



Type Examination Certificate CML 14ATEX4106X Issue 4

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Arran LED Floodlight**
- 3 Manufacturer **Hubbell Ltd T/As Chalmit Lighting**
- 4 Address 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 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of equipment intended for use in potentially explosive atmospheres given in Annex II of Directive 2014/34/EU.
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 certification affecting correct installation or safe use). These are specified in Section 14.
- 8 This Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Annex VIII apply to the manufacture of the equipment or component.
- 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 60079-0:2012

EN 60079-15:2010

EN 60079-31:2014

- 10 The equipment shall be marked with the following:



II 3 GD

Ex nA IIC T6 Gc

Ex tc IIIC T160°C Dc

Ta = -50°C to +40°C



II 3 GD

Ex nA IIC T5 Gc

Ex tc IIIC T160°C Dc

Ta = -50°C to +55°C

H M Amos MIET
Technical Director



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11 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.

Variation 1

To permit use of new LED drivers and removal of surge protector.

Variation 2

- Permit the use of alternative dimmable drivers, the description has been updated accordingly
- Update certificate to reference current ATEX directive

Variation 3

- To permit alternative LEDs to be used



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Variation 4

- i. To permit the use of two additional LED types.

12 Certificate history and evaluation Reports

Issue	Date	Associated report	Notes
0	04 Dec 2014	R346A/00	Issue of prime certificate
1	03 Dec 2015	R777A/00	Introduction of variation 1
2	07 Oct 2016	R1358A/00	Introduction of variation 2
3	14 Mar 2017	R1808A/00	Introduction of variation 3
4	06 Apr 2018	R11689A/00	Introduction of variation 4

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.

- 13.1 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.
- 13.2 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

14 Special Conditions for Safe Use (Conditions of Certification)

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

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

Certificate Annex



Certificate Number CML 14ATEX4106X
Equipment Arran LED Floodlight
Manufacturer Hubbell Ltd T/As Chalmit Lighting

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

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
H032474	1 of 1	0	04 Dec 2014	Arran Floodlight ATEX & IECEx Certification Details

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
H032474	1 of 1	1	03 Dec 2015	Arran Floodlight ATEX & IECEx Certification Details

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
H032474	1 of 1	2	07 Oct 2016	ARRAN FLOODLIGHT ATEX & IECEx CERTIFICATION DETAILS
25070	1 of 1	A	07 Oct 2016	PCB, Thermal foldback

Issue 3

Drawing No	Sheets	Rev	Approved date	Title
H032474	1 of 1	3	14 Mar 2017	ARRAN FLOODLIGHT ATEX & IECEx CERTIFICATION DETAILS

Issue 4

Drawing No	Sheets	Rev	Approved date	Title
H032474	1 of 1	4	06 Apr 2018	ARRAN FLOODLIGHT ATEX & IECEx CERTIFICATION DETAILS