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 21.0037**

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Certificate history:
Issue 3 (2025-10-17)
Issue 2 (2024-04-30)
Issue 1 (2022-02-25)
Issue 0 (2021-10-20)

Status: **Current**

Issue No: 4

Date of Issue: 2026-08-13

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

Equipment: **SPARTAN Mid Power LED Floodlight/Highbay**

Optional accessory:

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

Marking:

Standard:	**Emergency:**
Ex eb mb IIC T4 Gb Ex tb IIIC T93°C Db Ta= -40°C to +60°C	Ex eb mb IIC T4 Gb Ex tb IIIC T93°C Db Ta= -20°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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Manufacturer: **Raytec Limited**
Unit 15 Wansbeck Business Park
Rotary Parkway
Ashington
Northumberland
NE63 8QW
United Kingdom

Manufacturing locations: **Raytec Limited**
Unit 15 Wansbeck Business Park
Rotary Parkway
Ashington
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United Kingdom

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/ExTR22.0038/00 GB/CML/ExTR24.0064/00 GB/CML/ExTR25.0201/00
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 Mid Power Floodlight/Highbay are suitable for installation in Zone 1 environments with different mounting arrangements and orientations

Refer to Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This Issue introduced the following changes:

1. To implement changes to the electronics/wiring diagram and the addition of a corrected electronic component tolerance list.
2. Introduction of dimensional changes to the encapsulated power supply.
3. Introduction of an optional anti-static self-adhesive film.
4. To implement changes to the condition of manufacture to standardise the routine dielectric strength test requirements.
5. The removal of drawing 1250-A-0003 from technical documents list
6. To update the product description to clarify the internal connection facilities.

Issue 2

This Issue introduced the following changes:

1. Addition of intelligent emergency model.
2. Marking and ambient is updated to include emergency model.
3. Description updated to include emergency model.

Issue 3

This Issue introduced the following changes:

1. Introduction of an alternative light engine.
2. To update the dust marking.

Issue 4

This Issue introduced 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.
3. To remove the reference to WAGO 262 & 264 terminal blocks
4. To introduce additional PSU options (UNIVERSAL OUTPUT HV UNIT, DALI DIMMABLE UNIVERSAL PSU, EXTENDED INPUT VOLTAGE UNIVERSAL PSU, INTELLIGENT EMERGENCY UNITS (HV))

Annex:

Certificate Annex IECEx CML 21.0037 Iss. 4.pdf

Annexe to:	IECEx CML 21.0037 Issue 4
Apparatus:	Spartan Mid Power LED Floodlight / Highbay
Applicant:	Raytec Ltd.

Description

The Spartan Mid Power Floodlight/Highbay are suitable for installation in Zone 1 or Zone 2, and Zone 21 or 22 environments with different mounting arrangements and orientations.

Zone 1 and Zone 21 models have an encapsulated LED assembly containing 24 or 48 LEDs protected by encapsulation, located behind a glass window. Alternatively, LED's may be mounted on two IMS PCBs with 96 LED's (arranged in 6 x clusters of 16 LED's) that are either white, coloured or infra-red.

The main assembly consists of a single aluminium enclosure containing an encapsulated electronic power supply and suitably certified Ex Component terminals for connection of internal and field wiring using suitably certified cable glands. The window assembly consists of an aluminium casting and glass front.

The equipment will operate up to a maximum 125W over a 110 to 277V range. Various beam patterns are available, external mounting brackets will determine if it is a floodlight or Highbay luminaire.

The enclosures are also available with the following power supply:

Universal Power Supply	110V – 254V AC or DC
Extended Input Voltage Universal Power Supply	110 to 277 V AC or DC
DALI dimmable Universal Power Supply	110 to 277 V AC or DC

An intelligent emergency variant of the equipment is available. It is supplied with a rechargeable battery pack housed in a metallic enclosure mounted at the bottom of the luminaire enclosure. The battery compartment has an indication LED fitted through the enclosure wall.

Additional separately certified components:

Terminal Type	Manufacturer	Certificate No.	Temperature Range
MK6/MK3/BK	Weidmuller	IECEx TUR 18.0019U	II 2 G Ex eb IIC Gb -60°C to +130°C
862 Series	Wago	IECEx PTB 05.0003U	II 2 G Ex eb IIC Gb, Ex eb I Mb -55 °C to +105°C

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.

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ii. The completed equipment, the LED driver and encapsulated LED assembly shall each be subjected to an electric strength test in accordance with EN/IEC 60079-7, Clause 7.1 and IEC/EN60079-18 Clause 9.2 (as applicable). The tests shall be made using a test voltage of 1554 Vac applied between the supply terminals and the surface of the encapsulant for a minimum duration of 61 seconds. Alternatively, an electric strength test at 1.2 times the test voltage for a minimum duration of 100 ms. No breakdown shall occur.

iii. The LED driver and encapsulated LED assembly shall each be visually inspected. No damage shall be evident, such as cracks in the compound, exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure of adhesion, or softening.

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

None.

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

None.