



EU Type Examination Certificate CML 20ATEX1114X Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 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 CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 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 IEC 60079-0:2018 EN 60079-1:2014 EN 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	
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	17 Nov 2020	R13142A/00	Initial release of prime certificate
1	14 Feb 2024	R17375A/00	Introduction of variation 1

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 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 (Special Conditions)

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 20ATEX1114X
Equipment Evolution X
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
H047330	1 of 1	0	17 Nov 2020	EVOLUTION X FLOODLIGHT ATEX & IECEX CERTIFICATION DETAILS
H047609	1 of 1	0	17 Nov 2020	EVO X LED ARRAY BOARD

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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