

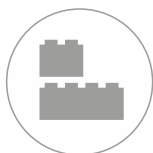
WARRIOR LED

Heavy Industrial SPI Linear Luminaire

rayTEC



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 fluorescent 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**

Technical Specifications - Core Products

WARRIOR Linear WL84



WARRIOR Linear WL168



Electrical	WL84	WL84 Emergency	WL168	WL168 Emergency
Input	Standard: 110-254V 50/60Hz AC/DC* Optional: 110-277V 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 4mm ² cable (6mm ² available - POA)			
Power Factor	>0.95			
Cable Entries	WARRIOR Linear comes with 2 M20 cable entries at each end of the product, 4 total (Other entries available upon request) Dispatched complete with three 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 variant is 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)
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 number - 0920-D-00052 at rayteclcd.com			
Battery Care	Please see document 0010-D-00001 at www.rayteclcd.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			

Technical Specifications - Core Products

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	
Emergency Battery	NiCd 12V	
Emergency Charge Time	20 hours	

Technical Specifications - WARRIOR Linear Essential

WARRIOR Linear WL84-LL



WARRIOR Linear WL168-LL



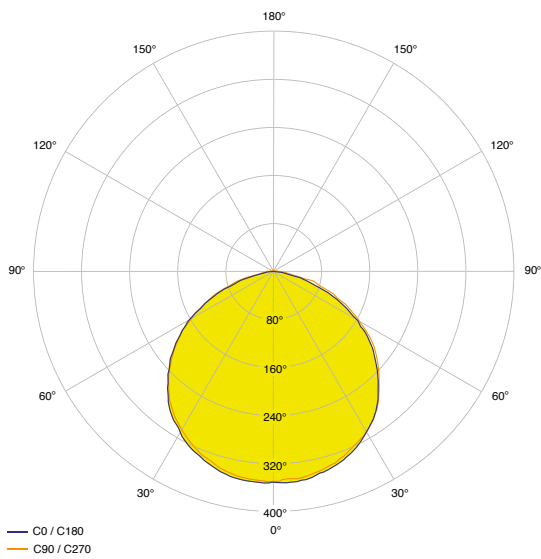
Electrical	WL84-LL	WL168-LL
Input	Standard: 110-254V 50/60Hz AC/DC* Optional: 110-277 50/60Hz AC/DC Low voltage version 18-48V AC & 18-69V DC	Standard: 110-254V 50/60Hz AC/DC* Optional: 110-277 50/60Hz AC/DC
Power	24W	49W
Termination	Incoming terminal block suitable for looping 4 core 4mm ² cable (6mm ² available - POA)	
Power Factor	>0.95	
Cable Entries	WARRIOR 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 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 variant is 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	

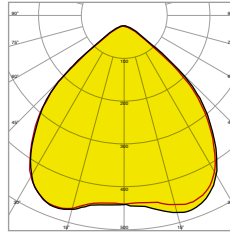
Mechanical	WL84-LL	WL168-LL
Burning Position	Universal	
IP Rating	IP66 & IP67	
IK Rating	IK10	
Temperature Range	-40°C to +60°C (-40°F to + 140°F)	
Weight	6kg (13.2lbs)	9kg (19.8lbs)
Enclosure	Marine grade aluminium epoxy powder coated, UV stabilised polycarbonate, all external fasteners and brackets are marine grade stainless steel	
Unit Colour	Silver (RAL 9006)	
Installation instructions	Please see document number - 0920-D-00052 at rayteclcd.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

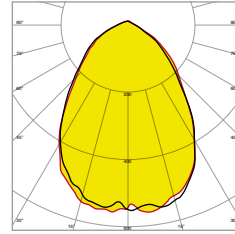


Zone 2 - Standard

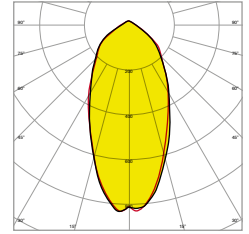
Symmetrical Optics



90x90

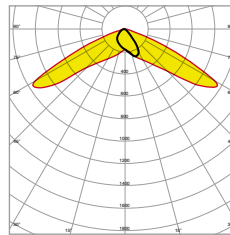


60x60

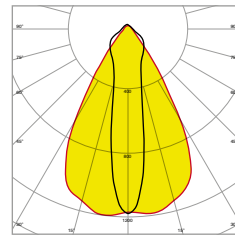


30x30

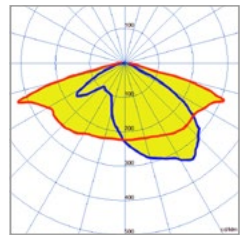
Asymmetrical Optics



Safety Shower -
Wide Beam



Aisle -
80x30



PP3
Optic

Lumen Output by Beam Pattern

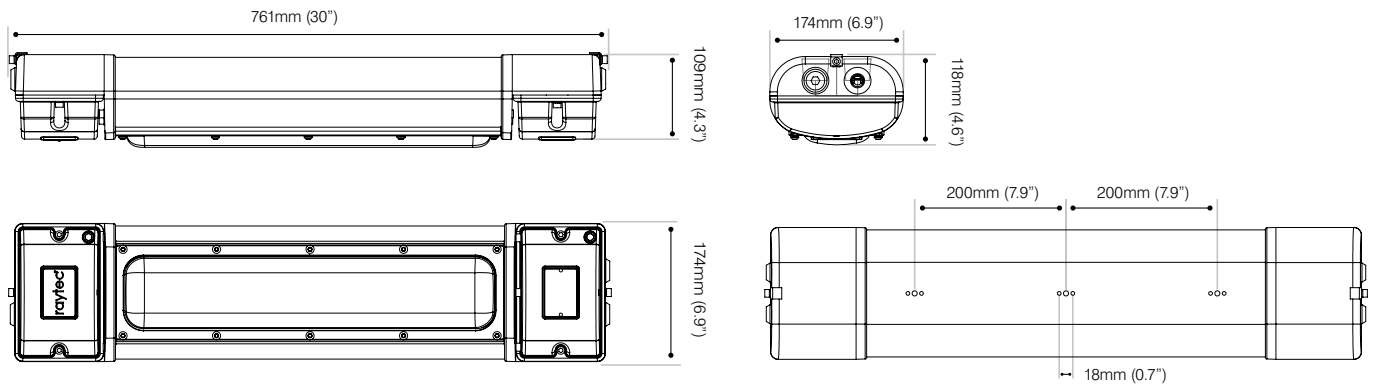
Lumen Output on Mains

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

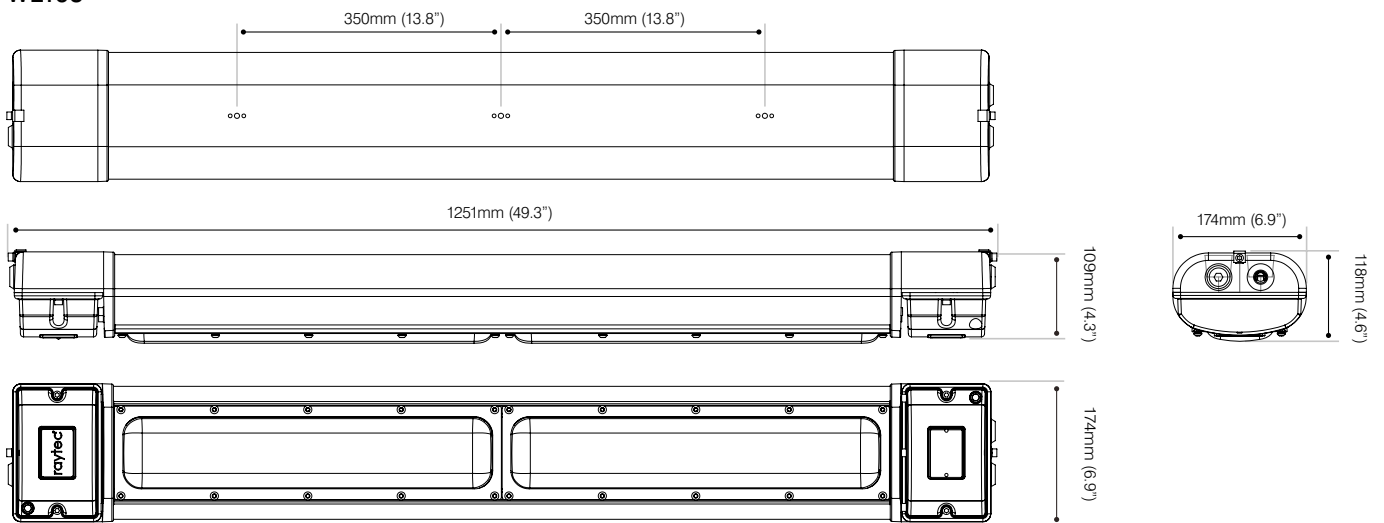
For more information on Lumen Outputs please contact Raytec.
Other beam patterns also available. Please contact Raytec for more information.

Product Dimensions

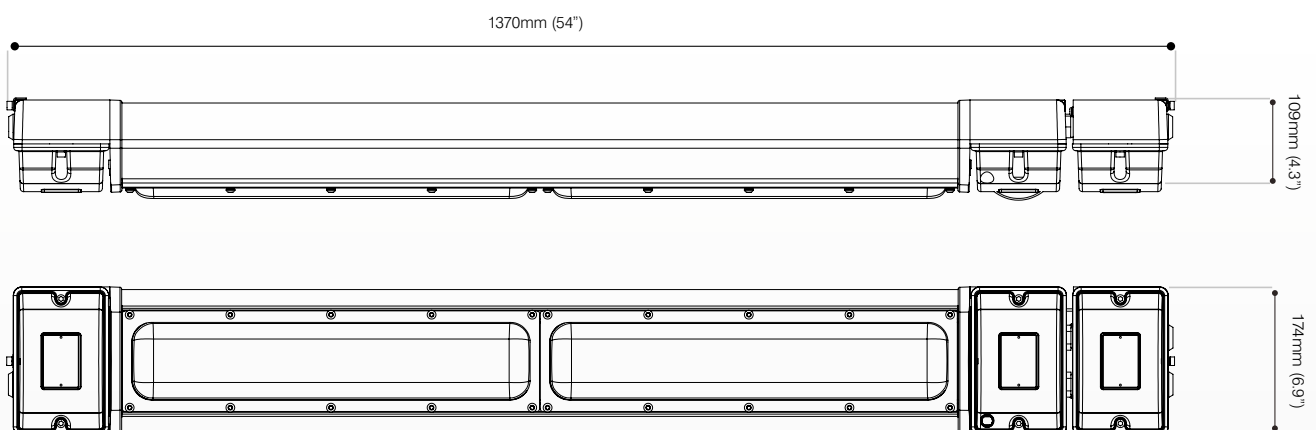
WL84, WL84 Emergency



WL168

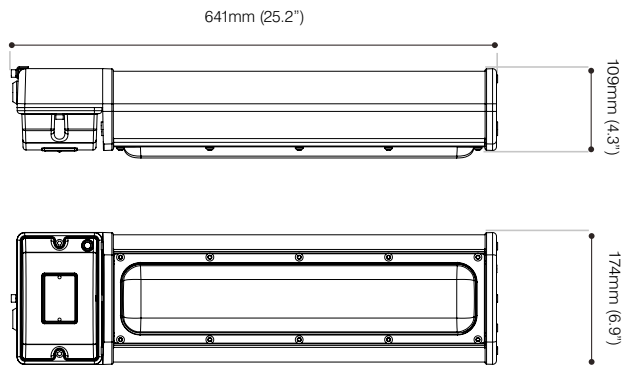


WL168 Emergency

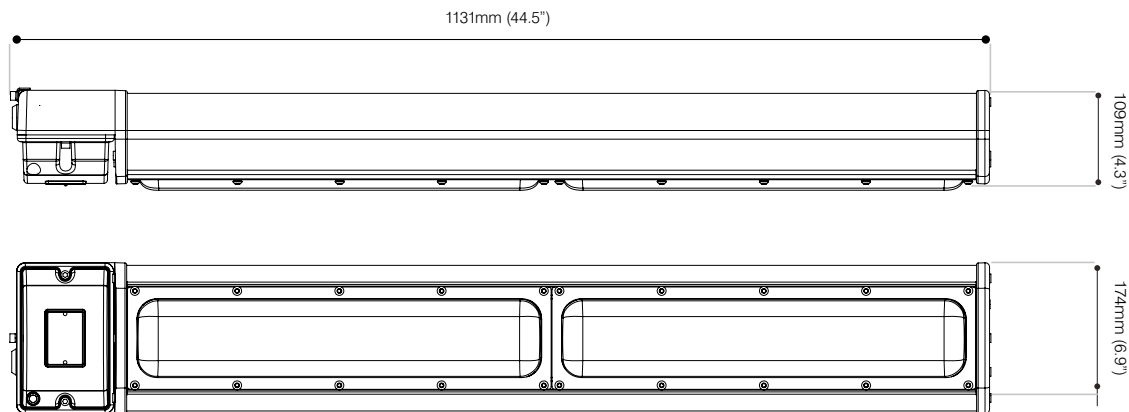


Product Dimensions

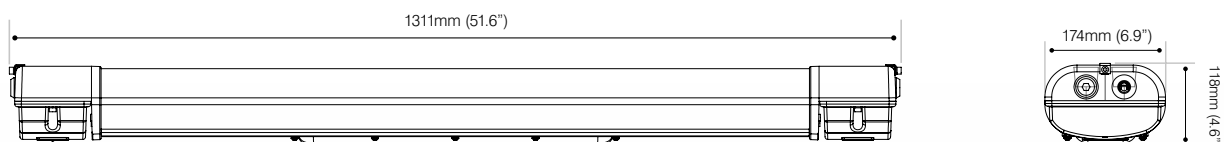
WL84 Essential



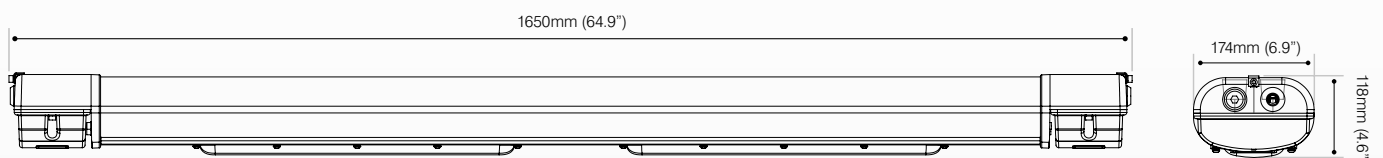
WL168 Essential



WL84 - 1200, WL84 - 1200 Emergency



WL168 - 1500



WARRIOR Linear Models with 200mm mounting points:

WL84 / WL84 Emergency / WL84 Essential

WARRIOR Linear Models with 350mm mounting points:

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

Part Code Builder

WARRIOR Linear Family

Standard: Example - SPI-WL84-EMX25

Family	Model	Emergency/DALI	CCT	Optics	Power	Entry
SPI	WL84	Not Stated - Non EM	Not Stated - 6500K	Not Stated - Standard	Not Stated - 110-254V	Not Stated - M20
	WL168	EMX25 (25% for 3 hours)	4K - 4000K	Other optics available - please contact Raytec	LV - Low Voltage (Non EM only)	M25
	WL84-1200	DA - DALI			277 - 50/60hz	
	WL168-1500					

Essential: Example - SPI-WL84-LL

Family	Model	DALI	CCT	Optics	Power	Entry
SPI	WL84-LL	Not Stated - Non DALI	Not Stated - 6500K	Not Stated - Standard	Not Stated - 110-254V	Not Stated - M20
	WL168-LL	DA - DALI	4K - 4000K	Other optics available - please contact Raytec	LV - Low Voltage (WL84 only)	M25
					277 - 50/60hz	

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WARRIOR 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: SPI-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 nature reserves.
- Dominant wavelength: 600nm

Example ordering code: SPI-WL168-4K-A

Other options available, contact Raytec for full ordering information



See WARRIOR 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@rayteclcd.com.