



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

Certificate No.: **IECEX QPS 19.0031X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 3 [Issue 2 \(2021-10-27\)](#)
Date of Issue: 2022-01-18 [Issue 1 \(2020-03-26\)](#)
[Issue 0 \(2020-03-03\)](#)
Applicant: **Killark - A Division of Hubbell Inc. (Delaware)**
2112 Fenton Logistics Park Blvd.
Fenton
Missouri 63026
United States of America
Equipment: **KFLX and ARXC series LED Floodlight Luminaire**
Optional accessory:
Type of Protection: **"ec", "tb"**
Marking: Ex ec IIC T5/T4/T3 Gc
Ex tb IIIC T100°C/T135°C/T160°C Db,
IP66
STANDARD VERSION
-50°C < T_{amb} < +65°C < 120W
-50°C < T_{amb} < +40°C / +55°C > 120W
BATTERY BACKUP VERSION
-20°C < T_{amb} < +50°C
* T code refer to the Annex Page. Table 1 Temperature Classification.

Approved for issue on behalf of the IECEx
Certification Body:

D, Adams P.Eng.

Position:

Manager, Hazardous Locations Department [Ex Equipment]

Signature:
(for printed version)

Date:

2022-01-18

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 www.iecex.com or use of this QR Code.



Certificate issued by:

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





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Certificate No.: **IECEX QPS 19.0031X**

Page 2 of 4

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

Additional manufacturing locations: **Chalmit**
Chalmit Lighting
388 Hillington Road
Glasgow G52 4BL
Scotland
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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[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 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/ExTR20.0003/00](#)
[CA/QPS/ExTR20.0003/03](#)

[CA/QPS/ExTR20.0003/01](#)

[CA/QPS/ExTR20.0003/02](#)

Quality Assessment Reports:

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

[GB/SIR/QAR16.0021/04](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX QPS 19.0031X**

Page 3 of 4

Date of issue: 2022-01-18

Issue No: 3

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

LED Floodlight Luminaires: Killark's Models: **KFLX**. and Chalmit's Models: **ARXC**

See Detail: ANNEX page for Detail.

STANDARD VERSION Models: **KFLX...** and **ARXC...**

Electrical ratings: 120-277 VAC, 50/60Hz. / 100-250 VDC,

Power consumption: See ANNEX page for Detail

BATTERY BACKUP VERSION Models: **KFLX..iE** and **ARXC..EM**

Electrical ratings: 120-277VAC 50/60 HZ.

Power consumption: See ANNEX page for Detail.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. TO PREVENT IGNITION OF HAZARDOUS ATMOSPHERES, DISCONNECT BALLAST/FIXTURE FROM SUPPLY CIRCUIT BEFORE OPENING. KEEP TIGHTLY CLOSED WHEN IN OPERATION.
2. DO NOT OPEN, MAINTAIN OR SERVICE IN AN AREA WHERE AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT.
3. CLEAN LENS WITH DAMP CLOTH TO AVOID STATIC DISCHARGE.
4. THE LUMINAIRE SHALL ONLY BE INSTALLED WHERE THERE IS A LOW RISK OF MECHANICAL DAMAGE.
5. READ AND INSTALL ACCORDING TO INSTALLATION MANUAL.



IECEX Certificate of Conformity

Certificate No.: **IECEX QPS 19.0031X**

Page 4 of 4

Date of issue: 2022-01-18

Issue No: 3

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Revise the T code of the Rating with

Ex ec IIC T5/T4/T3 Gc, Ex tb IIIC T100C/T135C/T160C Db

Annex:

[IECEX QPS 19.0031_3 Annex_1.pdf](#)



QPS Evaluation Services Inc.

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

ANNEX to IECEx QPS 19.0031X Issue No. 3, Date: January 18, 2022

Nomenclature

Item	Detail																																		
Type identification	<table border="1" data-bbox="761 422 1230 499"> <tr> <td>KFL/ARXC</td> <td>30</td> <td>iE</td> <td>30</td> <td>F</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </table> <p>1. Killark's Model: KFLX , Chalmit's Model: ARXC</p> <p>2. Output light Wattage:</p> <table border="1" data-bbox="722 562 1269 953"> <thead> <tr> <th>KFLX / ARXC</th> <th>Output Power</th> </tr> </thead> <tbody> <tr><td>7 / 07L</td><td>60 Watt</td></tr> <tr><td>10 / 10L</td><td>90 Watt</td></tr> <tr><td>12 / 12L</td><td>100 Watt</td></tr> <tr><td>14 / 14L</td><td>120 Watt</td></tr> <tr><td>16 / 16L</td><td>135 Watt</td></tr> <tr><td>20 / 20L</td><td>180 Watt</td></tr> <tr><td>22 / 22L</td><td>200 Watt</td></tr> <tr><td>30 / 30L</td><td>280 Watt</td></tr> <tr><td>40 / 40L</td><td>360 Watt</td></tr> <tr><td>50 / 50L</td><td>480 Watt</td></tr> <tr><td>60 / 60L</td><td>560 Watt</td></tr> </tbody> </table> <p>3. Battery Backup ___: No Battery Backup iE: Battery Backup Operation selected. (Killark) EM: Battery Backup Operation selected. (Chalmit)</p> <p>4. Input Voltage: 30: 120-277 V ac, 50/60 Hz 34: 100-250Vdc / 120-277 Vac, 50/ 60Hz</p> <p>5. Options: F – Single Fuse FF – Double Fuse NSP—No Surge Protector TBx – Terminal Block (x = Variations) TBLx – Terminal Block (x = Variations) with Looping Facilities xxxO -Silicone Optic (XHP50 Board only xx= optic pattern) Px – Photocell factory installed (x = Factory Wired Voltage) SY – Stainless Steel Yoke xH –Optional Paint (i.e. YH = Yellow Housing). PL – Polycarbonate Lens KM—Knuckle Mount PM-- Pole Mount 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) WG –Wire Guard TURTLE-Amber colored LEDs primarily used to protect wildlife CISPR-Inventronics driver</p>	KFL/ARXC	30	iE	30	F	1	2	3	4	5	KFLX / ARXC	Output Power	7 / 07L	60 Watt	10 / 10L	90 Watt	12 / 12L	100 Watt	14 / 14L	120 Watt	16 / 16L	135 Watt	20 / 20L	180 Watt	22 / 22L	200 Watt	30 / 30L	280 Watt	40 / 40L	360 Watt	50 / 50L	480 Watt	60 / 60L	560 Watt
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1. Temperature Classification

i. Standard Version.

Killark's Model:	Output Power	Voltage	Frequency (Hz)	Current (A)	T _{amb} :					
					40°C	55°C	65°C	40°C	55°C	65°C
					IIC	IIC	IIC	IIIC (°C)	IIIC (°C)	IIIC (°C)
KFL730	60	120-277	50/60	0.5-0.21	T5	T4	T3	100	160	160
KFL1030	90	120-277	50/60	0.8-0.3	T5	T4	T3	100	160	160
KFL1230	100	120-277	50/60	0.8-0.3	T5	T4	T3	100	160	160
KFL1430	120	120-277	50/60	1.0-0.4	T5	T4	T3	100	160	160
KFL1630	135	120-277	50/60	1.0-0.4	T5	T4	T3	100	160	160
KFL2030	180	120-277	50/60	1.5-0.7	T4	T3	--	100	--	--
KFL2230	200	120-277	50/60	2.3-1.0	T4	T3	--	135	--	--
KFL3030	280	120-277	50/60	2.3-1.0	T4	T3	--	135	--	--
KFL4030	360	120-277	50/60	3.0-1.3	T4	T3	--	100	--	--
KFL5030	480	120-277	50/60	4.0-1.7	T4	T3	--	135	--	--
KFL6030	560	120-277	50/60	4.7-2.0	T4	T3	--	135	--	--
Chalmit's Model:										
ARXC/07L/LE	60	120-277	50/60	0.5-0.21	T5	T4	T3	100	160	160
ARXC/10L/LE	90	120-277	50/60	0.8-0.3	T5	T4	T3	100	160	160
ARXC/12L/LE	100	120-277	50/60	0.8-0.3	T5	T4	T3	100	160	160
ARXC/14L/LE	120	120-277	50/60	1.0-0.4	T5	T4	T3	100	160	160
ARXC/16L/LE	135	120-277	50/60	1.0-0.4	T5	T4	T3	100	160	160
ARXC/20L/LE	180	120-277	50/60	1.5-0.7	T4	T3	--	100	--	--
ARXC/22L/LE	200	120-277	50/60	2.3-1.0	T4	T3	--	135	--	--
ARXC/30L/LE	280	120-277	50/60	2.3-1.0	T4	T3	--	135	--	--
ARXC/40L/LE	360	120-277	50/60	3.0-1.3	T4	T3	--	100	--	--
ARXC/50L/LE	480	120-277	50/60	4.0-1.7	T4	T3	--	135	--	--
ARXC/60L/LE	560	120-277	50/60	4.7-2.0	T4	T3	--	135	--	--

ii. Battery Backup Version

Killark's Model	Output Power	Voltage	Frequency (Hz)	Current (A)	T _{amb} :			
					40°C	50°C	40°C	50°C
					IIC	IIC	IIIC (°C)	IIIC (°C)
KFL7iE1/0530	60	120-277	50/60	0.5-0.21	T5	T4	160	160
KFL14iE/0530	120	120-277	50/60	0.8-0.3	T5	T4	160	160
Chalmit's Model:								
ARXC/07/LE/EM	60	120-277	50/60	0.5-0.21	T5	T4	160	160
ARXC/14/LE/EM	120	120-277	50/60	0.8-0.3	T5	T4	160	160

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- The electrical ratings list above based on the AC input that test with relevant models with maximum output voltage and the maximum output power. It is also represents the models have dual voltage input option of Alternating current and direct current.

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