SPARTAN LED
Zone 2/22 SPZ Mid Power Floodlight











Power / Performance

High lumen output up to 20,000 lumens, designed to directly replace traditional discharge light sources up to 250W SON.

Robust and Durable

Robust and durable construction from marine grade aluminium and with a wide operating temperature for even the most challenging conditions.

Intelligent Emergency

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

Multiple Beam Angles

Available with a range of beam patterns to effectively light up large open areas. The use of secondary optics means no loss of output on wider angles.

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

Certification

Hazardous Area Rating	ATEX, UKEX and IEC Ex rated for Gas and Dust
Certificates	CML21ATEX3320 & IEC Ex CML21.0038 or CML21UKEX3321
Gas	II 3 G D Ex ec mc IIC T4 Gc Ta= -40°C to+60°C (-20°C to +50°C emergency variants)
Dust	Ex tc IIIC T93°C Dc Ta= -40°C to+60°C (-20°C to +50°C emergency variants)
ABS Certificate	#25-0220600-PDA

Electrical

	5K	7.5K	10K	12.5K	15K
Input	110-277V 50/60Hz AC only				
Power	50W	60W	80W	100W	120W
Termination	Incoming terminal block suitable for looping 4 core 4mm² cable				
Power Factor	>0.95				
Cable Entries	2xM20 as standard (other entries available upon request), dispatched complete with one ATEX/IEC Ex/UKEX approved blanking plug				

Optical

	5K	7.5K	10K	12.5K	15K
Beam Patterns	See light distribution graphs below				
Lumen Output On Mains	See Lumen Output by Optic Table below				
LED Type	Platinum Elite SMT LEDs				
Number of LEDs	192				
CRI	80+				
Colour Temperature	6,500K				

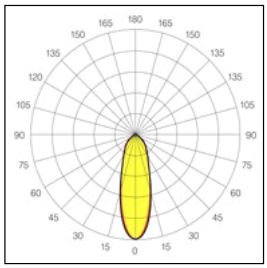
Mechanical

	5K	7.5K	10K	12.5K	15K
Burning Position	Universal				
IP Rating	IP66 & IP67				
Temperature Range	-40°C to +60°C (-40°F to +140°F) -20°C to +50°C for emergency variants (-4°F to +122°F)				
Weight	13.2kg (29.1lbs) 16kg (35.2lbs) for emergency variant				
Enclosure	Marine grade aluminium epoxy powder coated, toughened glass, all external fasteners and brackets are marine grade stainless steel				
Unit Colour	Silver (RAL 9006)				
Installation Instructions	Please see document 1250-D-00005 at www.raytecled.com				
Spare Part Availability	For information on spare part availability please contact Raytec.				
Battery Care	Please see document 0010-D-00001 at www.raytecled.com				
Dimensions	See dimension sketches				
Mounting	Stirrup bracket (see dimension sketches)				

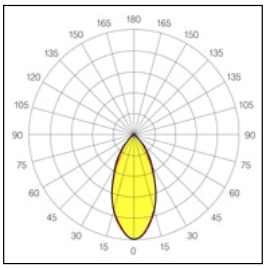
Technical Specifications - Emergency

Intelligent Emergency	
Function	Self testing Intelligent Emergency
System Health Indicator	Bi Colour Indicator LED
Emergency Duration	180 or 90 mins depending on variant Other options available
Emergency Output (upto)	See Lumen Output by Beam Pattern table below
Emergency Battery	NiMH 12V 6.0Ah
Emergency Charge Time	20 Hours

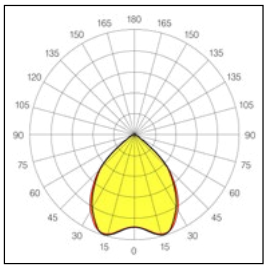
Symmetrical Beam Patterns



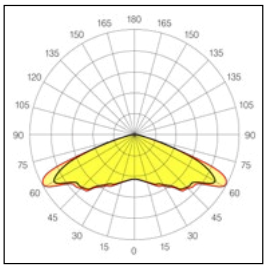
30x30



60x60

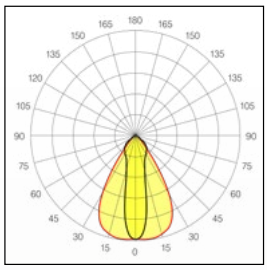


90x90

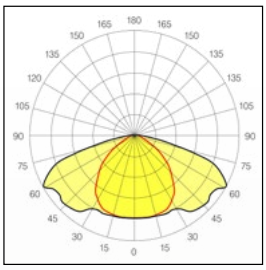


140x140

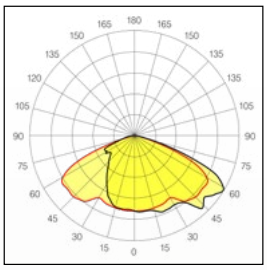
Asymmetrical Beam Patterns



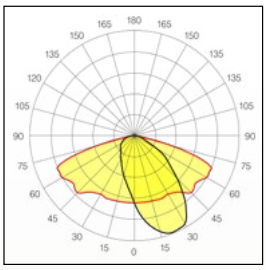
80x30



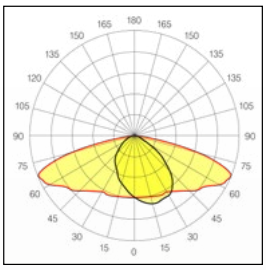
120x50



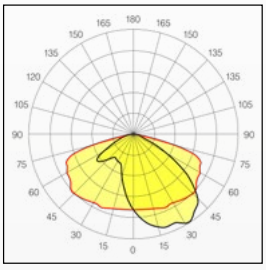
AR1



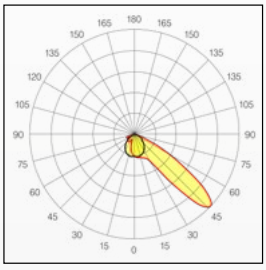
PP1



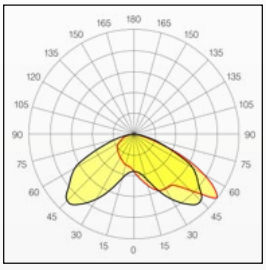
PP2



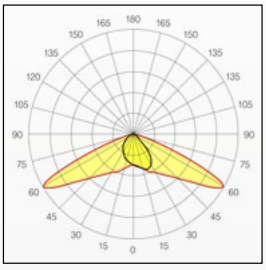
PP3



FN



FW



WB

Lumen Output by Beam Pattern

Lumen Output on Mains

Variant	30x30	60x60	90x90	120x50	140x140	AR1	PP1	PP2	PP3	80x30	FN*	FW*	WB
MPFL 5K	7608lm	8329lm	8225lm	7178lm	7309lm	7108lm	7613lm	7360lm	7353lm	7998lm	7842lm	6329lm	7563lm
MPFL 7K5	9134lm	9999lm	9874lm	8618lm	8775lm	8534lm	9140lm	8836lm	8827lm	9602lm	9414lm	7598lm	9079lm
MPFL 10K	12166lm	13319lm	13152lm	11479lm	11688lm	11367lm	12174lm	11770lm	11758lm	12790lm	12540lm	10121lm	12094lm
MPFL 12K5	15208lm	16649lm	16440lm	14349lm	14610lm	14209lm	15218lm	14712lm	12698lm	15987lm	15675lm	12651lm	15117lm
MPFL 15K	18268lm	19999lm	19748lm	17236lm	17550lm	17068lm	18280lm	17672lm	17655lm	19204lm	18829lm	15196lm	18159lm

Lumen Output on Emergency

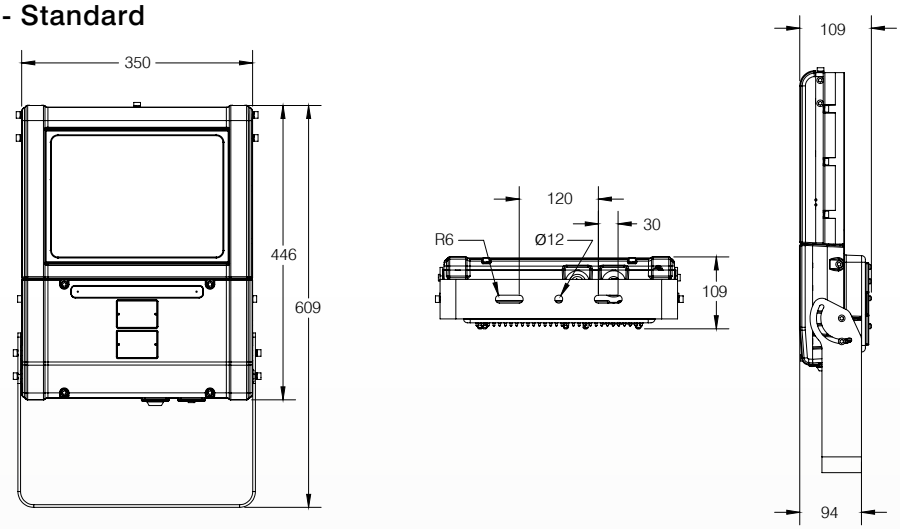
Variant	30x30	60x60	90x90	120x50	140x140	AR1	PP1	PP2	PP3	80x30	FN*	FW*	WB
EMX90 (90mins duration)	4567lm	5000lm	4937lm	4309lm	4388lm	4267lm	4570lm	4418lm	4414lm	4801lm	4707lm	3799lm	4540lm
EMX180 (180mins duration)	2284lm	2500lm	2469lm	2155lm	2194lm	2134lm	2285lm	2209lm	2207lm	2401lm	2354lm	1900lm	2270lm

*FN and FW optic variants use 24 or 48 LED light engines.
For more information on Mid Power Lumen Ouputs please contact Raytec.

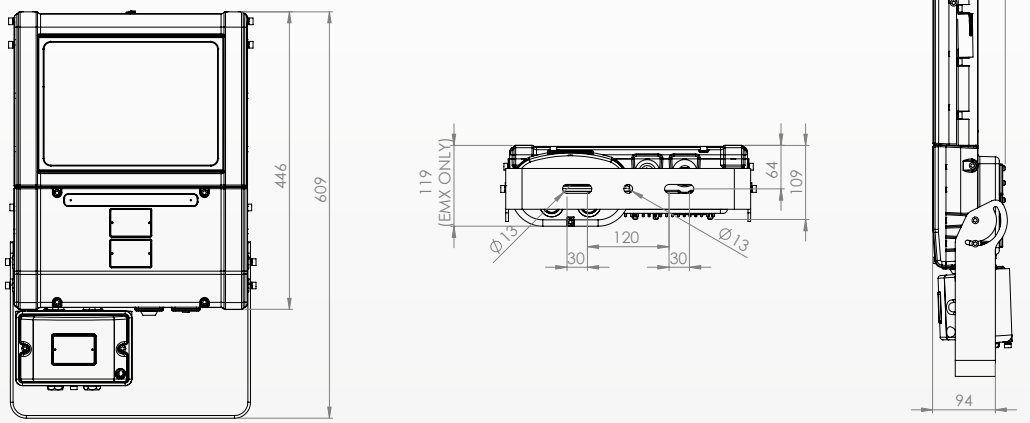
Other beam patterns also available. Please contact Raytec for more information

Product Dimensions

MPFL - Standard



MPFL - Emergency



Part Code Builder

SPARTAN Mid Power Flood

Example - SPZ-MPFL15K-W-9090-EMX90						
Family	Model	Light Type	Optics	Emergency	CCT	Entry
SPZ	MPFL5K	W- White Light	3030	EMX90 (90 minute duration)	Not Stated - 6500K	Not Stated - M20
	MPFL7K5		6060	EMX180 (180 minute duration)	4K - 4000K	M25
	MPFL10K		9090			
	MPFL15K		12050			
			140140			
			AR1			
			PP1			
			PP2			
			PP3			
			8030			
			FN			
			FW			
			WB			

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.