



QPS Evaluation Services Inc.

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

Certificate Number
QPS 21 ATEX 7002X

CERTIFICATE OF COMPLIANCE

(1) Type Examination

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

(3) Type Examination Certificate Number: QPS 21 ATEX 7002X Issue Number: 00

(4) 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

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

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

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

(8) QPS Evaluation Services Inc., certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential test report no. **ATX35487-24**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 and EN 60079-7:2015/Ed 5.

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design and construction of the specified product and not to the manufacturing process and its monitoring.

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



II 3 G

Ex ec IIC T5/T4/T3 Gc

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

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(13) **SCHEDULE**

(14) **to Type Examination Certificate No.: QPS 21 ATEX 7002X Issue No. 0**

(15) **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.

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<T_{amb}<+65°C < 120W

-50°C<T_{amb}<+40°C/+55°C > 120W

BATTERY BACKUP VERSION

-20°C<T_{amb}<+50°C

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

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

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(17) **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.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

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.

(20) **Certificate history**

Issue 0 - initial certificate

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

Signature:

Date: Nov. 12, 2021

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ANNEX to QPS 21 ATEX 7002X, Date: Nov. 12, 2021

Nomenclature

Item	Detail																																		
Type identification	<table border="1" style="margin-left: 40px;"> <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" style="margin-left: 40px;"> <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

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.