



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 15.0068 Issue No: 0 Certificate history:
Issue No. 0 (2015-10-23)

Status: **Current** Page 1 of 3

Date of Issue: **2015-10-23**

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

Electrical Apparatus: **Spartan Linear Luminaire**
Optional accessory:

Type of Protection: **Non-Sparking and Encapsulation**

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:*

M D Shearman FlntMC

Position:

Managing Director

*Signature:
(for printed version)*

Date:

23/10/2015

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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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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-18 : 2009 Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2013 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/ExTR15.0073/00](#)

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

Annex:

[Annex IECEx CML 15.0068 Issue 0.pdf](#)

Annexe to: IECEx CML 15.0068 Issue 0
Applicant: Raytec Ltd.
Apparatus: Spartan LED Linear Luminaire



Description of Equipment

The Spartan LED Linear Luminaires are a range of LED luminaires. There are two sizes of luminaire available WL84 (small) and WL168 (large). All variants are offered as LV (Low Voltage); rated at 18V to 30V AC / 18V to 40V 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 a can be used on WL84 standard variants only.

The main section of the luminaire is fitted with a PCB populated with 84 LED’s. The WL84 variant is fitted with one light engine and one external lens The WL168 variant is fitted with two light engines and two external lenses.

The LED’s are available in 15.0068white, 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.

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