



## Type Examination Certificate

**CML 14ATEX4106 Issue 0**


- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC
- 2 Equipment **Arran LED Floodlight**
- 3 Manufacturer **Chalmit Lighting**
- 4 Address **388 Hillington Road  
Glasgow  
G52 4BL  
UK**
- 5 The equipment is specified in the schedule 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, in accordance with Article 9 of Directive 94/9/EC, 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 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 94/9/EC Article 8 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



## 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
ARRN/15L/LE/**	122	50/60	120 - 277 ac	T6	T5	T160°C
ARRN/11L/LE/**	81	50/60	120 - 277 ac	T6	T5	T160°C
ARRN/10L/LE/**	66	50/60	120 - 277 ac	T6	T5	T160°C
ARRN/06L/LE/**	53	50/60	120 - 277 ac	T6	T5	T160°C
ARRN/06L/LE/DC/**	53	N/A	105 – 250 dc	T6	T5	T160°C

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.

## 12 Document history and Evaluation Reports

Issue	Date	Associated report	Notes
0	04 Dec 2014	R346A/00	Issue of prime certificate

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 Each unit manufactured shall be subjected to an electric strength test in accordance with EN 60079-15:2010 Clause 23.2.1 at (1000V + 2U) for 60 s. Alternatively at 1.2 times this test voltage for at least 100 ms. The LED driver and LEDs may be disconnected for the electric strength test in accordance with Clause 6.5.2.



**CML 14ATEX4106**  
**Issue 0**

**14 Conditions of Certification**

None

## Certificate Annex



**Certificate Number** CML 14ATEX4106  
**Equipment** Arran LED Floodlight  
**Manufacturer** 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