



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEX CML 23.0069X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 1	Issue 0 (2023-07-06)
Date of Issue:	2026-08-27		
Applicant:	CORTEM S.p.A Via Aquileia 10 34070 Villesse Gorizia Italy		
Equipment:	STREETEX AND SQUAREX LED Lighting Fixtures		
Optional accessory:			
Type of Protection:	Increased safety Ex "eb", Encapsulation Ex "mb", Dust Protection by Enclosure Ex "tb" and Restricted breathing Ex "nR"		
Marking:	STREETEX-ME and SQUAREX-ME Ex eb mb IIC T.. Gb Ex tb IIIC T...°C Db IP66 STREETEX-MN and SQUAREX-MN Ex nR IIC T... Gc Ex tb IIIC T...°C Db IP66		

Approved for issue on behalf of the IECEx
Certification Body:

L A Brisk

Position:

Assistant Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

27 Aug 2026

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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 www.iecex.com or use of this QR Code.



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Eurofins E&E CML Limited
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New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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IECEX Certificate of Conformity

Certificate No.: **IECEX CML 23.0069X**

Page 2 of 4

Date of issue: 2026-08-27

Issue No: 1

Manufacturer: **CORTEM S.p.A**
Via Aquileia 10
34070 Villesse
Gorizia
Italy

Manufacturing
locations: **CORTEM S.p.A**
Via Aquileia 10
34070 Villesse
Gorizia
Italy

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

GB/CML/ExTR23.0162/00

GB/CML/ExTR26.0131/00

Quality Assessment Report:

IT/CES/QAR06.0002/20



IECEX Certificate of Conformity

Certificate No.: **IECEX CML 23.0069X**

Page 3 of 4

Date of issue: 2026-08-27

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

STREETEX AND SQUAREX LED Lighting Fixtures

See Annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex for Specific Conditions of Use.



IECEX Certificate of Conformity

Certificate No.: **IECEX CML 23.0069X**

Page 4 of 4

Date of issue: 2026-08-27

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This variation introduces the following modification:

1. To introduce new luminaire models STREETEX-ME-...-DALI incorporating LED drivers with DALI interface.
2. To introduce alternative LED Drivers for luminaires series STREETEX.
3. To update the LED Board for models STREETEX-M...-080100 and STREETEX-M...-100200.
4. To introduce models STREETEX-M...-100160
5. To introduce a new terminal block type TBEx...V for luminaires series STREETEX.
6. To update to the latest version of the standard EN IEC 60079-31:2024 and IEC 60079-31:2022 Ed. 3.
7. To allow other industrial LED drivers equivalent to the existing drivers for the models STREETEX-MN (applicable only for luminaires Cat 2, EPL Db and Cat 3, EPL Gc)

Annex:

[Certificate Annex IECEX CML 23.0069X Issue 1_1.pdf](#)

Annexe to: IECEx CML 26.0069X, Issue 1
Apparatus: STREETEX AND SQUAREX LED Lighting Fixtures
Applicant: Cortem S.p.A.



Description

STREETEX-ME and SQUAREX-ME

The STREETEX-M.. and SQUAREX-M.. are LED lighting fixtures that are configured for use in both Gas and Dust environments, dependant on the method of explosion protection. The STREETEX contains an integral LED Driver. The SQUAREX is powered from a separate LED Driver mounted within an external flameproof enclosure or in a safe area.

The STREETEX-ME.. lighting fixture contain an LED Printed Circuit Board (PCB) compartment protected by Ex-mb , and a separate Ex-eb protected compartment containing a certified encapsulated LED Driver and connection facilities.

The STREETEX-MN-.. and the SQUAREX-MN-.. versions are suitable for Zone 21 and Zone 22 applications. The STREETEX-MN-.. lighting fixture is made by two interconnected dust tight compartments, the LED PCB compartment and the driver compartment.

The different versions of STREETEX-M.. models differ in size, power rating and configuration of the LED PCB.

The SQUAREX has only one LED PCB configuration, the SQUAREX-M..-080100. The maximum power for the SQUAREX-M..-080100 is 100W.

All STREETEX-M.. and SQUAREX-M.. versions have an environmental ingress protection level of IP 66.

Nomenclature of STREETEX

STREETEX - - - -
 (1) (2) (3) (4) (5)

Where

- (1) = STREETEX Light Fixture
 (2) = Version of Lamp
 ME = Cat 2, Zone 1 2 21 22 : Ex-eb mb / Ex tb
 MN = Zone 21 22: Ex-tb
 (3) = Size of lighting fixture
 080,
 100
 (4) = Power of lighting fixture
 025 24 W
 050 48 W
 075 72 W
 100 96 W
 160 160 W
 200 192 W
 (5) = DALI (only for DALI version)



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Ratings

Type	Size	LED driver type	Nominal Wattage	Nominal Voltage (*)	Frequency
STREETEX-M..-	080025	EBM-50C	24 W	100-277 Vac / 142-431 Vdc	0-50-60 Hz
		LExD-50C		120-277 Vac / 150-420 Vdc	
		MU35H105AQ_MB/DALI		100-277 Vac / 125-300 Vdc	
	080050	EBM-75C	48 W	100-277 Vac / 142-431 Vdc	
		LExD-100C		120-277 Vac / 150-420 Vdc	
		MU100H120AQ_MB/DALI		100-277 Vac / 125-300 Vdc	
	080075	EBM-75C	72 W	100-277 Vac / 142-431 Vdc	
		LExD-100C		120-277 Vac / 150-420 Vdc	
		MU100H120AQ_MB/DALI		100-277 Vac / 125-300 Vdc	
	080100	EBM-75C	96 W	100-277 Vac / 142-431 Vdc	
		LExD-100C		120-277 Vac / 150-420 Vdc	
		MU100H120AQ_MB/DALI		100-277 Vac / 125-300 Vdc	
	080160	EBM-240C	160 W	100-277 Vac / 142-431 Vdc	
		LExD-240C		120-277 Vac / 150-420 Vdc	
		MU163H105AQ_MB/DALI		100-277 Vac / 125-300 Vdc	
	100200	EBM-240C	192 W	100-277 Vac / 142-431 Vdc	
		LExD-240C		120-277 Vac / 150-420 Vdc	

(*)The maximum voltage and ambient temperature range is limited dependant on the type of Ex Components fitted by the manufacturer in accordance with the following table.

Type	Size	Nominal Wattage	Nominal Current	Frequency
SQUAREX-M..-	080100	100 W	Up to 1,000 mA	0

Ambient temperature, Temperature Class and Maximum Surface Temperature

The Lighting Fixtures are suitable for use in ambient temperatures down to -60°C, except when equipped with drivers covered by certificates IECEx TPS 21.0008U, IECEx TPS 21.0011U, or IECEx TPS 24.0037U. In such cases, refer to the Conditions of Manufacture.



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STREETEX-M...

			Temperature Class (EPL Gb)				Maximum Surface Temperature °C (EPL Db)			
Ambient Temperature			40°C	50°C	55°C	60°C	40°C	50°C	55°C	60°C
Light Fixture										
Type	Size	Nominal Power (W)								
StreetEX-M..	080025	24 W	T5	T4	T4	T4	93°C	103°C	108°C	113°C
	080050	48 W	T5	T4	T4	T4	93°C	103°C	108°C	113°C
	080075	72 W	T5	T4	T4	T4	93°C	103°C	108°C	113°C
	080100	96 W	T5	T4	T4	T4	93°C	103°C	108°C	113°C
	100160	160W	T5	T4	T4	T4	92°C	102°C	107°C	112°C
	100200	192 W	T5	T4	T4	T4	92°C	102°C	107°C	112°C

SQUAREX-M..

			Temperature Class (EPL Gb)				Maximum Surface Temperature °C (EPL Db)			
Ambient Temperature			40 °C	50 °C	55 °C	60 °C	40 °C	50 °C	55 °C	60 °C
Light Fixture										
Type	Size	Nominal Power (W)								
SQUAREX-M..	080100	100 W	T5	T4	T4	T4	93°C	103°C	108°C	113°C

Ex Component approved parts

Part Type	Manufacturer	Model/Type	Certificate No.	Ex Marking String	Standard(s) and date(s)/edition(s)
LED Driver	CORTEM S.p.A.	EBM	IECEX CML 21.0130U	Ex mb IIC Gb	IEC 60079-0:2017 IEC 60079-18:2017
	CORTEM S.p.A.	LExD-...	IECEX CML 25.0095U	Ex mb IIC Gb	IEC 60079-0:2017 IEC 60079-18:2017
	MOONS' Electric	MU035.../DALI	IECEX TPS 21.0008U	Ex mb IIC Gb	IEC 60079-0:2017 IEC 60079-18:2017
	MOONS' Electric	MU100.../DALI	IECEX TPS 21.0011U	Ex mb IIC Gb	IEC 60079-0:2017 IEC 60079-18:2017
	MOONS' Electric	MU163.../DALI	IECEX TPS 24.0037U	Ex mb IIC Gb	IEC 60079-0:2017 IEC 60079-18:2017
Terminals	Cabur SRL	BPL4, TPL4	IECEX CES 11.0008U	Ex eb IIC Gb	IEC 60079-0:2011 IEC 60079-7:2015
	PHOENIX	UT2,5 , UT4	IECEX KEM 06.0027U	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017
	PHOENIX	G5/3	IECEX PTB 06.0043U	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017
	CORTEM S.p.A.	TBEx-...V	IECEX FIDI 23.0003U	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017



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Ex Equipment approved parts

Part Type	Manufacturer	Model/Type	Certificate No.	Ex Marking String
Breather/drain Plugs	Cortem S.p.A	ECDE...	IECEX CML 16.0124X	Ex eb IIC Gb Ex tb IIIC Db

STREETEX-MN and SQUAREX-MN

The STREETEX-MN and SQUAREX-MN are LED lighting fixtures that are configured for use in Gas environments.

The STREETEX contains an integral LED Driver. The SQUAREX is powered from a separate LED Driver mounted within an external flameproof enclosure or in a safe area.

The STREETEX-MN and SQUAREX-MN models are suitable for Zone 2 applications.

STREETEX-MN- and SQUAREX-MN models are "restricted breathing" as per EN/IEC 60079-15.

The STREETEX-MN-.. lighting fixture is made by two Ex-nR protected compartments, the LED PCB compartment and the driver compartment. .

The different versions of STREETEX-MN-.. models differ in size, rating and configuration of the LED PCB.

The SQUAREX-MN-.. consists of a single compartment which houses the LED PCB.

The maximum power for the SQUAREX-MN-080100 is 100W.

For all versions of the STREETEX-MN equipment, the glass window is mechanically retained in the cover of the window, sealed with an O-ring

All STREETEX-MN-.. and SQUAREX-MN-.. versions have an environmental ingress protection level of IP 66.



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Nomenclature of STREETEX

STREETEX - - -
 (1) (2) (3) (4) (5)

Where

- (1) = STREETEX Light Fixture
 (2) = Version of Lamp
 MN = Cat 3, Zone 2: Ex-nR
 (3) = Size of lighting fixture
 080,
 100

 (4) = Power of lighting fixture
 025 24 W
 050 50 W
 075 72 W
 100 96 W
 160 160 W
 200 192 W

 (5) = DALI (only for DALI version)

Ratings

Type	Size	Nominal Wattage	Nominal Voltage(*)	Frequency
STREETEX-MN	080025	24 W	100-277 Vac, 125-420 Vdc, depending on the driver.	0-50-60 Hz
	080050	48 W		
	080075	72 W		
	080100	96 W		
	080160	160 W		
	100200	192 W		

(*)The maximum voltage and ambient temperature range is limited dependant on the type of Ex Components fitted by the manufacturer in accordance with the following table:

Type	Size	Nominal Wattage	Nominal Current(*)	Frequency
SQUAREX-MN	080100	100 W	Up to 1,000 mA	0

Ambient temperature, Temperature Class and Maximum Surface Temperature

The Lighting Fixtures are suitable for use in ambient temperatures down to -60°C.



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 Version: 10.0 Approval: Approved



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STREETEX-MN..

			Temperature Class (EPL Gc)			
Ambient Temperature			40 °C	50 °C	55 °C	60 °C
Light Fixture						
Type	Size	Nominal Power (W)				
StreetEX-MN..	080025	24 W	T5	T4	T4	T4
	080050	48 W	T5	T4	T4	T4
	080075	72 W	T5	T4	T4	T4
	080100	96 W	T5	T4	T4	T4
	100160	160W	T5	T4	T4	T4
	100200	192 W	T5	T4	T4	T4

SQUAREX-MN..

			Temperature Class (EPL Gc)			
Ambient Temperature			40 °C	50 °C	55 °C	60 °C
Light Fixture						
Type	Size	Nominal Power (W)				
SQUAREX-MN..	080100	100 W	T5	T4	T4	T4

Ex Component approved parts

Part Type	Manufacturer	Model/Type	Certificate No.	Ex Marking String	Standard(s) and date(s)/edition(s)
Terminals	Cabur SRL	BPL4, TPL4	IECEX CES 11.0008U	Ex eb IIC Gb	IEC 60079-0:2011 IEC 60079-7:2015
	PHOENIX	UT2,5 , UT4	IECEX KEM 06.0027U	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017
	PHOENIX	G5/3	IECEX PTB 06.0043U	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017
	CORTEM S.p.A.	TBEx-...V	IECEX FIDI 23.0003U	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017

Ex Equipment approved parts

Part Type	Manufacturer	Model/Type	Certificate No.	Ex Marking String
Breather/drain Plugs	Cortem S.p.A	ECDE...	IECEX CML 16.0124X	Ex eb IIC Gb Ex tb IIIC Db



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Version: 10.0 Approval: Approved



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Conditions of Manufacture

STREETEX-ME and SQUAREX-ME

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.
- ii. The manufacturer shall ensure that all Ex-Components are installed in accordance with their Schedule of Limitations and manufacturer's instructions, including but not limited to, the creepage and clearance requirements of IEC 60079-7 and wiring size and termination method and that the equipment markings are within the service temperature range and ratings of all the Ex-Components fitted.
- iii. The Manufacturer shall provide copies of certificates and instructions for all certified components installed in the STREETEX AND SQUAREX Series.
- iv. The manufacturer shall ensure that the LED Driver maximum output current is restricted to the limits specified in the manufacturer's documentation for the nominal power and fixture type.
- v. The routine dielectric strength test on the Increased safety (eb mb) luminaires series STREETEX AND SQUAREX with applied voltage shall be performed at $2U + 1,000V$ with a minimum value of 1,560V (U = maximum rated voltage of the lamp), between each circuit and earthed metal parts as per IEC 60079-7 Clause 7.1.
- vi. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of EN/IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.
- vii. Where the drivers covered by the certificate IECEx TPS 21.0008U or IECEx TPS 21.0011U or IECEx TPS 24.0037U are used, the equipment shall be marked suitable for $-50^{\circ}C$.

STREETEX-MN and SQUAREX-MN

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.



Certificate Annex IECEX
Version: 10.0 Approval: Approved



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- ii. The manufacturer shall ensure that all Ex-Components are installed in accordance with their Schedule of Limitations and manufacturer's instructions, including but not limited to, the creepage and clearance requirements of IEC 60079-7 and wiring size and termination method and that the equipment markings are within the service temperature range and ratings of all the Ex-Components fitted.
- iii. The Manufacturer shall provide copies of certificates and instructions for all certified components installed in the STREETEX AND SQUAREX Series.
- iv. A routine restricted breathing test shall be performed on all equipment as per Clause 12.2.2 of EN/IEC 60079-15.

Specific Conditions of Use

STREETEX-ME and SQUAREX-ME

The following conditions relate to safe installation and/or use of the equipment.

- i. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.
- ii. Use suitably certified cable glands with an IP Protection of IP 66 and an applicable method explosion protection applicable with the equipment markings:

The temperature at the entry point may reach up to 95 °C. Suitably rated cable and cable glands must be used as per Safety, maintenance, and mounting instructions.
- iii. The equipment shall be installed in a location that satisfies the requirement for a Low Risk of Mechanical Danger.
- iv. For inspection and replacement of seals and gaskets – consult the manufacturer.
- v. Luminaires incorporating MU035xx or MU100xx or MU163xx or LExD-50C or LExD-100C or LExD-240C drivers shall only be connected to an electrical power supply with a maximum prospective short-circuit current of 1500A.

STREETEX-MN and SQUAREX-MN

The following conditions relate to safe installation and/or use of the equipment.

- i. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.
- ii. Use suitably certified cable glands with an IP Protection of IP 66 and an applicable method explosion protection applicable with the equipment markings:

The temperature at the entry point may reach up to 95 °C. Suitably rated cable and cable glands must be used as per Safety, maintenance, and mounting instructions.
- iii. The equipment shall be installed in a location that satisfies the requirement for a Low Risk of Mechanical Danger.
- iv. For inspection and replacement of seals and gaskets – consult the manufacturer.



Certificate Annex IECEX
Version: 10.0 Approval: Approved



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- v. For details of restrictive breathing enclosure (nR) routine tests – see manufacturer's instructions.

Components used which are covered by Ex Certificates issued to older editions of Standards

Certificate number	Standards (incl Ed)	Assessment result
IECEX CES 11.0008U	IEC 60079-0:2011 Ed 6 IEC 60079-7:2015 Ed 5	No applicable technical differences



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Version: 10.0 Approval: Approved



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