



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

Certificate No.:	IECEX CML 15.0068	Issue No: 3	Certificate history:
Status:	Current	Page 1 of 4	Issue No. 3 (2016-07-13)
Date of Issue:	2016-07-13		Issue No. 2 (2016-06-27)
			Issue No. 1 (2016-02-04)
			Issue No. 0 (2015-10-23)
Applicant:	<b>Raytec</b> Unit 3 Wansbeck Business Park Rotary Parkway Ashington Northumberland NE63 8QW United Kingdom		
Equipment:	<b>Spartan Linear Luminaire</b>		
Optional accessory:			
Type of Protection:	<b>Non-Sparking and Encapsulation</b>		
Marking:	Ex nA mc IIC T* Gc Ex tc IIIC T**C Dc Ta= -**C to +**C See Annex for full Marking		

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:

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





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Manufacturer: **Raytec**  
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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-15 : 2010</b> Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
<b>IEC 60079-18 : 2009</b> Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/ExTR16.0095/00](#)  
[GB/CML/ExTR16.0083/00](#)

[GB/CML/ExTR15.0073/00](#)

[GB/CML/ExTR16.0013/00](#)

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

**See Annex for full description and Conditions of Manufacture**

CONDITIONS OF CERTIFICATION: NO



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

### Issue 1 This Issue introduced the following changes:

- 1 Allow #FFFFFF antistatic film to be fitted the lens across the range.
- 2 Add a variant WL168-1500 standard & emergency.
- 3 Add a variant W84-1200 standard & emergency.

### Issue 2 This Issue introduced the following changes:

- 1 To allow WL168 and WL168-1500 mains powered (HV) standard variants to be fitted with an alternative dual channel power supply

### Issue 3 This Issue introduced the following changes:

- 1 To increase the voltage range for the low voltage options. The product description was updated to reflect the changes made by this variation.

### Annex:

[IECEX CML 15,0068 Annex iss 3.pdf](#)

**Annexe to:** IECEx CML 15.0068 Issue 3  
**Applicant:** Raytec Ltd.  
**Apparatus:** Spartan LED Linear Luminaire



**Description of Equipment**

The Spartan LED Linear Luminaires are a range of LED luminaires. There are four luminaires 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 cables entries at one end can be used on WL84 and WL84-1200 standard variants only.

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.

**Marking**

The equipment shall be marked with the following:			
Standard		Emergency	
Ex nA mc IIC T5 Gc	Ex nA mc IIC T6 Gc	Ex nA mc IIC T5 Gc	Ex nA mc IIC T6 Gc
Ex nA mc IIC T4 Gc			
Ex tc IIIC T80°C Dc	Ex tc IIIC T65°C Dc	Ex tc IIIC T75°C Dc	Ex tc IIIC T65°C Dc
Ta= -40°C to +60°C	Ta= -40°C to +45°C	Ta= -20°C to +50°C	Ta= -20°C to +40°C

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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. A dielectric strength test shall be carried out on all units manufactured in accordance with IEC 60079-15:2010 clause 23.2.1 and IEC 60079-18:2009, clause 9.2, at 1508 Vac for 1 minute, alternatively at 1.2 times this test voltage for 100 ms or a Vdc at 1.4 times for 1 minute. No breakdown shall occur. Tests shall be carried out between each circuit and earth.
- iii. A visual inspection shall be carried out on the encapsulated parts to check for damage, in accordance with IEC 60079-18:2009, clause 9.1.

### **Conditions of Certification**

None