



## Type Examination Certificate **CML 17ATEX4044X Issue 4**

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **ARRAN H/O (LED FLOODLIGHT)**
- 3 Manufacturer **Hubbell Ltd  
T/As Chalmit Lighting**
- 4 Address **388 Hillington Road,  
Glasgow, G52 4BL,  
United Kingdom**
- 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 6738671, 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 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 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.
- 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+A11:2013    EN 60079-7:2015    EN 60079-31:2014
- 10 The equipment shall be marked with the following:



II 3GD

Ex ec IIC T4 Gc

Ex tc IIIC T135°C Dc

Ta = -50°C to +40°C/+55°C



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## 11 Description

The ARRAN H/O (LED FLOODLIGHT) is an LED based luminaire. It comprises an aluminium chassis onto which two arrangements of PCB mounted LEDs are attached.

Each of the two LED arrangements is covered by a frame and glass. An aluminium enclosure is mounted onto the back of the chassis and houses the two LED drivers, terminals and optional surge protector. Entry into the enclosure is via appropriately approved cable glands (M20 x 1.5).

Model numbers are as follows:

CHALMIT MODEL No	Power (W)	Voltage (V)	Current (A)
ARHN**L/LE/*	390	120-277 Vac 140-273 Vdc	4.0 - 1.4
ARHN**L/LE/*	265	120-277 Vac 140-273 Vdc	2.7 - 1.0
ARHN**L/LE/*	172	120-277 Vac 140-273 Vdc	1.8- 0.7

\*Options of M25 Entries

\*\*Lumens (x1000) up to a maximum of 46

### Variation 1

This variation introduces the following modifications:

- i Minor correction to equipment name

### Variation 2

This variation introduces the following modifications:

- i To permit the use of an additional LED type.

### Variation 3

This variation introduces the following modifications:

- i The transfer of the certificate from CML UK to CML B.V.

### Variation 4

This variation introduces the following modifications:

- i. To permit the use of an alternative LED Driver.
- ii. Change to Chalmit model numbers. The description has been updated accordingly.



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## 12 Certificate history and evaluation Reports

Issue	Date	Associated report	Notes
0	05 Nov 2017	R1280A/00	Issue of Prime Certificate
1	08 Nov 2017	R11438A/00	Introduction of Variation 1
2	15 Jun 2018	R11810A/00	Introduction of Variation 2
3	10 Apr 2019	R12332A/00	Introduction of Variation 3
4	18 Feb 2021	R13454A/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.

- 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.

## 14 Special Conditions for Safe Use (Conditions of Certification)

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

- i. Due to internal transient protection devices, the luminaires do not meet die-electric strength test requirements specified by EN 60079-7 Clause 6.1 this shall be considered during installation.
- ii. Connections to the field terminals shall not be performed outside a temperature of -10°C to +80°C.

## Certificate Annex

**Certificate Number** CML 17ATEX4044X  
**Equipment** ARRAN H/O (LED FLOODLIGHT)  
**Manufacturer** Hubbell Ltd T/A Chalmit Lighting



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

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
H033772	1 to 2	0	05 Nov 2017	ARRAN HIGH OUTPUT FLOODLIGHT ATEX & IECEX CERTIFICATION DETAILS
25070	1 of 1	A	05 Nov 2017	PCB, THERMAL FOLDBACK

### Issue 1

Drawing No	Sheets	Rev	Approved date	Title
H033772	1 to 2	1	08 Nov 2017	ARRAN HIGH OUTPUT FLOODLIGHT ATEX & IECEX CERTIFICATION DETAILS

### Issue 2

Drawing No	Sheets	Rev	Approved date	Title
H033772	1 to 2	2	15 Jun 2018	ARRAN HIGH OUTPUT FLOODLIGHT ATEX & IECEX CERTIFICATION DETAILS

### Issue 3

None.

### Issue 4

Drawing No	Sheets	Rev	Approved date	Title
H033772	1 of 2	3	18 Feb 2021	ARRAN HIGH OUTPUT FLOODLIGHT ATEX & IECEX CERTIFICATION DETAILS