



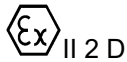
EU Type Examination Certificate CML 14ATEX3087 Issue 4

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **KFL Series LED Floodlights**
- 3 Manufacturer **Killark A Division of Hubbell Inc. (Delaware)** **Hubbell Inc. trading as Chalmit Lighting** **Hubbell Inc. trading as Victor Lighting**
- 4 Address
2112 Fenton Logistics Park Blvd.
Fenton, Missouri 63026
United States of America 388 Hillington Road
Glasgow
G52 4BL
UK 388 Hillington Road
Glasgow
G52 4BL
UK
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout The Netherlands, Notified Body Number 2776, 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.
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 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). These are specified in Section 14.
- 8 This EU Type Examination certificate relates 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.
- 9 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:

EN IEC 60079-0:2018

EN 60079-31:2014

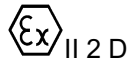
- 10 The equipment shall be marked with the following:



II 2 D

Ex tb IIIC T160°C Db

Ta = -50°C to +40°C



II 2 D

Ex tb IIIC T160°C Db

Ta = -50°C to +55°C



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11 Description

The KFL Series is a range of floodlight luminaire's fitted with LED lamps. The range consists of 12 types, they all share the same enclosure but vary their input characteristic (voltage, amps and wattage) and internal components (LED type, number and accompanying driver) to suit their intended environment.

The KFL enclosure is composed of a housing, mount, LED optics and various accessories. The table below shows a list of the KFL luminaires available and their main characteristics.

KFL Code	Watts (w)	Hz	Voltage (V)	No. of LED Boards	Total No. of LED's	T Rating
KFL 195 30	189	50/60	120 - 277 ac	3	60	T160°C
KFL 165 30	158	50/60	120 - 277 ac	3	51	T160°C
KFL 150 30	151	50/60	120 - 277 ac	3	396	T160°C
KFL 125 30	125	50/60	120 - 277 ac	3	60	T160°C
KFL 110 30	110	50/60	120 - 277 ac	3	51	T160°C
KFL 105 30	105	50/60	120 - 277 ac	3	45	T160°C
KFL 090 30	90	50/60	120 - 277 ac	3	36	T160°C
KFL 085 30	85	50/60	120 - 277 ac	2	40	T160°C
KFL 075 30	75	50/60	120 - 277 ac	2	34	T160°C
KFL 070 30	70	50/60	120 - 277 ac	2	30	T160°C
KFL 060 30	60	50/60	120 - 277 ac	2	24	T160°C
KFL 060 34	53	N/A	105 – 250 dc	2	24	T160°C

Note: the model codes listed above are common between Killark and Victor Lighting. Model codes variants for Chalmit lighting are noted below:

Chalmit Lighting Model Code	Corresponding KFL Code
ARRN/22L/LE	KFL 195 30
ARRN/19L/LE	KFL 165 30
ARRN/18L/LE	KFL 150 30
ARRN/15L/LE	KFL 125 30
ARRN/11L/LE	KFL 085 30
ARRN/10L/LE	KFL 070 30



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Chalmit Lighting Model Code	Corresponding KFL Code
ARRN/06L/LE	KFL 060 30
ARRN/06L/LE/DC	KFL 060 34

The KFL enclosure consists of an extruded aluminium ballast housing, utilizing a flat tempered glass lens. The housing has an access panel on the back, an aluminium lens frame on the front and two end caps either side. A one piece 3mm silicone rubber gasket is fitted between the body and these removable panels, held in place by overlapping ribs. The lens frame assembly is fitted to the housing body using M5 stainless steel screws.

The toughened glass lens is fitted into the aluminium lens frame with a polycarbonate closeout panel for mechanical protection. A one piece 6mm silicone gasket is compressed between the frame and lens, secured by silicone adhesive.

All units have the option of being fitted with a stainless steel guard to further protect the lens and or an aluminium reflector to better direct the light source.

The yoke mount is a steel bracket used for mounting, it also allows the housing to rotate 180° to a user desired angle before being fixed.

The rear of the housing body has an area allowing up to two entries at a maximum size of M25/1" NPT. There is an internal earth adjacent to cable entry and an M10 or M8 external earthing provision on the back of the housing provided

Internally there are 2 or 3 LED PCB's depending on the unit, each board housing a maximum of 132 LED's. The LED's are controlled by a driver board which is protected by a surge protector. Located under the access panel are separately certified terminals allowing connection to a power supply.

All units within the range may be fitted with the following optional extras:

Code Suffix	Option Extra
F	Single Fuse
FF	Double Fuse
N	Narrow Beam Pattern
N	Medium Beam Pattern
Px	Photocell factory installed (x = factory wired voltage)
QD	Quick Disconnect
D75	Dual ¾"npt entries
D25	Dual M25 metric entries
M20	Single M20 Entry
M25	Single M25 Entry
D20	Dual M20 Entries



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SY	Stainless Steel Yoke
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Variation 1

This variation introduces the following modifications:

- i. The addition of three new models, KFL19530, KFL16530 and KFL15030
- ii. To allow an alternative LED type to be used
- iii. To allow an alternative LED driver to be used
- iv. The removal of three previously approved models; KFL12533, KFL11033 and KFL10533.
- v. The description has been modified in accordance with the above changes

Variation 2

This variation introduces the following modifications:

- i. To permit the use of two additional LED types.
- ii. To recognise a non-safety critical change to the mounting bracket fixing holes.

Variation 3

This variation introduces the following modifications:

- i. To update and review the certification against the latest version of standards.
- ii. To amend the manufacturer name and address.
- iii. To include additional specific condition of use.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	5 Nov 2014	R321/00	Issue of prime certificate
1	21 Nov 2014	R321/01	Update drawing references in report and certificate
2	05 May 2016	R712A/00	The introduction of Variation 1
3	26 Mar 2018	R11664A/00	The introduction of Variation 2
4	29 Jun 2021	R13909A/00	The introduction of Variation 3

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.



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14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- i. To avoid from the risk of electrostatic dis-charge, equipment shall be routinely cleaned wipe using wet cloth. See manufacturer instruction for guidance.

Certificate Annex

Certificate Number CML 14ATEX3087
Equipment KFL Series LED Floodlights
Manufacturer Killark, a Division of Hubbell Inc. (Deleware)
Chalmit Lighting Ltd
Victor Lighting Ltd



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

Issue 0 & Issue 1

Drawing No	Sheets	Rev	Approved date	Title
23950	1 of 4	A	21 Nov 2014	KFL LED Flood Assembly
23950	2 of 4	A	21 Nov 2014	Label drawing KFL Floodlight - Killark
23950	3 of 4	A	21 Nov 2014	KFL LED Floodlight IECEx Certification [wiring connections]
23950	4 of 4	A	21 Nov 2014	Label drawing KFL Floodlight - Chalmit

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
C - 23950	2 of 4	B	05 May 2016	Label, Product, KFL Floodlight - Killark
C - 23950	4 of 4	B	05 May 2016	Label, Product, KFL Floodlight - Chalmit

Issue 3

Drawing No	Sheets	Rev	Approved date	Title
23950	1 of 4	B	26 Mar 2018	KFL Flood Assembly

Issue 4

Drawing No	Sheets	Rev	Approved date	Title
C-23950	2 of 4	C	29 Jun 2021	Label product KFL Floodlight