



# 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](http://www.iecex.com)

Certificate No.:	<b>IECEX CML 18.0087</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 3	<a href="#">Issue 2 (2023-01-23)</a>
Date of Issue:	2023-05-24		<a href="#">Issue 1 (2020-10-27)</a>
Applicant:	<b>Raytec Ltd.</b> Unit 15 Wansbeck Business Park Rotary Parkway Ashington Northumberland NE63 8QW <b>United Kingdom</b>		<a href="#">Issue 0 (2018-06-18)</a>
Equipment:	<b>HP Spartan LED Luminaire (for dust atmospheres)</b>		
Optional accessory:			
Type of Protection:	<b>Dust protection</b>		
Marking:	Ex tb IIIC T104°C Db T <sub>amb</sub> = -50°C to +50°C		

Approved for issue on behalf of the IECEx  
Certification Body:

**Ben Trafford**

Position:

**Certification Officer**

Signature:  
(for printed version)

Date:  
(for printed version)

2023-05-24

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](http://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**





# IECEX Certificate of Conformity

Certificate No.: **IECEX CML 18.0087**

Page 2 of 4

Date of issue: 2023-05-24

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

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/ExTR23.0003/00](#)

[GB/CML/ExTR18.0133/00](#)  
[GB/CML/ExTR23.0139/00](#)

Quality Assessment Report:

[GB/SIR/QAR13.0018/11](#)



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Certificate No.: **IECEX CML 18.0087**

Page 3 of 4

Date of issue: 2023-05-24

Issue No: 3

**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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Certificate No.: **IECEX CML 18.0087**

Page 4 of 4

Date of issue: 2023-05-24

Issue No: 3

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Minor changes to LED board

### Annex:

[Certificate Annex IECEx CML 18.0087 Iss. 3.pdf](#)

**Annexe to:** IECEx CML 18.0087 Issue 3  
**Applicant:** Raytec Ltd.  
**Apparatus:** HP Spartan LED Luminaire (for dust atmospheres)

## 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.

A maximum of two cable entries can be supplied with each luminaire. Suitably certified cable entries may be various thread types up to a maximum diameter of 25 mm.

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 with a maximum wattage of 300W.

## Conditions of Manufacture

- 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 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.
- v. Where the LEDs are configured in a single string of 12 connected in series, only the XLamp LEDs are to be used.



Certificate Annex IECEx  
 Version: 9.0 Approval: Approved

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### **Specific Conditions of Use**

None.

### **Components covered by Ex Certificates issued to older editions of Standards**

None.