

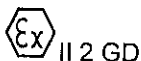


EU Type Examination Certificate CML 19ATEX3019X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **EVML-50 LED luminaires**
- 3 Manufacturer **Cortem Group**
- 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 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 60079-0:2018	EN 60079-7:2015	EN 60079-18:2015
EN 60079-28:2015	EN 60079-31:2014	
- 10 The equipment shall be marked with the following:



II 2 GD

Ex eb mb op is IIC T* Gb

Ex tb op is IIIC T* Db

Ta=-40°C to +**°C

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



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11 Description

The EVML-50 LED luminaires are comprised of an encapsulated LED board and an Ex e protected terminal box. The housing is made from either Aluminium alloy or Stainless Steel and has fins for the dissipation of heat.

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

Inside the Ex e enclosure, the following component approved parts are used:

Cabur TR.2 (ATEX: CESI03ATEX022U, IECEX: IECEX CES11.004U)

Cabur RN.2 (ATEX: CESI03ATEX073U, IECEX: IECEX CES11.009U)

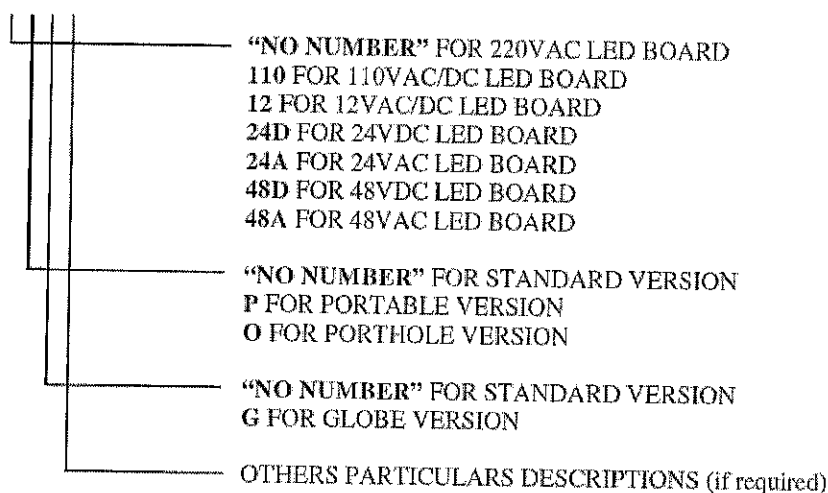
Or similar terminals with the same electrical characteristics

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

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

Nomenclature for Luminaires:

EVML-50././././..





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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	20 May 2019	R12164A/00	Issue of Prime Certificate

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 shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. The luminaires shall be subjected to a routine test as per EN/IEC 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/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.

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" shall be used.

Certificate Annex

Certificate Number CML 19ATEX3019X
Equipment EVML-50 LED luminaires
Manufacturer Cortem Group



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

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7255	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