Type Examination Certificate CML 23UKEX4067 Issue 0

United Kingdom Conformity Assessment

1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended)

2 Equipment **SLED-MN-.. Lighting Fixtures**

3 Manufacturer **Cortem Group**

4 Address **Via Aquileia 10,**
34070 Villesse, (Go),
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, 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 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 IEC 60079-15:2019 EN 60079-31:2014

10 The equipment shall be marked with the following:

Ex II 3GD

Ex nR IIC T.. °C Gc

Ex tc IIIC T.. °C Dc IP66

Ta = -60°C to +60°C

11 Description

The Lighting Fixtures SLED-MN-.. 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-MN-.. models are made with Ex-nR mode of protection. The floodlight is made by one volume in which the glass is enclosed in the body by plates and screws. An O-ring gasket guaranties the IP degree and the breathing phenomena tight.

In all the models electrical terminations to the lighting fixture are through an increased safety housing on the rear.

Maximum ambient temperature and relative temperature classes/maximum surface temperatures

MOD	+40°C TEMP. CLASS / MAX SURFACE TEMP. (°C)	+50°C TEMP. CLASS / MAX SURFACE TEMP. (°C)	+55°C TEMP. CLASS / MAX SURFACE TEMP. (°C)	+60°C TEMP. CLASS / MAX SURFACE TEMP. (°C)
SLED-MN-400100	T6/T81°C	T5/T91°C	T5/T96°C	T4/T101°C
SLED-MN-400150	T5/T85°C	T5/T95°C	T4/T100°C	T4/T105°C
SLED-MN-400200	T5/T85°C	T5/T95°C	T4/T100°C	T4/T105°C
SLED-MN-600300	T5/T83°C	T5/T93°C	T4/T98°C	T4/T103°C
SLED-MN-600400	T5/T91°C	T4/T101°C	T4/T110°C	T4/T111°C
SLED-MN-600500	T5/T95°C	T4/T105°C	T4/T110°C	T4/T115°C

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	30/03/2023	R15769B/00	Issue of prime certification

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. Each unit shall be subjected to a routine dielectric strength test in accordance with the requirements of EN 60079-15:2019 Clause 6.2. The test shall be conducted at a voltage of at least 1500 V for at least 60 seconds. There shall be no breakdown or flashover observed as a result of the test.

iii. Separately certified Ex-Component terminals shall be installed in accordance with the manufacturer's instructions. The creepage and clearance distances shall be in accordance with EN IEC 60079-15. Any unused terminals shall be tightened.

iv. A routine restricted breathing test as per Clause 12.2.2 of EN IEC 60079-15. Equipment with a test port where the volume of the enclosure will be unchanged due to pressure.

11 Specific Conditions of Use (Special Conditions)

None.

Certificate Annex

Certificate Number	**CML 23UKEX4067**
Equipment	**SLED-MN-.. 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 of 4	0	30/03/2023	Lighting fixture series SLED assembly and external dimensions
A4-8157	1 to 4	0	30/03/2023	Technical Note