



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 18.0087** Page 1 of 4 [Certificate history:](#)
Issue 0 (2018-06-18)

Status: **Current** Issue No: 1

Date of Issue: 2020-10-27

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

Equipment: **HP Spartan LED Luminaire (for dust atmospheres)**

Optional accessory:

Type of Protection: **Dust protection**

Marking: Ex tb IIIC T104°C Db
T_{amb} = -50°C to +50°C

Approved for issue on behalf of the IECEx
Certification Body:

A Snowdon MIET

Position:

Assistant Certification Manager

Signature:
(for printed version)

A Snowdon

Date:

2020-10-27

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 Ltd.**
Unit 15 Wansbeck Business Park
Rotary Parkway
Ashington
Northumberland
NE63 8QW
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Additional
manufacturing
locations:

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

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/ExTR17.0109/00](#)
[GB/CML/ExTR20.0200/00](#)

[GB/CML/ExTR18.0132/00](#)

[GB/CML/ExTR18.0133/00](#)

Quality Assessment Report:

[GB/SIR/QAR13.0018/07](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

HP Spartan LED Luminaire (for dust atmospheres).

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)

Refer to certificate annex for details of certificate changes.

Annex:

[Certificate Annex IECEx CML 18.0087 Iss. 1.pdf](#)

Annexe to: IECEx CML 18.0087 Issue 1
Applicant: Raytec Ltd.
Apparatus: HP Spartan LED Luminaire (for dust atmospheres)



Product Description

The combined PSU and JB assembly consists of two separate dust protected enclosures, one containing LED Driver circuits and the other containing suitably certified Ex component terminals, for connection of internal and field wiring using suitably certified cable glands. The two enclosures are separated using a suitably certified bushing.

The above combined assembly is mounted to the dust protected LED compartment, with the wiring from the JB compartment connected to the LED assemblies.

The units have an environmental rating of IP 66.

The equipment is also marked with an ingress protection rating of IP67. An ingress protection rating of IPX7 has not been verified under the CML certification.

An optional self-adhesive anti-static film can be fitted over the glass externally

Operating voltage may be 150 -264V AC/DC or 110V -264V AC/DC

Nomenclature:

SPZ - HP (22) (33) K - W - XXYY - ZN21

Where:

(22)	FL	Floodlight
(22)	BY	Highbay
(33)	**	Lumens (x 1,000) up to a maximum of 25
K		Lumens (x 1,000)
W		White Light
3030		Beam pattern, xx° x yy° beam

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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 shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. The manufacturer shall fit only the certified Ex Components listed in the certification documentation and the manufacturer's instructions. All Special Conditions of Certification/ Special Conditions for Safe Use/ Schedule of Limitations shall be satisfied for each part fitted.
- iii. If the terminals or components are fitted with cables/wiring by the manufacturer; all cables/wires shall be suitable for rated voltage and current of each separate circuits and Ex Components to which they are connected.
- iv. The Line Bushing shall be suitable for a service temperature range of at least -50°C to +85°C.

Specific Conditions of Use

None

Details of certificate changes

Variation/Issue 1

This variation introduces the following modifications:

- i. To update and review the product against the latest editions of the standards.
- ii. To remove the type of protection 'op is' and standard IEC 60079-28 from the certification.
- iii. To assess and confirm the toughened glass window assembly meets the high risk level impact energy (7J).
- iv. To amend the certification by including the latest component certification for the BK and MK series terminal blocks and remove the old versions.
- v. Clarification regarding the marked current rating.
- vi. Changes to the ingress protection rating specified on the marking and the addition of information to the product description, also relating to the marked IP rating.
- vii. The introduction of an alternative LED.

Components covered by Ex Certificates issued to older editions of Standards

Certificate number	Standards (incl Ed)	Assessment result
IECEX PTB 04.0004U Iss 1	IEC 60079-0 Ed 6 IEC 60079-7 Ed 5	No applicable technical differences
IECEX PTB 04.0003U Iss 3	IEC 60079-0 Ed 6 IEC 60079-7 Ed 5	Technical differences evaluated and found satisfactory. For detail see original Evaluation Report R1722A, GB/CML/ExTR17.0109/00 and R13535A GB/CML/ExTR20.0200/00
IECEX PTB 05.0003U Iss 3	IEC 60079-0 Ed 7 IEC 60079-7 Ed 5.1	
IECEX TUR 18.0019U Iss 2	IEC 60079-0 Ed 7 IEC 60079-7 Ed 5.1	
IECEX EPS 13.0045U Iss 2	IEC 60079-0 Ed 7 IEC 60079-1 Ed 7	