

TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in potentially explosive atmospheres [2] Directive 2014/34/EU

[3] Certificate Number: **EPTI 20 ATEX 0389 X**

issue 0

[4] Equipment:

[1]

Lighting fixtures

Series:

EVNL

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

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

- This equipment and any acceptable variation thereto are specified in the annex to this Certificate and the [7] documents reported in it.
- Eurofins Product Testing Italy S.r.l., certifies that this equipment has been found to comply with the [8] 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.01/2013078
- Compliance with the essential health and safety requirements is assured through the verification of them [9] and by compliance with the harmonized standards:

EN IEC 60079-0:2018; EN 60079-15:2010

- If the sign "X" is placed after the Certificate number the equipment is subjected to special conditions for [10] safe use specified in the annex to this Certificate.
- This TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the [11] equipment specified. 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 $\langle \xi_{x} \rangle$ and the following string:

II 3G Ex nR IIC T4...T6 Gc

-60/-40°C < Tamb< +40/50/60°C

Place and date of issue:

Torino, 2020-11-30

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

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[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
	020,030,040,050,060,070,080,090,100,110,120,130,140,150,1 60,170,180,190,200,210 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

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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	

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MODEL (with polycarbonate window)	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:

Glass window

EVNL size	Power consumption	Max ambient temperature			
		+40°C	+50°C	+60°C	
EVNL-060	P≤33W	T6	T6	T5	
	33W < P ≤ 45W	T 6	T5	T4	
	45W < P ≤ 55W	T5	T4	T4	
EVNL-070	P≤45W	Т6	T5	T4	
	45W < P ≤ 65W	T5	T5	T4	
	65W < P ≤ 85W	T4	T4	T4	
EVNL-080	P ≤ 85W	T5	T4	T4	
	85W < P ≤125W	T4	T4	T4	
EVNL-100	P ≤ 225W	T4	T4	T4	

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

	Power consumption	Max ambient temperature			
EVNL size		+40°C	+50°C (Only with type 1 polycarbonate)	+60°C (Only with type 1 polycarbonate)	
EVNL-060	P≤30W	T6	T6	T5	
EVNL-070	P≤60W	T4	T4		
EVNL-080	P ≤ 90W	T4	T4		
EVNL-100	P≤160W	T4	T4		

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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

The equipment shall be subjected to a routine pressure test in accordance with EN 60079-15 clause 23.2.3.2.1.2. 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.

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.

[16] Assessment Report n° EPT.20.REL.01/2013078

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 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.

The equipment shall be subjected to a pressure test in accordance with EN 60079-15 clause 23.2.3.2.1.2. In compliance with the requirements of the instructions manual the 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.

[18] Essential Health and Safety Requirements

Assured by compliance with harmonized standards.

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[19] Descriptive documents

The equipment objects of this Certificate are described by the following documents. Relevant documents are reported below:

Title	Drawing No.	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"		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/CE.

The following conditions may render this Certificate invalid:

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

[21] Certificate History

This Certificate is at its first issue.

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End of Certificate

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