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.
**Features**

- **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**
  - 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

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**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

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

Electrical

Input: 150-264V 50/60Hz AC only
Power: 110V variant available - please contact Raytec
120W – 10,000lm
180W – 15,000lm
240W – 20,000lm
300W – 25,000lm
Terminal: Incoming terminal block suitable for loop grading 6 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 (21.1 x 16.6 x 6.8“)
Mounting: See dimension drawings on Page 2

Automatic Thermal Cutback Feature

Lumen Output vs. Ambient

Product Codes - Zone 1

<table>
<thead>
<tr>
<th>Part Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPX-HPBY25K-W-XXXX</td>
<td>SPARTAN High Power Bay Light, Zone 1, White-Light, 25,000lm</td>
</tr>
<tr>
<td>SPX-HPBY20K-W-XXXX</td>
<td>SPARTAN High Power Bay Light, Zone 1, White-Light, 20,000lm</td>
</tr>
<tr>
<td>SPX-HPBY15K-W-XXXX</td>
<td>SPARTAN High Power Bay Light, Zone 1, White-Light, 15,000lm</td>
</tr>
<tr>
<td>SPX-HPBY10K-W-XXXX</td>
<td>SPARTAN High Power Bay Light, Zone 1, White-Light, 10,000lm</td>
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</tbody>
</table>

Beam pattern

<table>
<thead>
<tr>
<th>Beam pattern</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3030</td>
<td>Circular beam pattern, 30° x 30° beam</td>
</tr>
<tr>
<td>6060</td>
<td>Circular beam pattern, 60° x 60° beam</td>
</tr>
<tr>
<td>9090</td>
<td>Circular beam pattern, 90° x 90° beam</td>
</tr>
</tbody>
</table>
Beam patterns - Circular

30° x 30° 90° x 90°

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