IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx CML 17.0081X	Issue No: 0	Certificate history: Issue No. 0 (2017-10-02)
Status:	**Current**	Page 1 of 3	
Date of Issue:	**2017-10-02**		

Applicant: **Cortem Group**
Via Aquileia, 10
34070 Villesse (GO)
Italy

Equipment: **Lighting Fixture Series EVNL**
Optional accessory:

Type of Protection: **Restricted Breathing, Optical Radiation, Dust Ignition**

Marking:

Ex nR IIC T* Gc

Ex tb op is IIIC T**°C Db

Ex tc IIIC T**°C Dc

IP66

Ta: -40°C to +50/60°C

(For * and ** Refer to Annex)

Approved for issue on behalf of the IECEx Certification Body: H M Amos MIET

Position: Technical Manager

Signature:
(for printed version)

Date: October 2, 2017

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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Manufacturer:	**Cortem Group** Via Aquileia, 10, 34070 Villesse (GO) **Italy**	

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/CML/ExTR17.0117/00

Quality Assessment Report:

IT/CES/QAR06.0002/11

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Lighting Fixture Series EVNL Luminaires comprises 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.

Refer to Annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for Specific Conditions of Use.

Annex:

IECEx CML 17.0081X Certificate Annex.pdf

Annexe to:	**IECEx CML 17.0081X Issue 0**
Applicant:	**Cortem Group**
Apparatus:	**Lighting Fixture Series EVNL**

cml Ex certification management limited

Description

The Lighting Fixture Series EVNL Luminaires comprises 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/Db	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/Db	-	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/Db	-	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/Db	-	T4 / T122°C
EVNL-60P	30 W	120/ 240/ 277 VAC	47-63 Hz	Gc/Dc	T6 / T83°C	T5 / T93°C

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Model	Power	Input Voltage	Input Frequency	EPL	Temp. Class / Max Surface Temp (°C)	
					+50°C	+60°C
EVNL-60BP / 10/ 20/ 40/ 60/ 80	33 W	120/ 240/ 277 VAC	47-63 Hz	Gc/Db	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/Db	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/Db	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/Db	T4 / T112°C	-

Conditions of Manufacture

The following are conditions of manufacture:

i. The EVNL-60 models shall be subjected to a routine pressure test in accordance with EN/IEC 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 / IEC 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.

Conditions of Certification/Special Conditions for Safe Use

The following are conditions of certification:

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.