

## SPARTAN LED Zone 2/22 SPZ High Output Linear Luminaire



### Modular Design

Key components such as the LED and PSU modules are easily accessible for straightforward maintenance and inspection.



### Power and Performance

High lumen output up to 14 kilolumens and a range of beam patterns to effectively light up large open areas.



### Retrofitable

Linear has been designed with the same dimensions, fixing centres and cable entries as traditional fluorescent fittings making it a direct replacement.



### Bespoke LED

Raytec are specialists in LEDs and all our products are designed around LEDs with bespoke housing for optimum performance and reliability.

## 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 details.



# Technical Specifications

## Certification

ATEX Rating	ATEX UKEX and IEC Ex rated for Gas and Dust
Hazardous Area Rating	Zone 2 (Gas), Zone 22 (Dust) (Zone 21 Version also available: Zone 2 (Gas) Zone 21/22 (Dust))
Certificates	Zone 2/22 version: CML15ATEX4138 & IEC Ex CML15.0068 & CML21UKEX4104 (Zone 21 version: CML16ATEX1130 & IEC Ex CML16.0052 & CML21UKEX1100)
Gas	Gas: II 3 G D Ex ec mc IIC T4 Gc Ta= -40°C to +60°C (-20°C to +50°C for emergency variants)
Dust	Ex tc IIIC T80°C Dc Ta= -40°C to +60°C (-20°C to +50°C for emergency variants)
Dust (Zone 21 Version)	II 2 D Ex tb IIIC T80°C Db Ta= -40°C to +60°C (-20°C to +50°C for emergency variants)
ABS Certificate #	ABS Certificate # 20-1990083-PDA

## Electrical

	WL84	WL84 Emergency	WL168
Input	110-254Vac 50/60Hz 110-254Vdc	110-254V 50/60Hz AC only	110-254Vac 50/60Hz 110-254Vdc
Power	48W	56W	96W
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/UKEX approved blanking plugs		

## Optical

	WL84	WL84 Emergency	WL168
Lumen output on mains	7048		14096
LED type	Platinum Elite SMT LEDs		
Number of LEDs	80		160
CRI	80+		
Colour Temperature	6500K standard		

## Mechanical

	WL84	WL84 Emergency	WL168
Burning Position	Universal		
IP Rating	IP66 & IP67		
IK Rating	IK10		
Temperature Range	-40°C to +60°C	-20°C to +50°C	-40°C to +60°C
Weight	6kg (13.2lbs)	7kg (15.4lbs)	10kg (22lbs)

# Technical Specifications

## Mechanical

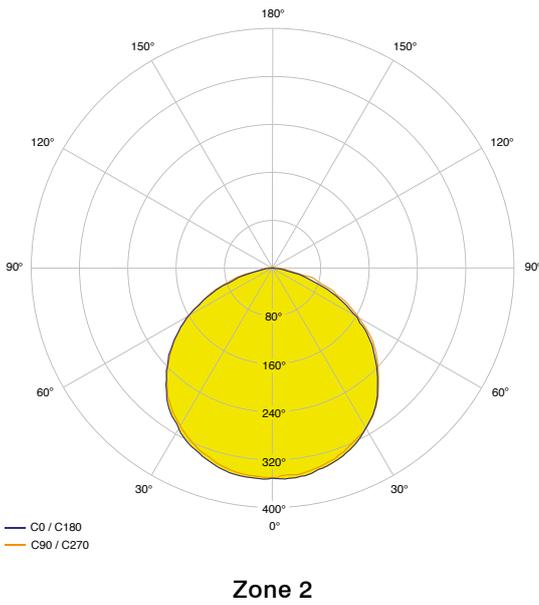
Enclosure	Marine grade aluminium epoxy powder coated, UV stabilised polycarbonate, all external fasteners and brackets are marine grade stainless steel
Unit Colour	Silver (RAL 9006) Emergency Cover - Red (RAL 3024)
Installation instructions	Please see document 0920-D-00042 at <a href="http://www.raytecltd.com">www.raytecltd.com</a>
Dimensions	See dimensional sketches
Mounting	Via M8/M6 tapped holes. Various mounting arrangements available (please see product overview guide)

## Intelligent Emergency

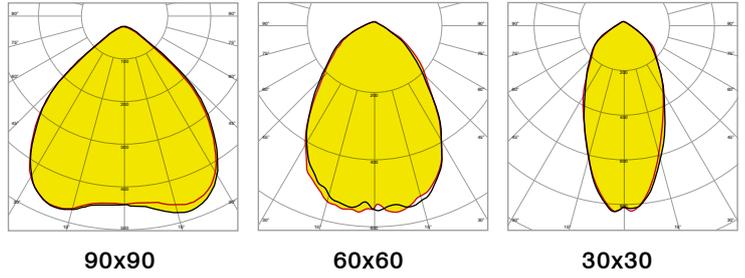
### WL84 Emergency

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

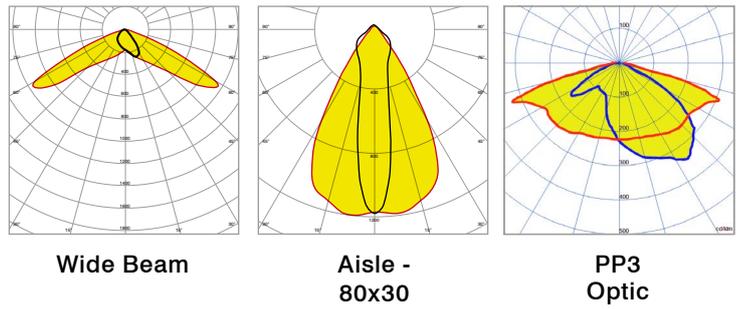
# Light Distribution



## Symmetrical Optics

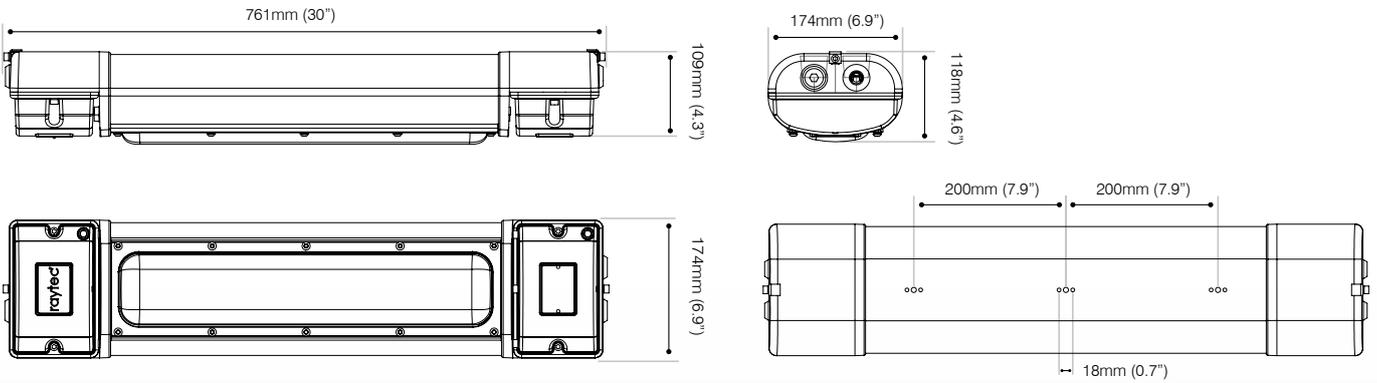


## Asymmetrical Optics

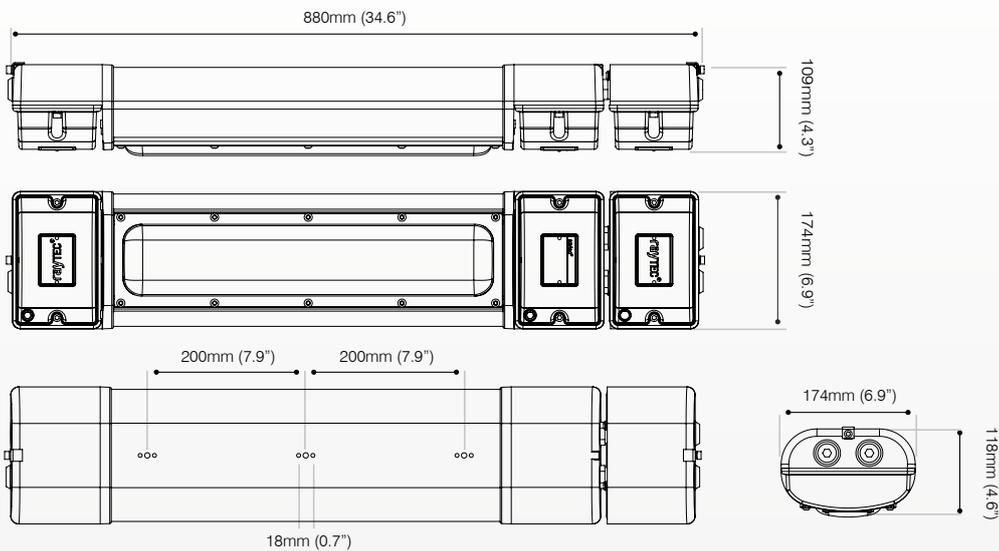


# Product Dimensions

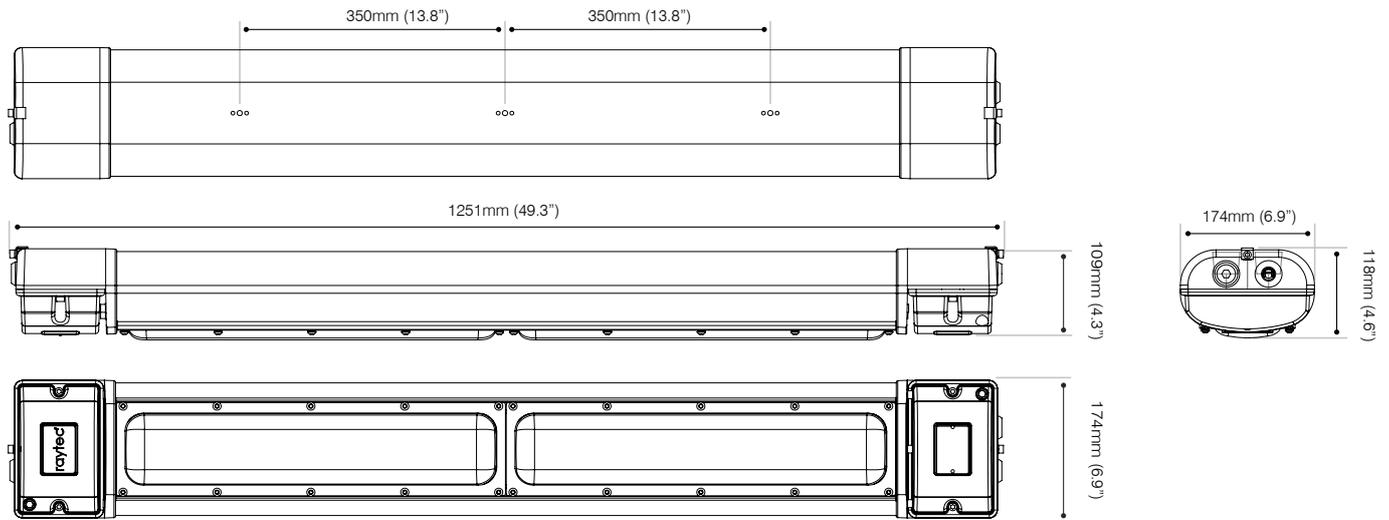
## WL84



## WL84-EMX



**WL168**



## Part Code Builder

### SPARTAN High Output Linear Zone 2 Family

Example - SPZ-WL84-HO

Family	Model	Emergency	CCT	Power	Optics	Entry
SPZ	WL84-HO	Not Stated - Non EM	Not Stated - 6500K	Not Stated - 110-254Vac	Not Stated - Standard	Not Stated - M20
	WL168-HO	EMX25 - (25% for 3 hours) (WL84 only)	4K - 4000K		Other optics available - please contact Raytec	M25

\*Alternative versions available. Please contact Raytec for details.

## SPARTAN Linear Specials



### Wildlife-Friendly Variants

- Amber LED technology designed to protect wildlife in coastal locations or natures reserves.
- Dominant wavelength: 600nm

Example ordering code: SPZ-WL168-HO-4K-A  
Other options available, contact Raytec for full ordering information



See SPARTAN Linear Mounting & Accessories Guide for full range of accessories