# **SPARTAN LED LINEAR** WL84

## LED Zone 2 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 2 applications and rated for T4, T5 and T6 environments (Zone 1 variants also available).

SPARTAN Linear's overall dimensions, fixing centres and gland entries are all compatible with commonly used traditional Ex n 2x18W 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>™</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 2,750 lumens.

## Key Features

- ATEX & IEC Ex approved Zone 2 UL/CSA Approved, including CID2
- Zone 1 variant also available
- Retrofitable
- Emergency variants

- Ultra long life LED
- High lumen output LED
- Easy installation, maintenance and inspection
- Wide operating temperature range of -40° to  $+60^{\circ}C$
- 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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## **Technical Specifications**

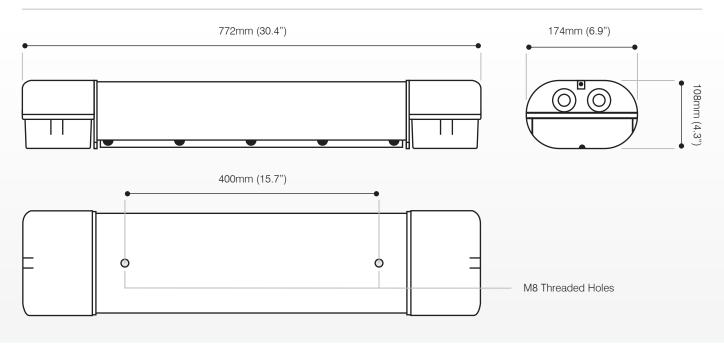
Certification		Mechanical/Environmental	
ATEX Rating:	ATEX and IEC Ex rated for Gas and Dust	Burning position:	Universal
Hazardous Area rating:	Zone 2 – Gas and Dust	IP rating:	IP66 & IP67
Certificates:	CML15ATEX4138 & IEC Ex CML15.0068 UL/CSA, including C1D2	Temperature range:	-40°C to +60°C (-20°C to +40°C emergency variants)
Gas:	II 3 G D nA mc IIC T4 or T5 Gc Ta= -40°C to +60°C	Weight:	Standard - 6kg (13.2lbs) Emergency - 7kg (15.4lbs)
	(-20°C to +40°C emergency variants) II 3 G D nA mc IIC T6 Gc Ta= -40°C to +45°C (-20°C to +40°C emergency variants)	Enclosure:	Marine grade aluminium epoxy powder coated, tough polycarbonate diffuser, all external fasteners and brackets are marine
Dust:	Ex tc IIIC T80°C Dc IP66 & IP67 - Ta -40°C to +60°C (-20°C to +50°C emergency variants)	Unit Colour:	grade stainless steel TBC Red (RAL3024) - Emergency cover
		Installation instructions	: Raytec 920-M-0036
Electrical		Dimensions:	772x 108 x 174mm (30.4 x 4.3 x 6.9")
Input:	110-254V 50/60Hz AC only Low voltage option also available for standard variants only - 18/30V AC/DC	Mounting:	Via M8 tapped holes. Various mounting arrangements available (please see product overview guide)
Power:	Standard - 34W		
	Emergency - 37W	Emergency	
Termination:	Incoming terminal block at each end suitable for looping and through wiring 4 core 4mm <sup>2</sup> cable	Duration:	Up to 3hrs @ 25% power Other options available
Power Factor:	>0.95	Battery:	Ni/Cd 12V
Cable entries:	2xM20 cable entries at both ends, through wired as standard (other entries available upon request), dispatched complete with three ATEX/	Charge time:	20 hours

#### Optical

Lumen output on mains:	Up to 2,750 Im
LED type:	Platinum SMT LEDs

IEC Ex approved blanking plugs

#### **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