



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX CML 17.0004</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 2	Issue 1 (2019-03-15) Issue 0 (2017-04-05)
Date of Issue:	2019-11-26		
Applicant:	<b>Cortem Group</b> Via Aquileia 10-34070 Villesse (GO) Italy		
Equipment:	<b>SLED Lighting Fixture</b>		
Optional accessory:			
Type of Protection:	<b>Flameproof "db", Increased Safety "eb", Optical Radiation "op is", Dust Ignition "tb"</b>		
Marking:	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: Refer to description		

Approved for issue on behalf of the IECEx  
Certification Body:

**R C Marshall**

Position:

**Certification Officer**

Signature:  
(for printed version)

Date:

**2019-11-26**

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Eurofins E&E CML Limited**  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port, CH65 4LZ  
United Kingdom





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Manufacturer: **Cortem Group**  
Via Aquileia  
10-34070 Villesse (GO)  
Italy

Additional  
manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-28:2015** Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/CML/EXTR17.0010/00

GB/CML/ExTR19.0046/00

GB/CML/ExTR19.0238/00

Quality Assessment Report:

IT/CES/QAR06.0002/13



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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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.

Refer to Annex for full description and conditions of manufacture.

**SPECIFIC CONDITIONS OF USE: NO**

No special conditions of safe use.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

### Issue 1

This issue introduced the following changes:

1. To introduce the SLED-1000 (two compartment) and the SLED-401 and SLED-601 (single compartment) to the SLED lighting fixture range.
2. To update the dust marking to include op is.

### Issue 2

This issue introduced the following changes:

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

### Annex:

IECEx CML 17.0004 Iss. 2 Certificate Annex\_1.pdf

Annexe to: IECEx CML 17.0004 Issue 2  
Applicant: Cortem Group  
Apparatus: SLED Lighting Fixtures



## 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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## 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)

## Specific Conditions of Use (Special Conditions)

None.

