



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: ITS11ATEX17267

4. Equipment or Protective System: EWL LED Lighting Fixture

5. Manufacturer: Cortem S.p.A

6. Address: Via Aquileia, 10 34070 Villesse, Gorizia, 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 Report Number: Intertek Report Ref 11051755 Issue 1 dated October 2011, G101092677 dated September 2013

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2009, EN 60079-1:2007, 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, 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 2 GD Ex d e IIC T5 (Tamb -20°C to +60°C) Gb

Ex tb IIIC T100°C (Tamb -20°C to +60°C) Db IP66

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977
www.intertek.com

V K Varma
Certification Officer
21 November 2013

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

This certificate may only be reproduced in its entirety and without any change, schedule included and is subject to Intertek Testing and Certification's Conditions for Granting Certification.



13. **Schedule**

14. **EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS11ATEX17267**

15. **DESCRIPTION OF EQUIPMENT OR PROTECTIVE SYSTEM**

EWL series LED Lighting fixtures consist of a three part metal enclosure comprising of a lamp, control gear and terminal enclosure. The lamp enclosure is fitted with a window secured by Silicone rubber cement. The enclosures are subdivided by the use of flameproof cable gland lead through devices certified by CESI according to certificate CESI01ATEX080U. External connections are made via pre certified terminals located in the increased safety terminal enclosure. The enclosures may be manufactured from Aluminium Alloy or Stainless Steel. The enclosures are sealed using Silicone o-ring seals.

The lamp enclosure contains a PCB with Maximum 98 Cree Xp-E, Xp-G or Xp-C LED's (Other manufacturer's LED's are acceptable with power ratings up to and including 1.26W). The control gear enclosure contains the power supply equipment for the LED's - model TXH-120 manufactured by 'Traco Power'. The lamp enclosure does not contain any user serviceable parts and is secured against loosening by both thread locking compound and a grub screw.

The EWL-100 is a larger version of EWL range of floodlights. Switchgear and lamp enclosures are larger when compare with EWL 60 to 80 and the increased safety terminal box is the same size as before. The glass windowed lid cover is cylindrical joint for EWL-100 whereas for EWL 60 to 80 is constructed as threaded joint. An alternative power supply manufactured by Teletronics model 6E100DC24-24DC is permitted for the EWL-100 only.

The EWL 60 to 80 series are rated for use at 100-240V at 47-63Hz. EWL-100 is rated 100-240V at 47-65Hz.

- EWL-60 Watts – 60 Max
- EWL-70 Watts – 84 Max
- EWL-80 Watts – 120 Max
- EWL-100 Watts – 188 Max

16. **REPORT NUMBER**

Intertek Report Ref 11051755 Issue 1, dated October 2011

17. **SPECIAL CONDITIONS FOR SAFE USE**

a) Special Conditions for Safe Use:

None

b) Conditions for Use for EWL-60 to 80 (Routine Tests):

Each lamp enclosure to be routinely pressure tested at 172.5 Psi for a period of 10s

Each feeder enclosure to be routinely pressure tested at 135 Psi for a period of 10s

Each lamp to be routine dielectric strength tested at 1500 V for a period of 60s

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977

www.intertek.com

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification.

Schedule

EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS11ATEX17267

c) Condition for Safe Use for EWL-100 only (Routine Tests):

- Each lamp enclosure to be routinely pressure tested at 224 Psi for a period of 10s
- Each switch gear enclosure to be routinely pressure tested at 340 Psi for a period of 10s
- Each lamp to be routine dielectric strength tested at 1500 V for a period of 60s

18. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (ESHR'S)

The relevant EHSR's that have not been addressed by the standards listed in this certificate have been identified and assessed in Intertek Report Ref 11051755 Issue 1, dated October 2011

19. DRAWING

Document	Issue	Date	Description
A3-5484 (4 Sheets)	0	01/02/2011	Lighting Fixture Series EWL
A4-5593	0		Lampada serie EWL – Telaio Alimentatore

Issue 1: Project No G100735079

To permit the variant incorporating a converter that will accept 24 V dc input. The converter is manufactured by Teletronics – type 6E70DC24-24DC.

Issue 2: Project No G101092677

To permit the following changes thus making **Model EWL 100 LED Lighting Fixture**:

1. Correction of certificate number from ITS11ATEX17287 to **ITS11ATEX17267**
2. Inclusion of a 24V DC power supply manufactured by Teletronics type 6E100DC24-24DC.
3. New lamp and switch gear enclosure designs.
4. Re-assessment to EN 60079-0:2012. Hence the new coding of the equipment is as follows:

Ex II 2 GD Ex d e IIC T5 Gb
-40°C ≤ Ta ≤ +60°C
Ex tb IIIC T100°C Db IP66
-40°C ≤ Ta ≤ +60°C

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977
www.intertek.com

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification.



Schedule

EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS11ATEX17267

5. Drawings:

Document	Issue	Date	Description
A3-5816 – 4 Sheets	0	05.02.2013	Lighting Fixture EWL-100

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977
www.intertek.com

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification.