

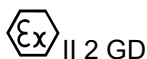


EU Type Examination Certificate CML 17ATEX3323 Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **SA LUMIN EX Rechargeable Floodlight**
- 3 Manufacturer **SA Equipment Ltd**
- 4 Address 10 Clifton View
East Mains Industrial Estate
Broxburn
Scotland
EH52 5NE
UK
- 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, 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 IEC 60079-0:2018 EN 60079-7:2015/A1:2018 EN 60079-11:2012
EN 60079-18:2015/A1:2017 EN 60079-31:2014
- 10 The equipment shall be marked with the following:



II 2 GD

Ex eb mb ib IIC T* Gb

Ex tb ib IIIC T82°C Db

Ta = -20°C to +43°C or +48°C**

* The Temperature Class is dependent on the temperature rating of the thermal fuses installed. The thermal fuse cut-off temperatures and corresponding temperature classes are 98°C for T5 and 123°C for T4.

** The upper ambient limit is dependent on the available modes of operation. See Conditions of Manufacture.



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11 Description

The Ex Rechargeable Floodlight luminaire comprises a cast aluminium enclosure containing two battery packs, certified terminal blocks, an encapsulated power supply and LEDs. The enclosure is supplied fitted within a frame.

On the top of enclosure there is an intrinsically safe certified piezo switch. The switch controls the mode of operation.

On the back face of the enclosure there is a certified venting device and a connector for the battery charger. This connector has a screw on cap which shall be fitted when the equipment is not charging.

The equipment shall only be charged in a non-hazardous area.

Design options

An optional replaceable antistatic lens film may be fitted.

Alternative arrangement for assembly of the lamp glass.

Alternative power supply control.

Variation 1

This variation introduced the following changes:

- i. To update the certificate to the latest standards (EN IEC 60079-0 Ed 7, EN IEC 60079-7 Ed 5.1 and EN IEC 60079-18 Ed 4.1).
- ii. The introduction of an alternative arrangement for assembly of lamp glass.
- iii. The removal of 'op is' from the certificate scope.
- iv. The removal of the external LED indicator.
- v. The introduction of an alternative power supply control.
- vi. The transfer to CML B.V.

12 Certificate history and evaluation reports

Issue	Date	Associated reports	Notes
0	17 Jan /2018	R11269A/00	Report for the prime certificate issue.
		R11269B/00	Report for the I.S. assessment.
1	18 Feb 2021	R13705B/00	Issue of variation 1

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. The product incorporates previously ATEX certified parts. The manufacturer shall ensure that any changes to these parts do not affect the compliance of the certified product that is the subject of this certificate.

cont.

This certificate shall only be copied
in its entirety and without change

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- ii. A dielectric strength test shall be carried out on all units manufactured, in accordance with EN 60079-7:2015, clause 7.1 and EN 60079-18:2015, clause 9.2. The test voltage and duration shall be in accordance with point 'a', 'b', 'c' or 'd' below:
 - a. 500 V r.m.s. for 60 s
 - b. 600 V r.m.s. for 100 ms
 - c. 700 Vdc for 60 s
 - d. 840 Vdc for 100 ms

Tests shall be carried out between each circuit and the external enclosure and between each circuit and the surface of encapsulated parts

No breakdown or arcing shall occur and the maximum current flowing shall not exceed 5 mA.

- iii. A visual inspection shall be carried out on the encapsulated parts. In accordance with EN 60079-18:2015 clause 9.1. There shall be no damage evident, such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure of adhesion or softening.
- iv. The equipment has two possible modes of operation; 'standard' mode and 'boost' mode.

The marked upper ambient temperature limit is dependent on the modes of operation which are enabled.

When the equipment is provided with the 'boost' mode option enabled, the marked maximum ambient shall be +43°C.

The marked ambient shall only be +48°C when it has been ensured that the equipment operates in 'standard' mode only.
- v. The intrinsically safe circuitry and associated wiring shall be segregated from all other circuitry and wiring in accordance with EN 60079-11 Table 5.
- vi. The Ex Rechargeable Floodlight - IS interface is manufactured and limited for use only by the manufacturer specified on this certificate. The internal procedures for the final-end equipment assembly shall cover all the required points for installation.
- vii. The equipment shall only be powered from a supply with a maximum output voltage of 24 V and is fed directly from cells or batteries.
- viii. Where threaded entries are not used, they shall be supplied fitted with suitably certified Ex eb mb ib or Ex tb ib blanking plugs.

14 Special Conditions for Safe Use (Conditions of Certification)

None.

Certificate Annex

Certificate Number CML 17ATEX3323
Equipment SA LUMIN EX Rechargeable Floodlight
Manufacturer SA Equipment Ltd



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

Issue 0

Drawing No.	Sheets	Rev.	Approved date	Title
SARF-EX-DWG	1 of 1	A	19 Jan 2018	SA LUMIN EX Rechargeable Floodlight Certification Drawing.

Issue 1

Drawing No.	Sheets	Rev.	Approved date	Title
SARF-EX-DWG	1 of 1	B	17 Feb 2021	SA LUMIN EX Rechargeable Floodlight Certification Drawing.