



SPARTAN SPX-HPFL LED Zone 1 High Power Flood - IIB Applications

rayTEC®



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

The SPARTAN High Power Flood is designed for hazardous environments which require high performance, high reliability, White-Light illumination. Specifically, the High Power Flood has been designed to light up large, open areas such as an Offshore Oil Rig. The dedicated bracket allows the beam angle to be tilted and easily targeted into the required space. Using Raytec's field-proven, long-life LED technology SPARTAN luminaires are ATEX and IEC Ex approved for all Zone 1 applications. SPARTAN High Power Flood has 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 High Power Flood is 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

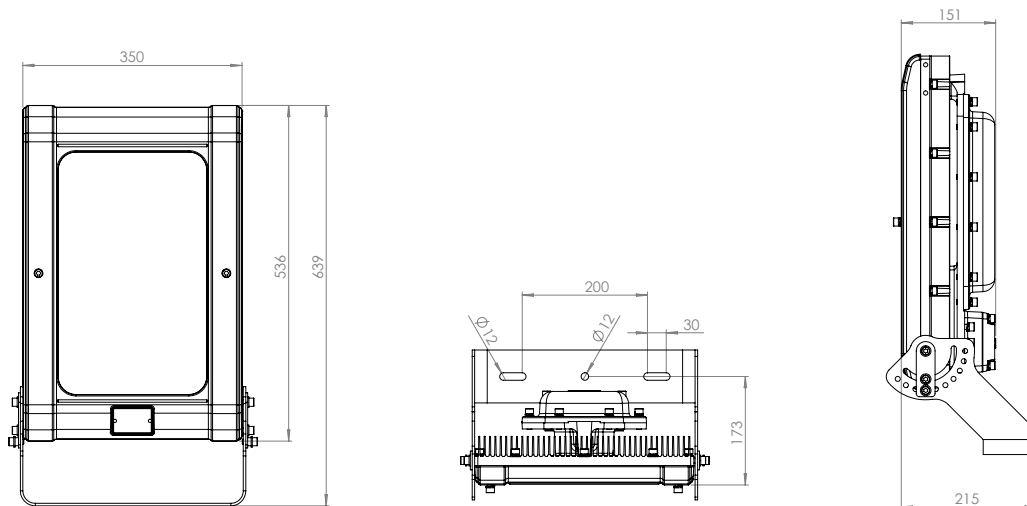
+44 (0) 191 410 4292

www.heatingandprocess.com

Version 2

www.raytecled.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 LED's protected by vibration resistant and water proof potting compound 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

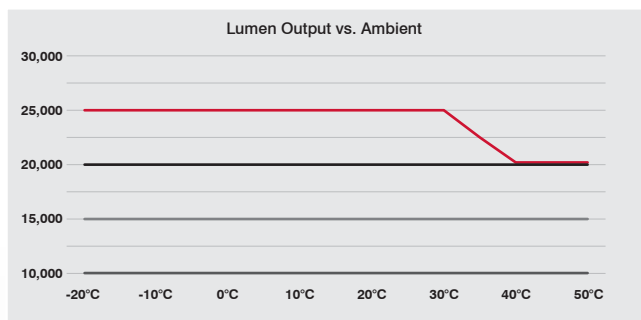
Certification

| | |
|------------------------|--|
| 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 IIC 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 on mains: | Up to 25,000 lumens |
| LED type: | Platinum Elite SMT LEDs |
| Number of LEDs: | 12 or 24 |
| CRI | 80+ |
| Colour Temperature: | 5,000K |
| Automatic Thermal Cutback Feature | Refer to the graph below |

Automatic Thermal Cutback Feature



Electrical

| | |
|---------------|---|
| Input: | 150-264V 50/60Hz AC only 110V variant available - please contact Raytec |
| Power: | 120W – 10,000lm 180W – 15,000lm 240W – 20,000lm 300W – 25,000lm |
| Termination | Incoming terminal block suitable for looping 3 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 approved blanking plug |

Mechanical/Environmental

| | |
|----------------------------|---|
| Burning position: | Universal |
| IP rating: | IP66 & IP67 |
| 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 contact Raytec for copy |
| Dimensions: | 639 x 350 x 215mm (25.2 x 13.8 x 8.5") |
| Mounting: | Stirrup bracket (see dimension drawings on Page 2) |

Product Codes - Zone 1

Part Codes

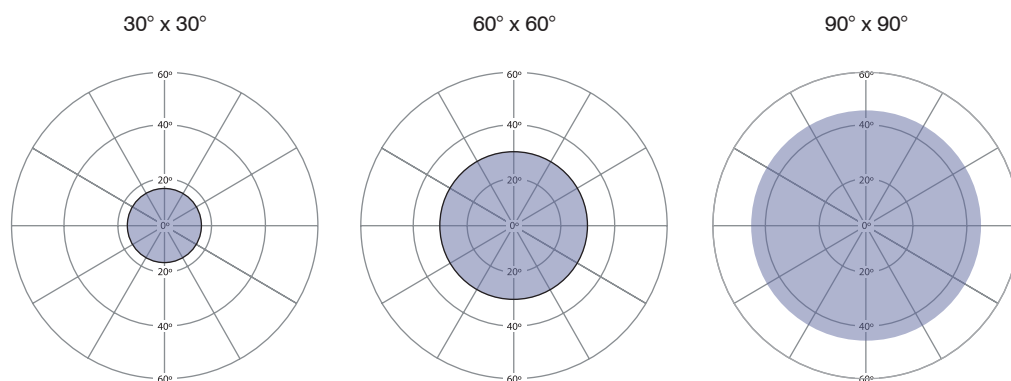
(Select beam pattern below to replace 'XXXX')

| Part Codes | Description |
|--------------------|---|
| SPX-HPFL25K-W-XXXX | SPARTAN High Power Flood, Zone 1, White-Light, 25,000lm |
| SPX-HPFL20K-W-XXXX | SPARTAN High Power Flood, Zone 1, White-Light, 20,000lm |
| SPX-HPFL15K-W-XXXX | SPARTAN High Power Flood, Zone 1, White-Light, 15,000lm |
| SPX-HPFL10K-W-XXXX | SPARTAN High Power Flood, 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

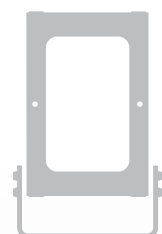


Products in the SPARTAN High Power Flood range

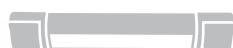
Zone 1, Zone 2, UL/CSA, Industrial



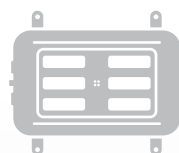
Products in the SPARTAN Family



SPARTAN Flood



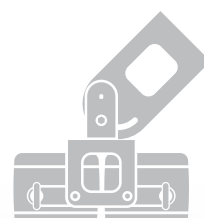
SPARTAN Linear



SPARTAN Bulkhead



SPARTAN Bay



SPARTAN Crane



THORNE &
DERRICK
INTERNATIONAL

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