



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx CML 16.0016X

Issue No: 1

Certificate history:

Issue No. 1 (2018-02-22)

Issue No. 0 (2016-11-23)

Status: **Current**

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Date of Issue: **2018-02-22**

Applicant: **Chalmit Lighting (Hubbell Ltd)**
388 Hillington Road
Glasgow
G52 4BL
United Kingdom

Equipment: **Lomond LED Luminaire**

Optional accessory:

Type of Protection: **Ex db, eb, mb, op is, tb**

Marking:

Emergency version:

Ex db eb mb op is IIC T6 Gb

Ex tb III C T85°C Db

Standard version:

Ex db op is IIC T6 Gb

Ex tb III C T85°C Db

Tamb = -20°C to +55°C

Approved for issue on behalf of the IECEx

Certification Body:

A Snowdon

Position:

Certification Officer

Signature:

(for printed version)

Date:

February 22, 2018

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Certification Management 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
United Kingdom

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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/ExTR16.0017/00](#) [GB/CML/ExTR16.0017/01](#)

Quality Assessment Report:

[GB/BAS/QAR06.0027/07](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Lomond LED Luminaire

Refer to Annex for full description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for details of Conditions of Manufacture and Specific Conditions of Use / Special Conditions for Safe Use.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1

This issue introduces the following modification:

1. To permit the use of additional LED drivers.

Annex:

[Annex to IECEx CML 16.0016X Issue 1.pdf](#)

Annexe to: IECEx CML 16.0016X Issue 1
Applicant: Chalmit Lighting (Hubbell Ltd)
Apparatus: Lomond LED Luminaire



Description

The Lomond LED Luminaire is a flameproof luminaire that uses LEDs and has the option for an external increased safety battery tube. The battery tube has an integrated gland and is connected to the main luminaire enclosure via a separately approved cable gland.

The flameproof enclosure is comprised of a glass tube that has a solid metallic endcap cemented in place at one end and a metallic ring cemented at the other onto which a housing containing the electronics is fastened. A metallic strip is fastened to the back of the assembly and this serves as a mounting point and also to support the cemented joints of the flameproof enclosure.

Fasteners for flamepaths are A4-70 or better.

Model	Model Number
Standard version	LOMD/02L/LE/
Emergency version	LOMD/02L/LE/EM

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.
- ii. Each flameproof enclosure shall be subjected to a routine overpressure test of 175psi (12.1 bar) as per IEC 60079-1 clause 16.1. The test pressure shall be applied for at least 10 s. There shall be no leakage, permanent damage or deformation of the enclosure.
- iii. Each increased safety enclosure shall be subjected to a dielectric strength test of 500 V r.m.s., in accordance with IEC 60079-7 clause 7.1. The test voltage shall be applied for at least 60 s. No flashover or breakdown shall occur.
- iv. The fuse holder assembly of each piece of "m" (encapsulated) equipment shall be subjected to a visual inspection. No damage shall be evident, such as cracks in the compound, exposure of the parts, flaking, inadmissible shrinkage, swelling, decomposition, failure of adhesion, or softening.

Conditions of Certification (Special Conditions for Safe Use)

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

- i. The Lomond luminaire shall be installed in an area where there is a low risk of impact.
- ii. The battery tube assembly shall not be replaced whilst an explosive atmosphere may be present.
- iii. There is a potential risk of electrostatic discharge; clean battery end caps only with a damp cloth and avoid mounting near fast moving streams of air/steam.

