




# 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: ITS14ATEX18144

4. Equipment or Protective System: Explosion proof lighting fixtures model EVL-...

5. Manufacturer: CORTEM S.P.A.

6. Address: Cortem S.p.A.  
Via Aquileia, 10 - 34070 Villesse (Go)  
ITALY

7. This equipment or protective system and any acceptable variation thereto are 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 10755936UDI-001B, dated November 14<sup>th</sup>, 2014.

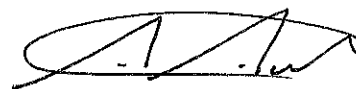
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012, EN 60079-1:2009, EN 60079-7:2007 and EN 60079-31:2009 except in respect of those requirements referred to at item 18 of the Schedule.

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 and construction 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 de IIC Tx Gb     $T_{amb} -20^{\circ}C$  to  $+60^{\circ}C$  or  $+40^{\circ}C$   
 II 2D Ex tb IIIC Tx Db IP66  $T_{amb} -20^{\circ}C$  to  $+60^{\circ}C$  or  $+40^{\circ}C$



A.T. Austin  
Certification Officer  
06-02-2015

Intertek Testing & Certification Limited  
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Registered No 1408264 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex

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- 13. SCHEDULE
- 14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS14ATEX18144
- 15. Description of Equipment or Protective System  
Lighting fixtures series EVL... are available in three sizes:

MODEL	LED BOARD /LED ARRAY	Power
EVL-60	CREE CXA 2530	31.5W
EVL-60-1	CREE CXA 2530	45W
EVL-60B /10/20/40/60/80	Board with 9LEDs G-722	33W
EVL-70	CREE CXA 3050	60W
EVL-70B /10/20/40	Board with 18 LEDs G-659	42W
EVL-80	CREE CXA 3590	88W
EVL-80-1	CREE CXA 3070	90W

The luminaries each consist of a flameproof enclosure and an integrated increased safety terminal enclosure constructed from the same casting and separated by a certified bushing. (CESI 01 ATEX 080 U; IECEX CES 10.0003 U), the model is TP16.1.5B.

The flame proof enclosure contains the LED board or a LED array and the power supply. The enclosure has a glass window and it is made from tempered glass and it is sealed by means of silicone compound.

In the Ex-e terminal box are the Ex-e terminals. The models and the certificates are:  
BPL.4 TPL.4 (CABUR) voltage 320V (plastic screws shall be used for fixing) IECEX CES 11.0008U

	EVL-60		EVL-70		EVL-80	
	+40°C	+60°C	+40°C	+60°C	+40°C	+60°C
<b>Temperature class</b>	<b>T6</b>	<b>T5</b>	<b>T4</b>	<b>T4</b>	<b>T4</b>	<b>T4</b>
<b>Max surface temp for dusts</b>	<b>85°C</b>	<b>100°C</b>	<b>135°C</b>	<b>135°C</b>	<b>135°C</b>	<b>135°C</b>

- 16. Report Number:  
Intertek Report 10755936UDI-001B, dated November 14th, 2014.
- 17. CONDITIONS OF CERTIFICATION:
  - (a). Special Conditions for safe use  
None
  - (b). Conditions For Use (Routine Tests)  
Routine overpressure test of the Ex d enclosure at 12.42bar for a period of 10 s minimum  
The routine dielectric test on the Ex de luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1500V (U = rated voltage of the lamp).

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- 13. SCHEDULE
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- 18. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report 10755936UDI-001B, dated November 14th, 2014.

- 19. Drawings and Documents

Number	Title	Issue	Date
A36114 (4 Sheets)	Lighting Fixture Series	1	11.09.2014

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