



	UK CA	PE EXAMINATION CERTIFI	CATE	
			No.	3CT 22UKEX1001X
1	UNI	TED KINGDOM CONFORMITY ASSESS	MENT	
		<b>TYPE CERTIFICATE</b>		
2	•	vstem Intended for use in Potentiall 16:1107 (as amended) – Schedule 3	• •	•
3	Type Examination Certificate No.:	3CT 22UKEX1001X		
4	Product:	LED Floodlight luminaires		
5	Manufacturer:	Killark Division, Hubbell Inc. (Delaware)		nit, A Division of HUBBELL RPORATED (Delaware)
6	Address:	2112 Fenton Logistics Park Blvd. Fenton, MO, 63026 USA.		88 HILLINGTON ROAD, GLASGOW, UK G52 4BL
7	This product and any acceptable documents therein referred to.	variation thereto is specified in the	schedu	le to this certificate and the
8	in Potentially Explosive Atmospheres Regu- comply with the Essential Health and Saf- potentially explosive atmospheres given in	•	certifies constructi	that this product has been found to ion of products intended for use in
-		re recorded in the confidential report		
9		Ith and Safety Requirements has bee		
	EN IEC 60079-0:2			79-7:2015/A1:2018
10		nents listed at section 18 of the sched tificate number, it indicates that the pro		
	of use specified in the schedule to	this certificate.		
11		only to the design and constructio ply to the manufacturing process and		
12	The marking of this product shall in	clude the following:		
	⟨E͡x⟩ II 3G Ex ec IIC T5/T4/T3 Gc	See Annex Page Table 2 for detail of	the T C	lass
	STANDARD VERS	ION:		

# -50°C<T<sub>amb</sub><+65°C < 120W

BATTERY BACKUP VERSION

 $-50^{\circ}C < T_{amb} < +40^{\circ}C / +55^{\circ}C > 120W$ 

-20°C<T<sub>amb</sub><+50°C

This certificate and its schedules may only be reproduced in its entirety and without change.





- 13 Schedule to UK Type Examination Certificate
- 14 Certificate Number 3CT 22UKEX1001X

### 15 Description of Product

This certificate 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 Pages for Detail of Models, and Temperature classification.

#### **Electrical data**

Input voltage range. 120-277VAC 100-250VDC, (560-60) Watts. See Annes Page Table 1 for detail.

### 16 Test report No. (associated with this certificate issue): UKEX1728-1

#### 17 Specific Conditions of Use Schedule of Limitations

- 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.

### 18 Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.





- **13** Schedule to UK Type Examination Certificate
- 14 Certificate Number 3CT 22UKEX1001X

### 19 Drawings and Documents

Technical Documents											
Drawing No	Sheets	Rev	Date	Title							
E51886-1B	1	В	Aug. 31, 2021	KFL-X ASSEMBLY, IEC CERTIFICATION PROTECTION CODE Ex db, Ex tb							
E51886-2B	1	В	Aug. 31, 2021	KFL-X ASSEMBLY, IEC CERTIFICATION DOUBLE STACK							
E51886-3C	1	С	Nov. 08, 2022	KFL-X ASSEMBLY, IEC CERTIFICATION NAMEPLATE, STANDARD LUMINAIRE							
E51886-4C	1	С	Nov. 08, 2022	KFL-X ASSEMBLY, IEC CERTIFICATION NAMEPLATE, BATTERY BACK-UP							
E16157 1_1	1	В	May 6, 1987	Inline Fuse holder & Fuse(6Amp) Assembly.							
E51886-1B 1		В	Aug. 31, 2021	KFL-X ASSEMBLY, IEC CERTIFICATION PROTECTION CODE Ex db, Ex tb							

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				

You can check the validity of this certificate into our website at:



Arbi Aloui P.P

Steve Youngman Certification Officer Ex Products and Systems, United Kingdom Silverstone, 11 February 2023





- 13 Schedule to UK Type Examination Certificate
- 14 Certificate Number 3CT 22UKEX1001X

# Annex

### Table 1, Equipment name/model number

Item	Detail								
		KFL3030P	L (Sample)						
			KFLXX/ARX	C 30	iE	30	F		
			1	2	3	4	5		
	1.		Model: KFLX ,			el: AR	XC		
	2.	Type of L	ens-Output lig					-	
			KFLX / Chalmit's Series.		s. Ou	Output Power		_	
		-	7/07			60 Watt		_	
		-	10/1			90	Watt	-	
		-	12/1			100	Watt	-	
		-	<u> </u>			120 135	Watt Watt	-	
		-	20 / 2			180	Watt	-	
		-	22/2			200	Watt	-	
		-	30 / 3			280	Watt	-	
	3.	Battery B		-					
Type identification	entification  (: No E iE: Batt EM: Bat EM: Bat EM: Bat (	iE: Battery EM: Batter Input Vol 30: 120-2 34: 100-2 Options: F – Single FF – Dou NSP—No TBx – Ter TBLx – Ter TCT (CCT) min (No value WG – Wird TURTLE-	277 V ac, 50/60 250Vdc / 120-2 e Fuse ble Fuse o Surge Protect rminal Block (x erminal Block (x erminal Block (x cone Optic (XH cocell factory in nless Steel Yol onal Paint (i.e. Y carbonate Lens ckle Mount ckle Mount 'hite LED Chron nimum 3000K; =Standard 500	ration se Hz 7 Vac, 5 = Variation = Variat	lected. 50/60 H 50/60 H tions) w ird only = Facto ow Hou ow Hou vhere Y or Reno 70 CRI	(Chain z rith Loc xx= op ory Win using). Y= cor dering minim	oping Fa otic patter red Volta rrelated Index (C um)	ern) age) color temperatu CRI) maximum §	

i.





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- 14 Certificate Number 3CT 22UKEX1001X

## **Table 2 Temperature Classification**

Standard Version.

	Output	Voltage	Frequency	Current	T amb:						
Killark's					40°C	55°C	65°C	40°C	55°C	65°C	
Model:	Power	*	(Hz)	(A)	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	Т3	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	Т3		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	Т3		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	Т3		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	Т3	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	Т3	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	Т3		135			
ARXC/30L/LE	280	120-277	50/60	2.3-1.0	T4	Т3		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	Т3		135			

\* Double stack configuration.

# ii. Battery Backup

			Frequency (Hz)			T <sub>amb</sub> :			
Killark's Model	Output	Voltage *		Current	40°C	50°C	40°C	50°C	
	Power	Voltage		(A)	IIC	IIC	IIIC	IIIC	
							(°C)	(°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 representing the models have dual voltage input option of Alternating current and direct current.