



SPARTAN SPX-HPBY LED Zone 1 Bay Light - IIB Applications

rayTEC®

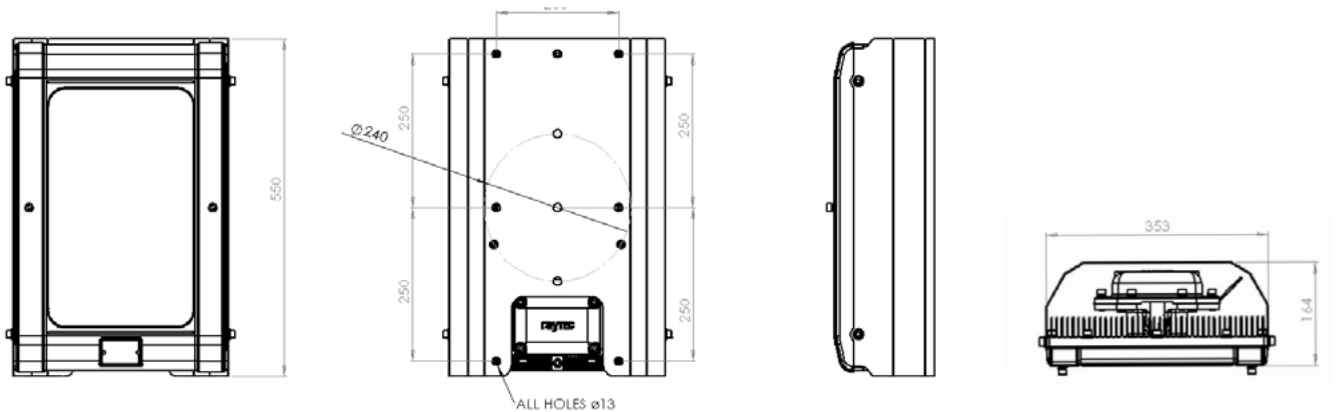


- ATEX and IEC Ex approved – Zone 1
- Zone 2 variant also available
- Ultra long life LED
- High lumen output LED
- Easy installation, maintenance and inspection
- Extreme durability and toughness
- Wide operating temperature range -50° to +50°C
- DALI/Dimming as standard
- 5 year warranty
- Remote power supply variants available (contact Raytec)
- Now 'op is' approved (EN60079-28)
- IIB + H2 variants available

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 hangars 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 1 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.

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 $+50^{\circ}\text{C}$ 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	COOLEXTRUDE™ 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 1 – Gas and Dust
Certificates:	CML 17ATEX1148 AND IEC Ex CML 17.0074
Gas:	II 2 G D Ex db eb mb op is IIB T4 Gb
Dust:	Ex tb op is IIIC T104°C Db Ta= -50°C to +50°C

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

Electrical

Input:	150-264V 50/60Hz AC only
Power:	150-300W
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 three ATEX/IEC Ex approved blanking plug

Mechanical/Environmental

Burning position:	Universal
IP rating:	IP66 & IP67
Temperature range:	-50°C to +50°C
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:	Silver (RAL 9006)
Installation instructions:	Please contact Raytec for copy
Dimensions:	550 x 353 x 164mm (21.7 x 13.9 x 6.5")
Mounting:	See dimension drawings on Page 2

Product Codes - Zone 1

Part Codes

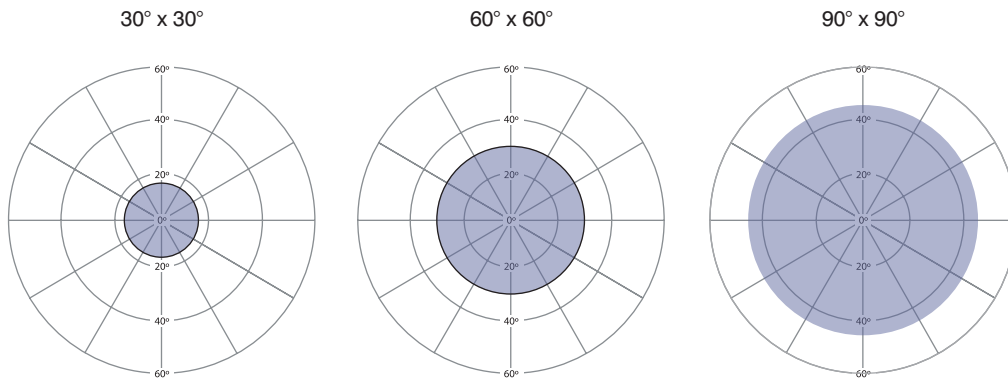
(Select beam pattern below to replace 'XXXX')

Part Codes	Description
SPX-HPBY25K-W-XXXX	SPARTAN High Power Bay Light, Zone 1, White-Light, 25,000lm
SPX-HPBY20K-W-XXXX	SPARTAN High Power Bay Light, Zone 1, White-Light, 20,000lm
SPX-HPBY15K-W-XXXX	SPARTAN High Power Bay Light, Zone 1, White-Light, 15,000lm
SPX-HPBY10K-W-XXXX	SPARTAN High Power Bay Light, Zone 1, White-Light, 10,000lm

Beam pattern

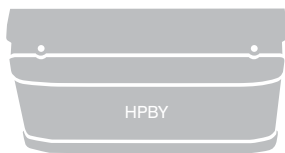
3030	Circular beam pattern, 30° x 30° beam
6060	Circular beam pattern, 60° x 60° beam
9090	Circular beam pattern, 90° x 90° beam

Beam patterns - Circular

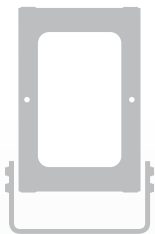


Products in the SPARTAN Bay range

Zone 1, Zone 2, UL/CSA, Industrial



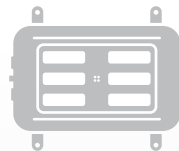
Products in the SPARTAN Family



SPARTAN Flood



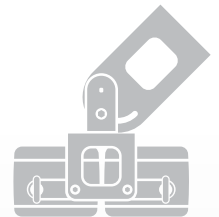
SPARTAN Linear



SPARTAN Bulkhead



SPARTAN Bay



SPARTAN Crane



SPARTAN SPX-HPBY LED Zone 1 Bay Light - IIB + H2 Applications

rayTEC®

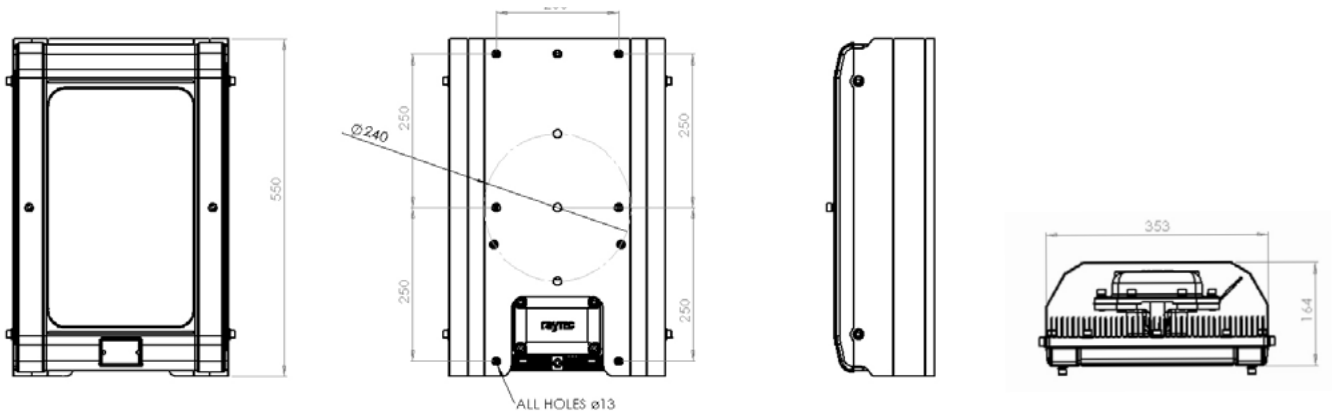


- ATEX and IEC Ex approved – Zone 1
- Zone 2 variant also available
- Ultra long life LED
- High lumen output LED
- Easy installation, maintenance and inspection
- Extreme durability and toughness
- Wide operating temperature range -50° to +50°C
- DALI/Dimming as standard
- 5 year warranty
- Remote power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

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 1 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.

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 $+50^{\circ}\text{C}$ 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	COOLEXTRUDE™ 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 1 – Gas and Dust
Certificates:	CML 17ATEX1148 AND IEC Ex CML 17.0074
Gas:	II 2 G D Ex db eb mb op is IIB+H2 T4 Gb
Dust:	Ex tb op is IIIC T104°C Db Ta= -50°C to +50°C

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

Electrical

Input:	150-264V 50/60Hz AC only
Power:	150-300W
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 three ATEX/IEC Ex approved blanking plug

Mechanical/Environmental

Burning position:	Universal
IP rating:	IP66 & IP67
Temperature range:	-50°C to +50°C
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:	Silver (RAL 9006)
Installation instructions:	Please contact Raytec for copy
Dimensions:	550 x 353 x 164mm (21.7 x 13.9 x 6.5")
Mounting:	See dimension drawings on Page 2

Product Codes - Zone 1

Part Codes

(Select beam pattern below to replace 'XXXX')

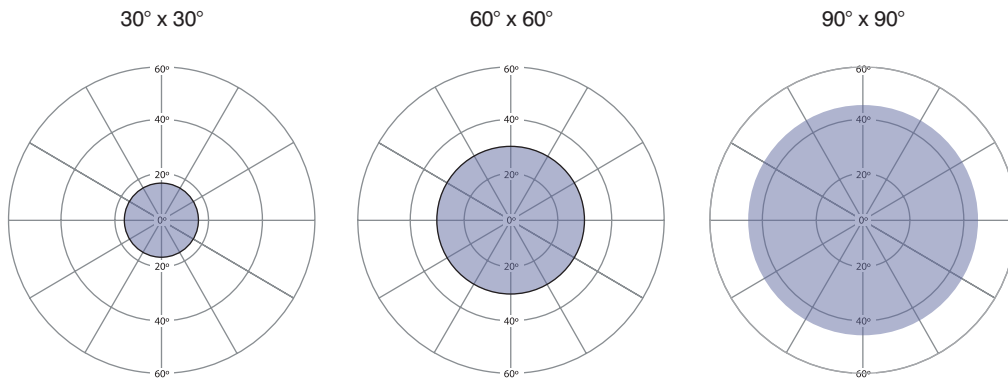
Description

SPX-HPBY25K-W-XXXX-H2	SPARTAN High Power Bay Light, Zone 1, White-Light, 25,000lm
SPX-HPBY20K-W-XXXX-H2	SPARTAN High Power Bay Light, Zone 1, White-Light, 20,000lm
SPX-HPBY15K-W-XXXX-H2	SPARTAN High Power Bay Light, Zone 1, White-Light, 15,000lm
SPX-HPBY10K-W-XXXX-H2	SPARTAN High Power Bay Light, Zone 1, White-Light, 10,000lm

Beam pattern

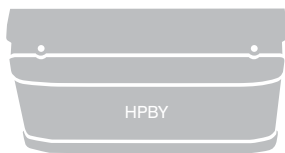
3030	Circular beam pattern, 30° x 30° beam
6060	Circular beam pattern, 60° x 60° beam
9090	Circular beam pattern, 90° x 90° beam

Beam patterns - Circular

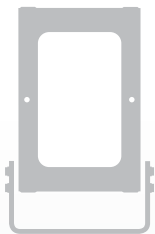


Products in the SPARTAN Bay range

Zone 1, Zone 2, UL/CSA, Industrial



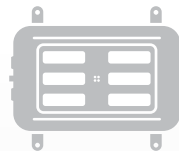
Products in the SPARTAN Family



SPARTAN Flood



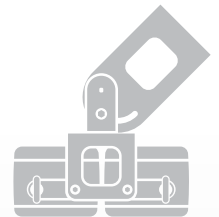
SPARTAN Linear



SPARTAN Bulkhead



SPARTAN Bay



SPARTAN Crane