



	UK CA	UK TYPE EXAMINATION CERTIFICATE							
			No.	3CT 22UKEX1005X					
1	UNI	FED KINGDOM CONFORMITY ASSES	SMENT						
	UK TYPI	E EXAMINATION CER	TIFIC	CATE					
2	-	rstem Intended for use in Potentia 16:1107 (as amended) – Schedule		•					
3	Type Examination Certificate No.:	3CT 22UKEX1005X							
4	Product:	LED Floodlight luminaires							
5	Manufacturer:	Killark Division, Hubbell Inc. (Delaware)		it, A Division of HUBBELL PORATED (Delaware)					
6	Address:	2112 Fenton Logistics Park Blvd. Fenton, MO, 63026 USA.		LLINGTON ROAD, GOW, 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	in accordance with Regulation 42 of the Equip Ilations 2016, UKSI 2016:1107 (as amended ety Requirements relating to the design and Schedule 1 of the Regulations.	), certifies	that this product has been found to					
	The examination and test results a	re recorded in the confidential report	UKEX1	728-1.					
9		Ith and Safety Requirements has be	en assur	red by compliance with:					
	EN IEC 60079-0:2018	EN 60079-31:2014							
	Except in respect of those requiren	nents listed at section 18 of the sche	dule to t	his certificate.					
10	If the sign "X" is placed after the cer of use specified in the schedule to	tificate number, it indicates that the p this certificate.	roduct is	s subject to specific conditions					
11		FICATE relates only to the design and tions apply to the manufacturing proc							
12	The marking of this product shall in	clude the following:							
	⟨€x⟩ II 2D Ex tb IIIC T95°C D -Se	e Annex Page Table 2 for detail of th	e T Clas	SS					

# STANDARD VERSION:

 $-50^{\circ}C < T_{amb} < +65^{\circ}C < 120W$ 

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.

Applus+ Laboratories 3C Test Limited Silverstone Technology Park Silverstone Circuit Northants NN12 8GX





- **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.

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

#### 19 Drawings and Documents

Technical	Documents
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Technical Doci	Technical Documents										
Drawing No	Rev	Date		Title							
E51886-1B	1	В	Aug. 31,	2021	KFL-X ASSEMBLY, IEC CERTIFICATION PROTECTION CODE Ex db, Ex tb						
E51886-2B	E51886-2B 1 B		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	SHEE	LLATION, OPERATION & MAINTENANCE DATA T For KFLX SERIES LED LUMINAIRE						
ARRAN_X_IOM	4	1	INSTALLATION, OPERATION & MAINTENANCE DA 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								
	Model	: KFL3030F	PL (Sample)						
			KFLXX/ARXC	30	iE	30	F		
			1	2	3	4	5		
	1.	Killark's	Model: KFLX, Ch	nalmit's	Mode	el: AR	XC		
	2.	Type of I	_ens-Output light	Wattag	je:				
			KFLX / Chalmit's	Series.	Ou	tput P	ower		
			7 / 07L		6	60	Watt		
			10 / 10L			90	Watt		
			12 / 12L			00	Watt		
			14 / 14L			20	Watt	_	
			16 / 16L			35	Watt	_	
			20 / 20L			80	Watt	_	
			22 / 22L			00	Watt	_	
			30 / 30L		2	80	Watt		
	3.	Battery E	Backup						
Type identification	4.	iE: Batter EM: Batter Input Vo 30: 120- 34: 100- Options: F – Singl FF – Dou NSP—Na TBx – Te TBLx – T xxxO -Sil Px – Pho SY – Sta xH –Opti PL – Poly KM—Knu PM Pol YYZZ –V (CCT) mi (No value WG –Wir TURTLE	277 V ac, 50/60 Hz 250Vdc / 120-277 V e Fuse oble Fuse o Surge Protector rminal Block (x = V erminal Block (x = v erminal Block (x = v forminal Block (x =	on sele Z Vac, 50 Variation Variation 0 Boarc led (x = = Yellow icity wh = Color CCT 70	cted. ( /60 Hz ons) wi d only : Facto w Hou: ere Y Rend ) CRI	Chair th Loc xx= op ory Wi sing). r= con ering minim	oping Fa otic patte red Volta rrelated ( Index (C um)	ern) age) color tempera :RI) maximun	

i.





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# **Table 2 Temperature Classification**

Standard Version.

					T <sub>amb</sub> :							
Killark's	Output	Voltage	Frequency	Current	40°C	55°C	65°C	40°C	55°C	65°C		
Model:	Power	*	(Hz)	) (A)		IIC	IIC	IIIC (°C)	IIIC (°C)	IIIC (°C)		
KFL730	60	120-277	50/60	0.5-0.21	T5	T4	Т3	100	160	160		
KFL1030	90	120-277	50/60	0.8-0.3	T5	T4	Т3	100	160	160		
KFL1230	100	120-277	50/60	0.8-0.3	T5	T4	Т3	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	Т3	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	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	Т3		135				
Chalmit's Model:					•	•	•					
ARXC/07L/LE	60	120-277	50/60	0.5-0.21	T5	T4	Т3	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	Т3	100	160	160		
ARXC/14L/LE	120	120-277	50/60	1.0-0.4	T5	T4	Т3	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	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				

\* Double stack configuration.

ii. Battery Backup

		Voltage *	Frequency (Hz)				T <sub>amb</sub> :		
Killark's Model	Output Power			Current	40°C	50°C	40°C	50°C	
				(A)	IIC	IIC	IIIC	IIIC	
						110	(°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.