SPARTAN LED
Zone 1/21 SPX Mid Power Bay Light











Power / Performance

High lumen output up to 15,000 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	
ATEX Rating	ATEX, UKEX and IEC Ex rated for Gas and Dust
Certificates	CML21ATEX3317 & IEC Ex CML21.0037 or CML21UKEX3319
Gas	II 2 G D Ex eb mb IIC T4 Gb Ta= -40°C to +60°C (-20°C to +50°C emergency variants)
Dust	Ex tb IIIC T90°C Db 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				

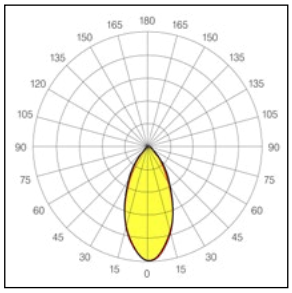
Optical	5K	7.5K	10K	12.5K	15K
Beam Patterns	See light distribution graphs below				
Lumen Output on Mains	See Lumen Output by Optic Table below				
LED Type	Platinum Elite SMT LEDs				
Number of LEDs	192				
CRI	80+				
Colour Temperature	6,500K				

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 drawings				
Mounting	Supplied with x4 corner brackets (see dimension drawings)				

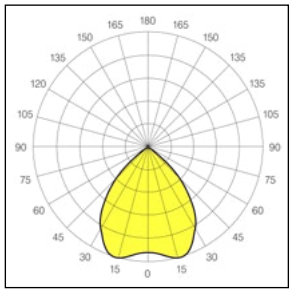
Technical Specifications - Emergency

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 (up to)	See Lumen Output by Beam Pattern table below
Emergency Battery	NiMH 12V 6.0Ah
Emergency Charge Time	20 Hours

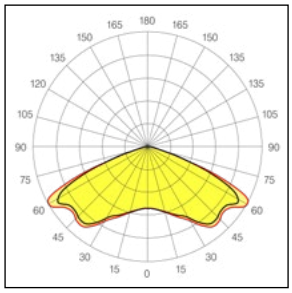
Symmetrical Beam Patterns



60x60

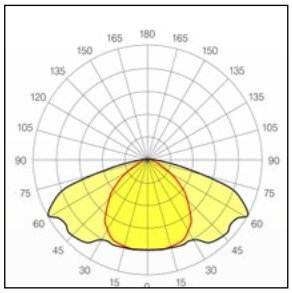


90x90

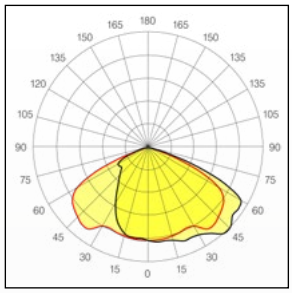


140x140

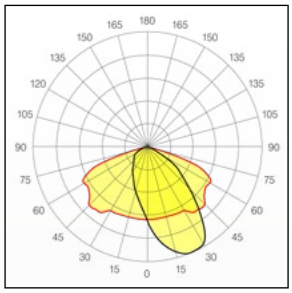
Asymmetrical Beam Patterns



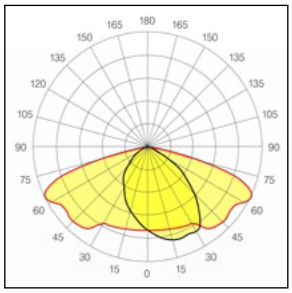
120x50



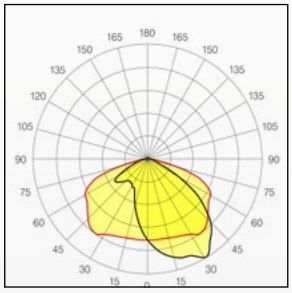
AR1



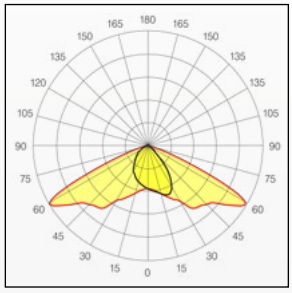
PP1



PP2



PP3



WB

Lumen Output by Beam Pattern

Lumen Output on Mains

Variants		60x60	90x90	120x50	140x140	AR1	PP1	PP2	PP3	WB
MPBY 5K	(up to)	7471lm	7390lm	5542lm	5442lm	5491lm	5965lm	5622lm	5948lm	6328lm
MPBY 7K5	(up to)	8969lm	8872lm	6654lm	6534lm	6592lm	7161lm	6749lm	7141lm	7597lm
MPBY 10K	(up to)	11947lm	11818lm	8862lm	8703lm	8780lm	8703lm	8990lm	9512lm	10119lm
MPBY 12K5	(up to)	14993lm	14772lm	11078lm	10878lm	10975lm	11923lm	11237lm	11890lm	12469lm
MPBY 15K	(up to)	17938lm	17744lm	13307lm	13067lm	13183lm	14322lm	13498lm	14282lm	15194lm

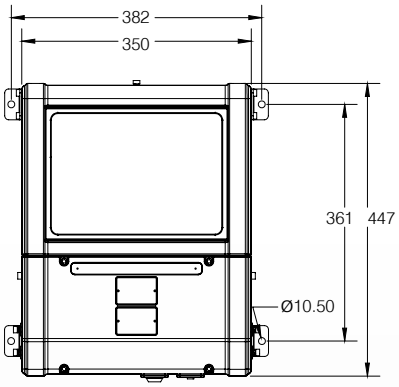
Lumen Output on Emergency

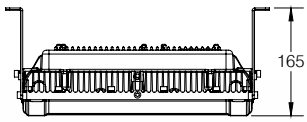
Variants	60x60	90x90	120x50	140x140	AR1	PP1	PP2	PP3	WB
EMX90 (90mins duration)	4485lm	4436lm	3327lm	3267lm	3296lm	3581lm	3375lm	3571lm	3799lm
EMX180 (180mins duration)	2242lm	2218lm	1663lm	1633lm	1648lm	1790lm	1687lm	1785lm	1899lm

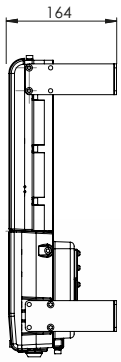
For more information on Mid Power Lumen Ouputs please contact Raytec.
Other beam patterns also available. Please contact Raytec for more information

Product Dimensions

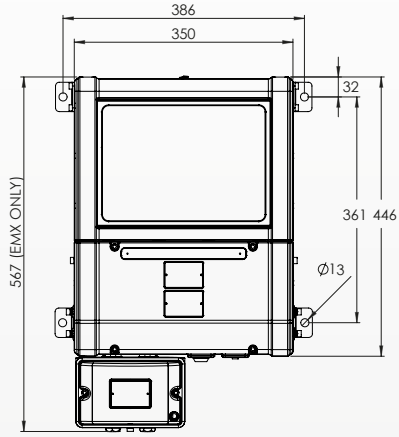
MPBY - Standard

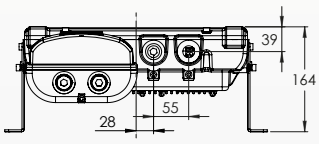


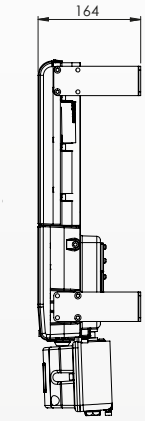




MPBY - Emergency







Part Code Builder

SPARTAN Mid Power Bay

Example - SPX-MPBY15K-W-9090-EMX90						
Family	Model	Light Type	Optics	Emergency	CCT	Entry
SPX	MPBY5K	W- White Light	6060	EMX90 (90 minute duration)	Not Stated - 6500K	Not Stated - M20
	MPBY7K5		9090	EMX180 (180 minute duration)	4K - 4000K	M25
	MPBY10K		140140			
	MPBY12K5		12050			
	MPBY15K		AR1			
			PP1			
			PP2			
			PP3			
			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.