



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx CML 16.0052 Issue No: 0 Certificate history:
Status: **Current** Page 1 of 4 **Issue No. 0 (2016-07-13)**

Date of Issue: **2016-07-13**

Applicant: **Raytec Ltd.**
Unit 3 Wansbeck Business Park,
Rotary Parkway,
Ashington,
Northumberland,
NE63 8QW
United Kingdom

Equipment: **Spartan LED Linear Luminaire**
Optional accessory:

Type of Protection: **Dust**

Marking:
Standard Luminaire:
Ex tb IIIC T80°C Db (-40°C to +60°C)
Ex tb IIIC T65°C Db (-40 to +45°C)

Emergency Luminaire:
Ex tb IIIC T76°C Db (-20°C to +50°C)
Ex tb IIIC T66°C Db (-20°C to +40°C)

*Approved for issue on behalf of the IECEx
Certification Body:*

D R Stubbings MIET

Position:

Technical Director

*Signature:
(for printed version)*

Date:

2016-07-13

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:



IECEX Certificate of Conformity

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Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port
CH65 4LZ
United Kingdom





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Manufacturer: **Raytec Ltd.**
Unit 3 Wansbeck Business Park,
Rotary Parkway,
Ashington,
Northumberland,
NE63 8QW
United Kingdom

Additional Manufacturing
location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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

*This Certificate **does not** indicate compliance with electrical 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 Report:

[GB/CML/ExTR16.0066/00](#)

Quality Assessment Report:

[GB/SIR/QAR13.0018/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Spartan LED Linear Luminaires are a range of LED luminaires. There are four luminaire sizes available varying in length; WL84, WL84-1200, WL168 and WL168-1500. All variants are offered as LV (Low Voltage); rated at 18V to 48V AC / 18V to 68V DC or HV (High Voltage); rated at 110V to 254V AC. The HV luminaires may also be supplied with a battery pack and inverter to enable operation in 'emergency' mode.
Refer to Annex for further detail

CONDITIONS OF CERTIFICATION: NO

Annex:

[Annex IECEx CML 16_0052.pdf](#)

Annexe to: IECEx CML 16.0052 Issue 0
Applicant: Raytec Ltd.
Apparatus: Spartan LED Linear Luminaire



Product Description

The Spartan LED Linear Luminaires are a range of LED luminaires. There are four luminaire sizes available varying in length; WL84, WL84-1200, WL168 and WL168-1500. All variants are offered as LV (Low Voltage); rated at 18V to 48V AC / 18V to 68V DC or HV (High Voltage); rated at 110V to 254V AC. The HV luminaires may also be supplied with a battery pack and inverter to enable operation in 'emergency' mode.

The Spartan LED linear Luminaire enclosure is made from extruded aluminium with a transparent polycarbonate lens. The aluminium enclosure has cast aluminium end sections fitted with cast aluminium covers. The equipment utilises silicone sponge gaskets to seal the external lens and end covers to the main enclosure and maintain the IP65 rating. Samples of the luminaire have also been independently tested against the requirements of IEC 60529 Ed 2.1 and have passed IPX6 and IPX7.

The end sections house separately certified terminals and a maximum of two separately certified cable entries per end. The end covers house either the encapsulated power supply or the optional emergency mode battery. The covers are fixed to the end sections using two M6 bolts per cover. Alternatively, an option of fitting a blanking cover at one end to provide two cable entries at one end can be used.

The main section of the luminaire is fitted with a PCB populated with 84 LED's. The WL84 and WL84-1200 variants are fitted with one light engine and one external lens. The WL168 and WL168-1500 variants are fitted with two light engines and two external lenses.

The LED's are available in white, coloured or infra-red. The enclosure has fixing holes to the rear, the size, pitch and quantity can be customised to suit customer needs. All enclosures offer internal and external earthing facilities.

An optional replaceable antistatic lens film is available across the range.

Condition 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 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

