ZONE 2

INDUSTRIAL

# **SPARTAN** LINEAR WL168

### LED Zone 1 Linear Luminaire Standard and Emergency variants

The SPARTAN Linear range is designed specifically for use in new hazardous area installations or to retrofit existing fluorescent installations which require high performance, reliable, White-Light illumination. Housed in Marine Grade aluminium and using Raytec's field-proven, long-life LED technology, SPARTAN Linear is ATEX and IEC Ex approved for all Zone 1 applications and rated for T4, T5 and T6 environments (Zone 2 variants also available).

SPARTAN Linear's overall dimensions, fixing centres and gland entries are all compatible with commonly used traditional Ex e 2x36W fluorescent luminaires. The lumen output and light distribution also allows a direct, easy replacement of traditional fluorescent luminaires, meaning the customer can upgrade without complication and enjoy all the benefits of long life LED lighting while making regular lamp changes redundant.

SPARTAN Linear is available as an emergency variant, and standard variants can be converted to an emergency fitting at any time on-site, thanks to a unique modular design. This design also means key components can be easily accessed and serviced if required to make inspection and maintenance quicker and easier. SPARTAN Linear has a clear polycarbonate diffuser which is also available in various degrees of opaqueness to provide greater flexibility during installation.

SPARTAN uses **COOLEXTRUDE**<sup>m</sup> thermal management technology, ensuring a much cooler LED operating temperature and up to 60% better heat dissipation compared to traditional lighting solutions, allowing the product to operate for > 10 years while still delivering a high lumen output of up to 5,000 lumens.

### Key Features

- ATEX and IEC Ex approved Zone 1 UL/CSA approved, including C1D2 ABS approved
- Available as Zone 2 variant
- Retrofitable
- Ultra long life LED

- High lumen output LED
- Easy installation, maintenance and inspection
- Wide operating temperature range of -40° to +55°C

- Clear external tear off strips on outer optics available
- 5 year warranty

### Why Raytec

- UK Designed & Manufactured
- Manufacturing precision engineered LED products
- Worldwide distributor support

- Lighting design and full technical support
- ISO9001 and ISO140001 accredited
- Award Winning Technology

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### **Extended Features**

#### Ultra-Powerful

High lumen output – up to 5,000 lumens Latest high power LED technology

#### Retrofitable

Easy installation, matching the dimensions of traditional 2 x 36W fluorescent fittings, to provide an easy direct replacement Equivalent Output to a 2x36W fluorescent

#### Ultra-Reliable

Industry leading 5 year warranty Designed and manufactured in the UK to the highest standards including both ISO9001 & ISO14001 Advanced electronics and LED's protected by vibration resistant and waterproof potting compound

#### Ultra-Modular

Both the LED and PSU modules are easily accessible for maintenance and inspection Available as a standard fitting only

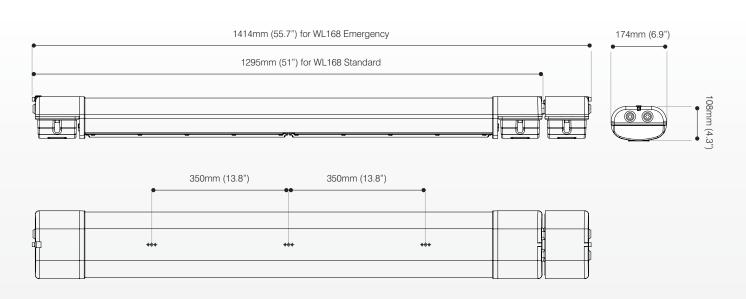
#### **Ultra-Efficient**

**COOLEXTRUDE™** thermal management delivers class leading energy efficiency Significant running and maintenance savings compared to traditional lighting technologies SMART access wiring system for safe and efficient installation, set-up and ongoing inspection

#### Ultra-Support

Photometric files available (.ies & .ldt) Full Lighting Design Service Site specific Energy and Cost Saving Report available

## **Product Dimensions**



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All Raytec luminaires are provided with an industry leading 5 year warranty and have an expected useful life in excess of 10 years

### **Technical Specifications**

ATEX Rating:	ATEX and IEC Ex rated for Gas and Dust	Lumen output
Hazardous Area rating:	Zone 1 & 2 – Gas and Dust	LED type:
Certificates:	CML14ATEX3119 & IECEx CML 15.0001 UL/CSA approved, including C1D2	Number of LED CRI:
Gas:	II 2 GD Ex emb IIC T5 or T4 Gb Ta -40°C to $+55$ °C	Colour Temper
	(-20°C to +50°C for emergency variants) II 2 GD Ex emb IIC T6 Gb Ta -40°C to +45°C (-20°C to +40°C for emergency variants)	Mechanical/E Burning positic IP rating:
Dust:	Ex tb IIIC T82°C Db IP66 & IP67 -	Temperature ra
	Ta -40°C to +55°C (-20°C to +50°C for emergency variants)	Weight:
Electrical		Enclosure:
Input:	110-254V 50/60Hz AC only	
	Low voltage option also available for standard variants only - 18-30V AC/DC	Unit Colour:
Power:	Standard - 68W Emergency - 71W	Installation inst
Termination:	Incoming terminal block at each end suitable for looping and through wiring 4 core 4mm <sup>2</sup> cable	Dimensions:
Power Factor:	>0.95	Mounting:
Cable entries:	2xM20 cable entries at both ends, through wired as standard (other entries available upon request),	
	dispatched complete with three ATEX/IEC Ex approved blanking plugs	Emergency Duration:

#### Optical

umen output on mains:	Up to 5,000 Im
ED type:	Platinum SMT LEDs
Number of LEDs:	168 LEDs
CRI:	70+
Colour Temperature:	6,000K+

#### Mechanical/Environmental

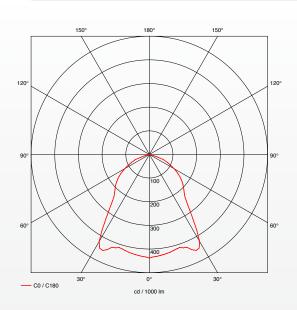
Burning position:	Universal
IP rating:	IP66 & IP67
Temperature range:	-40°C to +55°C (-20°C to +50°C for emergency variants)
Weight:	Standard - 9kg (19.8lbs) Emergency - 10kg (22lbs)
Enclosure:	Marine grade aluminium epoxy powder coated, tough polycarbonate diffuser, all external fasteners and brackets are marine grade stainless steel
Unit Colour:	Silver (RAL 9006) Red (RAL3024) - Emergency cover
Installation instructions:	Raytec 920-M-0036
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Dimensions:	Standard - 1295 x 108 x 174mm (51 x 4.3 x 6.9") Emergency - 1414 x 108 x 174mm (55.7 x 4.3 x 6.9")
Dimensions: Mounting:	· · · · · · · · · · · · · · · · · · ·
	Emergency - 1414 x 108 x 174mm (55.7 x 4.3 x 6.9") Via M8 tapped holes. Various mounting arrangements available (please see product
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Mounting: Emergency	Emergency - 1414 x 108 x 174mm (55.7 x 4.3 x 6.9") Via M8 tapped holes. Various mounting arrangements available (please see product overview guide) Up to 3hrs @ 25% power

#### Part Codes

Part Codes	Description
SPX-WL168	SPARTAN Zone 1 Linear, 168 LED, White-Light
SPX-WL168-EM25	SPARTAN Zone 1 Linear, 168 LED, White-Light, Emergency Battery Backup

For low voltage versions add '-LV' to the above codes Contact Raytec for T5/T6 variants

### Light Distribution



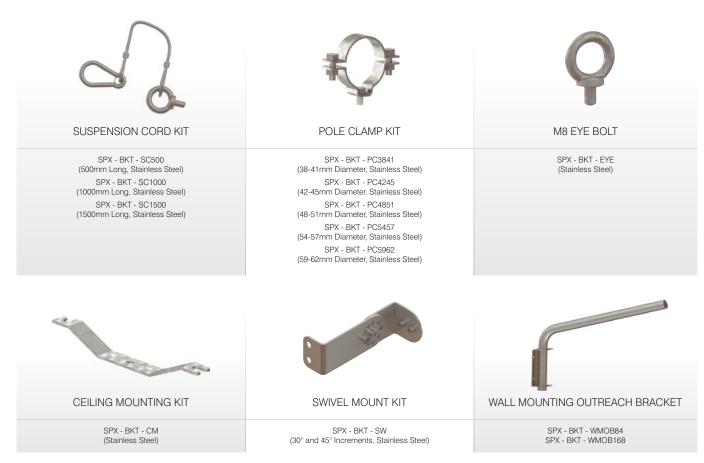


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### **SPARTAN Linear Mounting Accessories**

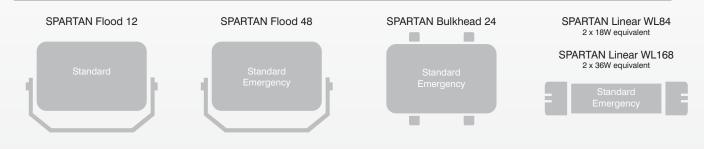


Other accessories also available, including Magnetic Mounting Kit (SPX-BKT-MAG) and Tear off Optic Strips – pack of 10 (SPX-BKT-PF84).

# Products in the SPARTAN Linear WL168 range



# Other Products in the SPARTAN Hazardous Area Family



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