



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CML 20.0073X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-11-17

Applicant: **Hubbell Ltd T/A Chalmit Lighting**
388 Hillington Road
Glasgow
G52 4BL
United Kingdom

Equipment: **Evolution x**

Optional accessory:

Type of Protection: **Flameproof db, Increased safety eb, Dust tb**

Marking: 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

Approved for issue on behalf of the IECEx
Certification Body:

H Cleave

Position:

Certification Officer

Signature:
(for printed version)

Date:

2020-11-17

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: **Hubbell Ltd T/A Chalmit Lighting**
388 Hillington Road
Glasgow
G52 4BL
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Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/CML/ExTR20.0098/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0027/08](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Evolution X luminaire comprises two metallic enclosures, the gearbox and the LED housing. The LED housing has a glass front and contains groups of LEDs, the gear box contains 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
Refer to Annex for full description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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

Annex:

[Certificate Annex IECEx CML 20.0073X Issue 0_1.pdf](#)

Annexe to: IECEx CML 20.0073X Issue 0
Applicant: Chalmit Lighting (Hubbell Ltd)
Apparatus: Evolution X



Description

The Evolution X luminaire comprises two metallic enclosures, the gearbox and the LED housing. The LED housing has a glass front and contains groups of LEDs, the gear box contains 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

Conditions of Manufacture

The following are conditions of manufacture

- 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.
- 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.

Specific Conditions of Use

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

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Components covered by Ex Certificates issued to older editions of Standards

Certificate number	Standards (incl Ed)	Assessment result
IECEX PTB 04.0004U	IEC 60079-0 Ed 6 IEC 60079-7 Ed 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR