SPARTAN LED
Zone 2/22 SPZ Linear Luminaire





Intelligent Emergency Variants







Modular Design

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

Intelligent Emergency

Self-testing emergency battery providing up to 3 hours emergency back-up.

Retrofitable

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

Controllable

DALI 2.0 Dimmable as an option on non emergency variants for precise and flexible control of lighting assets.

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.

5 YEAR WARRANTY

Raytec Global (excluding Americas): +44 (0) 1670 520055 • sales@raytecled.com
Raytec Americas: +1 613 270 9990 • ushazsales@raytecled.com

Technical Specifications - Core Products

SPARTAN Linear WL84



SPARTAN Linear WL168



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) (T6 variants also available - contact Raytec)
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 #	#25-0220600-PDA

Electrical

	WL84	WL84 Emergency	WL168	WL168 Emergency
Input	Standard: 110-254V 50/60Hz AC/DC Optional: 110-277 50/60Hz AC/DC Low voltage version 18-48V AC & 18-69V DC	110-277V 50/60Hz AC only	Standard: 110-254V 50/60Hz AC/DC Optional: 110-277 50/60Hz AC/DC Low voltage version 18-48V AC & 18-69V DC	110-254V 50/60Hz AC only
Power	24W	32W	49W	56W
Termination	Incoming terminal block suitable for looping 4 core 4mm² cable (6mm² available - POA)			
Power Factor	>0.95			
Cable Entries	SPARTAN Linear comes with 2 M20 cable entries at each end of the product, 4 total (Other entries available upon request) Dispatched complete with three ATEX/IEC Ex/UKEX approved blanking plugs			
DALI	Non-Emergency and non Low voltage products are available as DALI 2.0 enabled as an option. In these variants terminals are provided for loop in/loop out 2 core control cable			

*T6 variants are AC only, T6 variants are not compatible with DALI.

Optical

	WL84	WL84 Emergency	WL168	WL168 Emergency
Lumen output on mains	See Lumen Output by Optic Table below			
LED type	Platinum Elite SMT LEDs			
Number of LEDs	80		160	
CRI	80+			
Colour Temperature	6500K standard			

Mechanical

	WL84	WL84 Emergency	WL168	WL168 Emergency
Burning Position	Universal			
IP Rating	IP66 & IP67			
IK Rating	IK10			
Temperature Range	-40°C to +60°C (-40°F to + 140°F)	-20°C to +50°C (-4°F to + 122°F)	-40°C to +60°C (-40°F to + 140°F)	-20°C to +50°C (-4°F to + 122°F)
Weight	6kg (13.2lbs)	7kg (15.4lbs)	9kg (19.8lbs)	10kg (22lbs)

Technical Specifications - Core Products

Mechanical	WL84	WL84 Emergency	WL168	WL168 Emergency
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)	Silver (RAL 9006) Red (RAL3024) - Emergency battery cover	Silver (RAL 9006)	Silver (RAL 9006) Red (RAL3024) - Emergency battery cover
Installation instructions	Please see document 0920-D-00042 at www.raytecled.com			
Battery Care	Please see document 0010-D-00001 at www.raytecled.com			
Spare Part Information	Please contact Raytec for information and spare part availability.			
Dimensions	See dimensional sketches			
Mounting	Via M8/M6 tapped holes. Various mounting arrangements available (please see product overview guide)			
Sustainability	EPD - EPD no. HUB-3730, verified by EPD Hub TM66 Circularity Score - 2.0			

Intelligent Emergency	WL84 Emergency	WL168 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	

Technical Specifications - SPARTAN Linear Essential

SPARTAN Linear WL84-LL



SPARTAN Linear WL168-LL



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) (T6 variants also available - contact Raytec)
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 #	#25-0220600-PDA

Electrical

	WL84-LL	WL168-LL
Input	Standard: 110-254V 50/60Hz AC/DC* Optional: 110-277 50/60Hz AC/DC Low voltage version 18-48V AC & 18-69V DC	Standard: 110-254V 50/60Hz AC/DC* Optional: 110-277 50/60Hz AC/DC
Power	24W	49W
Termination	Incoming terminal block suitable for looping 4 core 4mm² cable (6mm² available - POA)	
Power Factor	>0.95	
Cable Entries	SPARTAN Linear Essential comes with 2 M20 cable entries at one end of the product, 2 total (Other entries available upon request) Dispatched complete with three ATEX/IEC Ex/UKEX approved blanking plugs	
DALI	Non-Emergency and non Low voltage products are available as DALI 2.0 enabled as an option. In these variants terminals are provided for loop in/loop out 2 core control cable	

* T6 variants are AC only, T6 variants are not compatible with DALI.

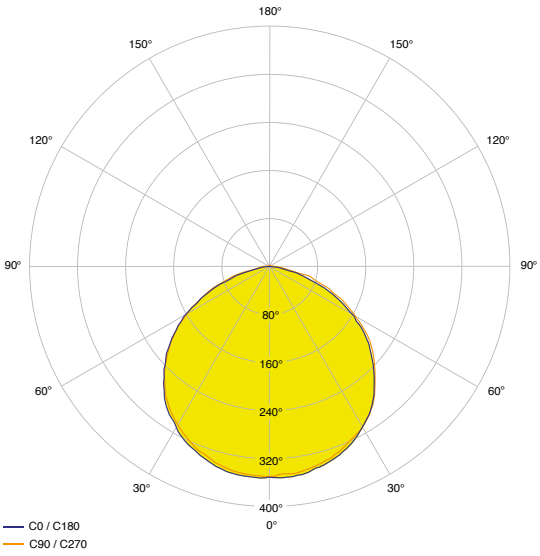
Optical

	WL84-LL	WL168-LL
Lumen output on mains	See Lumen Output by Optic Table below	
LED type	Platinum Elite SMT LEDs	
Number of LEDs	80	160
CRI	80+	
Colour Temperature	6500K standard	

Technical Specifications - SPARTAN Linear Essential

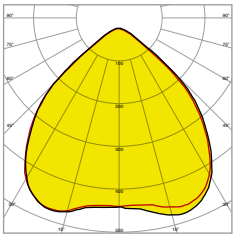
Mechanical	WL84-LL	WL168-LL
Burning Position	Universal	
IP Rating	IP66 & IP67	
IK Rating	IK10	
Temperature Range	-40°C to +60°C (-40°F to + 140°F)	
Weight	6kg (13.2lbs)	9kg (19.8lbs)
Enclosure	Marine grade aluminium epoxy powder coated, UV stabilised polycarbonate, all external fasteners and brackets are marine grade stainless steel	
Unit Colour	Silver (RAL 9006)	
Installation instructions	Please see document 920-D-0042 at www.raytecled.com	
Spare part Information	Please contact Raytec for information and spare part availability.	
Dimensions	See dimensional sketches	
Mounting	Via M8/M6 tapped holes. Various mounting arrangements available (please see product overview guide)	

Light Distribution

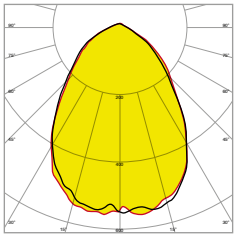


Zone 2 - Standard

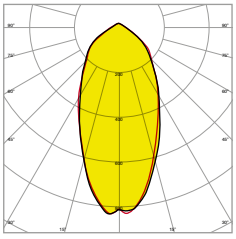
Symmetrical Optics



90x90

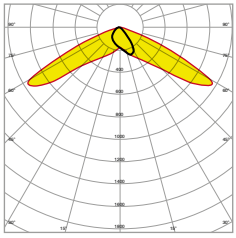


60x60

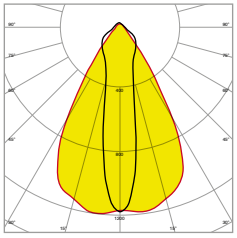


30x30

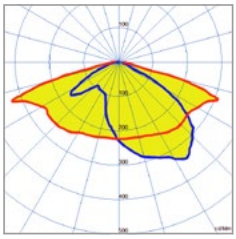
Asymmetrical Optics



Safety Shower - Wide Beam



Aisle - 80x30



PP3 Optic

Lumen Output by Beam Pattern

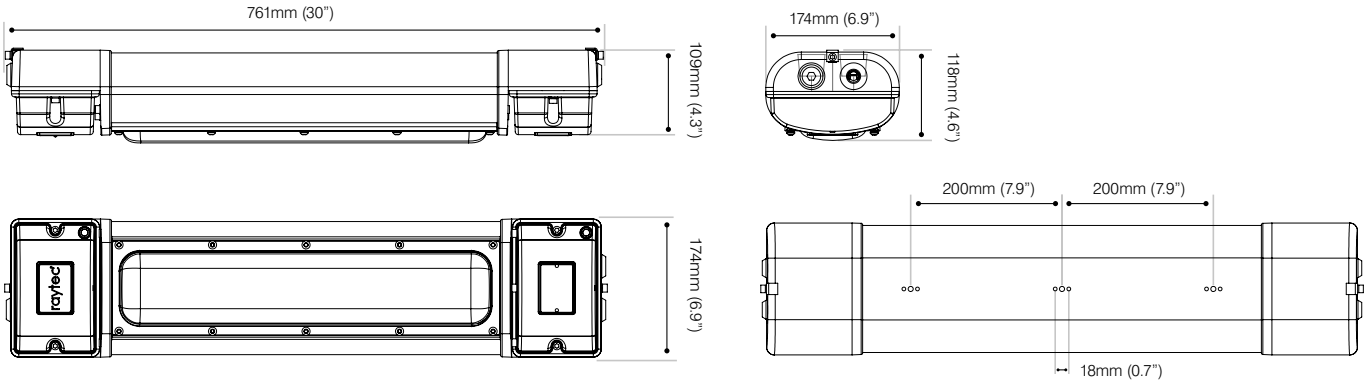
Lumen Output on Mains

Variant	Std	30x30	60x60	80x30	90x90	Diffused	PP3	WB
WL84	3524lm	3443lm	3426lm	3300lm	3431lm	3172lm	3443lm	3426lm
WL168	7048lm	6886lm	6852lm	6600lm	6862lm	6344lm	6886lm	6852lm

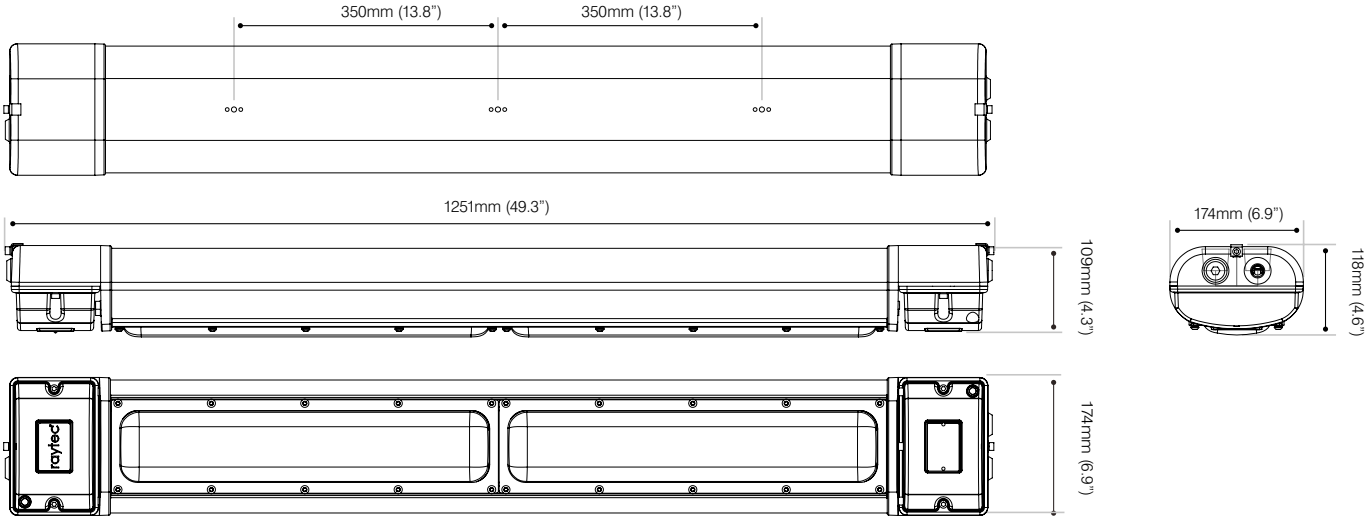
For more information on Lumen Outputs please contact Raytec.
Other beam patterns also available. Please contact Raytec for more information.

Product Dimensions

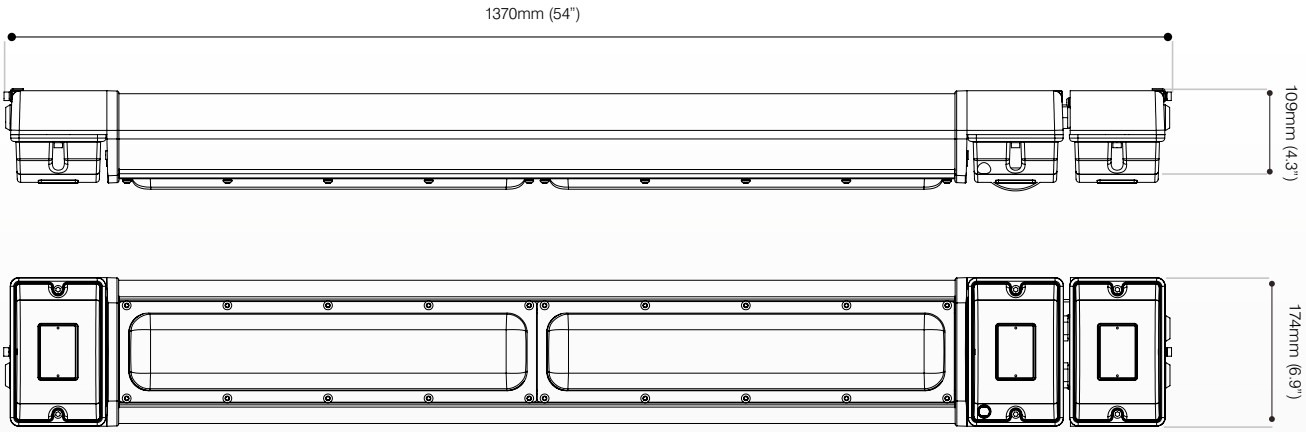
WL84, WL84 Emergency



WL168

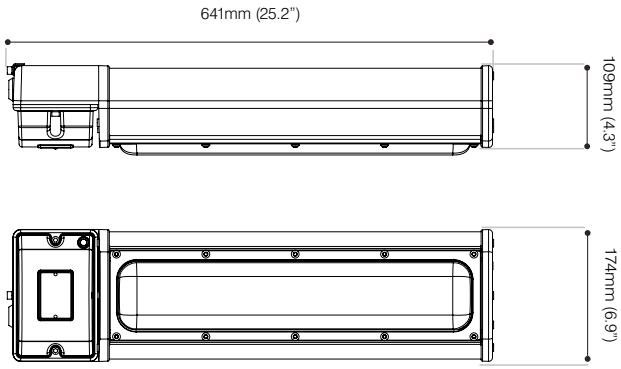


WL168 Emergency

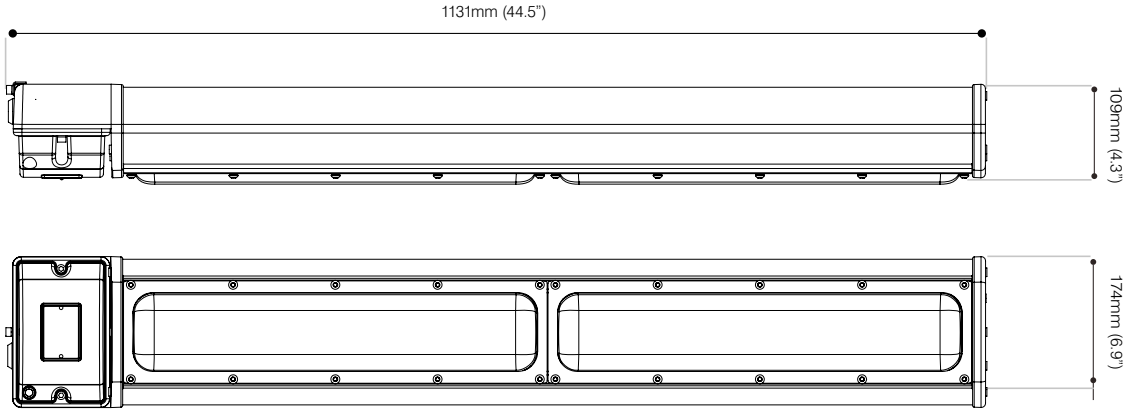


Product Dimensions

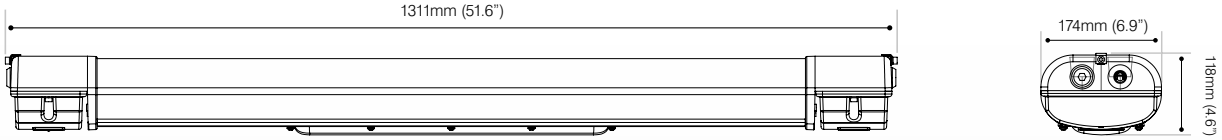
WL84 Essential



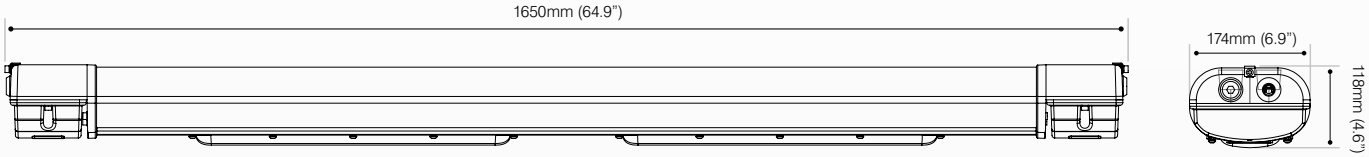
WL168 Essential



WL84 - 1200, WL84 - 1200 Emergency



WL168 - 1500



SPARTAN Linear Models with 200mm mounting points:

WL84 / WL84 Emergency / WL84 Essential

SPARTAN Linear Models with 350mm mounting points:

WL168 / WL168 Emergency / WL168 Essential / WL84-1200 / WL84-1200 Emergency / WL168-1500

Part Code Builder

SPARTAN Linear Zone 2 Family

Standard: Example - SPZ-WL84-EMX25

Family	Model	Emergency/ DALI	Variant	CCT	Optics	Power	Entry
SPZ	WL84	Not Stated - Non EM	T6 - T6 variant	Not Stated - 6500K	Not Stated - Standard	Not Stated - 110-254V	Not Stated - M20
	WL168	EMX25 (25% for 3 hours)	Z21 - Zone 2/21/22 version	4K - 4000K	Other optics available - please contact Raytec	277 - 110-277V	M25
	WL84-1200	DA - DALI				LV - Low Voltage (Non EM only)	
	WL168-1500						

Essential: Example - SPZ-WL84-LL

Family	Model	DALI	Variant	CCT	Optics	Power	Entry
SPZ	WL84-LL	Not Stated - Non DALI	T6 - T6 variant	Not Stated - 6500K	Not Stated - Standard	Not Stated - 110-254V	Not Stated - M20
	WL168-LL	DA - DALI	Z21 - Zone 2/21/22 version	4K - 4000K	Other optics available - please contact Raytec	277 - 110-277V	M25
						LV - Low Voltage (WL84 only)	

*T6 variants are AC only, T6 variants are not compatible with DALI.
*Alternative versions available. Please contact Raytec for details.

SPARTAN Linear Specials



Safety Shower Variants

- Green LED technology designed for use where safety shower units are located.
- Dominant wavelength: 519nm
- Dedicated safety shower optic for maximum visibility

Example ordering code: SPX-WL168-G
Other options available, contact Raytec for full ordering information.



Wildlife-Friendly Variants

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

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



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

Disclaimer

The information provided in this document was accurate at the time of its creation. However, due to the evolving nature of our products and continuous improvements, there may be changes or updates that occur after its publication. For the most current and detailed information about our products, please contact our sales team at sales@raytecled.com.