




EU Type Examination Certificate

CML 14ATEX1086X Issue 5

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Scotia Series and KF1L Series LED Luminaires**
- 3 Manufacturer **Hubbell Limited t/a Hawke International; GAI-Tronics; Chalmit Lighting, Victor Lighting and Transtar** **Killark, a Division of Hubbell Inc. (Delaware)**
- 4 Address **Ashton Road
Bredbury Park Industrial Estate
Bredbury
Stockport SK6 2QN** **2112 Fenton Logistics Park Blvd.
Fenton, MO 63026
United States of America**
- 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 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-7:2015
EN 60079-31:2014
- 10 The equipment shall be marked with the following:

 II 2 G D

Ex db eb IIB (+H₂ Option) T* Gb

Ex tb IIIC T***°C Db IP66

Ta = -20°C to **°C (STD Version)

Ta = -50°C to **°C (LT Version)

* Refer to description for T class, maximum surface temperature and ambient.





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11 Description

The Scotia luminaires are LED based units that have integrated driver electronics and are rated at 120 to 277 V ac 50/60 Hz.

The enclosures are cast from an aluminium alloy, EN1706 AC-44100KF LM6. The cover of the luminaire is secured to the main enclosure using twelve M8 fastening screws, forming a flanged joint, and has a tempered glass rectangular window cemented into position. The array of LEDs is mounted inside a flameproof compartment, behind the window. There is a separate flameproof compartment housing the driver circuit which is segregated from the LED compartment by a component approved bushing. There is a flanged joint formed by a cover on the other side of the driver circuit compartment, on the back of the luminaire, secured by another twelve M8 fasteners. This back cover has another compartment moulded into it which houses some component approved increased safety terminals. This increased safety compartment is segregated from the driver circuit compartment by another bushing, has a cover which is secured by four fastening screws and has two M20 entries with the alternative option of M25 threaded entries in the sides. The luminaires may be fitted externally with a handle, a reflector and a wire guard.

There are several variants with different ratings, these are described in the tables below.

Type identification	Watts **	Current *A	T* @ Ta 40°C	T* @ Ta 55°C	T**°C @ Ta 40°C	T**°C @ Ta 55°C
SCOD/**L/LE/*	125	1.0 – 0.5	T6	T5	T85°C	T100°C
SCOD/**L/LE/*	110	0.9 – 0.4	T6	T5	T85°C	T100°C
SCOD/**L/LE/*	105	0.9 – 0.4	T6	T5	T85°C	T100°C
SCOD/**L/LE/*	90	0.8 – 0.4	T6	T5	T85°C	T100°C

** = Lumens (x1000) up to a maximum of 15

* = Options where LT is low temperature routine pressure testing see table below

Type Identification /*	Description
LT	Low temperature version, lower Ta = -50°C
M25	M25 entry option
H2	Gas group IIB+H ₂

All fasteners used to secure flameproof joints are stainless steel with a minimum grade of A4.



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The equipment may also be supplied and marked with the following model numbers:

Type identification	Watts **	Current *A	T* @ Ta 40°C	T* @ Ta 55°C	T**°C @ Ta 40°C	T**°C @ Ta 55°C
KF1L19530	195	1.6 – 0.7	T5	N/A	T85°C	N/A
KF1L16530	165	1.4- 0.6	T5	N/A	T85°C	N/A
KF1L15030	150	1.3- 0.5	T5	N/A	T85°C	N/A
KF1L12530	129	1.0-0.5	T6	T5	T85°C	T100°C
KF1L11030	111	0.9-0.4	T6	T5	T85°C	T100°C
KF1L10530	103	0.9-0.4	T6	T5	T85°C	T100°C
KF1L09030	79	0.8-0.4	T6	T5	T85°C	T100°C

(N/A = combination of power and ambient temperature is not allowed).

Variation 1

This variation introduces the following modifications:

- i. To allow alternative LED driver.
- ii. Transient suppressor is now optional.
- iii. The dust surface temperatures have been aligned with the temperature classes.

Variation 2

This variation introduces the following modifications:

- i. To update the certificate reference to the 2014/34/EU Directive.
- ii. The addition of new model numbers (KF1L series).
- iii. The addition of an alternative manufacturing location.
- iv. Updates to the latest editions of the standards.
- v. Update of drawing to correct typographical error.

Variation 3

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.

Variation 4

This variation introduces the following modifications:

- i. Change to Chalmit model numbers.
- ii. Clarification in drawing H031521 that low temperature hydrogen IIB+H2 version shall be routine pressure tested to 13 Bar for 15 seconds.



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Variation 5

This variation introduces the following modification:

- i. To recognize a change to the applicant's and manufacturer's name and address.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	30 Oct 2014	R309A/00	Issue of Prime Certificate
1	17 Nov 2015	R787A/00	Introduction of Variation 1
2	14 Sep 2018	R11903A/00	Introduction of Variation 2
3	10 Apr 2019	R12332A/00	Introduction of Variation 3
4	17 Feb 2021	R13452A/00	Introduction of Variation 4
5	30 Apr 2024	R17491A/00	Introduction of Variation 5

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.
- ii. The LED compartment of each unit marked for a low ambient temperature of -50°C and gas group IIB+H₂ shall be subjected to a 13 Bar hydrostatic routine overpressure test, for 15 seconds, in accordance with EN/IEC 60079-1 clause 16. There shall be no deformation or damage to the enclosure.
- iii. Each unit manufactured shall be subjected to a dielectric strength test of $(1,000 + 2U) \times 1.2$ which shall be applied for a minimum of 100 ms in accordance with EN/IEC 60079-7 clause 6.1 (the LED driver may be disconnected for the test). There shall be no breakdown.
- iv. Equipment shall be marked in accordance with the Tables in Section 11.
- v. When adaptors and stopping plugs are used in the construction of the luminaires, the manufacturer shall ensure that they are installed in accordance with any Special Conditions for Safe Use associated with them.

14 Specific Conditions of Use (Special Conditions)

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

- i. In accordance with EN/IEC 60079-1 clause 5.1, the critical dimensions of all non-threaded flamepaths are: 9.5 mm minimum in length with a 0.05 mm maximum gap.



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- ii. The leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1 mm of the metal of the terminal throat.
- iii. All terminal screws, used and unused, shall be tightened to between 1.2 Nm and 2 Nm.
- iv. The fixture shall only be installed and wired in an ambient temperature of -10°C to +80°C.

Certificate Annex

Certificate Number CML 14ATEX1086X
Equipment Scotia Series and KF1L Series LED Luminaires
Manufacturer Hubbell Limited t/a Hawke International; GAI-Tronics;
Chalmit Lighting, Victor Lighting and Transtar



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

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
H031521	1 of 1	0	30 Oct 2014	Scotia Floodlight ATEX & IECEx Certification Details

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
H031521	1 of 1	1	17 Nov 2015	Scotia Floodlight ATEX & IECEx Certification Details

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
D-23990	1 of 3	D	14 Sep 2018	Assembly drawing
C-23990	2 of 3	E	14 Sep 2018	Label drawing
H031521	1 of 1	2	14 Sep 2018	Scotia floodlight ATEX and IECEx certification details

Issue 3

None.

Issue 4

Drawing No.	Sheets	Rev	Approved date	Title
H031521	1 of 1	3	17 Feb 2021	SCOTTIA FLOODLIGHT ATEX & IECEx CERTIFICATION DETAILS

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None.