



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx QPS 15.0010X Issue No: 3 Certificate history:
Status: **Current** Issue No. 3 (2019-08-09)
Date of Issue: **2019-08-09** Page 1 of 5 Issue No. 2 (2018-03-09)
Applicant: **Killark, A division of Hubbell Inc. (Delaware)** Issue No. 1 (2017-05-08)
2112 Fenton Logistics Park Blvd, Fenton, MO 63026 Issue No. 0 (2015-10-21)
United States of America
Equipment: **LAL, LALC, LALFP, LALE and LALFPIE series LED Luminaires**
Optional accessory:
Type of Protection: **Type of protection 'ec', Protection by enclosure 't'**
Marking: IECEx QPS 15.0010X
Ex ec IIC T4/T5 Gc / Ex tb IIIC T120°C/T95°C Db
LAL, LALC and LALFP Series, rated 120 - 277Vac, 50/60 Hz or 108-250 Vdc or 12-24 Vdc
or
LALE, LALFPIE Series, rated 120 - 277 Vac, 50/60 Hz

Approved for issue on behalf of the IECEx
Certification Body:

D, Adams, P.Eng.

Position:

Manager, Hazardous Location Department

Signature:
(for printed version)

Date:

August 9, 2019

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

QPS
Evaluation Services Inc.
81 Kelfield St
Unit 8
Toronto, Ontario M9W 5A3
Canada





IECEX Certificate of Conformity

Certificate No: IECEx QPS 15.0010X Issue No: 3
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Manufacturer: **Killark, A division of Hubbell Inc. (Delaware)**
2112 Fenton Logistics Park Blvd, Fenton, MO 63026
United States of America

Additional Manufacturing location(s):

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 apparatus 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 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2
IEC 60079-7 : 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

*This Certificate **does not** indicate compliance with electrical 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 Report:

[CA/QPS/ExTR15.0010/00](#)
[CA/QPS/ExTR15.0010/03](#)

[CA/QPS/ExTR15.0010/01](#)

[CA/QPS/ExTR15.0010/02](#)

Quality Assessment Report:

[GB/SIR/QAR16.0021/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

LED Luminaires

Equipment ratings:

- LAL, LALC and LALFP Series, rated 120 - 277Vac, 50/60 Hz or 108-250 Vdc or 12-24 Vdc

- LALE and LALFPiE Series, rated 120 - 277 Vac, 50/60 Hz

- iE 1: 1000 Lums

-iE 3: 3000 Lumens

Ambient temperature ratings:

LAL, LALC, LALFP Series (upto 150 Watts)

$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$ Standard Version

LAL, LALC and LALFP Series (Upto 120 Watts)

$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +55^{\circ}\text{C}$ Standard Version

LAL and LALC Series

$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +65^{\circ}\text{C}$ Standard Version (less than 45 Watts).

LALE and LALFPiE Series

$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$ Emergency Version (iE 1)

$0^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$ Emergencu Version (iE 3)

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The luminaires shall only be installed where there is a low risk of mechanical damage2. Potential electrostatic charging hazard, clean with damp cloth



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

Issue No. 0: - Original issue

Issue No. 1:

1. Add Model series: LALFP and LALFPiE - The housing of the LALFP and LALFPiE are similar to the LAL series excepted it has a smoother exterior surface finishing. The model LALFPiE is identical to the LALFP except it has Battery backup.
2. Add alternate LEDs: Cree XP-L and Nichia NFSW757G.
3. Add an alternate emergency driver model: FHSAC1UNV40C.
4. Add an L6 (6 foot) higher lumen output version with the driver in an adjacent compartment.

Issue No. 2:

1. Made minor correction to the Temperature Classes Table in Annex 1.

Issue No. 3:

1. Applicant / Manufacture address Change.
2. Add Alternate component: LED 757GT-V1/SM505 and connector MOLEX 10418801010 SMT
3. Update the current level of protection from 'nA' to 'ec': with the luminaires evaluated to IEC 60079-7.
4. Documentation revision. including address change and level of protection.



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Additional information:

Refer to Annex 1 for details.

Annex:

[IECEX QPS 15 0010x_03 Annex 1.pdf](#)



QPS Evaluation Services Inc.

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

ANNEX 1 to IECEx QPS 15.0010X Issue No. 3, Date: 2019-08-08

1. Nomenclature

Item	Detail														
Type identification	Series LAL 55 E13 30 D FF (Sample)														
	<table border="1"> <thead> <tr> <th>LAL/LALC</th> <th>55</th> <th>E13</th> <th>30</th> <th>D</th> <th>FF</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>6</td> <td>7</td> </tr> </tbody> </table>	LAL/LALC	55	E13	30	D	FF	1	2	3	4	6	7		
	LAL/LALC	55	E13	30	D	FF									
	1	2	3	4	6	7									
	Series LALFP 12 iE1 30 L5 D FF														
	<table border="1"> <thead> <tr> <th>LALFP</th> <th>12</th> <th>iE1</th> <th>30</th> <th>L5</th> <th>D</th> <th>FF</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> </tr> </tbody> </table>	LALFP	12	iE1	30	L5	D	FF	1	2	3	4	5	6	7
	LALFP	12	iE1	30	L5	D	FF								
	1	2	3	4	5	6	7								
	1: Model Series: LAL or LALC (Standard / Compact Version), LALFP (Food Processing Version) LALFPiE (Emergency Version).														
	2: Type of Lens-Output light /Wattage														
	LAL or LALC(Watts)														
	LALFP (Lumens)														
		C15 – 1 PCB 1 - 1000													
		C18 – 1 PCB 2 - 2000													
		C20 – 1 PCB 3 - 3000													
		C23 – 1 PCB 4 - 4000													
		C25 – 1 PCB 5 - 5000													
		C30 – 1 PCB 6 - 6000													
		C35 – 1 PCB 7 - 7000													
		C40 – 1 PCB 8 - 8000													
		C45 – 1 PCB 9 - 9000													
		C50 – 1 PCB 10 - 10000													
		13 – 2 PCB 11 - 11000													
		18 – 2 PCB 12 - 12000													
		28 – 2 PCB 13 - 13000													
		32 – 2 PCB 14 - 14000													
		45 – 2 PCB 15 - 15000													
		52 – 2 PCB 16 - 16000													
		19 – 3 PCB 17 - 17000													
		26 – 3 PCB 18 - 18000													
	40 – 3 PCB 19 - 19000														
	60 – 3 PCB 20 - 20000														
	77 – 3 PCB 21 - 21000														
	27 – 4 PCB 22 - 22000														
	34 – 4 PCB 23 - 23000														
	55 – 4 PCB 24 - 24000														
	80 – 4 PCB 25 - 25000														
	100 – 4 PCB 26 - 26000														
	39 – 6 PCB 27 - 27000														
	50 – 6 PCB 28 - 28000														
	75 – 6 PCB 29 - 29000														
	120 – 6 PCB 30 - 30000														
	150 – 6 PCB														

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Item	Detail (continuous)																																				
	<p>3: DC Wattage(Emergency Version Model: LALE) Blank: No DC battery Wattage E13: 13 Watts, E26: 26 Watts. Emergency Version model: LALFPIE iE1: 1000 Lumens iE3: 3000 Lumens</p> <p>4: Input Voltage: 30: 120-277 V ac, 34: 108-250Vdc; 120-277 Vac. 27: 12-24 Vdc</p> <p>5 : Length to the nearest foot (optional) L1 Housing Approximately 1 foot long. 1 short lens L2 Housing Approximately 2 feet long. 1 short lens L3 Housing Approximately 3 feet long. 1 long lens L4 Housing Approximately 4 feet long. 1 long lens L5 Housing Approximately 5 feet long. 2 long lenses L6 Housing approximately 6 feet long 2 long lenses.</p> <p>6 Lens Type: C—Clear Lens D—Diffuse Lens</p> <p>7: Options:</p> <table style="width: 100%; border: none;"> <tr><td style="padding-left: 40px;">Lxx</td><td>Special Length</td></tr> <tr><td style="padding-left: 40px;">TBx</td><td>Terminal Blocks (x =variations)</td></tr> <tr><td style="padding-left: 40px;">TBLx</td><td>Terminal Blocks (x = variations)</td></tr> <tr><td style="padding-left: 40px;">QD</td><td>Quick Disconnect</td></tr> <tr><td style="padding-left: 40px;">Hxxxx</td><td>Hook for LALCR – xxxxx SO Type cord length & Acceptor plug</td></tr> <tr><td style="padding-left: 40px;">S52</td><td>1 Endcap with ½” and M20 entries</td></tr> <tr><td style="padding-left: 40px;">D52</td><td>Both endcaps with ½” and M20 entries</td></tr> <tr><td style="padding-left: 40px;">D20</td><td>2 M20 Entries (adapter) on one end only</td></tr> <tr><td style="padding-left: 40px;">D202</td><td>2 M20 on both end caps</td></tr> <tr><td style="padding-left: 40px;">D2050</td><td>2 M20 on one end cap 2 ½” NPT on the other</td></tr> <tr><td style="padding-left: 40px;">D50</td><td>2 ½” NPT on one end only</td></tr> <tr><td style="padding-left: 40px;">D502</td><td>2 ½” NPT on both end caps</td></tr> <tr><td style="padding-left: 40px;">LSP</td><td>Less Surge Protector</td></tr> <tr><td style="padding-left: 40px;">2AP</td><td>Dual Access Plates for Wiring (Standard Single Access Plate)</td></tr> <tr><td style="padding-left: 40px;">NAP</td><td>No Access Plate</td></tr> <tr><td style="padding-left: 40px;">FTW</td><td>Feed Through Wiring without Terminal Blocks</td></tr> <tr><td style="padding-left: 40px;">GH</td><td>Gray Painted Housing, Access Plates and End Caps</td></tr> <tr><td style="padding-left: 40px;">GE</td><td>Gray Painted Access Plate(s) and End Caps Only.</td></tr> </table>	Lxx	Special Length	TBx	Terminal Blocks (x =variations)	TBLx	Terminal Blocks (x = variations)	QD	Quick Disconnect	Hxxxx	Hook for LALCR – xxxxx SO Type cord length & Acceptor plug	S52	1 Endcap with ½” and M20 entries	D52	Both endcaps with ½” and M20 entries	D20	2 M20 Entries (adapter) on one end only	D202	2 M20 on both end caps	D2050	2 M20 on one end cap 2 ½” NPT on the other	D50	2 ½” NPT on one end only	D502	2 ½” NPT on both end caps	LSP	Less Surge Protector	2AP	Dual Access Plates for Wiring (Standard Single Access Plate)	NAP	No Access Plate	FTW	Feed Through Wiring without Terminal Blocks	GH	Gray Painted Housing, Access Plates and End Caps	GE	Gray Painted Access Plate(s) and End Caps Only.
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2. Temperature Classes

Model:		LAL (E), (FP), (FPiE)			LAL , (FP)			LAL, (FP)			LALe, (FPiE)		
Ambient Temp		40°C Ambient			55°C Ambient			65°C Ambient			50°C Ambient		
Wattage	# of LED PCB	IIC Gc	IIIC Db	Supply Wire Temp ° C	IIC Gc	IIIC Db	Supply Wire Temp ° C	IIC Gc	IIIC Db	Supply Wire Temp ° C	IIC Gc	IIIC Db	Supply Wire Temp ° C
C15	1	T5	95	75	T4	95	90	--	--	--	--	--	--
C18	1	T5	95	75	T4	95	90	--	-	--	--	--	--
C20	1	T5	95	75	T5	95	90	--	--	--	--	--	--
C23	1	T5	95	75	T5	95	90	--	--	--	--	--	--
C25	1	T5	95	75	T4	95	90	--	--	--	--	--	--
C30	1	T5	95	75	T4	95	90	--	--	--	--	--	--
C35	1	T5	95	75	T4	95	90	--	--	--	--	--	--
C40	1	T5	95	75	T5	95	90	--	--	--	--	--	--
C45	1	T5	95	75	T5	95	90	--	--	--	--	--	--
C50	1	T5	95	90	--	--	--	--	--	--	--	--	--
13	2	T5	95	75	T5	95	75	T4	120	90	T5	95	75
18	2	T5	95	75	T5	95	75	T4	120	90	T5	95	75
28	2	T5	95	75	T5	95	75	T4	120	90	T5	95	75
45	2	T5	95	75	T5	95	90	T4	120	90	T5	95	90
19	3	T5	95	75	T5	95	75	T4	120	90	T5	95	75
26	3	T5	95	75	T5	95	75	T4	120	90	T5	95	75
40	3	T5	95	75	T5	95	90	--	--	--	T5	95	90
60	3	T5	95	75	T5	95	90	--	--	--	T5	95	90
27	4	T5	95	75	T5	95	75	T4	120	90	T5	95	75
34	4	T5	95	75	T5	95	90	--	--	--	T5	95	90
55	4	T5	95	75	T5	95	90	--	--	--	T5	95	90
80	4	T5	95	75	T5	95	90	--	--	--	T5	95	90
39	6	T5	95	75	T5	95	90	--	--	--	T5	95	90
50	6	T5	95	75	T5	95	90	--	--	--	T5	95	90
75	6	T5	95	75	T5	95	90	--	--	--	T5	95	90
120	6	T5	95	75	T5	95	90	--	--	--	T5	95	90
150	6	T5	95	75	--	--	--	--	--	--	--	--	--

Note: "--" indicates there is no luminaire available at this ambient temperature
 "*" applicable to the LED luminaire with battery backup option iE1 and iE3 only.
 Option 'iE3' only suitable for use in ambient temperature of 0°C to +40°C.

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