

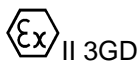


Type Examination Certificate **CML 16ATEX4101X Issue 7**

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Sterling II & III LED Luminaires**
- 3 Manufacturer **Hubbell Ltd
T/As Chalmers 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, Koopvaardijweg 32, 4906CV Oosterhout The Netherlands, 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 of Directive 2014/34/EU.
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 Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Annex VIII 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 60079-7:2015 EN 60079-31:2014

- 10 The equipment shall be marked with the following:



II 3GD

(ST2N)

Ex ec IIC T4 Gc

Ex tc IIIC T66°C Dc IP64

Ex tc IIIC T68°C Dc IP64*

Ta = -20°C to +45°C

* Emergency version only



II 3GD

(ST3N)

Ex ec IIC T4 Gc

Ex tc IIIC T76°C Dc IP64

Ta = -20°C to +40/45°C/+50°C/+55°C



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11 Description

The Sterling II & III LED are surface mounting luminaires that is constructed from a GRP or stainless-steel body and polycarbonate diffuser that house LEDs and an LED driver. There is also an option for a dimmable driver, surge protector and an emergency version (EM) that includes a battery pack, a diffuser, an alternate driver that handles the battery management and a status LED. There is also an option for a health monitoring system

Model	Lumens	Dimensions	Ambient
ST2N/03/LE/	3000	702 x 172 x 112 mm	-20°C to +45°C
ST2N/06L/LE/	6000	1312 x 172 x 112 mm	-20°C to +45°C
ST2N/09L/LE/	9000	1312 x 172 x 112 mm	-20°C to +45°C
ST2N/03/LE/EM	3000	702 x 172 x 112 mm	-20°C to +45°C
ST2N/06L/LE/EM	6000	1312 x 172 x 112 mm	-20°C to +45°C
ST2N/09L/LE/EM	9000	1312 x 172 x 112 mm	-20°C to +45°C
ST3N/03L/LE/	3000	702 x 172 x 112 mm	-20°C to +55°C
ST3N/06L/LE/	6000	1312 x 172 x 112 mm	-20°C to +50°C
ST3N/09L/LE/	9000	1312 x 172 x 112 mm	-20°C to +45°C
ST3N/03/LE/EM	3000	702 x 172 x 112 mm	-20°C to +45°C
ST3N/06L/LE/EM	6000	1312 x 172 x 112 mm	-20°C to +45°C
ST3N/09L/LE/EM	9000	1312 x 172 x 112 mm	-20°C to +45°C
ST3N/03/LE/JSVS	3000	702 x 172 x 112 mm	-15°C to +45°C
ST3N/06L/LE/JSVS	6000	1312 x 172 x 112 mm	-15°C to +45°C
ST3N/09L/LE/JSVS	9000	1312 x 172 x 112 mm	-15°C to +40°C
ST3N/03/LE/JSVT	3000	702 x 172 x 112 mm	-15°C to +45°C
ST3N/06L/LE/JSVT	6000	1312 x 172 x 112 mm	-15°C to +45°C
ST3N/09L/LE/JSVT	9000	1312 x 172 x 112 mm	-15°C to +40°C

Variation 1

This variation introduces the following modifications:

- i. To update the certificate reference to the 2014/34/EU Directive.
- ii. Permit the addition of an emergency version with optional internal diffuser

Variation 2

This variation introduces the following modifications:

- i. Re-assessed to EN 60079-7:2015 and Ex code updated from Ex nA to Ex ec.
- ii. Amendment of the existing conditions for the assessment to EN 60079-7:2015.
- iii. To permit additional models under the Sterling III (ST3N) Luminaire range.



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Variation 3

This variation introduces the following modifications:

- i. To permit the addition of the ST3N/09L/LE model to the LED luminaire range, the description has been updated in accordance with this modification and to show details of previous variations.

Variation 4

This variation introduces the following modifications:

- i. To permit the use of an alternative emergency driver. The product description has been amended to include the model numbers of the luminaires incorporating this alternative driver.

Variation 5

This variation introduces the following modifications:

- 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.

Variation 6

This variation introduces the following modification:

- i. To permit the use of alternative drivers for dimming, the description has been updated to reflect this option.

Variation 7

This variation introduces the following modifications:

- i. To permit the inclusion of a monitoring module.
- ii. To permit an alternative Inverter.
- iii. Removal of IEC 60079-28 from the list of standards.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	21 Jul 2016	R1058A/00	Issue of Prime Certificate
1	19 Jun 2017	R1790A/00	Introduction of Variation 1
2	06 Sep 2018	R11788A/00	Introduction of Variation 2
3	30 Oct 2018	R11994A/00	Introduction of Variation 3
4	19 Feb 2019	R12137A/00	Introduction of Variation 4
5	10 Apr 2019	R12332A/00	Introduction of Variation 5
6	23 Jul 2019	R12520A/00	Introduction of Variation 6



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Issue	Date	Associated report	Notes
7	02 Oct 2020	R13252A/00	Introduction of Variation 7

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 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 unit manufactured shall be subjected to an electric strength test in accordance with IEC/EN 60079-7 clause 7.1 of 1,500 Vac.

14 Specific Conditions of Use (Special Conditions)

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

- i. The luminaires shall only be installed where there is a low risk of mechanical damage.
- ii. When refitting the diffuser, the fixing clamps shall be re-secured with the original or replacement self-tapping screws.
- iii. Fasteners through the enclosure used for mounting purpose shall be fitted with appropriate sealing washers to maintain the ingress protection rating of the enclosure.
- iv. The optional surge protector when fitted to the Sterling II LED Luminaire, negates the dielectric strength test of IEC/EN 60079-7 clause 7.1, this shall be considered during installation.
- v. Connections to the terminals must not be made if the ambient temperature exceeds -10°C to +80°C.

Certificate Annex

Certificate Number CML 16ATEX4101X
Equipment Sterling II & III LED Luminaires
Manufacturer Hubbell Ltd T/As Chalmit Lighting



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
H036160	1 to 3	9	21 Jul 2016	Certification drawing zone 2 sterling led

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
H038812	1 to 2	0	19 Jun 2017	CERTIFICATION DRAWING ZONE 2 STERLING LED
G9000-0145	1 of 1	0	19 Jun 2017	SAFT 5-CELL 6V 4AH BATTERY STICK RECHARGEABLE NI-CD

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
H042350	1 to 2	0	06 Sep 2018	Sterling III LED Certification Drawing
H036160	1 to 3	10	06 Sep 2018	Certification drawing zone 2 sterling LED
H038812	1 to 2	1	06 Sep 2018	Certification drawing zone 2 sterling LED emergency

Issue 3

Drawing No	Sheets	Rev	Approved date	Title
H042350	1 to 2	1	30 Oct 2018	Sterling III LED Certification Drawing

Issue 4

Drawing No	Sheets	Rev	Approved date	Title
H042350	1 to 3	2	19 Feb 2019	Sterling III LED Certification Drawing

Issue 5

None.

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Issue 6

Drawing No	Sheets	Rev	Approved date	Title
H042350	1 to 4	3	23 Jul 2019	Sterling III LED Certification Drawing

Issue 7

Drawing No	Sheets	Rev	Approved date	Title
H042350	1 to 5	4	02 Oct 2020	Sterling III LED Certification Drawing