index																					
<b>TURTLE</b> -Amber colored LEDs primarily used to protect wildlife																					
<b>PCAMBER</b> -Amber colored LEDs that provide the amber color through Phosphor Coating.																					

## YOUR FULL SERVICE PARTNER IN GLOBAL CONFORMITY ASSESSMENT

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### 2. Temperature Classes

Catalog Number	Rated Ambient Temp °C	LED Type	LED Watts	"nA" IIC	"td" IIC	Supply Wire Temp Deg C
				Globe/Refractor w/ Reflector		
VM4L(B/C)13030	40	D/E/G	130	T4	83°C	75
VM4L(B/C)13030	55	D/E/G	130	T140°C	83°C	90
VM4L(B/C)10530	40	C/F/G	105	T4	83°C	75
VM4L(B/C)10530	55	C/F/G	105	T140°C	83°C	90
VM4L(B/C)10534	40	C	105	T4	83°C	75
VM4L(B/C)10534	55	C	105	T140°C	83°C	90
VM4L(B/C)10030	40	D/E/F/G	100	T4	83°C	75
VM4L(B/C)10030	55	D/E/F/G	100	T4	83°C	90
VM4L(B/C)09030	40	D/E/G/H/I	90	T4	83°C	75
VM4L(B/C)09030	55	D/E/G/H/I	90	T4	83°C	90
VM4L(B/C)08030	40	C/G/H/I	80	T4	83°C	75
VM4L(B/C)08030	55	C/G/H/I	80	T4	83°C	90
VM4L(B/C)07030	40	D/E/G/H/I	70	T4	83°C	75
VM4L(B/C)07030	55	D/E/G/H/I	70	T4	83°C	90
VM4L(B/C)06530	40	D/E/G/H/I	65	T4	83°C	75
VM4L(B/C)06530	55	D/E/G/H/I	65	T4	83°C	90
VM4L(B/C)05530	40	C/D/E/G/H/I	55	T4	83°C	75
VM4L(B/C)05530	55	C/D/E/G/H/I	55	T4	83°C	90
VM4L(B/C)05030	40	D/E/G/H/I	50	T4	83°C	75
VM4L(B/C)05030	55	D/E/G/H/I	50	T4	83°C	90
VM4L(B/C)04030	40	C/G/H/I	40	T4	83°C	75
VM4L(B/C)04030	55	C/G/H/I	40	T4	83°C	90

#### LED Types:

- A) Nichia, white, LED Model: NS9W153MT - (W = 3.675 Watts) (Rjs = 10 °C/W)
- B) Nichia, white, LED Model: NS9W153AMT - (W = 3.5 Watts) (Rjs = 10 °C/W)
- C) Nichia, white, LED Model: Nichia NVSW219B (W = 2.19 Watts) (Rjs = 6 °C/W)
- D) Cree, white, LED Model: Cree XML (W = 2.03 Watts) (Rjs = 2.5 °C/W)
- E) Cree, white, LED Model: Cree XML2 (W = 2.03 Watts) (Rjs = 2.5°C/W)
- F) Cree, white, LED Model: Cree XP-L- (W=2.03W) (Rjs = 2.1°C/W)
- G) Cree, white, LED Model: Cree XP-G3 (W = 2.0 W)(Rjs=3 °C/W)
- H) Cree, amber, LED Model: Cree XP-E2 (W = 1.8 W)(Rjs=7 °C/W) (TURTLE)
- I) Cree, PC Amber, LED Model: Cree XP-E2 (W = 2.3 W)(Rjs=9 °C/W) (PCAMBER)

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