



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx CML 14.0044X	Issue No: 3	Certificate history:
Status:	Current	Page 1 of 4	Issue No. 3 (2017-03-14)
Date of Issue:	2017-03-14		Issue No. 2 (2016-10-07)
			Issue No. 1 (2015-12-03)
			Issue No. 0 (2014-12-18)
Applicant:	Hubbell Ltd T/As Chalmit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom		
Equipment:	Arran LED Floodlight		
Optional accessory:			
Type of Protection:	Ex nA, tb		
Marking:	Ex nA IIC T6/T5 Gc Ex tc IIIC T160°C Dc Ex tb III C T160°C Db Ta(T6) = -50°C to +40°C, Ta(T5) = -50°C to +55°C		

Approved for issue on behalf of the IECEx
Certification Body:

H M Amos MIET

Position:

Technical Manager

Signature:
(for printed version)

Date:

March 14, 2017

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





IECEx Certificate of Conformity

Certificate No: IECEx CML 14.0044X

Issue No: 3

Date of Issue: 2017-03-14

Page 2 of 4

Manufacturer: **Chalmit Lighting**
388 Hillington Road
Glasgow
G52 4BL
United Kingdom

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/CML/ExTR14.0026/00](#)
[GB/CML/ExTR17.0041/00](#)

[GB/CML/ExTR15.0095/00](#)

[GB/CML/ExTR16.0124/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0027/06](#)



IECEx Certificate of Conformity

Certificate No: IECEx CML 14.0044X

Issue No: 3

Date of Issue: 2017-03-14

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Arran LED floodlight luminaire.

See annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for conditions of manufacture and safe use.



IECEx Certificate of Conformity

Certificate No: IECEx CML 14.0044X

Issue No: 3

Date of Issue: 2017-03-14

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1

1. To allow new drivers to be fitted, subsequently, a condition of certification was added.

Issue 2

1. Permit the use of dimmable drivers
2. Description updated

Issue 3

1. To permit alternative LEDs to be used

Annex:

[Certificate Annex IECEx CML 14.0044 Issue 3.pdf](#)

Annexe to: IECEx CML 14.0044X Issue 3
Applicant: Chalmit Lighting
Apparatus: Arran LED Floodlight



Description

The Arran floodlight is a floodlight luminaire fitted with LED lamps. There are 5 models all of which share the same enclosure but vary their input characteristic (voltage, current, power) and internal components (LED type, number and accompanying driver) to suit their intended environment. The table below lists the main characteristics.

Model Code	Power (W)	Freq. (Hz)	Voltage (V)	T Class at +40°C Ambient	T Class at +55°C Ambient	T Rating	Dimming option T class at 40°C Ambient
ARRN/15L/LE/**	122	50/60	120 - 277 ac	T6	T5	T160°C	T5
ARRN/11L/LE/**	81	50/60	120 - 277 ac	T6	T5	T160°C	T6
ARRN/10L/LE/**	66	50/60	120 - 277 ac	T6	T5	T160°C	T6
ARRN/06L/LE/**	53	50/60	120 - 277 ac	T6	T5	T160°C	T6
ARRN/06L/LE/DC/**	53	N/A	105 – 250 dc	T6	T5	T160°C	T6

** = DM, Dimming option.

The enclosure consists of an extruded aluminium housing with aluminium end caps and a flat tempered glass lens. The glass lens is fitted using an aluminium frame with a polycarbonate closeout panel/diffuser for mechanical protection and is sealed by a silicone gasket. The rear of the housing has an access panel and up to two M20 or M25 entries for cable(s) which are wired to separately certified terminal blocks within the housing. There is an internal earth adjacent to cable entry and an external earthing provision on the rear of the housing. Internally there are 2 or 3 LED PCBs each fitted with up to 20 LEDs. The LEDs are controlled by a driver unit which is protected by a surge protector.

A stainless steel yoke is used for mounting which also allows the housing to be rotated by 180° to a user defined position before being fixed. All units have the option of being fitted with a stainless steel wireguard to further protect the lens and/or an aluminium reflector to direct the light.

Conditions of Manufacture

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

1. 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.





Conditions of Certification

1. The equipment is not capable of withstanding the 1500V electric strength test required by clause 23.2.1 of IEC 60079-15 due to internal transient protection devices. This must be taken into account when installing the equipment.