




## EU Type Examination Certificate CML 19ATEX1312 Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **SLED 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 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, 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 60079-1:2014	EN 60079-7:2015
EN 60079-28:2015	EN 60079-31:2014	
- 10 The equipment shall be marked with the following:

 II 2 GD

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

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

Ta = -20°C to +40°C

Ta = -40°C to +40°C (only for IIB)

Ta = -20°C to +50°C

Ta = -40°C to +50°C (only for IIB)

Ta = -20°C to +60°C

Ta = -40°C to +60°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-600 is made with two separate explosion proof compartments, one containing the LED board, another containing the control gear. In the SLED-400 and the SLED-250 there is 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)
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### Variation 1

This variation introduces the following changes:

- i. To allow the addition of a new model; ED-1001.I, SL
- ii. Update of a condition of manufacture to include the new model number.

## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	12 Jun 2019	R12548A/00	Issue of Prime Certificate
1	26 Nov 2019	R12847A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.



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### 13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. 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.
- ii. 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-600, SLED-1000 and SLED 1001)
  - 15.8 Bar – control gear enclosure (SLED-600, SLED-1000 and SLED 1001)
  - 12.6 Bar – full enclosure (SLED-250, SLED-400, SLED-401 and SLED-601)

### 14 Specific Conditions of Use (Special Conditions)

None.

## Certificate Annex

Certificate Number CML 19ATEX1312  
Equipment SLED Lighting Fixtures  
Manufacturer Cortem Group



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

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-6653	1 of 4	0	05 Apr 2017	SLED series wide area flood light Assembly and External Dimensions
A3-6653	2 of 4	0	05 Apr 2017	SLED series wide area flood light Ex d and gaskets details Op is Details
A3-6653	3 of 4	0	05 Apr 2017	SLED series wide area flood light Detail of connection
A3-6653	4 of 4	0	05 Apr 2017	SLED series wide area flood light Ex d e Details of mounting
A3-7294	1 of 2	0	12 Jun 2019	SLED series wide area flood light New models / Internal Volumes / Op-Is Details
A3-7294	2 of 2	0	12 Jun 2019	SLED series wide area flood light New models / Electrical diagram

### Issue 1

Drawing No	Sheets	Rev	Approved date	Title
A3-7461	1 of 1	0	26 Nov 2019	SLED-1001 Floodlight