SPARTAN SPX-WLXX-SP
LED Zone 1/21 Linear Luminaire

rayTEC

Ex IECEx CE ABS

Intelligent Emergency

- ATEX and IEC Ex approved – Zone 1/21
- Zone 2 variants and C1D2 variants (UL/CSA) 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
- Integrated Spigot Bracket for Pole Mount

The SPARTAN Spigot Mount Linear range is designed for new hazardous area pole mount applications or to retrofit existing fluorescent pole 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 Spigot Mount Linear's overall dimensions, fixing centres and gland entries are all compatible with commonly used traditional Ex e 2x18W & 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. The integrated spigot bracket is designed to fit poles up to 42mm in diameter and is fully shrouded for environmental protection.

SPARTAN Linear is available as an emergency variant, and standard variants, 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™** 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 6,240 lumens.
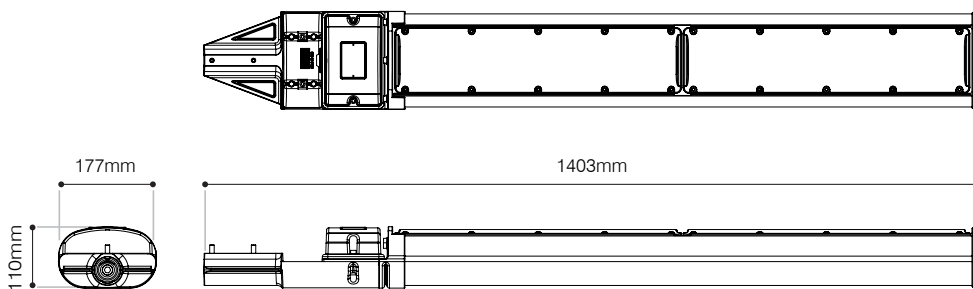
Product Dimensions

SPX-WL84-SP

177mm   883mm

110mm

SPX-WL84-SP-EMX

177mm   999mm

111mm

SPX-WL168-SP

177mm   1403mm

110mm
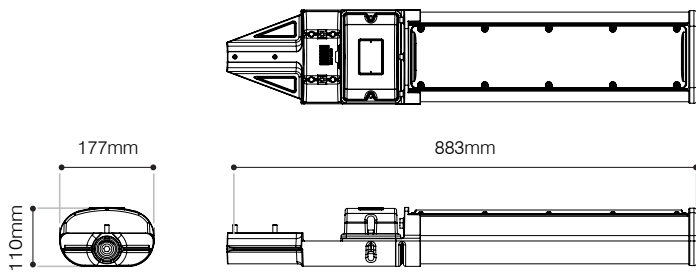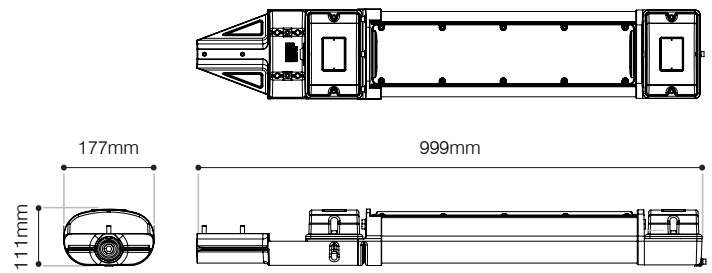
Features	Benefits
Ultra-Powerful	High lumen output - up to 6,240 lumens Latest high power LED technology
Ultra-Flexible	Easy Installation, matching the dimensions of traditional 2x18W & 2x36W fluorescent fittings, to provide an easy direct replacement Equivalent Output to a 2x18W & 2x36W fluorescent
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

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. See Warranty statement for full details.

5 YEAR WARRANTY

0920-D-00044
Rev 1

THORNE &
DERRICK
INTERNATIONAL

Thorne & Derrick
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www.heatingandprocess.com

T&D

Version 1
www.raytecled.com

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
Gas	II 2 G D Ex e mb IIC T4 Gb Ta= -40°C to+55°C (-20°C to +50°C for emergency variants)
Dust	Ex tc IIIC T75°C Db Ta= -40°C to+55°C (-20°C to +50°C for emergency variants)
ABS Certificate #	ABS Certificate # 20-1990083-PDA

Electrical

	WL84	WL84 Emergency	WL168
Input	Standard: 110-254V AC Low voltage version: 18-48V AC and 18-69V DC Extra low voltage version: 12V AC/DC	110-254V AC only	110-254V AC only
Power	29W	32W	59W
Termination	Incoming terminal block suitable 4 core 4mm² cable (6mm² available - POA)		
Power Factor	>0.95	>0.95	>0.95
Cable Entries	1xM20 cable entry as standard (other entries available upon request), dispatched complete with an ATEX/IEC Ex approved blanking plug		

Optical

	WL84	WL84 Emergency	WL168
Lumen output on mains	3050	3050	6240
LED type	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs
Number of LEDs	84	84	168
CRI	80+	80+	80+
Colour Temperature	6500K standard	6500K standard	6500K standard

Mechanical

	WL84	WL84 Emergency	WL168
Burning Position	Universal	Universal	Universal
IP Rating	IP66 & IP67	IP66 & IP67	IP66 & IP67
Temperature Range	-40°C to +55°C	-20°C to +50°C	-40°C to +55°C
Weight	6kg (13.2lbs)	7kg (15.4lbs)	9kg (19.8lbs)
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)	Silver (RAL 9006) Red (RAL3024) - Emergency battery cover	Silver (RAL 9006)
Installation instructions	Please see document 920-D-0041 at www.raytecled.com		
Dimensions	See dimensional sketches		
Mounting	Via 34-42mm spigot entry. Grub screws provided as standard		

Intelligent Emergency

	WL84 Emergency
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

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Light Distribution

150° 180° 150°
120° 120°
90° 90°
60° 60°
30° 0° 30°

— C0 / C180

cd / 1000 lm
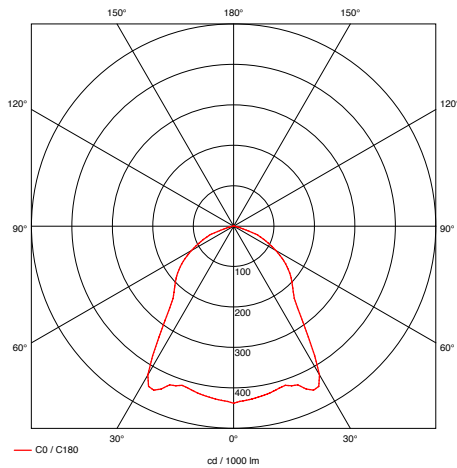
Part Codes

Zone 1	SPX-WL84-SP	SPARTAN Zone 1 Spigot Mount Linear, 84 LED, White Light	
	SPX-WL84-SP-EMX25	SPARTAN Zone 1 Spigot Mount Linear, 84 LED, White Light, Emergency Backup Battery	
	SPX-WL168-SP	SPARTAN Zone 1 Spigot Mount Linear, 168 LED, White Light	
Zone 2	SPZ-WL84-SP	SPARTAN Zone 2 Spigot Mount Linear, 84 LED, White Light	
	SPZ-WL84-SP-EMX	SPARTAN Zone 2 Spigot Mount Linear, 84 LED, White Light, Emergency Backup Battery	
	SPZ-WL168-SP	SPARTAN Zone 2 Spigot Mount Linear, 84 LED, White Light	
Industrial	SPI-WL84-SP	SPARTAN Industrial Spigot Mount Linear, 84 LED, White Light	
	SPI-WL84-SP-EMX25	SPARTAN Industrial Spigot Mount Linear, 84 LED, White Light, Emergency Backup Battery	
	SPI-WL168-SP	SPARTAN Industrial Spigot Mount Linear, 168 LED, White Light	

SPARTAN Linear Accessories

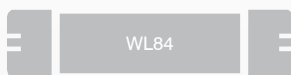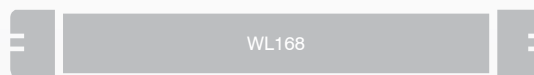| SUSPENSION CORD KIT	WALL MOUNTING OUTREACH BRACKET
SPX - BKT - SC500 (500mm Long, Stainless Steel) SPX - BKT - SC1000 (1000mm Long, Stainless Steel) SPX - BKT - SC1500 (1500mm Long, Stainless Steel)	SPX - BKT - WMOB84 SPX - BKT - WMOB168

Products in the SPARTAN Linear range

Zone 1, Zone 2, UL/CSA, Industrial
Emergency variants also available

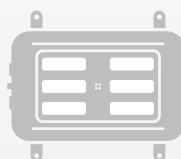
WL84

WL168

Products in the SPARTAN Family

SPARTAN Flood   SPARTAN Linear   SPARTAN Bulkhead   SPARTAN Bay   SPARTAN Crane