IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Certificate No.:	**IECEx CML 14.0044X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 6	Issue 5 (2018-09-07) Issue 4 (2018-04-06) Issue 3 (2017-03-14) Issue 2 (2016-10-07) Issue 1 (2015-12-03) Issue 0 (2014-12-18)
Date of Issue:	2021-03-18		
Applicant:	**Hubbell Ltd T/As Chalmit Lighting** 388 Hillington Road Glasgow G52 4BL **United Kingdom**		
Equipment:	**Arran LED Floodlight**		
Optional accessory:			
Type of Protection:	**Type n "nA", Dust Ignition "tb"/"tc"**		
Marking:	Ex nA IIC T6/T5 Gc Ex tc IIIC T100°C Dc Ex tb IIIC T100°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: **R C Marshall**

Position: **Operations Manager**

Signature: (for printed version)

Date: 2021-03-18

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 www.iecex.com or use of this QR Code.

Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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Date of issue: 2021-03-18 Issue No: 6

Manufacturer: **Hubbell Ltd T/As Chalmit Lighting**
388 Hillington Road
Glasgow
G52 4BL
United Kingdom

Additional manufacturing locations:

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 equipment 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 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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 Reports:

GB/CML/ExTR14.0026/00
GB/CML/ExTR15.0095/00
GB/CML/ExTR16.0124/00
GB/CML/ExTR17.0041/00
GB/CML/ExTR18.0085/00
GB/CML/ExTR18.0208/00
GB/CML/ExTR21.0021/00

Quality Assessment Report:

GB/BAS/QAR06.0027/09

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

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.

Refer to Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:
Refer to Annex for specific conditions of use.

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

This issue introduced the following changes:

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

Issue 2

This issue introduced the following changes:

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

Issue 3

This issue introduced the following changes:

1. To permit alternative LEDs to be used

Issue 4

This issue introduced the following changes:

1. To permit the use of two additional LED types.

Issue 5

This issue introduced the following changes:

1. To permit use of new LED drivers and removal of surge protector.
2. Permit the use of alternative dimmable drivers, the description has been updated accordingly
3. To permit alternative LEDs to be used
4. To permit the use of two additional LED types.
5. To permit the use of an alternate label.

Issue 6

This issue introduced the following changes:

1. To permit the use of an alternative LED Driver.
2. Change to align dust temperature class with gas group temperature rating.
3. Change to Chalmit model numbers. The description has been updated accordingly.
4. Increase the maximum power to align with the LED drivers.

Annex:

IECEx CML 14.0044X Iss. 6 Certificate Annex.pdf

Annex to:	**IECEx CML 14.0044X Issue 6**
Applicant:	**Hubbell Ltd T/As 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/**L/LE/*	150	50/60	120 - 277 ac	T6	T5	T100°C	T5
ARRN/**L/LE/*	96	50/60	120 - 277 ac	T6	T5	T100°C	T6
ARRN/**L/LE/*	75	50/60	120 - 277 ac	T6	T5	T100°C	T6
ARRN/**L/LE/*	75	50/60	120 - 277 ac	T6	T5	T100°C	T6
ARRN/**L/LE/DC/*	75	N/A	108 – 250 dc	T6	T5	T100°C	T6

** = Lumens (x1000) up to a maximum of 17

* = 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 wire guard 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.

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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Specific Conditions of Use

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

i. The equipment is not capable of withstanding the 1,500V electric strength test required by EN 60079-15 clause 23.2.1 due to internal transient protection devices. This must be taken into account when installing the equipment.