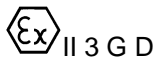




Type Examination Certificate **CML 14ATEX4106X Issue 8**

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 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 CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, 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 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 safe 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 or component. Further requirements of Directive 2014/34/EU Annex VIII apply to the manufacture of the equipment or component and are separately certified.
- 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



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 modification:

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

Variation 2

This variation introduces the following modifications:

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

Variation 3

This variation introduces the following modification:

- i. To permit alternative LEDs to be used.



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Variation 4

This variation introduces the following modification:

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

Variation 5

This variation introduces the following modification:

- i. To permit the use of an alternate label.

Variation 6

This variation introduces the following modifications:

- i. The transfer of the certificate from CML UK to CML B.V.
- ii. Minor changes to the description for clarity.

Variation 7

This variation introduces the following modifications:

- i. To permit the use of an alternative LED Driver.
- ii. Change to align dust temperature class with gas group temperature rating.
- iii. Change to Chalmit model numbers. The description has been updated accordingly.
- iv. Increase the maximum power to align with the LED drivers.

Variation 8

This variation introduces the following modification:

- 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	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
5	07 Sep 2018	R11957A/00	Introduction of Variation 5
6	10 Apr 2019	R12332A/00	Introduction of Variation 6
7	18 Mar 2021	R13453A/00	Introduction of Variation 7
8	17 Apr 2024	R17491A/00	Introduction of Variation 8

Note: Drawings that describe the equipment or component 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 (Special Conditions)

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 14ATEX4106X
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 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

Issue 5

Drawing No	Sheets	Rev	Approved date	Title
H043867	1 of 1	0	07 Sep 2018	ASTRA CERTIFIED ARRAN NAMEPLATE

Issue 6

None.

Certificate Annex

Certificate Number CML 14ATEX4106X
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Issue 7

Drawing No	Sheets	Rev	Approved date	Title
H032474	1 of 1	5	18 Mar 2021	Arran floodlight ATEX & IECEx certification details

Issue 8

None.