SPARTAN SPX-WL84
LED Zone 1/21 Linear Luminaire

rayTEC
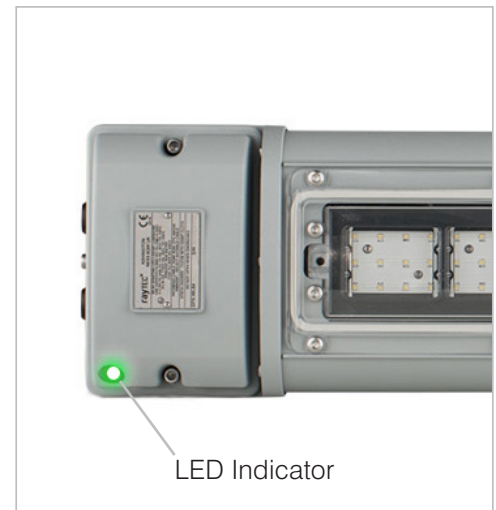

Intelligent Emergency Variants

- ATEX and IEC Ex approved – Zone 1/21 UL/CSA approved, including C1D2 and ABS

- Zone 2 variants available

- Intelligent Emergency variants - Up to 100% light output

- Retrofitable

- Ultra long life, high lumen output LEDs

- Easy installation, maintenance and inspection

- Wide operating temperature range -40° to +55°C

- 5 year warranty

- 'Op is' approved (EN60079-28)

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 1/21 applications (Zone 2/22 variants also available). SPARTAN Linear's overall dimensions, fixing centres and gland entries are all compatible with traditional Ex e 2x18W fluorescent luminaires, so end users can upgrade to LED easily.

SPARTAN Linear is available as an intelligent emergency variant which self-tests the emergency battery to proactively monitor and maintain the overall health of the luminaire and provides class leading emergency performance. A unique modular design means key components are easily accessible, making inspection and maintenance quick and easy. **COOLEXTRUDE™** thermal management technology ensures the luminaire runs cool, providing up to 60% better heat dissipation compared to conventional lighting, allowing the product to operate for 10+ years while still delivering a high lumen output of 2,500 lumens.

Intelligent Emergency - Self-testing Functions

LED Indication	Condition
🟢 (green)	Battery charged and PSU OK
⚪ (grey)	Emergency mode activated
🟡 (amber)	Function Test
🟡 (amber)	Self-test
☀️ (flashing amber)	Commissioning
☀️ (flashing red)	Fault - further troubleshooting required

LED Indicator

Features / Benefits

Features	Benefits
Retrofitable	Easy Installation, matching the dimensions of traditional 2x18W fluorescent fittings, to provide an easy direct replacement Equivalent Output to a 2x18W fluorescent
Intelligent Emergency	Self-testing emergency battery which proactively monitors and maintains the overall health of the luminaire Easy inspection thanks to a tri-colour LED indicator
Modular Design	Both the LED and PSU modules are easily accessible for maintenance and inspection
Ultra-Powerful	High lumen output – up to 2,500 lumens Latest high power LED technology
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 Intelligent emergency with automatic self-testing
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
Support Services	Photometric files available (.ies & .ldt) Full Lighting Design Service Site specific Energy and Cost Saving Report available

5 YEAR WARRANTY

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

5 YEAR WARRANTY

Technical Specifications

Certification

ATEX Rating:	ATEX and IEC Ex rated for Gas and Dust
Hazardous Area rating:	Zone 1 (Gas), Zone 21 (Dust)
Certificates:	CML14ATEX3119 & IEC Ex CML 15.0001 UL/CSA, including C1D2
Gas:	II2 G D Ex e mb op is IIC T5 Gb Ta= -40°C to +55°C (-20°C to +50°C for emergency variants)
Dust:	Ex tb op is IIIC T75°C Db Ta= -40°C to +55°C (-20°C to +50°C for emergency variants)
North America Rating:	Class I, Division 2 Groups A, B, C, D, T5 Class II, Division 1 & 2 Groups E, F, G Class III, Division 1 & 2 NEMA 4x, IP66/IP67 UL50E, UL8750, UL 1203 C22.2 No Emergency Variants - Certification Pending
ABS Rating:	ABS Certificate # 15-LD1364539-1-PD

Electrical

Input:	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC
Power:	Standard - 34W Emergency - 37W
Termination	Incoming terminal block suitable for looping 4 core 4mm² cable
Power Factor:	>0.95
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 plug 3/4" NPT as standard on C1D2

Optical

Lumen output on mains:	Up to 2,500 lm
LED type:	Platinum Elite SMT LEDs
Number of LEDs:	84 LEDs
CRI	80+
Colour Temperature:	6,000K+

Mechanical/Environmental

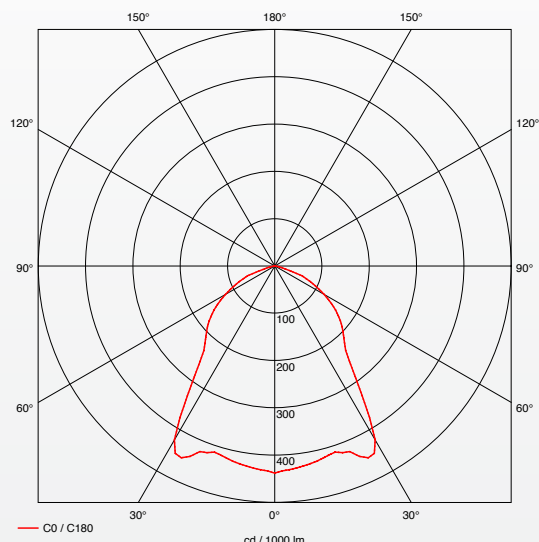|	
Burning position:	Universal
IP rating:	IP66 & IP67
Temperature range:	-40°C to +55°C (-20°C to +50°C for emergency variants)
Weight:	Standard - 6kg (13.2lbs) Emergency - 7kg (15.4lbs)
Enclosure:	Marine grade aluminium epoxy powder coated, UV stabalised polycarbonate, all external fasteners and brackets are marine grade stainless steel
Unit Colour:	Silver (RAL 9006) Red (RAL3024) - Emergency cover
Installation instructions:	Please contact Raytec for copy
Dimensions:	775 x 108 x 174mm (30.5 x 4.3 x 6.9")
Mounting:	Via M8 tapped holes. Various mounting arrangements available (please see product overview guide)

Intelligent Emergency Battery Back-Up

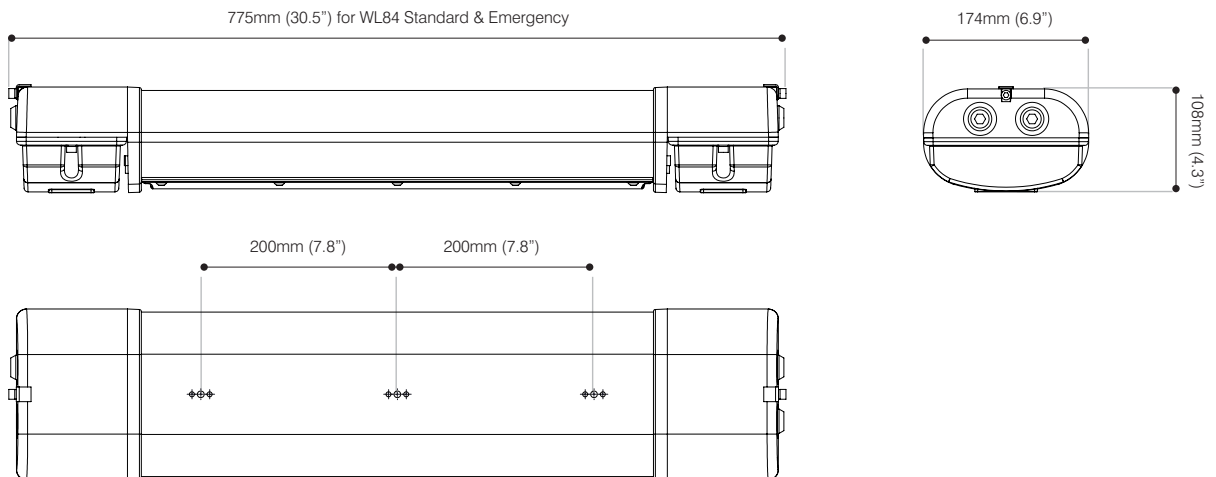|	
Function:	Self-testing intelligent emergency
System health indicator:	Tri-colour LED indicator
Emergency Duration:	Up to 3hrs @ 25% power Other options available
Emergency Battery:	Ni/Cd 12V
Emergency Charge Time:	20 hours

Part Codes - Zone 1/21

Part Codes	Description
SPX-WL84	SPARTAN Zone 1/21 Linear, 84 LED, White-Light
SPX-WL84-EMX25	SPARTAN Zone 1/21 Linear, 84 LED, White-Light, Intelligent Emergency Battery Backup

18-69V variants available, add -LV to the above codes
12V variants available, add -ELV to the above codes
Add -D to part code for diffused lens
Contact Raytec for T5/T6 variants

Light Distribution

C0 / C180
cd / 1000 lm

Product Dimensions

775mm (30.5") for WL84 Standard & Emergency

174mm (6.9")

108mm (4.3")

200mm (7.8")   200mm (7.8")

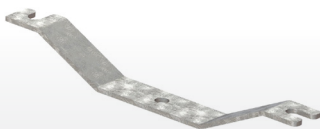# SPARTAN Linear Accessories

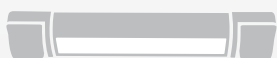|		
SUSPENSION CORD KIT	POLE CLAMP KIT	M8 EYE BOLT
CEILING MOUNTING KIT	SWIVEL MOUNT KIT	WALL MOUNTING OUTREACH BRACKET

Other accessories also available, including Magnetic Mounting Kit (SPX-BKT-MAG) and Tear Off Optic Strips - pack of 10 (SPX-BKT-PF84)
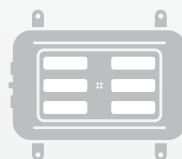
Products in the SPARTAN Family

SPARTAN Flood   SPARTAN Linear   SPARTAN Bulkhead   SPARTAN Bay   SPARTAN Crane