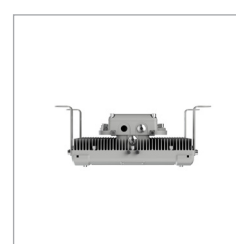
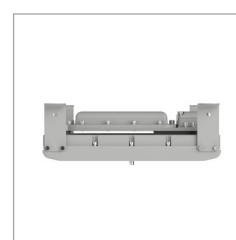
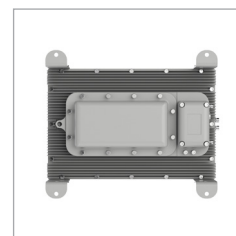




## SPARTAN SPX-HPBY LED Zone 1 Bay Light - IIB Applications

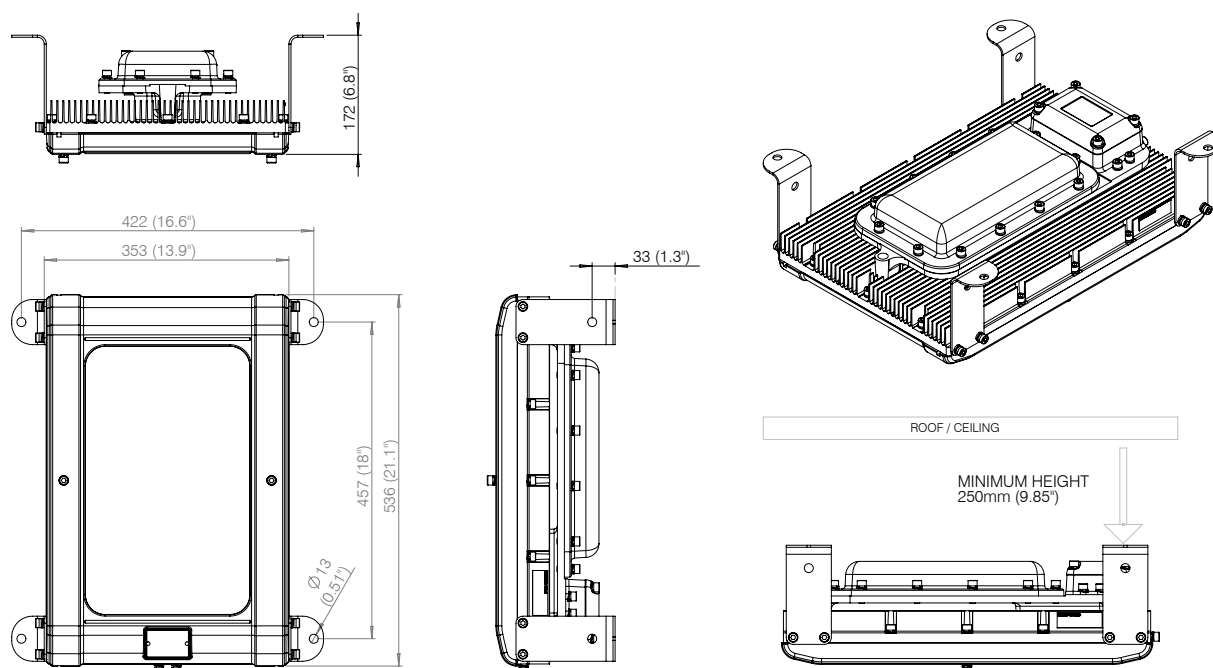


- ATEX and IEC Ex approved – Zone 1
- Zone 2 variant also available
- Ultra long life LED
- High lumen output LED
- Easy installation, maintenance and inspection
- Extreme durability and toughness
- Wide operating temperature range -50° to +50°C
- DALI/Dimming as standard
- 5 year warranty
- Remote power 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 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<br>Latest high power LED technology                                                                                                                                                                                                   |
| Ultra-Flexible  | Range of beam patterns available<br>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<br>Designed and manufactured in the UK to the highest standards including both ISO9001 & ISO14001<br>Advanced electronics and LED's<br>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<br>Significant running and maintenance savings compared to traditional lighting technologies<br>SMART access wiring system for safe and efficient installation, set-up and ongoing inspection |
| Ultra-Support   | Photometric files available (.ies & .ldt)<br>Full Lighting Design Service<br>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

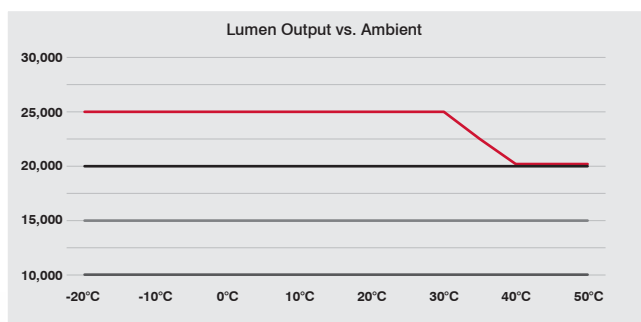
## Certification

|                        |                                                  |
|------------------------|--------------------------------------------------|
| 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<br>Ex db eb mb op is IIB T4 Gb          |
| Dust:                  | Ex tb op is IIIC T104°C Db<br>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                           |
| Automatic Thermal Cutback Feature | Refer to the graph below         |

## Automatic Thermal Cutback Feature



## Electrical

|               |                                                                                                                             |
|---------------|-----------------------------------------------------------------------------------------------------------------------------|
| Input:        | 150-264V 50/60Hz AC only<br>110V variant available - please contact Raytec                                                  |
| Power:        | 120W – 10,000lm<br>180W – 15,000lm<br>240W – 20,000lm<br>300W – 25,000lm                                                    |
| 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 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:                | 536 x 422 x 172mm<br>(21.1 x 16.6 x 6.8")                                                                                         |
| Mounting:                  | See dimension drawings on Page 2                                                                                                  |

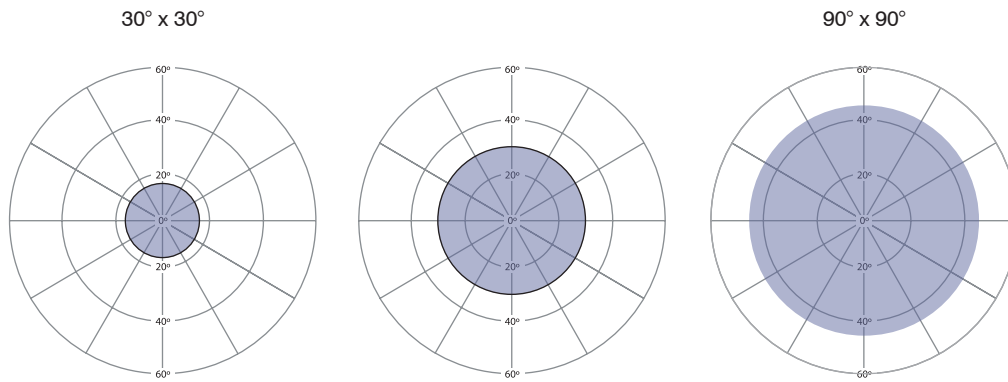
# Product Codes - Zone 1

| Part Codes<br>(Select beam pattern below to replace 'XXXX') | 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

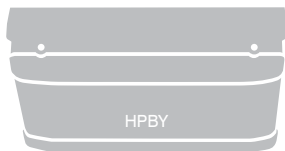
|      |                                       |
|------|---------------------------------------|
| 3030 | Circular beam pattern, 30° x 30° beam |
| 6060 | Circular beam pattern, 60° x 60° beam |
| 9090 | Circular beam pattern, 90° x 90° beam |

## Beam patterns - Circular

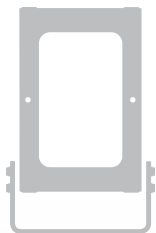


## Products in the SPARTAN Bay range

Zone 1, Zone 2, UL/CSA, Industrial



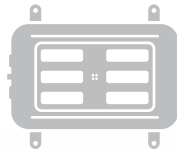
## Products in the SPARTAN Family



SPARTAN Flood



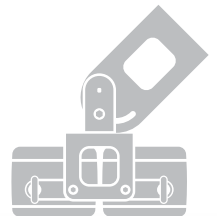
SPARTAN Linear



SPARTAN Bulkhead



SPARTAN Bay



SPARTAN Crane



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ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS

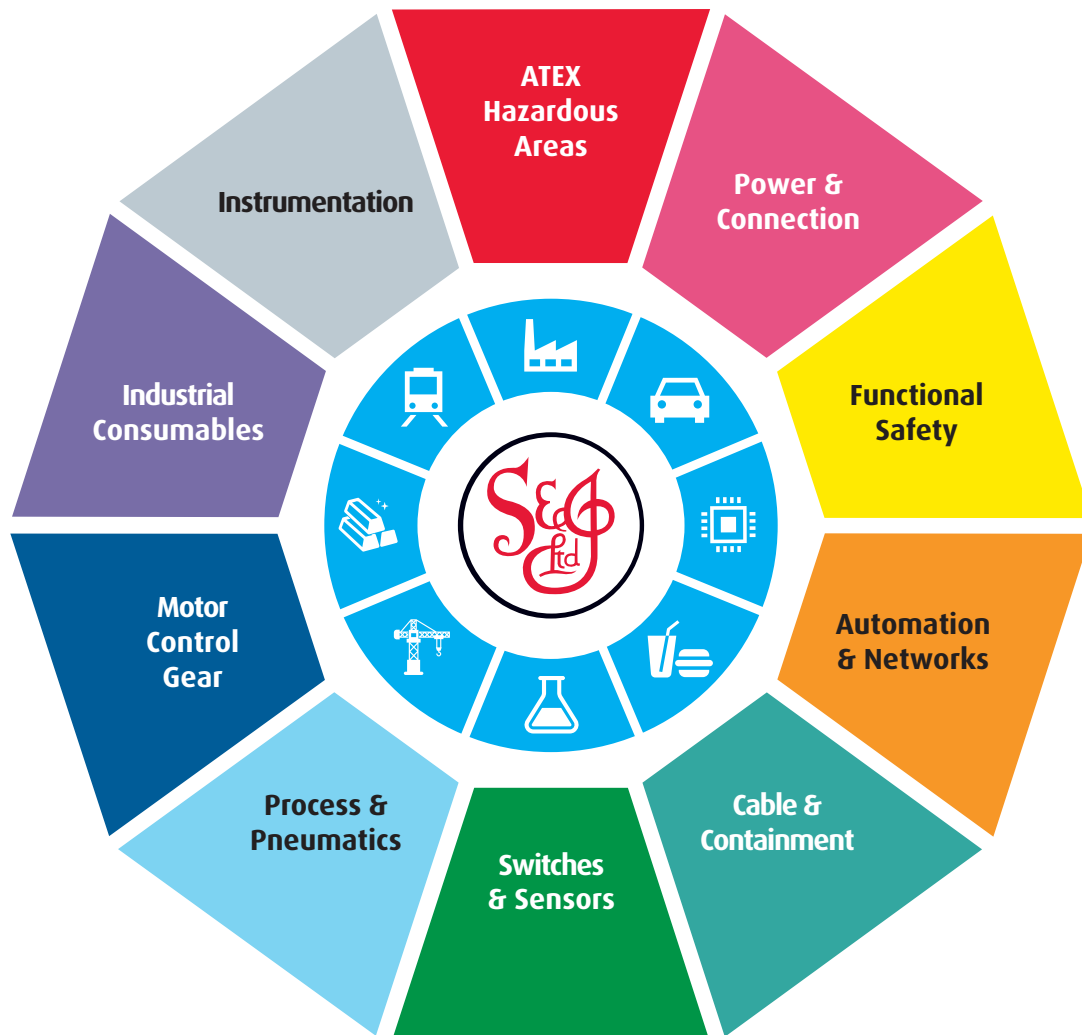
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