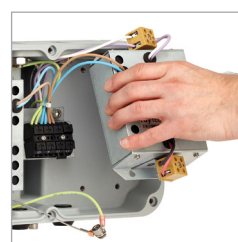


SPARTAN LED

Zone 1/21 SPX Infra-Red Floodlight



rayTEC[®]



Robust and Durable

Designed from marine grade aluminium and able to withstand the most extreme environments.



Emergency

Available as an emergency variant, and capable of providing up to 100% light output in emergency mode.



Easy Maintenance

Featuring a unique modular design, key components such as the LED and PSU modules are easily accessible for straightforward maintenance and inspection.



Outstanding Distances

The high-power LEDs deliver up to 459m (1,505ft) of Infra-Red illumination, designed to enhance the performance of any video surveillance system at night.

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 and IEC Ex rated for Gas and Dust
Hazardous Area Rating	Zone 1 – Gas and Dust
Certificates	CML13ATEX3007, IEC Ex CML 14.0001 & CML 21UKEX3099
Gas	II 2 G D Ex eb mb IIC T4 Gb Ta= Up to -52°C to +55°C (all emergency variants have a lower ambient of -20°C only)
Dust	Ex tb IIIC T82°C Db Ta= Up to -52°C to +55°C IP66/IP67
ABS Certificate #	ABS Certificate # 23-2432337-PDA

Electrical

	FL24	FL24-EM	FL48	FL48-EM
Input	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC	110-254V 50/60Hz AC only	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC	110-254V 50/60Hz AC only
Power	68W	71W	136W	139W
Termination	Incoming terminal block suitable for looping 4 core 4mm ² cable (6mm ² available - POA)			
Power Factor	>0.95			
Cable Entries	2xM20 as standard (other entries available upon request), dispatched complete with one ATEX/IEC Ex approved blanking plug			

Optical

	FL24	FL24-EM	FL48	FL48-EM
Beam Patterns - Circular	10°x 10° or 30°x 30° or 50°x 50° or 120°x 120° (10°x 10° option can be upgraded to Vario Technology)			
Beam Patterns - Elliptical	35°x 10° or 60°x 25° or 80°x 30° or 120°x 50° (VARIO)			
LED type	Platinum Elite SMT LEDs			
Number of LEDs	24			48
Wavelength	850nm			

Mechanical

	FL24	FL24-EM	FL48	FL48-EM
Burning Position	Universal			
IP Rating	IP66/IP67			
Temperature Range	- 52°C to +55°C (-61°F to +131°F)	- 20°C to +55°C (- 4°F to +131°F)	- 52°C to +55°C (-61°F to +131°F)	- 20°C to +55°C (- 4°F to +131°F)
Weight	8kg (17.6lbs)	10kg (22lbs)	16kg (35.3lbs)	20kg (44lbs)
Enclosure	Marine grade aluminium epoxy powder coated, toughened glass, all external fasteners and brackets are marine grade stainless steel			
Unit Colour	Silver (RAL 9006)	Silver (RAL 9006) Red (RAL3024) - Emergency Cover	Silver (RAL 9006)	Silver (RAL 9006) Red (RAL3024) - Emergency Cover
Installation instructions	Please see document 0910-M-0094 at www.raytecltd.com			
Battery care instructions	Please see document 0010-D-00001 at www.raytecltd.com			
Dimensions	291 x 312 x 150mm (11.5 x 12.3 x 6")	291 x 312 x 215mm (11.5 x 12.3 x 8.5")	291 x 502 x 158mm (11.5 x 19.8 x 6.2")	291 x 502 x 219mm (11.5 x 19.8 x 8.6")
Mounting	U bracket (as shown on next page).			

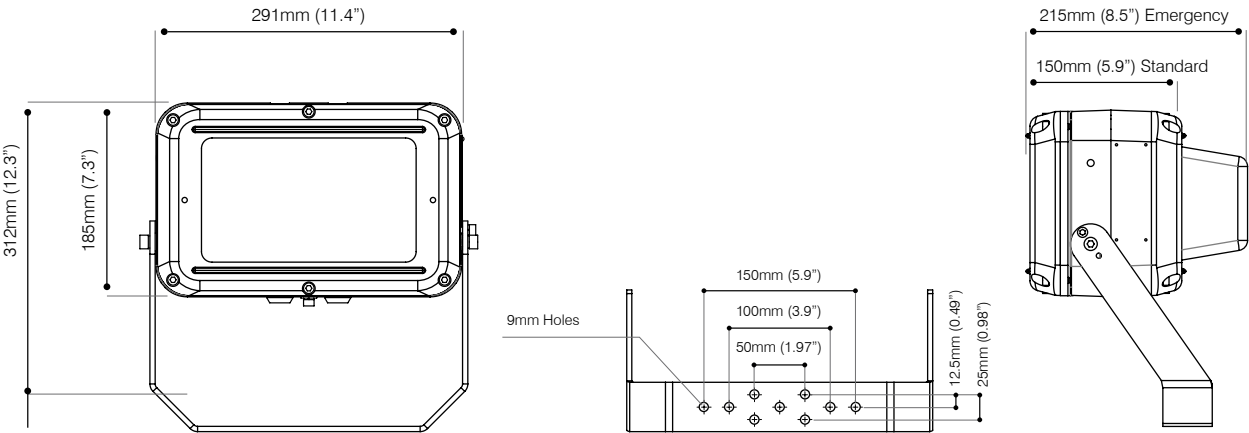
Technical Specifications - Continued

Intelligent Emergency	FL24-EM	FL48-EM
Emergency Duration	90mins at 50% power Other options available	90mins at 25% power Other options available
Emergency Battery	Ni/Cd 12V 4.5Ah	
Emergency Charge Time	20 hours	

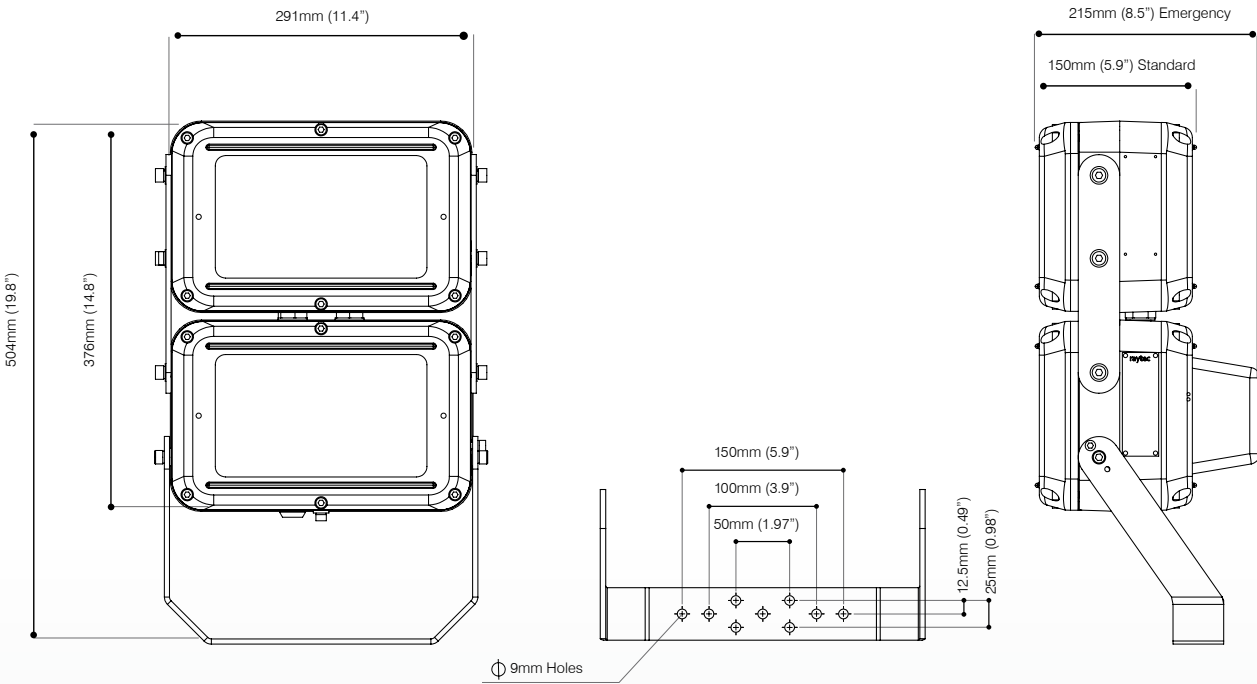
Part Codes	Circular Beam Patterns	Distances
FL48	SPARTAN Flood, 48 LED, Infra-Red, 10°x 10° beam	459m (1506ft) at 10°
	SPARTAN Flood, 48 LED, Infra-Red, 30°x 30° beam	180m (591ft) at 30°
	SPARTAN Flood, 48 LED, Infra-Red, 50°x 50° beam	160m (525ft) at 50°
	SPARTAN Flood, 48 LED, Infra-Red, 120°x 120° beam	50m (165ft) at 120°
FL24	SPARTAN Flood, 24 LED, Infra-Red, 10°x 10° beam	325m (1066ft) at 10°
	SPARTAN Flood, 24 LED, Infra-Red, 30°x 30° beam	130m (427ft) at 30°
	SPARTAN Flood, 24 LED, Infra-Red, 50°x 50° beam	110m (361ft) at 50°
	SPARTAN Flood, 24 LED, Infra-Red, 120°x 120° beam	30m (99ft) at 120°
	Elliptical Beam Patterns	Distances
FL48	SPARTAN Flood, 48 LED, Infra-Red, 35°x 10° beam	224m (735ft) at 10°
	SPARTAN Flood, 48 LED, Infra-Red, 60°x 25° beam	160m (525ft) at 30°
	SPARTAN Flood, 48 LED, Infra-Red, 80°x 30° beam	103m (338ft) at 50°
	SPARTAN Flood, 48 LED, Infra-Red 120°x 50° beam	30m (227ft) at 120°
FL24	SPARTAN Flood, 24 LED, Infra-Red, 35°x 10° beam	158m (519ft) at 10°
	SPARTAN Flood, 24 LED, Infra-Red, 60°x 25° beam	113m (371ft) at 30°
	SPARTAN Flood, 24 LED, Infra-Red, 80°x 30° beam	73m (240ft) at 50°
	SPARTAN Flood, 24 LED, Infra-Red, 120°x 50° beam	49m (161ft) at 120°

Product Dimensions

FL24

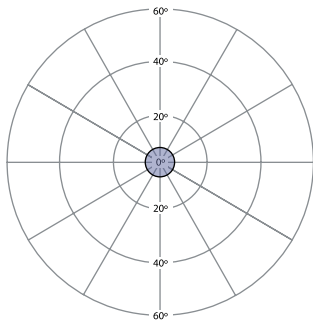


FL48

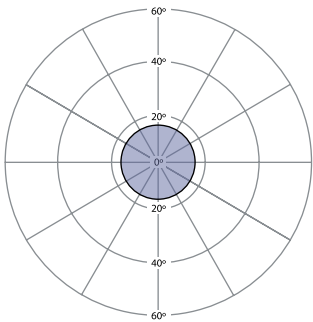


Beam patterns - Circular

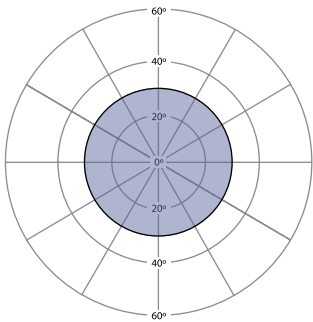
10° x 10°



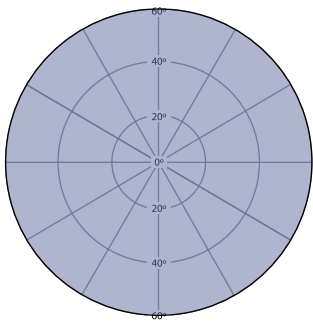
30° x 30°



50° x 50°

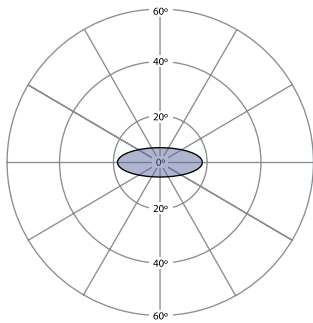


120° x 120°

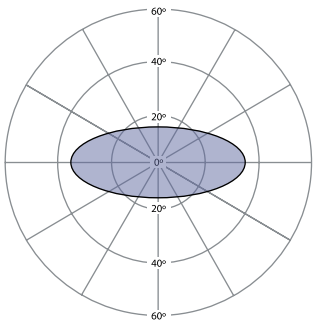


Beam patterns – Elliptical (VARIO)

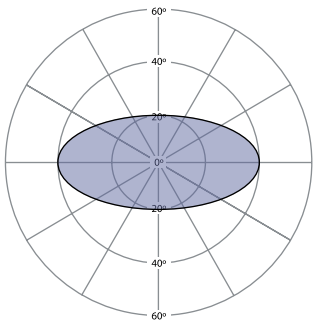
35° x 10°



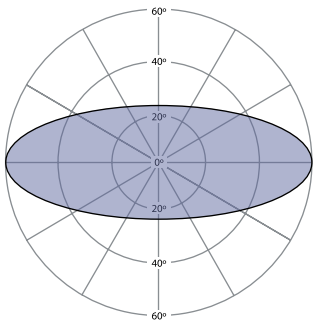
60° x 25°



80° x 30°



120° x 50°



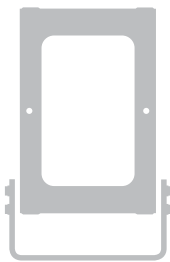
Part Code Builder

Zone 1

Example - SPX-FL24-I-1010-EM25

Family	Model	Light Type	Optic	Emergency	Power	Entry
SPX	FL24	I - Infrared	1010	Not Stated - Non Em	Not Stated - Standard Mains	Not Stated - M20
	FL48		3030	EM25 (FL48)	LV - Low Voltage (Non EM only)	M25
			5050	EM50 (FL24)		
			120120			
			3510			
			6025			
			8030			
			12050			

Products in the SPARTAN Family



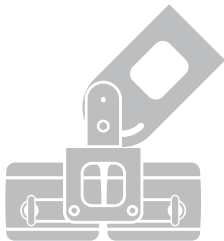
SPARTAN Flood



SPARTAN Linear



SPARTAN Bulkhead



SPARTAN Crane

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@raytecltd.com.