



# QPS Evaluation Services Inc.

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

Certificate Number

QPS 21 ATEX 5004X

## EU Type Examination Certificate

(1) **Equipment intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(2) EU Type Examination Certificate Number: QPS 21 ATEX 5004X Issue Number: 00

(3) Product: **LED Floodlight Luminaires Model:**

1. Killark's "KFLX" and "KFLX.iE" Series
2. Chalmit's "ARXC" and "ARXC..EM" Series

**See Annex for detail of Models, and Temperature classification**

(4) Manufacturer:

1. Killark - A Division of Hubbell Inc. (Delaware)
2. Chalmit-A Division of HUBBELL INCORPORATED (Delaware)

(5) Address:

1. 2112 Fenton Logistics Park Blvd.  
Fenton, Missouri 63026, United States of American.
2. 388 HILLINGTON ROAD, GLASGOW, UK G52 4BL

(6) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(7) QPS Inc. 81 Kelfield St., Units 7-9, Toronto, ON M9W 5A3, Canada, Notified Body Number 2900, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

(8) The examination and test results are recorded in confidential test report no. ATX35487-24  
Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

Standard	Edition
EN 60079-0:2018	2018
EN 60079-31:2014	2014

(9) If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use).

(10) This EU Type Examination certificate only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

(11) The marking of the product shall include the following:



**II 2 D Ex tb IIIC T100°C/T135°C/T160°C Db,, IP66.**

See Annex page for detail of the T code.

### YOUR FULL SERVICE PARTNER IN GLOBAL CONFORMITY ASSESSMENT

81 Kelfield Street, Units 7-9, Toronto, ON M9W 5A3, Canada, Ph: 416-241-8857 Fax: 416-241-0682

6600 TransCanada Highway, Suite 750, Pointe Claire, QC H9R 4S2, Canada Ph: 514-693-2808

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Web Site [www.qps.ca](http://www.qps.ca) and [www.qpscification.com](http://www.qpscification.com)

Toll Free: 1- 877-746-4777



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(12) **SCHEDULE**

(13) **to EU Type Examination CertificateNo.: QPS 21 ATEX 5004X**

**Issue  
No. 0**

(14) **Description**

This report covers The model KFLX /ARXC Series LED Floodlight luminaires for use in hazardous locations with increase safety methods of protection. The model KFLX and ARXC series LED luminaire have model variation of Lumens of light output and a standard model (KFLX....ARXC) and Emergency Version (KFLX...iE../ARXC/...EM). The model KFLX/ARXC series LED luminaires composite of two compartments the driver housing and LED housing. The driver and the LED housing constructed with casting Aluminum Alloy. The drive housing is hosting the AC connection terminal block, Surge protector, LED driver/ battery charger and battery(for the emergency). The LED driver hosting the LED board(s). The KFLX/ARXC Series LED luminaires are intended to be installed on aiming points and aiming angles with mounting arrangements secured with lock washers or self-locking nuts and bolts with the optional mounting accessories.

**Type designation**

Killark's "KFLX" Series, Chalmit's "ARXC" Series.  
See Annex for detail of Models, and Temperature classification.

(15) **Electrical data**

Input voltage range. 120-277VAC 100-250VDC, (560-60) Watts

Degrees of protection (IP Code): IP 66

Ambient temperature:

STANDARD VERSION

-50°C<Tamb<+65°C < 120W

-50°C<Tamb<+40°C/+55°C > 120W

BATTERY BACKUP VERSION

-20°C<Tamb<+50°C

(16) **Installation instructions**

Document	Sheets	Rev	Title
K1505 KIL00921505	4	R12	INSTALLATION, OPERATION & MAINTENANCE DATA SHEET For KFLX SERIES LED LUMINAIRE
ARRAN_X_IOM	4	1	INSTALLATION, OPERATION & MAINTENANCE DATA SHEET For Arran-X SERIES LED LUMINAIRE

(17) **Report Number: ATX35487-24**

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**(18) Specific conditions of use**

1. DO NOT OPEN, MAINTAIN OR SERVICE IN AN AREA WHERE AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT.
2. CLEAN LENS WITH DAMP CLOTH TO AVOID STATIC DISCHARGE.
3. THE LUMINAIRE SHALL ONLY BE INSTALLED WHERE THERE IS A LOW RISK OF MECHANICAL DAMAGE.
4. READ AND INSTALL ACCORDING TO INSTALLATION MANUAL.
- 5.

**(19) Essential Health and Safety Requirements**

Covered by the standards listed at item (8).

**(20) Test documentation**

As listed in Report No. ATX35487-24

**(21) Certificate history**

Issue 0 - initial certificate

**(22)**

The following documents describe the equipment or component defined in this certificate:  
Issue 0.

As listed in Report No. ATX35487-24

Drawing No	Sheets	Rev	date	Title
E51886-1B	1	B	Aug. 31, 2021	KFL-X ASSEMBLY, IEC CERTIFICATION PROTECTION CODE Ex db, Ex tb
E51886-2B	1	B	Aug. 31, 2021	KFL-X ASSEMBLY, IEC CERTIFICATION DOUBLE STACK
E51886-3B	1	B	Aug. 31, 2021	KFL-X ASSEMBLY, IEC CERTIFICATION NAMEPLATE, STANDARD LUMINAIRE
E51886-4B	1	B	Aug. 31, 2021	KFL-X ASSEMBLY, IEC CERTIFICATION NAMEPLATE, BATTERY BACK-UP
E16157 1_1	1	B	May 6, 1987	Inline Fuse holder & Fuse (6Amp) Assembly.

Issued By: D. Adams, P. Eng.  
Certification Manager, Ex Equipment

Signature:

Date: Nov. 12, 2021

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**Certificate Number**

**QPS 21 ATEX 5004X**

ANNEX to QPS 21 ATEX 5004X, Date: Nov. 12, 2021

## Nomenclature

Item	Detail																																		
Type identification	<table border="1" style="margin-left: auto; margin-right: auto;"> <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. <b>Killark's Model:</b> KFLX , <b>Chalmit's Model:</b> ARXC</p> <p>2. <b>Output light Wattage:</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <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. <b>Battery Backup</b>        ___: No Battery Backup        iE: Battery Backup Operation selected. (Killark)        EM: Battery Backup Operation selected. (Chalmit)</p> <p>4. <b>Input Voltage:</b>        30: 120-277 V ac, 50/60 Hz        34: 100-250Vdc / 120-277 Vac, 50/ 60Hz</p> <p>5. <b>Options:</b>        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 <sub>amb</sub> :					
					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 <sub>amb</sub> :			
					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

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.