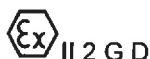




## EU Type Examination Certificate CML 19ATEX3019X Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **EVML-M\*-\*\* LED luminaires**
- 3 Manufacturer **CORTEM S.p.A.**
- 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 CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, 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 IEC 60079-7:2015+A1:2018    EN IEC 60079-18:2015+A1:2017  
EN IEC 60079-31:2024
- 10 The equipment shall be marked with the following:



II 2 G D

Ex eb mb IIC T\* Gb

Ex tb IIIC T\* Db

Ta=-60°C to +\*\*°C

\*\* – Refer to description for temperature class, maximum surface temperature and ambient temperature.



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in its entirety and without change

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1 of 4

D R Stubbings  
Certification Officer

## 11 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

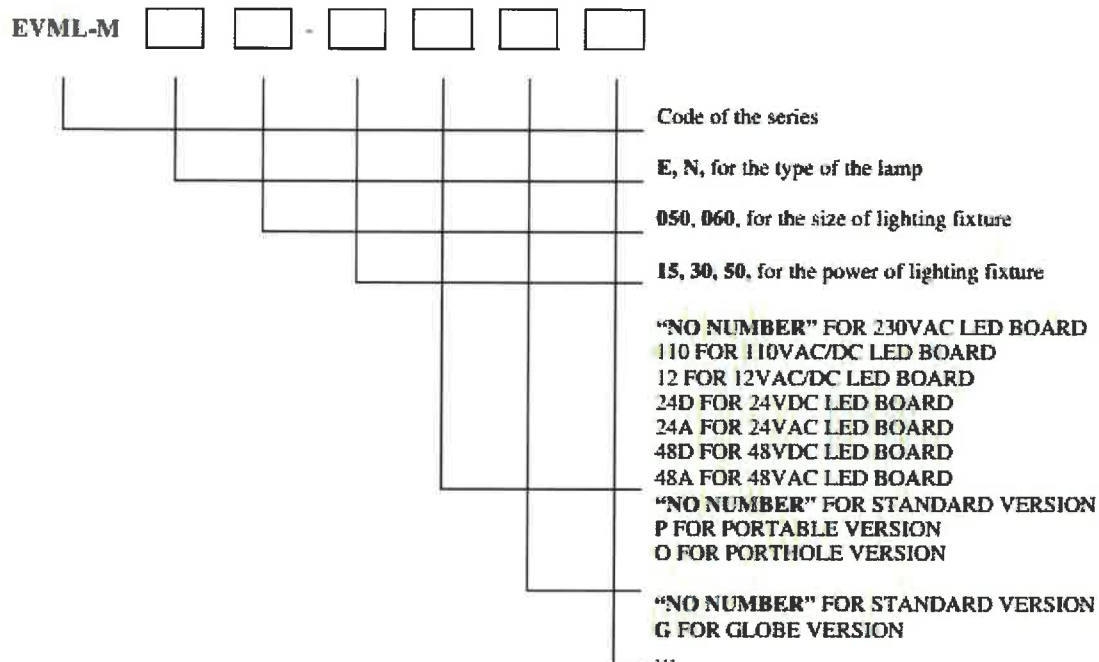
\*Some temperature classes/max. surface temperatures depend on the position of the lighting fixture.

\*Lower temperature classes and surface temperatures are allowed with different inclination angle of the luminaires (see instructions manual for further details).

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Nomenclature for Luminaires:



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

### Variation 1

This variation introduces the following modifications:

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

## 12 Certificate history and evaluation reports

Issue	Date	Associated Report	Notes
0	20 May 2019	R12164A/00	Issue of Prime Certificate.
1	09 Apr 2025	R18014A/00	Issue of Variation 1.

Note: Drawings that describe the equipment or component are listed 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. The luminaires shall be subjected to a routine test as per EN 60079-18 clause 9.2 and EN/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 EN 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.

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

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.

## Certificate Annex

**Certificate Number** CML 19ATEX3019X Issue 1  
**Equipment** EVML-M\*-\*\* LED luminaires  
**Manufacturer** CORTEM S.p.A.



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

### Issue 0

Drawing No	Sheets	Rev	Approved Date	Title
A3-7255	1 of 7	0	20 May 2019	EVML-50 Lighting Fixture Assembly and External Dimensions Op is details
A3-7255	2 of 7	0	20 May 2019	EVML-50 Lighting Fixture Assembly and External Dimensions
A3-7255	3 of 7	0	20 May 2019	EVML-50 Lighting Fixture Assembly and External Dimensions
A3-7255	4 of 7	0	20 May 2019	EVML-50 Lighting Fixture Assembly and External Dimensions
A3-7255	5 of 7	0	20 May 2019	Lighting Fixture EVML-50 Detail of Mounting / Typical Circuit Diagram
A3-7255	6 of 7	0	20 May 2019	Lighting Fixture EVML-50 Accessories
A3-7255	7 of 7	0	20 May 2019	Lighting Fixture EVML-50 Accessories

### Issue 1

Drawing No	Sheets	Rev	Approved Date	Title
A3-7255	1 of 7	1	09-04-2025	EVML-M..-050 LED Lighting Fixture Assembly and External Dimensions
A3-7255	2 of 7	1	09-04-2025	EVML-M..-050 LED Lighting Fixture and External Dimensions
A3-7255	3 of 7	1	09-04-2025	EVML-M..-050 LED Lighting Fixture Assembly and External Dimensions
A3-7255	4 of 7	1	09-04-2025	EVML-M..-050 LED Lighting Fixture Assembly and External Dimensions
A3-7255	5 of 7	1	09-04-2025	Lighting Fixture EVML-M..-050 Detail of Mounting / Typical Circuit Diagram
A3-7255	6 of 7	1	09-04-2025	Lighting Fixture EVML-M..-050 Accessories
A3-7255	7 of 7	1	09-04-2025	Lighting Fixture EVML-M..-050 Accessories

## Certificate Annex

**Certificate Number** CML 19ATEX3019X Issue 1  
**Equipment** EVML-M\*-\*\* LED luminaires  
**Manufacturer** CORTEM S.p.A.



Drawing No	Sheets	Rev	Approved Date	Title
A3-8445	1 of 3	0	09-04-2025	EVML-M..-060 LED Lighting Fixture Assembly and External Dimensions
A3-8445	2 of 3	0	09-04-2025	EVML-M..-060 LED Lighting Fixture Encapsulation details
A3-8445	3 of 3	0	09-04-2025	EVML-M..-060 LED Lighting Fixture Increased Safety part details
A4-7249	1 to 7	1	09-04-2025	Technical note