

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2]

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU – Annex III

[3] Certificate Number: **EPT 20 ATEX 4087 X** issue 0

[4] Equipment: **Lighting fixtures**
 Series: **EVNL**

[5] Manufacturer: **CORTEM S.P.A.**

[6] Address: **Via Aquileia, 10 – 34070 Villesse (Go) - Italy**

[7] This equipment and its accepted variations are specified in the annex to this Certificate.

[8] Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26th 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 of the Directive.

The examination and test results are recorded in the confidential Report N° EPT.20.REL.03/2013057.


[9] Compliance with the essential health and safety requirements is assured through the verification of them and by compliance with the harmonized standards:

EN IEC 60079-0:2018; EN 60079-31:2014

[10] If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.

Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

[12] The equipment shall include the sign  and the following string:

II 2D Ex tb IIIC T135...T85 °C Db

-60/-40°C < Tamb < +40/50/60°C



Place and date of issue:

Torino, 2020-11-30

Dionisio Bucchieri

 Dionisio Bucchieri
 Directive Responsible

Paolo Trisoglio

 Paolo Trisoglio
 Managing Director



Notified Body N. 0477



PRD N° 119B
 Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
 Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This Certificate has 6 pages and it is reproducible only in its entirety. Conditions of validity are reported below.



[13]

ANNEX

[14]

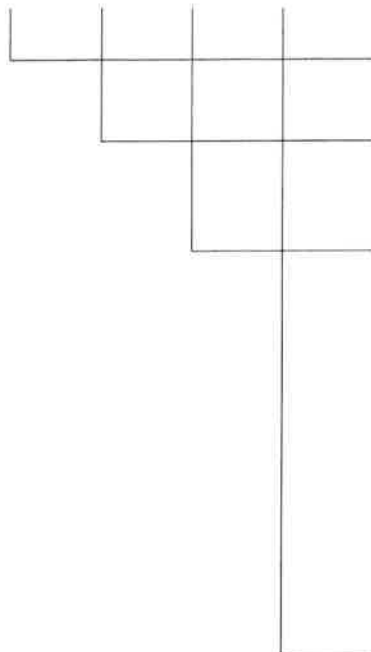
EU-TYPE EXAMINATION CERTIFICATE N. EPT 20 ATEX 4087 X issue 0

[15] Equipment description

The lighting fixtures series EVNL are composed of an enclosure in aluminum or stainless steel and a light transmitting part fixed on that enclosure by a bracket. The light transmitting part is made of glass or two different types of polycarbonate. The housing has fins for the dissipation of the heat and it is closed on the bottom by a cover fixed with screws. The glass is plate and temperate, and on it is mounted a gasket. The enclosures contain the LED board or a LED array, the driver and the terminals.

Type Code:

EVNL-



Code of the series

060,070,080 or 100 for the size of lighting fixture

020,030,040,050,060,070,080,090,100,110,120,130,140,150,160,170,180,190,200,210 or 220 for the power of lighting fixture

A combination of 4 characters to distinguish the all possible EVNL versions in base on:

- Type of power supply,
- Glass or polycarbonate window,
- If dimmable or not,
- Type of light source,
- Type of mounting,
- Ambient temperature,
- Other possible electrical / mechanical variants present in this certificate.

Equipment characteristics:

Maximum rated voltage: 277 Vac/Dc

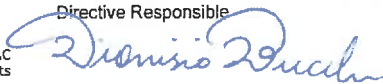
Rated frequency: 50/60 Hz

Maximum rated power: 225 W



PRD N° 119B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Dionisio Bucchieri
Directive Responsible



Page 2 of 6
2020-11-30

[13]

[14]

ANNEX
EU-TYPE EXAMINATION CERTIFICATE N. EPT 20 ATEX 4087 X issue 0

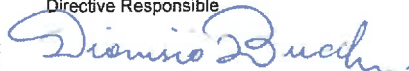

Electrical characteristics:

| Model (with glass window) | Max power | Power supply | Frequency |
|------------------------------|-----------|-------------------------------|------------|
| EVNL-060020.. | 25W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-060030.. | 33W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-060040.. | 45W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-060050.. | 55W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-070030.. | 35W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-070040.. | 45W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-070050.. | 55W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-070060.. | 65W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-070070.. | 75W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-070080.. | 85W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-080080.. | 85W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-080090.. | 95W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-080100.. | 105W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-080110.. | 115W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-080120.. | 125W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-100120.. | 125W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-100130.. | 135W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-100140.. | 145W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-100150.. | 155W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-100160.. | 165W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-100170.. | 175W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-100180.. | 185W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-100190.. | 195W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-100200.. | 205W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-100210.. | 215W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-100220.. | 225W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |



PRD N° 119B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Dionisio Bucchieri
Directive Responsible



Page 3 of 6
2020-11-30

[13]

[14]

ANNEX

EU-TYPE EXAMINATION CERTIFICATE N. EPT 20 ATEX 4087 X issue 0



| MODEL (with window) | polycarbonate | MAX POWER | POWER SUPPLY | FREQUENCY |
|------------------------|---------------|-----------|-------------------------------|------------|
| EVNL-060.. | | 30W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-070.. | | 60W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-080.. | | 90W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |
| EVNL-100.. | | 160W | 12, 24, 42, 48, 100-277VAC/DC | 0/50/60 Hz |

Temperature classes and maximum surface temperature.

Glass window

| EVNL size | Power consumption | Max ambient temperature | | |
|------------|-------------------------------------|-------------------------|--------|--------|
| | | +40°C | +50°C | +60°C |
| EVNL-060.. | $P \leq 33\text{ W}$ | T85°C | T85°C | T100°C |
| | $33\text{ W} < P \leq 45\text{ W}$ | T85°C | T100°C | T135°C |
| | $45\text{ W} < P \leq 55\text{ W}$ | T100°C | T135°C | T135°C |
| EVNL-070.. | $P \leq 45\text{ W}$ | T85°C | T100°C | T135°C |
| | $45\text{ W} < P \leq 65\text{ W}$ | T100°C | T100°C | T135°C |
| | $65\text{ W} < P \leq 85\text{ W}$ | T135°C | T135°C | T135°C |
| EVNL-080.. | $P \leq 85\text{ W}$ | T100°C | T135°C | T135°C |
| | $85\text{ W} < P \leq 125\text{ W}$ | T135°C | T135°C | T135°C |
| EVNL-100.. | $P \leq 225\text{ W}$ | T135°C | T135°C | T135°C |

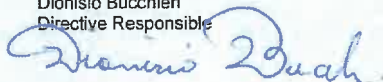
Polycarbonate window (for type 1 polycarbonate minimum Ta -40°C)

| EVNL size | Power consumption | Max ambient temperature | | |
|------------|-----------------------|-------------------------|---|---|
| | | +40°C | +50°C (Only with type 1 polycarbonate) | +60°C (Only with type 1 polycarbonate) |
| EVNL-060.. | $P \leq 30\text{ W}$ | T85°C | T85°C | T100°C |
| EVNL-070.. | $P \leq 60\text{ W}$ | T135°C | T135°C | |
| EVNL-080.. | $P \leq 90\text{ W}$ | T135°C | T135°C | |
| EVNL-100.. | $P \leq 160\text{ W}$ | T135°C | T135°C | |



PRD N° 119B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Dionisio Bucchieri
Directive Responsible



Page 4 of 6
2020-11-30



[13]

ANNEX

[14]

EU-TYPE EXAMINATION CERTIFICATE N. EPT 20 ATEX 4087 X issue 0**Cable entries**

The entries into the enclosures are provided by two threaded holes in the walls of the terminals enclosure. The terminals enclosure can have one or two cable entries. When one entry is not used, it is left closed by a plug covered by a separate certificate (IMQ 16 ATEX 005 X). The cable gland is covered by a separate certificate with types of protection Ex nR and Ex tb.

Warning label

"Do not open when an explosive atmosphere is present".

"Do not open when energized".

"Use cable suitable for a temperature of 85°C".

"Potential electrostatic charging hazard see instructions".

Only for EVNL-.. transportable versions: "Warning – Do not transport when energized"

Only for EVNL-.. pole mounting versions - "Warning – Use a sealing fitting to preserve the IP protection degree".

Routine tests

None.

[16] Assessment Report n° EPT.20.REL.03/2013057.

This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this certificate performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

[17] Specific condition of use

When the polycarbonate lens is used, due to the risk of static hazards, the equipment shall only be cleaned with a damp cloth.

The equipment shall be used only with cable gland / plug with separate certificate IMQ ATEX 16 005 X, IMQ 17 ATEX 016 X or other cable glands Ex nR and Ex tb certified.



PRD N° 119B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Dionisio Bucchieri
Directive Responsible



Page 5 of 6
2020-11-30



[13]

ANNEX

[14]

EU-TYPE EXAMINATION CERTIFICATE N. EPT 20 ATEX 4087 X issue 0

[18] **Essential Health and Safety Requirements**

Assured by compliance with harmonized standards.

[19] **Descriptive documents**

The equipment object of this Certificate is described by the following documents that are scheduled documents and therefore they cannot be modified without the explicit authorization of the Notified Body.

| Type of document | Document identification | Rev. | Date |
|---------------------|---|------|------------|
| Scheduled | | | |
| Technical note | "TECHNICAL NOTE A4-7544" | 01 | 2020-11-18 |
| Safety instructions | "F-469 ISTR. EVNL: Safety, maintenance and mounting instruction for EVNL series lighting fixture" | 01 | 2020-11-18 |
| Dimensional drawing | Dimensional drawing "A3-7543 EVNL" | 01 | 2020-11-18 |

[20] **Terms and conditions**

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

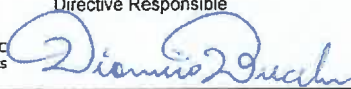
[21] **History**

This Certificate is at its first issue.



PRD N° 119B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Dionisio Bucchieri
Directive Responsible



End of Certificate

Page 6 of 6
2020-11-30