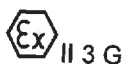




Type Examination Certificate

CML 23ATEX4196X Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **STREETEX-MN AND SQUAREX-MN LED Lighting Fixtures**
- 3 Manufacturer **Cortem S.p.A.**
- 4 Address **Via Aquileia 10,
34070 Villesse,
Gorizia Italy**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, 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 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 safe use (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 and are separately certified.
- 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 IEC 60079-0:2018 EN IEC 60079-15:2019
- 10 The equipment shall be marked with the following:



Ex nR IIC T... Gc

Ta = -** °C to +** °C

Refer to the equipment Description for Temperature Class, Maximum Surface Temperature and Ambient Temperature range

11 Description

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.

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)

This certificate shall only be copied
 in its entirety and without change

www.CMLEx.com

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.

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	CESI 03 ATEX 164U	Ex eb IIC Gb	EN 60079-0 : 2012+A11 :2013 EN 60079-7:2015
	PHOENIX	UT2,5 , UT4	KEMA 04 ATEX 2048U	Ex eb IIC Gb	EN IEC 60079-0:2018 EN 60079-7:2015/A1:2018
	PHOENIX	G5/3	PTB 06 ATEX 1034U	Ex eb IIC Gb	EN IEC 60079-0:2018 EN 60079-7:2015/A1:2018
	CORTEM S.p.A.	TBEx-...V	FIDI 23 ATEX 0053U	Ex eb IIC Gb	EN IEC 60079-0:2018 EN 60079-7:2015/A1:2018

Ex Equipment approved parts

Part Type	Manufacturer	Model/Type	Certificate No.	Ex Marking String
Breather/drain Plugs	Cortem S.p.A	ECDE...	CML 16ATEX1351X	Ex eb IIC Gb Ex tb IIIC Db

Variation 1

This variation introduces the following changes:

- To introduce models STREETEX-M...-100160
- To update the LED Board for models STREETEX-M...-080100 and STREETEX-M...-100200.
- To introduce a new terminal block type TBEx...V for luminaires series STREETEX.
- To allow other industrial LED drivers equivalent to the existing drivers for the models STREETEX-MN

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 July 2023	R15890/00	Issue of prime certificate
1	27 Aug 2026	R21340A/00	Introduction of Variation 1

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.

- 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.
- 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.

14 Specific Conditions of Use (Special Conditions)

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

Certificate Annex

Certificate Number CML 23ATEX4196X
Equipment STREETEX-MN AND SQUAREX-MN LED Lighting Fixtures
Manufacturer Cortem S.p.A



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

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-8094	1 to 2 of 9	0	06 Jul 2023	Lighting Fixture Series STREETEX Assembly and External Dimensions
A3-8094	3 of 9	0	06 Jul 2023	Lighting Fixture Series STREETEX Differences between -MN and -ME versions
A3-8094	4 of 9	0	06 Jul 2023	Lighting Fixture Series STREETEX Gasket dimensions and details of encapsulation
A3-8094	5 of 9	0	06 Jul 2023	Lighting Fixture Series STREETEX Wiring and Label
A3-8094	6 of 9	0	06 Jul 2023	Lighting Fixture Series STREETEX Details of mounting/ Typical Circuit Diagram
A3-8094	7 of 9	0	06 Jul 2023	Lighting Fixture Series SQUAREX Assembly and External Dimensions
A3-8094	8 of 9	0	06 Jul 2023	Lighting Fixture Series SQUAREX Gasket details / Typical Circuit Diagram
A3-8094	9 of 9	0	06 Jul 2023	Lighting Fixture Series SQUAREX Gasket and Dimension details
A4-8117	1 to 7	0	06 Jul 2023	Technical Note

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
A3-8094	1 to 2 of 9	1	27 Aug 2026	Drawing Lighting Fixture Series STREETEX : Assembly and External Dimensions
	3 of 9	1	27 Aug 2026	Drawing Lighting Fixture Series STREETEX: Differences between -MN and -ME versions

Certificate Annex

Certificate Number CML 23ATEX4196X
Equipment STREETEX-MN AND SQUAREX-MN LED Lighting Fixtures
Manufacturer Cortem S.p.A



Drawing No	Sheets	Rev	Approved date	Title
	4 of 9	1	27 Aug 2026	Drawing Lighting Fixture Series STREETEX: Gasket dimensions and details of encapsulation
	5 of 9	1	27 Aug 2026	Drawing Lighting Fixture Series STREETEX: Wiring and Label
	6 of 9	1	27 Aug 2026	Drawing Lighting Fixture Series STREETEX: Details of mounting/ Typical Circuit Diagram
	7 of 9	1	27 Aug 2026	Drawing Lighting Fixture Series SQUAREX: Assembly and External Dimensions
	8 of 9	1	27 Aug 2026	Drawing Lighting Fixture Series SQUAREX: Gasket details / Typical Circuit Diagram
	9 of 9	1	27 Aug 2026	Drawing Lighting Fixture Series SQUAREX: Gasket and Dimension details
A4-8117	1 to 13	1	27 Aug 2026	Technical Note