

## UK Type Examination Certificate CML 21UKEX1510X Issue 1

### United Kingdom Conformity Assessment

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Equipment **Evolution X**
- 3 Manufacturer **Hubbell Ltd T/A Chalmit Lighting**
- 4 Address **388 Hillington Road,  
Glasgow,  
G52 4BL**

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, Approved Body Number 2503, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 UK 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 IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015+A1:2018

EN 60079-31:2014

10 The equipment shall be marked with the following:

 II 2 G D

Ex db eb IIB+H2 T4/T5 Gb

Ex db eb IIB T4/T5 Gb

Ex db eb IIC T4/T5 Gb

Ex tb IIIC T100/135°C Db

-55°C ≤ Ta ≤ +40/60°C





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## 11 Description

The Evolution X luminaire comprises two metallic enclosures, one of which has a glass front and contains the LEDs, the other containing the flameproof drivers and terminals for field connections. The two enclosures may be mounted together as a single assembly or separated and joined by a cable or flameproof component approved threaded bushing.

The LED housing may be either flameproof or increased safety. The flameproof variant contains conventional LED modules, the increased safety variant contains flameproof LED modules.

The bolts for the flameproof enclosure are M8 x 20 Grade A4-70

Model	Watts	Volts	T class at 40°C		T class at 60°C	
			T5	T100°C	T4	T135°C
EVXB/**L/LE/*	400	110-270 AC 50/60Hz	T5	T100°C	T4	T135°C
EVXB/**L/LE/*	300	110-270 AC 50/60Hz	T5	T100°C	T4	T135°C
EVXB/**L/LE/*	200	110-270 AC 50/60Hz	T5	T100°C	T4	T135°C

\*\*L = Lumens (x1000) up to max 42

\* = options

### Variation 1

This variation addresses the following modifications:

- i. Assessment of alternate Silicone O-rings

## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	25 June 2021	R14157O/00	Issue of the prime certificate. CML 20ATEX1114X, Issue 0 is attached and shall be referred to in conjunction with this certificate.
1	14 Feb 2024	R17375A/00	Introduction of variation 1

Note: Drawings that describe the equipment 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 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.



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- ii. Each flameproof LED housing shall be subjected to a routine over pressure test of 3.3 bar for a minimum of 10s in accordance with IEC 60079-1 clause 16.1, there shall be no permanent deformation or damage.
- iii. The increased safety enclosures shall be subjected to a dielectric strength test of 1,500 V (2U+1000) for 60s in accordance with IEC 60079-7 Clause 7.1, there shall be no breakdown.

#### **14 Specific Conditions of Use**

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

- i. The flamepaths are not intended to be repaired, contact the manufacturer.

## Certificate Annex

**Certificate Number** CML 21UKEX1510X  
**Equipment** Evolution X  
**Manufacturer** Hubbell Ltd T/A Chalmit Lighting



The following documents describe the equipment defined in this certificate:

### Issue 0

For drawings describing the equipment, refer to attached certificate CML 20ATEX1114X , Issue 0. In addition to the drawings listed on CML 20ATEX1114X , Issue 0. the following drawings include the additional marking required for this UK Type Examination certification:

Drawing No	Sheets	Rev	Approved date	Title
H054718	1 of 1	0	25 June 2021	Evolution X Certification Nameplate

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Drawing No	Sheets	Rev	Approved date	Title
H047330	1 of 1	1	14 Feb 2024	Evolution X Floodlight ATEX & IECEx Certification Details