

UK Type Examination Certificate CML 23UKEX1066 Issue 0**United Kingdom Conformity Assessment**

1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

2 Equipment **SLED Lighting Fixtures**

3 Manufacturer **Cortem Group**

4 Address **via Aquileia 10**

34070 Villesse

Gorizia

Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

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 specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.

8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.

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 60079-1:2014

EN IEC 60079-7:2015+A1:2018

EN 60079-31:2014

10 The equipment shall be marked with the following:

 II 2 G D

Ex db eb IIB+H2 T4/T5/T6 Gb

Ex tb IIIC T100°C/T98°C/T95°C/T93°C/T90°C/T85°C Db IP66

Ta= -20°C to +40°C

-20°C to +60°C

-40°C to +40°C (only for IIB)

-40°C to +60°C (only for IIB)

-20°C to +50°C

-60°C to +60°C (only for IIIC)

-40°C to +50°C (only for IIB)



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11 Description

The Lighting Fixtures SLED wide area flood light series is suitable for use in outdoor and indoor hazardous areas, where inflammable or explosive vapours, gases or dusts are present.

The SLED-ME-600300, and SLED-MN-600300 are made with two separate explosion proof compartments, one containing the LED board, another containing the control gear.

In the SLED-ME-400200 and SLED-MN-400200, and the SLED-ME-250120, there are only one compartment with the LED board and the control gear. The explosion proof enclosure is composed of one body and one cover containing a glass window. These two components are joined by a flanged joint with screws.

Electrical terminations to the lighting fixture are through an increased safety housing on the rear.

Ambient	-20°C to +40°C -40°C to +40°C (only for IIB) -20°C to +50°C -40°C to +50°C (only for IIB) -20°C to +60°C -40°C to +60°C (only for IIB) IIC: -60 °C to +60 °C (only for IIIC)
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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	30/03/2023	R15769A/00	Issue of the prime certificate.

Note: Drawings that describe the equipment are listed or referred to 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. When installed, the equipment shall be subjected to a dielectric strength test using a test voltage of 1500 Vac applied between the circuit and earth for 60 s. Alternatively, a voltage of 20% higher may be applied for 1 s. There shall be no evidence of flashover or breakdown and the maximum current flowing shall not exceed 5 mA.
- iii. The routine overpressure test shall be carried out in accordance with the static method (IEC 60079-1, clause 15.1.3.1) at the following pressures:
 - 12.6 Bar – LED enclosure (SLED-ME-600300, SLED-ME-600400 and SLED-ME-600500)
 - 15.8 Bar – control gear enclosure (SLED-ME-600300, SLED-ME-600400 and SLED-ME-600500)
 - 12.6 Bar – full enclosure (SLED-ME-250120, SLED-ME-400200, SLED-ME-250180 and SLED-ME-400300)



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14 Specific Conditions of Use

None.

Certificate Annex

Certificate Number CML 23UKEX1066
Equipment SLED Lighting Fixtures
Manufacturer Cortem Group



The following documents describe the equipment defined in this certificate:

Issue 0

Drawing No.	Sheets	Rev	Approved date	Title
A3-8095	1 to 4	0	30/03/2023	Lighting Fixtures Series SLED Assembly and External Dimensions
A4-8157	1 to 4	0	30/03/2023	Technical Note