



EU Type Examination Certificate CML 16ATEX1020X Issue 2

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Lomond LED Luminaire**
- 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, Hoogoorddreef 15, Amsterdam, 1101 BA, 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.

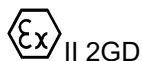
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 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 60079-0:2012+A11:2013	EN 60079-1:2014	EN 60079-7:2015
EN 60079-18:2015	EN 60079-28:2015	EN 60079-31:2014

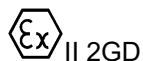
- 10 The equipment shall be marked with the following:

Standard version

Emergency version



II 2GD



II 2GD

Ex db op is IIC T6 Gb

Ex de eb mb op is IIC T6 Gb

Ex tb IIIC T85°C Db

Ex tb IIIC T85°C Db

Ta = -20°C to +55°C

Ta = -20°C to +55°C



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11 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

Variation 1

This variation introduces the following modification:

- i. To permit the use of additional LED drivers.

Variation 2

This variation introduces the following modification:

- i The transfer of the certificate from CML UK to CML B.V.
- ii Minor changes to the description for clarity.
- iii The change of company name.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	23 Nov 2016	R1000A/00	Issue of Prime Certificate
1	22 Feb 2018	R11622A/00	Introduction of Variation 1
2	10 Apr 2019	R12332A/00	Introduction of Variation 2

Note: Drawings that describe the equipment or component are listed in the Annex.



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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.
- ii. Each flameproof enclosure shall be subjected to a routine overpressure test of 175 psi (12.1 bar) as per EN 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 flameproof enclosure.
- iii. Each increased safety enclosure shall be subjected to a dielectric strength test of 500 V r.m.s., in accordance with EN 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 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.

14 Special Conditions for Safe Use (Conditions of Certification)

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

- i. The Lomond luminaire shall only 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.

Certificate Annex

Certificate Number CML 16ATEX1020X
Equipment Lomond LED Luminaire
Manufacturer Hubbell Ltd T/As Chalmit Lighting



The following documents describe the equipment defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
H036004	1 of 1	4	23 Nov 2016	LOMOND FLAME PROOF EMERGENCY
H036361	1 to 2	1	23 Nov 2016	VISCOUNT / LOMOND BATTERY
A148833	1 of 1	3	23 Nov 2016	O-ring

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
H036004	1 of 1	5	21 Feb 2018	LOMOND FLAME PROOF EMERGENCY

Issue 2

No new drawings.