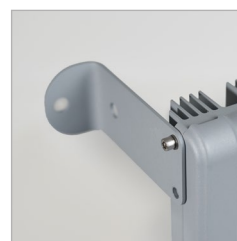


SPARTAN LED

Zone 2/22 SPZ Mid Power Bay Light



rayTEC



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.



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 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 T90°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	40W	60W	80W	100W	120W
Termination	Incoming terminal block suitable for looping 4 core 4mm ² 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

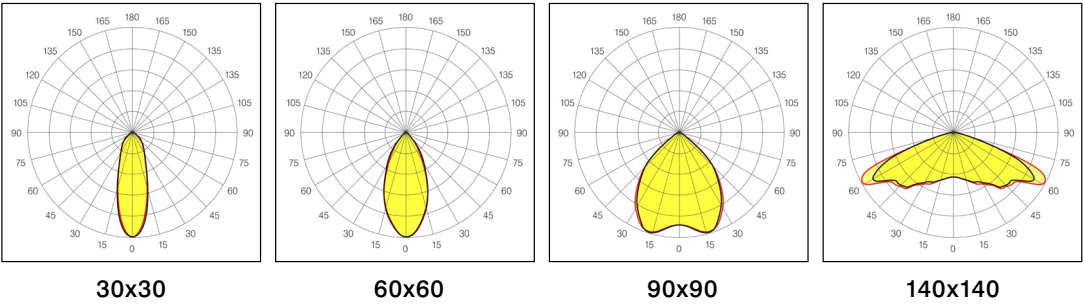
	5K	7.5K	10K	12.5K	15K
Burning Position	Universal				
IP Rating	IP66 & IP67				
Temperature Range	-40°C to +60°C (-40°F to +140°F) -20°C to +50°C for emergency variants (-4°F to +122°F)				
Weight	13.2kg (29.1lbs) 16kg (35.2lbs) for emergency variant				
Enclosure	Marine grade aluminium epoxy powder coated, 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.rayteclcd.com				
Spare Part Availability:	For information on spare part availability please contact Raytec.				
Battery Care	Please see document 0010-D-00001 at www.rayteclcd.com				
Dimensions	See dimension drawings				
Mounting	Supplied with x4 corner brackets (see dimension drawings)				



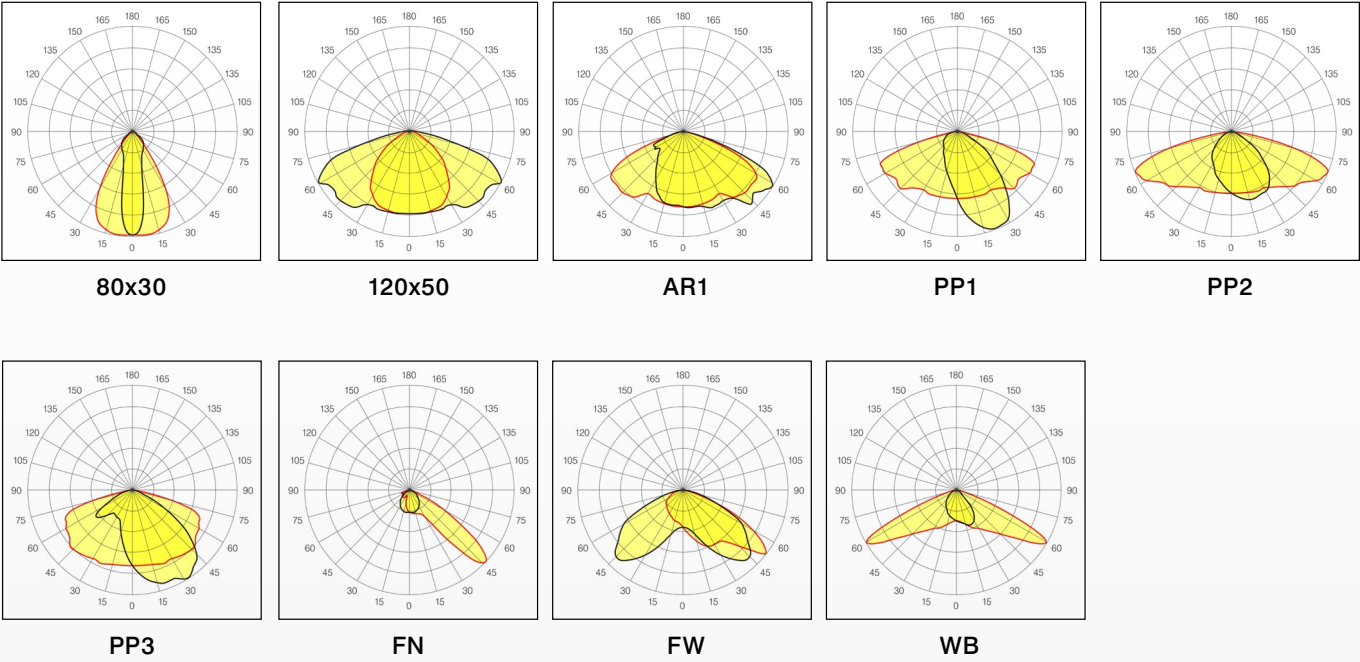
Technical Specifications - Emergency

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



Asymmetrical Beam Patterns



Lumen Output by Beam Pattern

Lumen Output on Mains

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

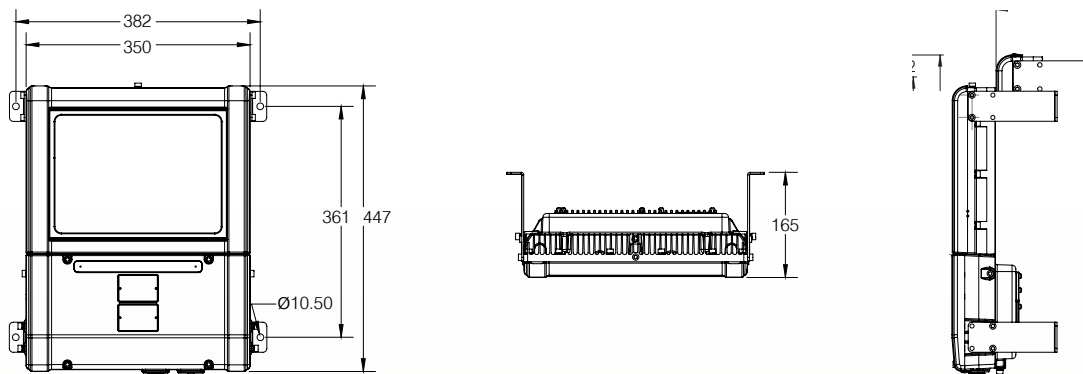
*FN and FW optic variants use 24 or 48 LED light engines.

For more information on Mid Power Lumen Outputs please contact Raytec.

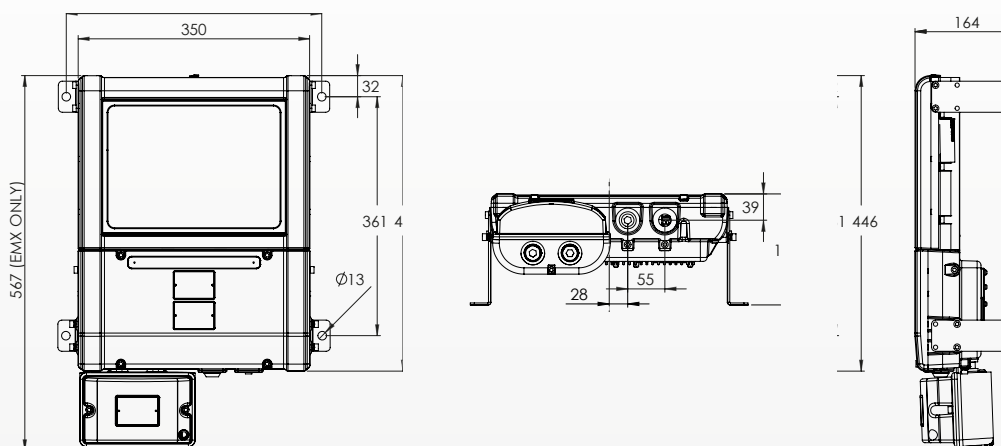
Other beam patterns also available. Please contact Raytec for more information

Product Dimensions

MPBY - Standard



MPBY - Emergency



Part Code Builder

SPARTAN Mid Power Bay

Example - SPZ-MPBY15K-W-9090-EMX90

Family	Model	Light Type	Optics	Emergency	CCT	Entry
SPZ	MPBY5K	W- White Light	3030	EMX90 (90 minute duration)	Not Stated - 6500K	Not Stated - M20
	MPBY7K5		6060	EMX180 (180 minute duration)	4K - 4000K	M25
	MPBY10K		9090			
	MPBY15K		12050			
			140140			
			AR1			
			PP1			
			PP2			
			PP3			
			8030			
			FN			
			FW			
			WB			

Disclaimer

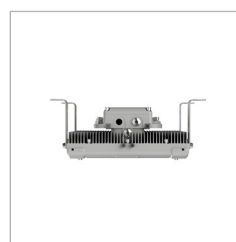
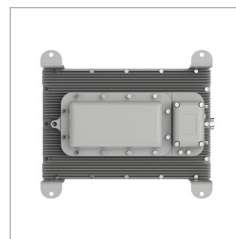
The information provided in this document was accurate at the time of its creation. However, due to the evolving nature of our products and continuous improvements, there may be changes or updates that occur after its publication.

For the most current and detailed information about our products, please contact our sales team at sales@rayteclcd.com.

SPARTAN SPZ HPBY LED Zone 2 Bay Light



rayTEC



Power and Performance

High lumen output up to 34,000 lumens and a range of beam patterns to effectively light up large open areas such as grain stores.



Robust and Durable

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



Retrofittable and Modular

Designed to directly replace traditional discharge light sources up to 400W SON. The modular design allows easy access to key components and the ability to mount the PSU remotely (contact Raytec for details).



Controllable

DALI 2.0 Dimmable as standard 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.

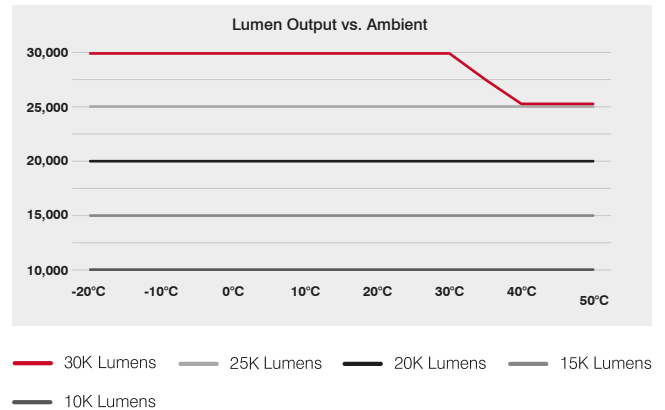


Technical Specifications

Certification

ATEX Rating	ATEX and IEC Ex rated for Gas and Dust
Hazardous Area Rating	Zone 2 – Gas and Dust
Certificates	CML 17ATEX 4149 AND IEC Ex CML 17.0074
Gas	II 3 G D Ex ec nR IIC T4 Gc Ta= -50°C to +50°C
Dust	Ex tc IIIC T104°C Dc Ta+ -50°C to +50°C IP66
ABS Certificate #	ABS Certificate # 20-1990083-PDA

Automatic Thermal Cutback Feature



Electrical

	20K	25K	30K
Input	150-264V 50/60Hz AC/DC 110V variant available - please contact Raytec		
Power	200W	250W	300W
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		

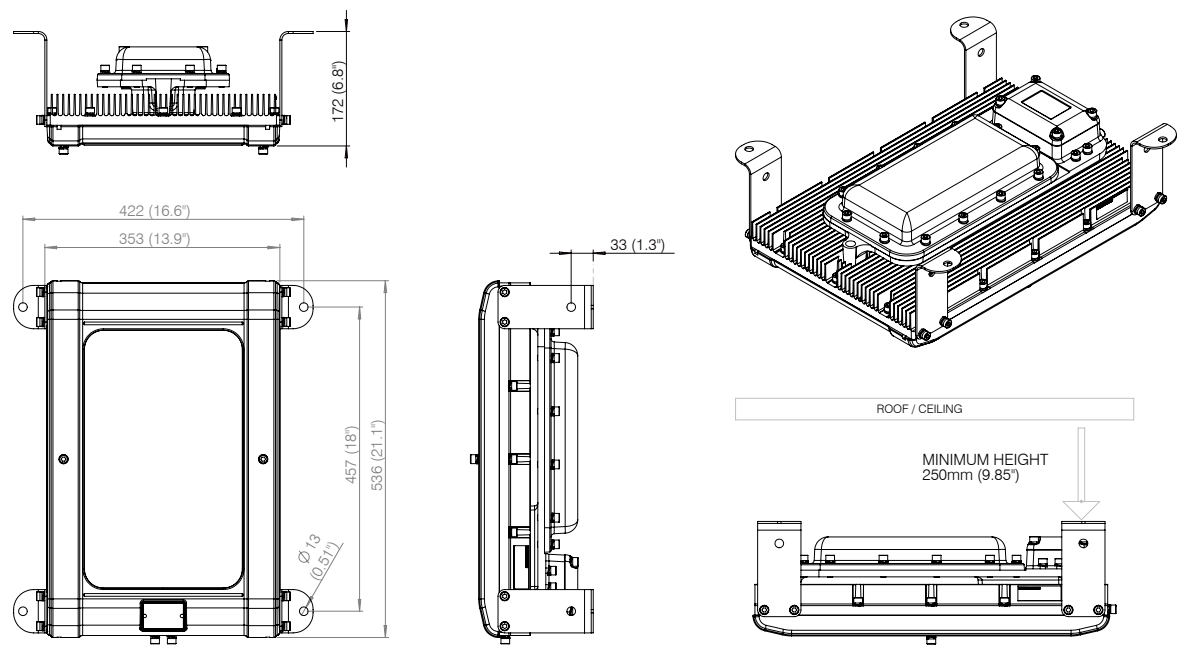
Optical

	20K	25K	30K
Beam Patterns	30° x 30° or 60° x 60° or 90° x 90°		
Lumen Output (Up to)	22,971lm	28,713lm	34,456lm
LED Type	Platinum Elite SMT LEDs		
Number of LEDs	24		
CRI	70+		
Colour Temperature	5,700K		
Automatic Thermal Cutback Feature	Refer to the graph above		

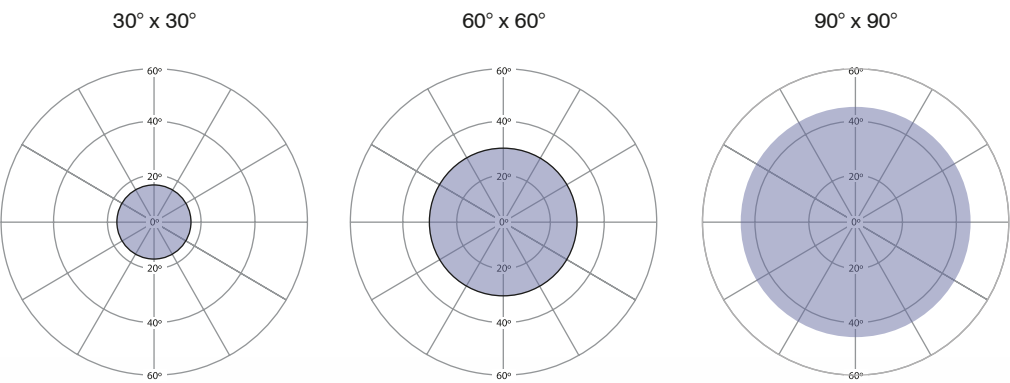
Mechanical

	20K	25K	30K
Burning Position	Universal		
IP Rating	IP66		
Temperature Range	-50°C to +50°C		
Weight	23.5kg (51.8lbs)		
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 1050-D-000006 at www.raytecltd.com		
Dimensions	536 x 422 x 172mm (21.1 x 16.6 x 6.8")		
Mounting	Ceiling mount bracket (see dimension drawings on page 3)		

Product Dimensions



Beam patterns - Circular



Part Code Builder

SPARTAN High Power Bay

Example - SPZ-HPBY15K-W-9090					
Family	Model	Light Type	Optics	Power	Entry
SPZ	HPBY20K	W- White Light	3030	Not Stated - 150-264ac	Not Stated - M20
	HPBY25K		6060	110 - 110V-277Vac	M25
	HPBY30K		9090		