

**Type Examination Certificate      CML 21UKEX4498X    Issue 1****United Kingdom Conformity Assessment**

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended)
- 2 Equipment      **Arran LED Floodlight**
- 3 Manufacturer   **Hubbell Limited t/a Hawke International; GAI-Tronics; Chalmit Lighting, Victor Lighting and Transtar**
- 4 Address        **Ashton Road  
Bredbury Park Industrial Estate  
Bredbury  
Stockport SK6 2QN**

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, 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 Schedule 1 of the Regulations.

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 specific conditions of use (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. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.


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 G D

Ex nA IIC T\* Gc

Ex tc IIIC T100°C Dc

Ta = -50°C to +\*\*°C

\* Refer to description for T class and ambient





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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/**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.

### Variation 1

This variation introduces the following modifications:

- i. To recognize a change to the applicant's and manufacturer's name and address.

## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	25 June 2021	R14157C/00	Issue of the Prime Certificate. CML 14ATEX4106X, Issue 7 is attached and shall be referred to in conjunction with this certificate.
1	17 Apr 2024	R17491A/00	Issue of Variation 1.

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



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### **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 of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

### **14 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.

## Certificate Annex

**Certificate Number** CML 21UKEX4498X  
**Equipment** Arran LED Floodlight  
**Manufacturer** Hubbell Limited t/a Hawke International; GAI-Tronics;  
Chalmit Lighting, Victor Lighting and Transtar



The following documents describe the equipment defined in this certificate:

### Issue 0

For drawings describing the equipment, refer to attached certificate CML 14ATEX4106X , Issue 7. In addition to the drawings listed on CML 14ATEX4106X , Issue 7. the following drawings include the additional marking required for this UK Type Examination certification:

Drawing No	Sheets	Rev	Approved date	Title
H054672	1 of 1	0	25 June 2021	Certified Arran Nameplate

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None.