SPARTAN SPX-WL84
LED Zone 1/21 Wildlife Friendly 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

- Long life, high lumen output, amber LED's
- Easy installation, maintenance and inspection
- Wide operating temperature range -40° to +55°C
- 5 year warranty
- 'Op is' approved (EN60079-28)

The SPARTAN Wildlife Friendly Linear is designed specifically for use in new hazardous area installations or to retrofit existing fluorescent installations near hazardous coastal facilities, or sites located near nature reserves. Housed in marine grade aluminium and using Raytec's field-proven, long-life LED technology, SPARTAN Wildlife Friendly Linear is ATEX and IEC Ex approved for all Zone 1/21 applications (Zone 2/22 variants also available). SPARTAN Wildlife Friendly Linear's overall dimensions, fixing centres and gland entries are all compatible with traditional Ex e fluorescent luminaires, so end users can upgrade to LED easily.

SPARTAN Wildlife Friendly 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.

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Raytec Americas: +1 613 270 9990 • ushazsales@raytecled.com

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Intelligent Emergency - Self-testing Functions

LED Indication	Condition
🟢	Battery charged and PSU OK
⚪	Emergency mode activated
🟡	Function Test
	Self-test
☀️	Commissioning
☀️	Fault - further troubleshooting required

LED Indicator

Features	Benefits
Retrofitable	Easy installation, matching the dimensions of traditional fluorescent fittings, to provide an easy direct replacement
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-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

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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)

Electrical

Input:	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC (low voltage options available on standard products only)
Power:	34W
Termination	Incoming terminal block suitable for looping 4 core 4mm² cable
Power Factor:	>0.95
Cable Entries	2xM20 as standard (other entries available upon request), dispatched complete with one ATEX/IEC Ex approved blanking plug 3/4" NPT as standard on C1D2

Optical

LED type:	Platinum Elite SMT LEDs
Number of LEDs:	84 LEDs
Dominant Wavelength:	600nm

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 stabilised 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:	WL84 Standard and Emergency - 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

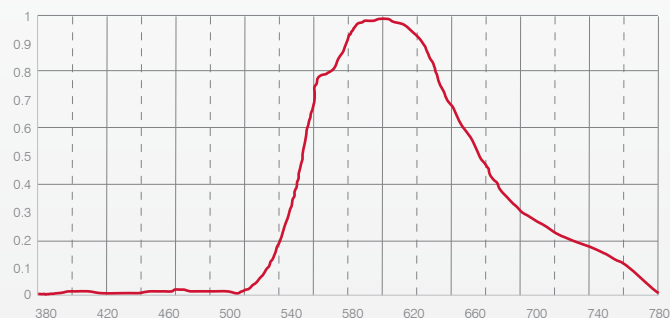| Part Codes	Description
SPX-WL84-4K-A	SPARTAN Zone 1 Wildlife Friendly Linear WL84
SPX-WL84-4K-A-EMX25	SPARTAN Zone 1 Wildlife Friendly Linear WL84, Intelligent Emergency Backup

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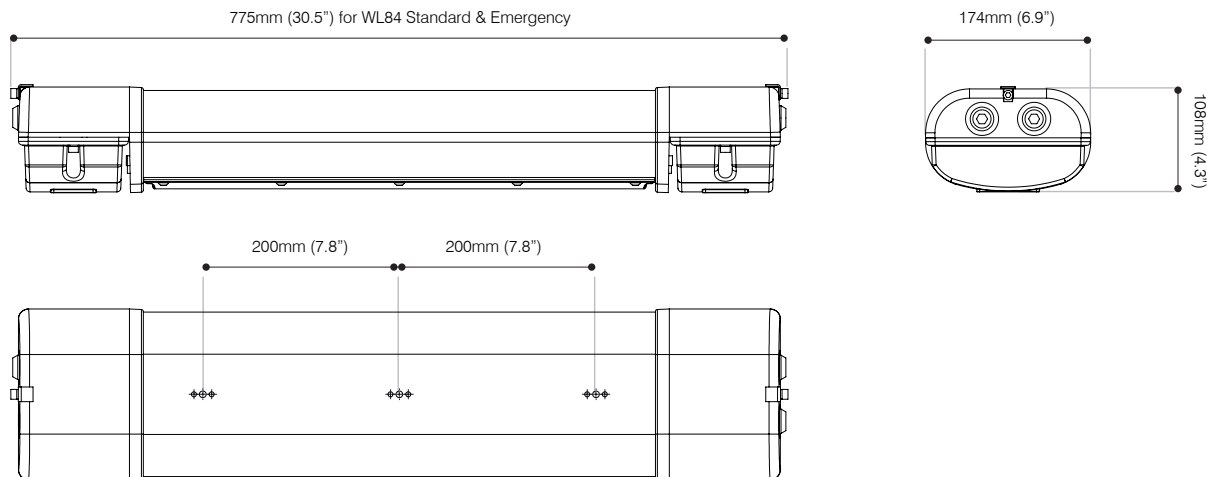Contact Raytec for T5/T6 variants

Spectral Curve

Optical

LED type:	Platinum SMT LEDs
Dominant Wavelength:	600nm

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Product Dimensions

775mm (30.5") for WL84 Standard & Emergency

174mm (6.9")

108mm (4.3")

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

SPARTAN Linear Accessories

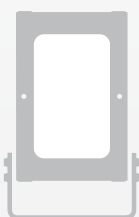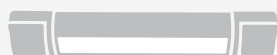|		
SUSPENSION CORD KIT	POLE CLAMP KIT	M8 EYE BOLT
CEILING MOUNTING KIT	SWIVEL MOUNT KIT	WALL MOUNTING OUTREACH BRACKET

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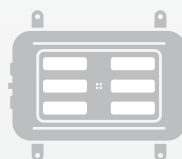
Products in the SPARTAN Family

SPARTAN Flood   SPARTAN Linear   SPARTAN Bulkhead   SPARTAN Bay   SPARTAN Crane

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