



## SPARTAN SPZ-WL84-1200 LED Zone 2/22 Linear Luminaire

rayTEC®



Intelligent Emergency  
Variants








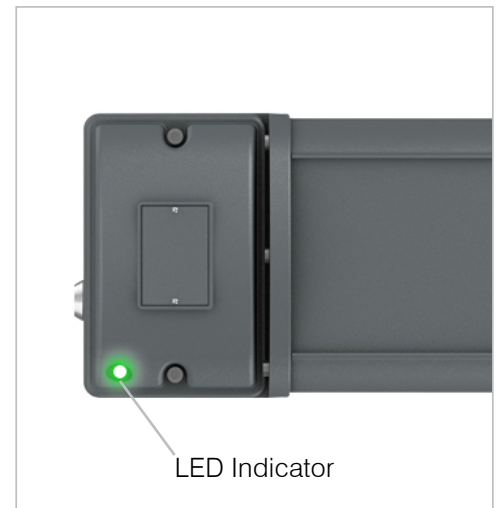
- ATEX and IEC Ex approved - Zone 2/22
- ABS approved
- Zone 1/21 variant and C1D2 variants (UL/CSA) available
- Retrofittable
- Intelligent Emergency variants - up to 100% light output
- Ultra long life, high lumen output LEDs
- Easy installation, maintenance and inspection
- Wide operating temperature range of -40° to +60°C
- 5 year warranty
- 2ft Linear in a 4ft Body - 56% savings

The SPARTAN Linear range is designed specifically for use in new hazardous area installations or to retrofit existing fluorescent installations which require high performance, 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 2/22 applications (Zone 1/21 variants also available). SPARTAN Linear's overall dimensions, fixing centres and gland entries are all compatible with traditional Ex n 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. SPARTAN uses thermal management technology which 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 up to 3,460 lumens.

## 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 |



| Features              | Benefits   |
|-----------------------|--|
| Ultra-Powerful        | High lumen output – up to 3,460 lumens<br>Latest high power LED technology   |
| Intelligent Emergency | Self-testing emergency battery which proactively monitors and maintains the overall health of the luminaire<br>Easy inspection thanks to a tri-colour LED indicator  |
| Modular Design        | Both the LED and PSU modules are easily accessible for maintenance and inspection  |
| Retrofittable         | Easy Installation, matching the dimensions of traditional 2x36W fluorescent fittings, to provide an easy direct replacement<br>Equivalent Output to a 2x36W fluorescent (see Light Output graph on page 3)   |
| Ultra-Reliable        | Industry leading 5 year warranty<br>Designed and manufactured in the UK to the highest standards including both ISO9001 & ISO14001<br>Advanced electronics and LED's protected by vibration resistant and waterproof potting compound<br>Intelligent emergency with automatic self-testing |
| Ultra-Efficient       | Thermal management delivers class leading energy efficiency<br>Significant running and maintenance savings compared to traditional lighting technologies<br>SMART access wiring system for safe and efficient installation, set-up and ongoing inspection                                  |
| Support Services      | Photometric files available (.ies & .ldt)<br>Full Lighting Design Service<br>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



# Technical Specifications

## Certification

|                        |   |
|------------------------|---|
| ATEX Rating:           | ATEX and IEC Ex rated for Gas and Dust  |
| Hazardous Area rating: | Zone 2 (Gas), Zone 22 (Dust)  |
| Certificates:          | CML15ATEX4138 & IEC Ex CML 15.0068  |
| Gas (Zone 2):          | II 3 G D<br>Ex nA mc IIC T4 Gc<br>Ta= -40°C to +60°C<br>(-20°C to +50 for emergency variants) |
| Dust (Zone 22):        | Ex tc IIIC T80°C Dc<br>Ta= -40°C to +60°C<br>(-20°C to +50°C for emergency variants)          |
| ABS Rating:            | ABS Certificate # 20-1990083-PDA  |

## Electrical

|               |   |
|---------------|---|
| Input:        | 110-254V 50/60Hz AC only<br>Low voltage: 18-48V AC and 18-69V DC<br>Extra low voltage: 12V AC/DC  |
| Power:        | Standard - 29W<br>Emergency - 32W   |
| Termination   | Incoming terminal block suitable for looping 4 core 4mm <sup>2</sup> cable (6mm <sup>2</sup> available - POA)   |
| 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 |

## Optical

|                        |                         |
|------------------------|-------------------------|
| Lumen output on mains: | Up to 3,460 lm          |
| LED type:              | Platinum Elite SMT LEDs |
| Number of LEDs:        | 84 LEDs                 |
| CRI                    | 80+                     |
| Colour Temperature:    | 6,000K+                 |

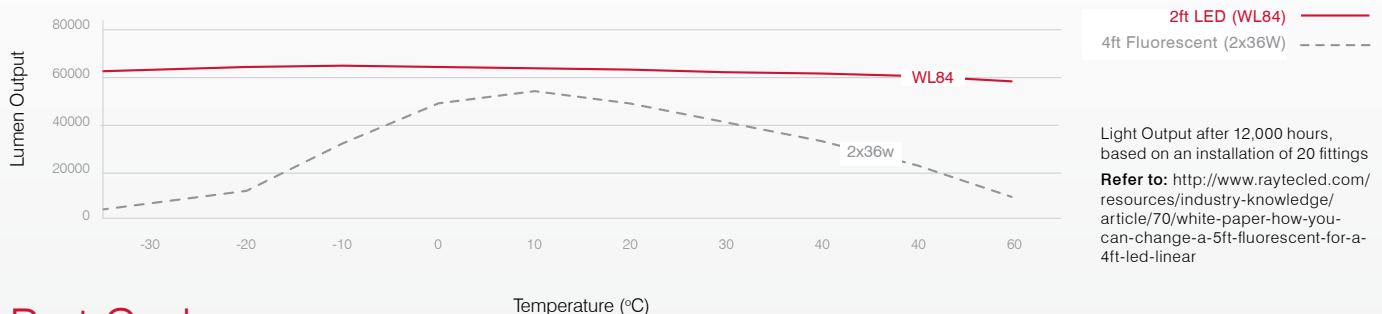
## Mechanical/Environmental

|                            |   |
|----------------------------|---|
| Burning position:          | Universal   |
| IP rating:                 | IP66 & IP67   |
| Temperature range:         | -40°C to +60°C<br>(-20°C to +50°C for emergency variants)   |
| Weight:                    | Standard - 8.5kg (18.7lbs)<br>Emergency - 9.5kg (19.8lbs)   |
| Enclosure:                 | Marine grade aluminium epoxy powder coated, UV stabilised polycarbonate, all external fasteners and brackets are marine grade stainless steel |
| Unit Colour:               | Dark Grey (RAL 7012)<br>Emergency Cover - Red (RAL 3024)  |
| Installation instructions: | Please see document 910-M-0284 at <a href="http://www.raytecd.com">www.raytecd.com</a>  |
| Battery care instructions: | Please see document 0010-D-00001 at <a href="http://www.raytecd.com">www.raytecd.com</a>  |
| Dimensions:                | 1295 x 108 x 174mm (51 x 4.3 x 6.9")  |
| Mounting:                  | Via M8/M6 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<br>Other options available |
| Emergency Battery:       | Ni/Cd 12V   |
| Emergency Charge Time:   | 20 hours  |

# Light Output

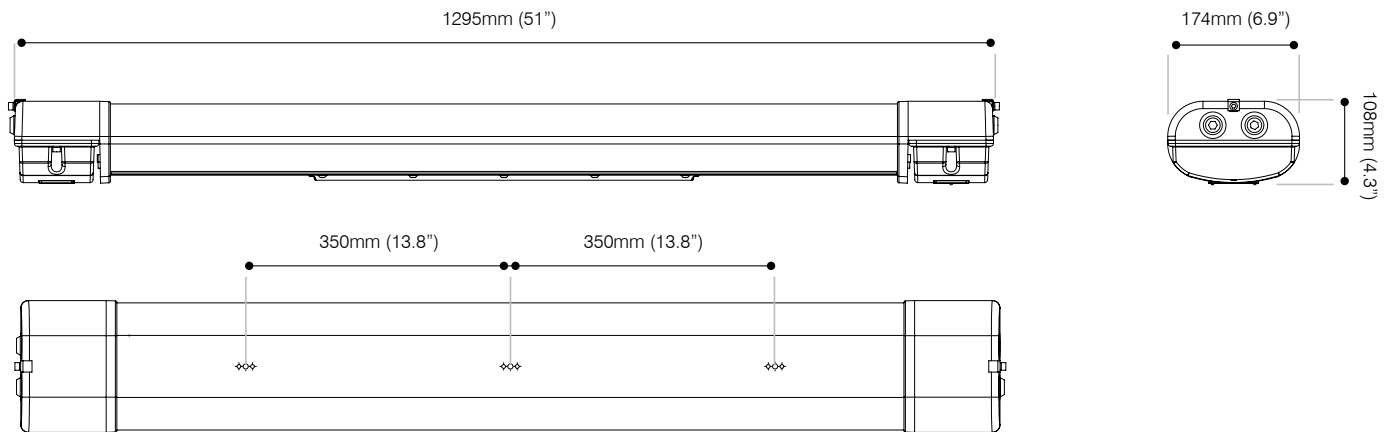


# Part Codes

| Part Codes          | Description  |
|---------------------|--|
| SPZ-WL84-1200       | SPARTAN Zone 2 Linear, 84 LED, White-Light                                       |
| SPZ-WL84-1200-EMX25 | SPARTAN Zone 2 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  
EMX not available in -LV or -ELV

## Product Dimensions



## SPARTAN Linear Accessories



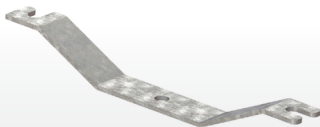
SUSPENSION CORD KIT



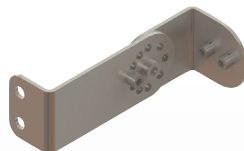
POLE CLAMP KIT



M8 EYE BOLT



CEILING MOUNTING KIT



SWIVEL MOUNT KIT



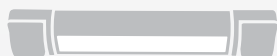
WALL MOUNTING OUTREACH BRACKET

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

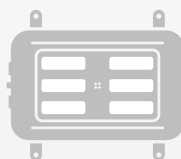
## Products in the SPARTAN Family



SPARTAN Flood



SPARTAN Linear



SPARTAN Bulkhead



SPARTAN Bay



SPARTAN Crane