




1. **EC-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. **EC-Type Examination Certificate Number:** ITS 15 ATEX 18233

4. **Equipment or Protective System:** Lighting fixture model EVML-50*

5. **Manufacturer:** Cortem S.p.A.

6. **Address:** Via Aquileia,
10 - 34070 Villesse (Go)
Italy

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Intertek Report Ref 101799670UDI-001B Issue 1 dated June 2015.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012, EN 60079-7:2007, EN 60079-18:2009 and EN 60079-31:2014 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This EC Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:-



II 2G Ex e mb II Tx Gb
II 2D Ex tb IIIC Tx Db IP66

$-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

Vijay K. Varma

V K Varma
Certification Officer
18 June 2015

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SCHEDULE

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13. Description of Equipment or Protective System

Lighting fixture EVML-50 is composed by an encapsulated led board and a terminal box in Ex e protection.
The housing is made in aluminium alloy (or stainless steel) and it has fins for the dissipation of the heat,

The cover glass is a temperate plate, it is fixed by means of a stainless steel disk and screws.
The glass is been subjected to a special treatment for the UV protection.

Inside the Ex e enclosure is present a set of Ex e terminals:
Cabur TR.2 (Atex: CESI03ATEX022U, IECEX: IECEX CES11.004U)
Cabur RN.2 (Atex: CESI03ATEX073U, IECEX: IECEX CES11.009U)

	EVML-50			EVML-50/110		
T _{amb}	+40°C	+55°C	+60°C	+40°C	+55°C	+60°C
Gas	T6	T6	T5	T6	T6	T5
Dust	+60°C	+75°C	+80°C	+60°C	+75°C	+80°C
	220V ac, 19W			110V ac/dc, 12W		

14. Report Number

Intertek Report Ref: 101799670UDI-001B Issue 1 dated June 2015

15. Conditions of Certification

(a). Special Conditions for safe use

- None

(b). Conditions of Manufacture

- The routine dielectric test on the Ex e mb luminaries with applied voltage shall be performed at a minimum value of 1000V+2U for 1 minute.
The test has to be performed at 1500V r.m.s. for 60 second, because of the requirement of the EN 60079-18.
- Visual routine inspection: Each piece of "m" equipment shall be subjected to a visual inspection. 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.

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16. **Essential Health and Safety Requirements (EHSR's)**

The relevant EHSR's have been identified and assessed in Intertek Report Ref: 101799670UDI-001B Issue 1 dated June 2015

17. **Drawings and Documents**

Title	Drawing No.:	Rev. Level:	Date:
EVML-50LED Lighting Fixture Assembly and External Dimensions	A3-6167, 5 sheets	0	10 February 2014
TECHNICAL NOTE	A4-6171, 3 sheets	0	10 February 2014
Safety, Maintenance and mounting instructions	F-403, 6 sheets	0	10 February 2014
Datasheet of materials used	N/A	N/A	6 August 2014

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