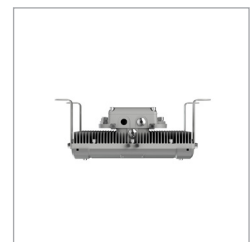
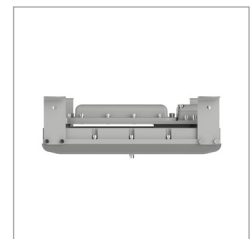
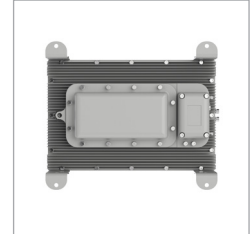




## SPARTAN SPZ-HPBY LED Zone 2 Bay Light

rayTEC®



- ATEX and IEC Ex approved - Zone 2  
UL/CSA approved including C1D2 & ABS
- Zone 1 variant also available
- Ultra long life LED
- High lumen output LED
- Easy installation, maintenance and inspection
- Extreme durability and toughness
- Wide operating temperature range -50° to +50°C
- DALI/Dimming as standard
- 5 year warranty
- Remote power supply variants available  
(contact Raytec)
- Now 'op is' approved (EN60079-28)

SPARTAN Bay Light luminaires are designed for hazardous environments which require high performance, high reliability, White-Light illumination. Specifically, the SPARTAN Bay Light is designed for use in very high applications such as aircraft hangers or hazardous area warehouses. Installations that require high quantities of light from a powerful ceiling mounted solution. Using Raytec's field-proven, long-life LED technology SPARTAN luminaires are ATEX and IEC Ex approved for all Zone 2 applications. SPARTAN Bay Light luminaires have been designed with maintenance in mind. A unique modular design allows key components to be easily accessed and serviced if required, making inspection and maintenance quicker and easier. It also allows for the most flexible installation.

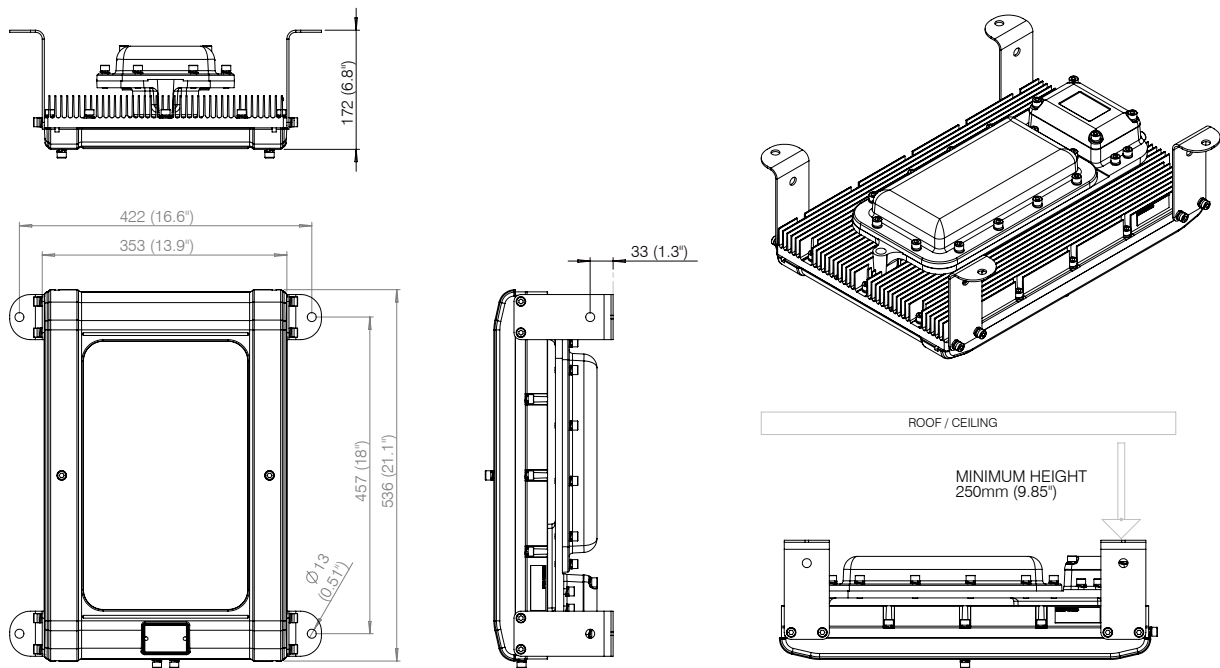
SPARTAN Bay Light luminaires are available in a range of different beam patterns, delivering the ultimate flexibility to specifiers, distributors and end users. SPARTAN uses **COOLEXTRUDE™** thermal management technology, ensuring a much cooler LED operating temperature and up to 60% better heat dissipation compared to traditional lighting solutions, allowing the product to operate for > 10 years while still delivering a high lumen output of up to 25,000 lumens.



THORNE &  
DERRICK  
INTERNATIONAL

Thorne & Derrick  
+44 (0) 191 410 4292  
www.heatingandprocess.com

## Product Dimensions



Features	Benefits
Ultra-Powerful	High lumen output - up to 25,000 lumens Latest high power LED technology
Ultra-Flexible	Range of beam patterns available Operating temperature range of -50°C to +50°C with a T4 rating for even the most challenging conditions
Ultra-Reliable	Industry leading 5 year warranty Designed and manufactured in the UK to the highest standards including both ISO9001 & ISO14001 Advanced electronics and LED's Extreme durability and toughness
Ultra-Modular	Both the LED and PSU modules are easily accessible for maintenance and inspection
Ultra-Efficient	<b>COOLEXTRUDE™</b> thermal management delivers class leading energy efficiency Significant running and maintenance savings compared to traditional lighting technologies SMART access wiring system for safe and efficient installation, set-up and ongoing inspection
Ultra-Support	Photometric files available (.ies & .ldt) Full Lighting Design Service Site specific Energy and Cost Saving Report available

### 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



# Technical Specifications

## Certification

ATEX Rating:	ATEX and IEC Ex rated for Gas and Dust
Hazardous Area rating:	Zone 2 – Gas and Dust
Certificates:	CML 17ATEX4149 AND IEC Ex CML 17.0074 UL/CSA including C1D2
Gas:	II 3 G D Ex ec nR op is IIC T4 Gc Ta= -50°C to +50°C
Dust:	Ex to op is IIIC T104°C Dc IP66 Ta= -50°C to +50°C
North American Rating:	Class I, Div. 2 Gr ABCD T4 Class II, Div. 1 Div. 2 Gr EFG Tamb= -40°C to +50°C Enclosure Type 4X
ABS Rating:	ABS Certificate #15-LD1364539-1-PD

## Electrical

Input:	150-264V 50/60Hz AC/DC 110V variant available - please contact Raytec C1D2 variants 120-277V AC/DC
Power:	120W – 10,000lm 180W – 15,000lm 240W – 20,000lm 300W – 25,000lm
Termination	Incoming terminal block suitable for looping 4 core 4mm <sup>2</sup> cable
Power Factor:	>0.95
Cable Entries	2xM20 as standard (other entries available upon request), dispatched complete with three ATEX/IEC Ex approved blanking plug 3/4" NPT as standard on C1D2

- 25K Lumens
- 20K Lumens
- 15K Lumens
- 10K Lumens

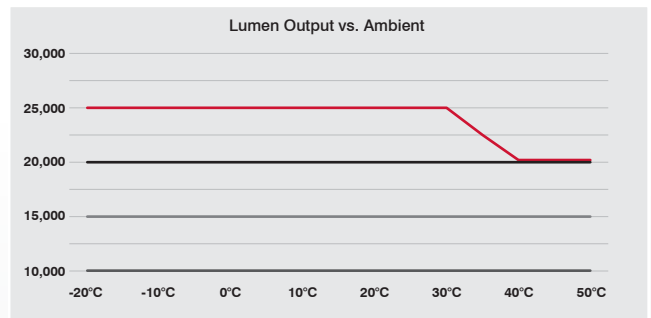
## Mechanical/Environmental

Burning position:	Universal
IP rating:	IP66 & IP67
Temperature range:	-50°C to +50°C (ATEX) -40°C to +50°C (C1D2)
Weight:	22.7kg (50lbs)
Enclosure:	Marine grade aluminium epoxy powder coated, toughened glass, all external fasteners and brackets are marine grade stainless steel
Unit Colour:	Front - Dark Grey (RAL 7012) Back - Silver (RAL 9006)
Installation instructions:	Please contact Raytec for copy
Dimensions:	536 x 422 x 172mm (21.1. x 16.6 x 6.8")
Mounting:	See dimension drawings on Page 2

## Optical

Beam Patterns-circular:	30°x 30° or 60°x 60° or 90°x 90°
Lumen Output	Up to 25,000 lm
LED type:	Platinum Elite SMT LEDs
Number of LEDs:	12 or 24
CRI	80+
Dominant Wavelength:	5,000K
Automatic Thermal Cutback Feature	Refer to the graph below

### Automatic Thermal Cutback Feature



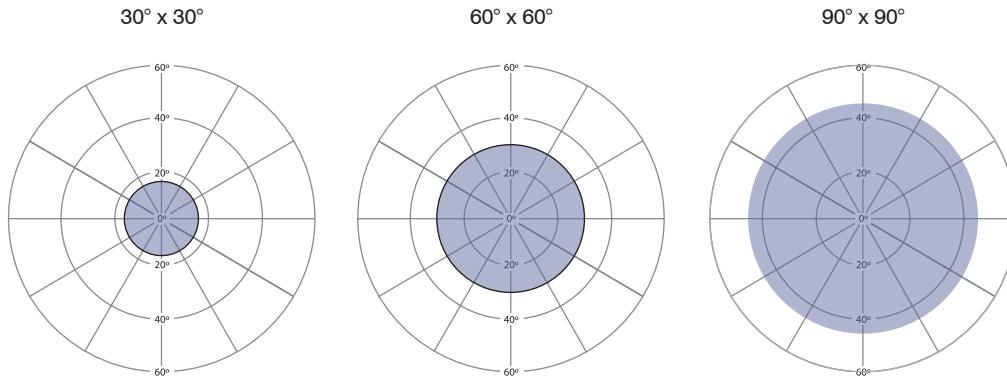
## Product Codes - Zone 2

Part Codes (Select beam pattern below to replace 'XXXX')	Description (T4 variants as standard)
SPZ-HPBY25K-W-XXXX	SPARTAN High Power Bay Light, Zone 2, White-Light, 25,000lm
SPZ-HPBY20K-W-XXXX	SPARTAN High Power Bay Light, Zone 2, White-Light, 20,000lm
SPZ-HPBY15K-W-XXXX	SPARTAN High Power Bay Light, Zone 2, White-Light, 15,000lm
SPZ-HPBY10K-W-XXXX	SPARTAN High Power Bay Light, Zone 2, White-Light, 10,000lm

Add -C1D2 to part code for North American standards

Beam pattern	
3030	Circular beam pattern, 30° x 30° beam
6060	Circular beam pattern, 60° x 60° beam
9090	Circular beam pattern, 90° x 90° beam

## Beam patterns - Circular

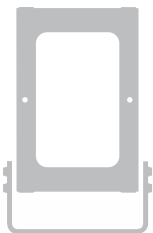


## Products in the SPARTAN Bay range

Zone 1, Zone 2, UL/CSA, Industrial



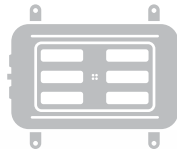
## Products in the SPARTAN Family



SPARTAN Flood



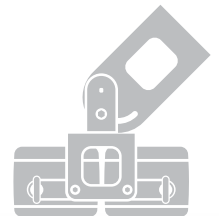
SPARTAN Linear



SPARTAN Bulkhead



SPARTAN Bay



SPARTAN Crane



THORNE &  
DERRICK  
INTERNATIONAL

Thorne & Derrick  
+44 (0) 191 410 4292  
[www.heatingandprocess.com](http://www.heatingandprocess.com)