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

Certificate No.:	**IECEx CML 19.0003X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2019-05-20)
Date of Issue:	2025-04-09		
Applicant:	**Cortem Group** Via Aquileia 10, 34070 Villesse, Gorizia **Italy**		
Equipment:	**EVML-M*-** LED luminaires**		
Optional accessory:			
Type of Protection:	**Increased Safety "eb", Encapsulation "mb", Dust Ignition "tb"**		
Marking:	Ex eb mb IIC T* Gb Ex ec mc IIC T* Gc Ex tb IIIC T* Db Ta= -60°C to +**°C "*" – Refer to description for temperature class, maximum surface temperature and ambient temperature.		

Approved for issue on behalf of the IECEx Certification Body: **D R Stubbings**

Position: **Technical Consultant**

Signature: (for printed version)

Date: (for printed version) 2025-04-09

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 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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Certificate No.: **IECEx CML 19.0003X** Page 2 of 4

Date of issue: 2025-04-09 Issue No: 1

Manufacturer: **Cortem Group**
Via Aquileia 10, 34070 Villesse, Gorizia
Italy

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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/ExTR19.0002/00 GB/CML/ExTR25.0054/00

Quality Assessment Report:

IT/CES/QAR06.0002/18

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The EVML-M*-** LED luminaires are comprised of an encapsulated LED board in a metallic body and an increased safety protected terminal box. The housing is made from either Aluminium alloy or Stainless Steel and has fins for the dissipation of heat.

Refer to Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:
Refer to Annex for specific conditions of use.

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Certificate No.: **IECEx CML 19.0003X**

Date of issue: 2025-04-09

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1:

1. To update the product nomenclature and description.
2. To introduce a new size of enclosure EVML-M*- 060.
3. To include three new LED Boards options
4. To remove op is marking.
5. To include a new terminal option.
6. To update to the latest version of standards

Annex:

Certificate Annex IECEx CML 19.0003X Iss. 1_1.pdf

Annexe to: IECEx CML 19.0003X, Issue 1

Apparatus: EVML-M*-** LED luminaires

Applicant: CORTEM S.p.A.

Description

The EVML-M*-** LED luminaires are comprised of an encapsulated LED board in a metallic body and an increased safety protected terminal box. The housing is made from either Aluminium alloy or Stainless Steel and has fins for the dissipation of heat.

The LED board is perimeter encapsulated by the perimetral encapsulation of temperate glass window in order to ensure the type of protection Ex mb for EVML-ME series and the type of protection Ex mc for EVML-MN series.

The cover glass window is a temperate plate and fixed by means of an aluminium or stainless-steel disk and screws. The glass has been subjected to a special treatment for protection from UV.

To ensure an additional electrical protection a surge protector can be installed and encapsulated below the Ex eb terminals.

Inside the Ex eb enclosure, the following component approved parts can be used:

Cabur TR.2 (ATEX: CESI03ATEX022U, IECEx: IECEx CES11.0004U)

Cabur RN.2 (ATEX: CESI03ATEX073U, IECEx: IECEx CES11.0009U)

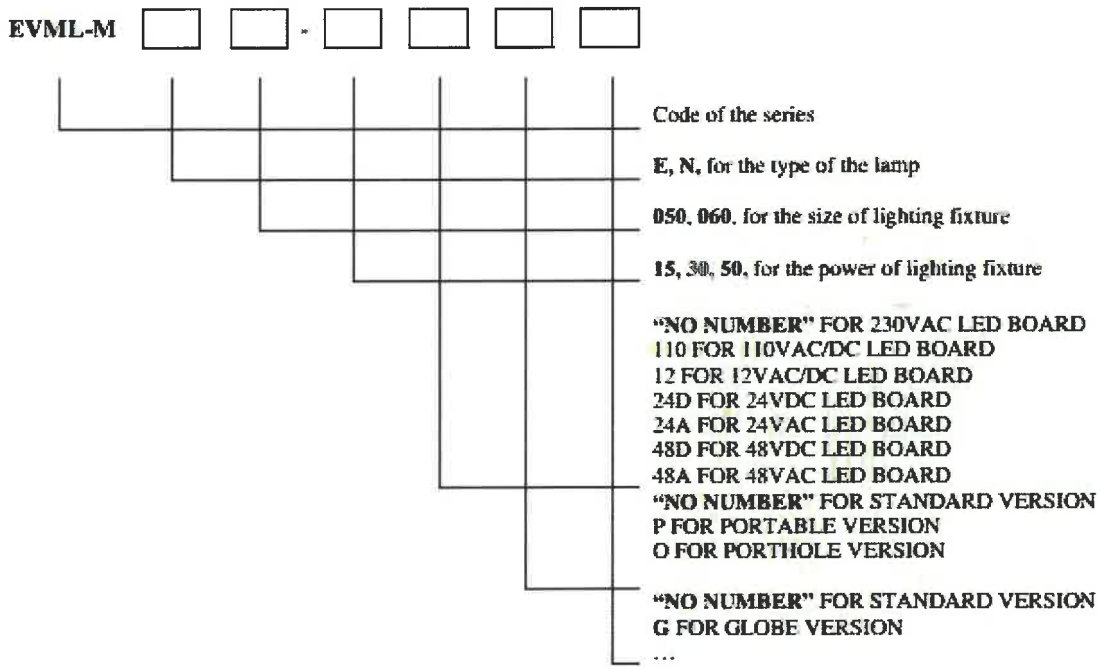
MUT (ATEX: SEV 13 ATEX 0178U, IECEx SEV 13.0012U)

Or similar terminals with the same electrical characteristics

Temperature Class/ Maximum surface Temperature (°C)				
Model	Lamp	Temperature Class		
		Ta <+40°C	Ta <+50°C	Ta <+60°C
EVML-M*-050015 EVML-M*-060015	LED Board 19W	T5/95°C	T4/105°C	T4/115°C
EVML-M*-050015-110 EVML-M*-060015-110	LED Board 12W Max	T6/64°C	T6/74°C	T5/84°C
EVML-M*-050015-12 EVML-M*-060015-12..	LED Board 18W Max	T6/66°C	T6/76°C	T5/86°C
EVML-M*-050015-24D EVML-M*-060015-24D	LED Board 16W	T6/66°C	T6/76°C	T5/86°C
EVML-M*-050015-24A EVML-M*-060015-24A	LED Board 13W	T6/64°C	T6/74°C	T5/84°C
EVML-M*-050015-48D EVML-M*-060015-48D	LED Board 15W	T5/81°C	T5/91°C	T4/101°C
EVML-M*-050015-48A EVML-M*-060015-48A	LED Board 15W	T6/77°C	T5/87°C	T4/97°C
EVML-M*-060030	LED Board 30W	T5/91°C	T4/101°C	T4/111°C
EVML-M*-060050	LED Board 50W	T5/91°C	T4/101°C	T4/111°C

*Some temperature classes/max. surface temperatures depend on the position of the lighting fixture.
*Lower temperature classes and surface temperatures are allowed with different inclination angle of the luminaires (see instructions manual for further details).

Nomenclature for Luminaires:



Other suffix can be added on the code for particular configurations.

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. The luminaires shall be subjected to a routine test as per IEC 60079-18 clause 9.2 and IEC 60079-7 clause 7.1, performed at 1500V r.m.s. for 60 seconds.

iii. Each piece of "m" equipment shall be subjected to a visual inspection in accordance with IEC 60079-18 clause 9.1. No damage shall be evident such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure of adhesion or softening.

iv. When an ambient temperature range of -60°C to +60°C is applied, terminals with suitable service temperature shall be used according to SEV 13 ATEX 0178U, IECEx SEV 13.0012U.

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

i. Only suitably approved increased safety cable glands marked "Ex eb" or "Ex db" shall be used.

Components used which are covered by Ex Certificates issued to older editions of Standards

N/A

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