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 23.0094X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2024-04-16) Issue 0 (2023-06-08)
Date of Issue:	2026-08-13		

Applicant: **Raytec Limited**
Unit 15 Wansbeck Business Park
Rotary Parkway
Ashington
Northumberland
NE63 8QW
United Kingdom

Equipment: **SPARTAN LED Street Luminaire, types SPX and SPZ**

Optional accessory:

Type of Protection: **Increased Safety Ex "eb," and "ec", Encapsulation Ex "mb" and "mc" and Dust Protection by Enclosure Ex "tb" and "tc"**

Marking:

SPX (Zone 1)	SPZ (Zone 2)
Ex eb mb IIC T4 Gb	Ex ec mc IIC T4 Gc
Ex tb IIIC T80°C Db	Ex tc IIIC T80°C Dc
TaL: -40 °C to +50 °C	Ta: -40 °C to +50 °C

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) 13 Aug 2026

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

Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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Certificate No.: **IECEx CML 23.0094X**

Date of issue: 2026-08-13

Manufacturer: **Raytec Limited**
Unit 15 Wansbeck Business Park
Rotary Parkway
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Manufacturing locations: **Raytec Limited**
Unit 15 Wansbeck Business Park
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Ashington
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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 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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/ExTR23.0146/00 GB/CML/ExTR24.0053/00 GB/CML/ExTR26.0122/00

Quality Assessment Report:

GB/SIR/QAR13.0018/14

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The SPARTAN LED SPX and SPY Street Luminaires are luminaires intended for mount on either a vertical or horizontal pole that provides downward illumination *in Zone 1/Zone 2 or Zone 21/ Zone 22* Gas and Dust explosive atmospheres.

See Annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:
See Annex for Specific Conditions of Use.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1
This issue introduces the following changes:

1. Assessment of Extended Input Voltage Universal PSU.
2. Assessment of DALI Dimmable Universal PSU.

Issue 2
This issue introduces the following changes:

1. To assess and permit an alternative non-metallic paint layer (applied externally to the equipment).
2. To update the label details to remove the UKEX markings.

Annex:

IECEx CML 23.0094X Iss. 2 Certificate Annex.pdf

Annexe to:	IECEx CML 23.0094X Issue 2
Apparatus:	SPARTAN LED Street Luminaire, types SPX and SPZ
Applicant:	Raytec Ltd.

Description

The SPARTAN LED SPX and SPZ Street Luminaires are luminaires intended for mount on either a vertical or horizontal pole that provides downward illumination *in Zone 1/Zone 2 or Zone 21/ Zone 22* Gas and Dust explosive atmospheres.

The luminaires consist of an aluminium housing containing the Light Engine, LED Driver, and connection facilities. The housing is mounted using a pole entry that permits the assembly to be mounted on either a vertical or horizontal pole with a downward illumination with an orientated angle up to a maximum +/-15° from the horizontal of the glass window.

The Main Body housing is constructed using a cast/extruded aluminium body that is common with separate Driver/Connection and Light Engine compartments.

A cast/extruded aluminium Lid with recessed Silicone Sponge gasket bolts to the Main Body housing to form and seal the Driver/Connection compartment. The compartment contains a Stainless Steel /Steel / Aluminium chassis plate mounted with LED Driver and terminal blocks that provide connections for internal and external wiring. Field wiring enters via a cable entry with a suitably certified Cable Gland.

The Zone 1 and Zone 21 Light Engine carrier assembly is constructed using 96 LEDs mounted on an Insulated Metal Substrate (IMS) Printed circuit Board (PCB). The LEDs are mounted in 6 separate segments, each containing 16 LED's. Each segment is fitted with an optic/lens bolted to the PCB then covered with a polycarbonate cover secured to the PCB using silicone adhesive.

The PCB assembly is fitted inside an aluminium carrier that is filled with Silicone Elastomer around the polycarbonate coves. The complete carrier assembly is bolted to the Main Body.

The construction is similar for the Zone 2/Zone 22 versions except that each segment is only fitted with an optic/lens bolted to the PCB. There are no polycarbonate covers and no silicone elastomer filler.

The PSU compartment contains an encapsulated LED Driver and, certified terminal blocks for connection of field using a certified cable entry, and internal wiring between the LED Driver and Light Engine. The LED Driver and certified terminal blocks are mounted on either a stainless steel or aluminium chassis plate.

The units have an environmental rating of IP64. The equipment may also be marked with the manufacturer's ingress protection rating of IP66. An ingress protection rating of IPX6 has not been verified under the CML certification.

Rating

LED Driver	Input	Maximum Power
SPARTAN UNIVERSAL OUTPUT HV UNIT	110 V to 254 V	60 W

Eurofins E&E CML Limited
Newport Business Park, New Port Road
Ellesmere Port, CH65 4LZ, UK

LED Driver	Input	Maximum Power
Extended Input Voltage Universal Power Supply	110 to 277 V	60 W
DALI dimmable Universal Power Supply	110 to 277 V	60 W

Conditions of Manufacture

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. The manufacturer shall supply copies of instructions for all certified Ex-Equipment and Ex-Components fitted.

ii. A dielectric strength test shall be carried out on all units manufactured in accordance with IEC 60079-7:2015 clause 7.1 and IEC 60079-18:2014, clause 9.2, at 1560 Vac for 1 minute, or alternatively at 1.2 times this test voltage for 100 ms. Alternatively, a 1.4 times d.c. voltage dielectric strength test may be carried out. No breakdown shall occur. Tests shall be carried out between each circuit and earth and between each circuit and the surface of encapsulated parts.

iii. A visual inspection shall be carried out on the encapsulated parts to check for damage, in accordance with IEC 60079-18:2014, clause 9.1.

iv. The manufacturer shall ensure that requirements for suitable glands for use with this equipment are included in the instructions supplied with all equipment.

Specific Conditions of Use

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

i. Equipment must only be installed in a position that satisfies a low risk of mechanical danger from impact. (4 J).

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

N/A

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