

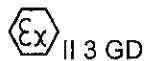


Type Examination Certificate CML 17ATEX4159X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Lighting Fixture Series EVNL**
- 3 Manufacturer **Cortem Group**
- 4 Address **Via Aquileia, 10**
34070 Villesse (GO)
Italy
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of equipment intended for use in potentially explosive atmospheres given in Annex II of Directive 2014/34/EU.

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 certification (affecting correct installation or safe use). These are specified in Section 14.
- 8 This Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Annex VIII apply to the manufacture of the equipment or component.
- 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 60079-0:2012+A11:2013 EN 60079-15:2010 EN 60079-31:2014
- 10 The equipment shall be marked with the following:



II 3 GD

Ex nR IIC T* Gc

Ex tc IIIC T**°C Dc

IP66

Ta= -40°C to +50/60°C

*Note: Refer to description for temperature class and surface temperature.



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11 Description

The Lighting Fixture Series EVNL Luminaires comprise of an aluminium or stainless steel enclosure fitted with a tempered glass or polycarbonate lens that incorporates a gasket for sealing and an aluminium or stainless steel bracket for security. The enclosure incorporates fins for heat dissipation and a terminal cover. The enclosure contains an LED or board or array, a driver circuit and terminals.

| Model | Power | Input Voltage | Input Frequency | EPL | Temp. Class / Max Surface Temp (°C) | |
|--|-------|----------------------|-----------------|-------|-------------------------------------|-------------|
| | | | | | +50°C | +60°C |
| EVNL-60 | 30 W | 120/ 240/ 277 VAC | 47-63 Hz | Gc/Dc | T6 / T83°C | T5 / T93°C |
| EVNL-60B / 10/ 20/ 40/ 60/ 80 | 33 W | 120/ 240/ 277 VAC | 47-63 Hz | Gc/Dc | T6 / T83°C | T5 / T93°C |
| EVNL-70 | 60 W | 120/ 240/ 277 VAC | 47-63 Hz | Gc/Dc | - | T4 / T122°C |
| EVNL-70B / 10/ 20/ 40 | 42 W | 120/ 240/ 277 VAC | 47-63 Hz | Gc/Dc | - | T4 / T122°C |
| EVNL-80 | 88 W | 220-240 VAC | 50-60 Hz | Gc/Dc | - | T4 / T122°C |
| EVNL-80B / 10/ 20/ 40 | 83 W | 220-240 VAC | 50-60 Hz | Gc/Dc | - | T4 / T122°C |
| EVNL-100 | 154 W | 100-277 VAC | 50-60 Hz | Gc/Dc | - | T4 / T122°C |
| EVNL- 100B / 10/ 20/ 40 | 160 W | 100-277 VAC | 50-60 Hz | Gc/Dc | - | T4 / T122°C |
| EVNL-60P | 30 W | 120/ 240/ 277 VAC | 47-63 Hz | Gc/Dc | T6 / T83°C | T5 / T93°C |
| EVNL- 60BP / 10/ 20/ 40/ 60/ 80 | 33 W | 120/ 240/ 277 VAC | 47-63 Hz | Gc/Dc | T6 / T83°C | T5 / T93°C |
| EVNL-70P | 60 W | 120/ 240/ 277 VAC | 47-63 Hz | Gc/Dc | T4 / T112°C | - |
| EVNL- 70BP / 10/ 20/ 40 | 42 W | 120/ 240/ 277 VAC | 47-63 Hz | Gc/Dc | T4 / T112°C | - |
| EVNL-80P | 88 W | 220-240 VAC | 50-60 Hz | Gc/Dc | T4 / T112°C | - |
| EVNL- 80BP / 10/ 20/ 40 | 83 W | 220-240 VAC | 50-60 Hz | Gc/Dc | T4 / T112°C | - |
| EVNL- 100P | 154 W | 100-277 VAC | 50-60 Hz | Gc/Dc | T4 / T112°C | - |
| EVNL- 100BP / 10/ 20/ 40 | 160 W | 100-277 VAC | 50-60 Hz | Gc/Dc | T4 / T112°C | - |



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12 Certificate history and evaluation Reports

| Issue | Date | Associated report | Notes |
|-------|-------------|-------------------|----------------------------|
| 0 | 02 Oct 2017 | R1817A/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. The EVNL-60 models shall be subjected to a routine pressure test in accordance with EN 60079-15 clause 23.2.3. Each unit shall be subjected to an internal pressure of at least 0.3 kPa below atmospheric. The unit should hold at least half of the initial value for at least 90 seconds. The pressure test is to be conducted through a cable entry point. Refer to instructions for methodology.
- ii. Each unit manufactured shall be subjected to an electric strength test in accordance with EN 60079-15 clause 23.2.1 or 23.2.2. It shall be carried out either at 1000 V + 2U for 60 seconds or at 1.2 times this test voltage for at least 100 ms.

14 Special Conditions for Safe Use (Conditions of Certification)

The following are conditions for safe use:

- i. When the polycarbonate lens is used, due to the risk of static hazards, the equipment shall only be cleaned with a damp cloth.
- ii. The equipment shall be used with appropriately certified and dimensioned restricted breathing cable glands or blanking plugs. Alternatively, the equipment can be used with appropriately certified and dimensioned increased safety cable glands. The increased safety cable glands shall also include ingress protection level IP66 as part of their certification.

Certificate Annex

Certificate Number CML 17ATEX4159X
Equipment Lighting Fixture Series EVNL
Manufacturer Cortem Group



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

Issue 0

| Drawing No | Sheets | Rev | Approved date | Title |
|------------|--------|-----|---------------|--|
| A3-6626 | 1 of 4 | 0 | 02 Oct 2017 | Lighting Fixture Series EVNL Assembly and External Dimensions |
| A3-6626 | 2 of 4 | 0 | 02 Oct 2017 | Lighting Fixture Series EVNL Gasket and Window Dimension |
| A3-6626 | 3 of 4 | 0 | 02 Oct 2017 | Lighting Fixture Series EVNL Wiring and Label |
| A3-6626 | 4 of 4 | 0 | 02 Oct 2017 | Lighting Fixture Series EVNL Detail of Mounting/ Typical Circuit Diagram |