PRODUCT OVERVIEW

Hazardous Area Luminaires

New High Power Flood & Bay Zone 1 and 2
New Intelligent Emergency
Full Product Family
Raytec manufacture a full range of hazardous area lighting with SPARtan Flood, Linear, Bulkhead, Bay and Crane lighting, meaning there’s a solution for any application.

UK Designed and Manufactured
All Raytec hazardous area products are designed and manufactured in the UK and are ATEX and IEC Ex approved. We’re so confident in our quality that all our products come with a 5 year warranty. Raytec are also ISO9001 and ISO14001 certified.

Global Reach
Based at our HQ, near Newcastle, UK, we also have a sales office in Canada. Our products are successfully deployed globally from the Arctic Circle to the Jungles of Borneo.

Leaders in LED
Founded in 2005, each and every Raytec luminaire produced is built around LED technology, with over half a million products currently in service. We’ve used our expertise to create SPARTAN - a high performance range of hazardous area lighting which delivers class leading performance and reliability.

Lighting Specialists
Raytec and all our people are 100% focused on lighting. Everything from product design, to manufacture, to sales and after sales service is under one roof at our Global HQ.
<table>
<thead>
<tr>
<th>Product Type</th>
<th>Zone 1</th>
<th>Zone 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood</td>
<td>6-8</td>
<td>9-11</td>
</tr>
<tr>
<td>Crane</td>
<td>21</td>
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<tr>
<td>Specialist Products</td>
<td>26</td>
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<tr>
<td>Linear</td>
<td>14-15</td>
<td></td>
</tr>
<tr>
<td>Bay</td>
<td>23</td>
<td>24</td>
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<tr>
<td>Bulkhead</td>
<td>19</td>
<td>19</td>
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<tr>
<td>Design Services</td>
<td>27</td>
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</tr>
</tbody>
</table>

Industrial variants available - see website
Robust
Housed in marine grade aluminium with A4 stainless steel fasteners and brackets, SPARTAN Flood is IP66 and IP67 rated and can survive in the most extreme environments.

Wide Operating Temperature
An operating temperature range of -50°C to +55°C* with a T4/T5/T6 rating means SPARTAN Flood is suitable for even the most challenging conditions.

Intelligent Driver
High Power Flood versions feature an intelligent and fully programmable DALI enabled driver for seamless integration into your existing lighting infrastructure.

Ultra-Powerful
SPARTAN Flood integrates the latest high power LEDs with Raytec’s field proven LED management and optic technology. This delivers a high lumen output of up to 25,000* lumens.

VARIO Technology
SPARTAN Flood is available with a variety of different beam patterns, both circular and elliptical. Elliptical illumination angles can be altered on-site* with our unique VARIO interchangeable lens system.

*luminaire model dependent
SPARTAN Flood uses CoolExtrude™ thermal management technology, ensuring a much cooler LED operating temperature. This provides up to 60% better heat dissipation compared to traditional lighting solutions and allows the product to operate for 10+ years in the most challenging environments.

Emergency Back-Up
SPARTAN Flood is available as a high performance emergency variant, using an additional battery back-up module which can deliver up to 100% light output under emergency conditions.

Flexible Installation and Easy Maintenance
The modular design allows great flexibility – the entire PSU chassis can be removed and located remotely at ground level for areas with difficult access. Additionally the individual PSU modules can be easily accessed and replaced making servicing and inspection of all key components quicker and easier.
<table>
<thead>
<tr>
<th>Certification</th>
<th>ATEX and IEC Ex rated for Zone 1 Gas and Dust</th>
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<tbody>
<tr>
<td>Beam Angles</td>
<td>30° x 30° / 60° x 60° / 90° x 90° (circular)</td>
<td>30° x 30° / 60° x 60° / 90° x 90° (circular)</td>
<td>30° x 30° / 60° x 60° / 90° x 90° (circular)</td>
<td>30° x 30° / 60° x 60° / 90° x 90° (circular)</td>
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<tr>
<td>Input</td>
<td>150-264V 50/60Hz AC/DC</td>
<td>150-264V 50/60Hz AC/DC</td>
<td>150-264V 50/60Hz AC/DC</td>
<td>150-264V 50/60Hz AC/DC</td>
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<tr>
<td>Beam Shape</td>
<td>Circular</td>
<td>Circular</td>
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<tr>
<td>Beam Angle System</td>
<td>Fixed</td>
<td>Fixed</td>
<td>Fixed</td>
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<tr>
<td>Consumption</td>
<td>300W</td>
<td>240W</td>
<td>180W</td>
<td>120W</td>
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<tr>
<td>LED type</td>
<td>Platinum Elite Multi-Core SMT LEDs</td>
<td>Platinum Elite Multi-Core SMT LEDs</td>
<td>Platinum Elite Multi-Core SMT LEDs</td>
<td>Platinum Elite Multi-Core SMT LEDs</td>
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<tr>
<td>Number of LEDs</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>12</td>
</tr>
<tr>
<td>Power output</td>
<td>25,000 lm</td>
<td>20,000 lm</td>
<td>15,000 lm</td>
<td>10,000 lm</td>
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<tr>
<td>Wavelength</td>
<td>White-Light</td>
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<tr>
<td>Temperature Range</td>
<td>-50°C to +50°C (-58°F to 122°F)</td>
<td>-50°C to +50°C (-58°F to 122°F)</td>
<td>-50°C to +50°C (-58°F to 122°F)</td>
<td>-50°C to +50°C (-58°F to 122°F)</td>
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<td>Colour Temperature</td>
<td>5,000K</td>
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<tr>
<td>Colour</td>
<td>Silver (RAL 9006)</td>
<td>Silver (RAL 9006)</td>
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<td>Silver (RAL 9006)</td>
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<tr>
<td>Weight</td>
<td>23.5kg (51.8lbs)</td>
<td>23.5kg (51.8lbs)</td>
<td>23.5kg (51.8lbs)</td>
<td>22kg (48.5lbs)</td>
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<tr>
<td>Dimensions</td>
<td>639 x 350 x 215mm (25.2 x 13.8 x 8.5&quot;)</td>
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<tr>
<td>Additional Features</td>
<td>CoolExtrude™ Thermal Management</td>
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<td>CoolExtrude™ Thermal Management</td>
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<td></td>
<td>Removable PSU and LED modules</td>
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<td>T4 Rating</td>
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Emergency Battery Back-up

<table>
<thead>
<tr>
<th>Battery</th>
<th>Duration</th>
<th>Charge Time</th>
<th>Additional Features</th>
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<tbody>
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</tbody>
</table>

Part Codes


| Elliptical beam pattern | | | | |

Industrial variants available - see website
## Certification
- ATEX and IEC Ex rated for Zone 1 Gas and Dust
- ABS Approved

## Beam Angles
- **Circular**:
  - 10° x 10° / 30° x 30° / 55° x 55° and 120° x 120°
  - 35° x 10° / 60 x 25° / 80° x 30° and 120° x 50°
- **Elliptical**:
  - 10° x 10° / 50° x 50° and 120° x 120°
  - 35° x 10° / 60 x 25° / 80° x 30° and 120° x 50°

## Input
- 110-254V 50/60Hz AC/DC
- Low voltage: 18-48V AC and 18-69V DC
- Extra low voltage: 12V AC/DC

## Beam Shape
- Elliptical or Circular

## Beam Angle System
- VARIO interchangeable lens system (elliptical) / Fixed (circular)

## Consumption
- 136W / 139W

## LED Type
- Platinum Elite SMT LEDs

## Power output (luminous flux)
- Circular: Up to 10,000 lm
- Elliptical: Up to 9,000 lm

## Wavelength
- White-Light (also available in Infra-Red)

## IP Rating
- IP66 & IP67

## Temperature Range
- -50°C to +55°C (-58°F to 131°F)

## Colour Temperature (White-Light)
- 6,000K

## Colour
- Silver (RAL 9006)
- Emergency Cover - Red (RAL 3024)

## Weight
- 16kg (35.2lbs)
- 20kg (44lbs)

## Dimensions
- 291 x 502 x 158mm (11.5 x 19.8x 6.2")
- 291 x 502 x 219mm (11.5 x 19.8 x 8.6")

## Additional Features
- Cool Extrude™ Thermal Management
- Removable PSU and LED modules
- Retention point for suspension cord
- SMART access wiring system
- Photocell (optional)
- T4, T5 and T6 Variants (T4 as standard)

## Emergency Battery Back-up
- Ni/Cd 12V 4.5Ah
- Up to 90mins at 25% power (1x battery unit)
- More options available
- 20 hours

## Part Codes
- **Circular beam pattern**
  - SPX-FL48-W-1010 / SPX-FL48-W-3030
  - SPX-FL48-W-5050 / SPX-FL48-W-120120

- **Elliptical beam pattern**
  - SPX-FL48-W-3510 / SPX-FL48-W-6025
  - SPX-FL48-W-8030 / SPX-FL48-W-12050

## Other Options
- Charge Time
- Additional Features
### Certification
ATEX and IEC Ex rated for Zone 1 Gas and Dust
ABS Approved

### Beam Angles
- **Circular**: 10° x 10° / 30° x 30° / 50° x 50° and 120° x 120°
- **Elliptical**: 35° x 10° / 60° x 25° / 80° x 30° and 120° x 50°

### Input
- **AC/DC**: 110-254V 50/60Hz
- **Low Voltage**: 18-48V AC and 18-69V DC
- **Extra Low Voltage**: 12V AC/DC

### Beam Shape
- **Circular**: VARIO interchangeable lens system (elliptical) / Fixed (circular)
- **Elliptical**: VARIO interchangeable lens system (elliptical) / Fixed (elliptical)

### Beam Angle System
- **VARIO interchangeable lens system**: Elliptical or Circular
- **Fixed**: Circular

### Consumption
- **Circular**: 68W
- **Elliptical**: 71W
- **Circular**: 34W
- **Elliptical**: 34W

### LED type
- Platinum Elite SMT LEDs

### Number of LEDs
- 24
- 24
- 12

### Power output (luminous flux)
- **Circular**: Up to 5,000 lm
- **Elliptical**: Up to 4,500 lm
- **Circular**: Up to 2,500 lm
- **Elliptical**: Up to 2,250 lm

### Wavelength
- White Light
- (also available in Intra-Red)

### IP Rating
- IP66 & IP67

### Temperature Range
- **-50°C to +55°C (-58°F to 131°F)**
- **-20°C to +55°C (-4°F to 131°F)**
- **-50°C to +55°C (-58°F to 131°F)**

### Colour Temperature (White Light)
- 6,000K+

### Colour
- Silver (RAL 9006)
- Silver (RAL 9006)

### Weight
- 8kg (17.6lbs)
- 10kg (22lbs)
- 5kg (11lbs)

### Dimensions
- 291 x 312 x 150mm (11.5 x 12.3 x 6”)
- 291 x 312 x 215mm (11.5 x 12.3 x 8.5”)
- 196 x 274 x 170mm (10.8 x 7.7 x 6.7”)

### Additional Features
- Cool Extrude™ Thermal Management
- Removable PSU and LED modules
- Retention point for suspension cord
- SMART access wiring system
- T4, T5 and T6 Variants (T4 as standard)

### Emergency Battery Back-up
- **Battery**: Ni/Cd 12V 4.5Ah
- **Duration**: Up to 90mins at 50% power (1x battery unit)
- **Charge Time**: 20 hours
- **Other options available**

### Part Codes
- **Circular beam pattern**: SPX-FL24-W-1010 / SPX-FL24-W-3030
- **Circular beam pattern**: SPX-FL24-W-1010 / SPX-FL24-W-3030
- **Circular beam pattern**: SPX-FL24-W-1010 / SPX-FL24-W-3030
- **Elliptical beam pattern**: SPX-FL24-W-3510 / SPX-FL24-W-6025
- **Elliptical beam pattern**: SPX-FL24-W-3510 / SPX-FL24-W-6025
- **Elliptical beam pattern**: SPX-FL24-W-3510 / SPX-FL24-W-6025
<table>
<thead>
<tr>
<th>Certification</th>
<th>ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS</th>
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</thead>
<tbody>
<tr>
<td>Beam Angles</td>
<td>30° x 30° / 60° x 60° / 90° x 90° (circular)</td>
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<tr>
<td>Input</td>
<td>150-240V 50/60Hz AC only C1D2 variants - 105-277V AC/DC</td>
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<tr>
<td>Beam Shape</td>
<td>Circular</td>
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<tr>
<td>Beam Angle System</td>
<td>Fixed</td>
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<tr>
<td>Consumption</td>
<td>300W</td>
</tr>
<tr>
<td>LED type</td>
<td>Platinum Elite Multi-Core SMT LEDs</td>
</tr>
<tr>
<td>Number of LEDs</td>
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</tr>
<tr>
<td>Power output (luminous flux)</td>
<td>25,000 lm</td>
</tr>
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<td>Wavelength</td>
<td>White-Light</td>
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<tr>
<td>IP Rating</td>
<td>IP66 &amp; IP67</td>
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<tr>
<td>Temperature Range</td>
<td>-50°C to +50°C (-58°F to 122°F)</td>
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<tr>
<td>Colour Temperature (White-Light)</td>
<td>5,000K</td>
</tr>
<tr>
<td>Colour</td>
<td>Front - Dark Grey (RAL 7012) Back - Silver (RAL 9006)</td>
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<tr>
<td>Weight</td>
<td>23.9kg (51.8lbs)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>639 x 350 x 215mm (25.2 x 13.8 x 8.5&quot;)</td>
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<tr>
<td>Additional Features</td>
<td>CoolExtrude™ Thermal Management</td>
</tr>
<tr>
<td>Emergency Battery Back-up</td>
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<tr>
<td>Battery</td>
<td></td>
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<tr>
<td>Duration</td>
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<tr>
<td>Charge Time</td>
<td></td>
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<tr>
<td>Part Codes</td>
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</tbody>
</table>

**C1D2 variants - 120-277V AC/DC**

**Circular beam pattern**

- SPZ-HFPL25K-W-9090

**Elliptical beam pattern**

- SPZ-HFPL15K-W-9090
### Certification
- ATEX and IEC Ex rated for Zone 2 Gas and Dust
- C1D2 and ABS

### Beam Angles
- Circular: 10° x 10° / 30° x 30° / 50° x 50° and 120° x 120°
- Elliptical: 35° x 10° / 60 x 25° / 80° x 30° and 120° x 50°

### Input
- 110-254V 50/60Hz AC/DC
- Low voltage: 15-48V AC and 18-56V DC
- Extra low voltage: 12V AC/DC

### Beam Shape
- Elliptical or Circular

### Beam Angle System
- VARIO interchangeable lens system (elliptical) / Fixed (circular)

### Consumption
- 136W / 139W

### LED type
- Platinum Elite SMT LEDs

### Number of LEDs
- 48

### Power output (luminous flux)
- Up to 11,000 lm – circular beam patterns
- Up to 10,000 lm – elliptical beam patterns

### Wavelength
- White-Light (also available in Infra-Red)

### IP Rating
- IP66 & IP67

### Temperature Range
- -50°C to +55°C (-58°F to 131°F)
- -20°C to +55°C (-4°F to 131°F)

### Colour Temperature (White-Light)
- 6,000K +

### Colour
- Front - Dark Grey (RAL 7012)
- Back - Silver (RAL 9006)
- Emergency Cover - Red (RAL 3024)

### Weight
- 16kg (35.2lbs)
- 20Kg (44lbs)

### Dimensions
- 291 x 502 x 158mm (11.5 x 19.8 x 6.2”)
- 291 x 502 x 219mm (11.5 x 19.8 x 8.6”)

### Additional Features
- Cool Extrude™ Thermal Management
- Removable PSU and LED modules
- Retention point for suspension cord
- SMART access wiring system
- T4, T5 and T6 Variants (T4 as standard)

### Emergency Battery Back-up
- Ni/Cd 12V 4.5Ah

### Battery
- Up to 90mins at 25% power (1x battery unit)
- Other options available

### Charge Time
- 20 hours

### Additional Features
- Automatic self-testing

### Part Codes
- Circular beam pattern
  - SPZ-FL48-W-1010 / SPZ-FL48-W-3030
  - SPZ-FL48-W-5050 / SPZ-FL48-W-120120

- Elliptical beam pattern
  - SPZ-FL48-W-3510 / SPZ-FL48-W-6025
  - SPZ-FL48-W-8030 / SPZ-FL48-W-12050

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ZONE 2

Industrial variants available - see website
## Certification
ATEX and IEC Ex rated for Zone 2 Gas and Dust ABEx Approved

## Beam Angles
10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular)  
35° x 10° / 60° x 25° / 80° x 30° and 120° x 50° (elliptical)

## Input
110-254V 50/60Hz AC/DC  
Low voltage: 18-48V AC and 18-69V DC  
Extra low voltage: 12V AC/DC

## Beam Angle System
VARIO interchangeable lens system (elliptical) / Fixed (circular)

## Consumption
68W  
71W  
34W

## LED type
Platinum Elite SMT LEDs

## Number of LEDs
24  
24  
12

## Power output (luminous flux)
Up to 5,500 lm – circular beam patterns  
Up to 5,000 lm – elliptical beam patterns  
Up to 2,750 lm – circular beam patterns  
Up to 2,500 lm – elliptical beam patterns

## Wavelength
White-Light (also available in Infra-Red)

## IP Rating
IP66 & IP67  
IP66 & IP67  
IP66 & IP67

## Temperature Range
-60°C to +55°C (-8°F to 131°F)  
-20°C to +55°C (-4°F to 131°F)  
-50°C to +55°C (-58°F to 131°F)

## Colour Temperature (White-Light)
6,000K+

## Colour
Front - Dark Grey (RAL 7012)  
Back - Silver (RAL 9006)  
Front - Dark Grey (RAL 7012)  
Back - Silver (RAL 9006)

## Weight
8kg (17.6lbs)  
10Kg (22lbs)  
5kg (11lbs)

## Dimensions
291 x 312 x 150mm (11.5 x 12.3 x 6”)  
291 x 312 x 215mm (11.5 x 12.3 x 8.5”)  
196 x 274 x 170mm (10.8 x 7.7 x 6.7”)

## Additional Features
Cool Extrude™ Thermal Management  
Removable PSU and LED modules  
Retention point for suspension cord  
SMART access wiring system  
Photocell (optional)  
T4, T5 and T6 Variants (T4 as standard)

## Emergency Battery Back-up
Ni/Cd 12V 4.6Ah

## Charge Time
20 hours

## Additional Features
Automatic self-testing

## Part Codes
### Circular beam pattern
SPZ-FL24-W-1010 / SPZ-FL48-W-3030  
SPZ-FL24-W-5050 / SPZ-FL48-W-120120

### Elliptical beam pattern
SPZ-FL24-W-3510 / SPZ-FL48-W-6025  
SPZ-FL24-W-8030 / SPZ-FL48-W-12050
**Wide Operating Temperature**

An operating temperature range of -40°C to +60°C* with a T4/T5/T6 rating means SPARTAN Linear is suitable for even the most challenging conditions.

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**Intelligent Emergency Back-Up**

SPARTAN Linear is available as an emergency variant which can run up to 100% light output under emergency conditions. All SPARTAN Linear emergency units come with intelligent battery management to proactively monitor and maintain the overall health of your luminaire.

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**Robust**

Housed in marine grade aluminium with stainless steel fasteners and brackets, SPARTAN Linear is IP66 and IP67 rated and can survive in the most extreme environments.

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**Perfect, Crisp, Even Illumination**

Multiple small profile, medium power SMT LEDs are used to deliver a crisp, uniform illumination without glare.

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*luminaire model dependent*
Easy Maintenance

A maintenance friendly modular design allows quick and easy servicing and inspection of all key components including LED and PSU modules. SPARTAN Linear has also been designed without ledges to prevent dust or water from accumulating.

Automatic Self-Testing

The intelligent emergency system ensures 100% light output is maintained during all testing procedures, while discharge cycles occur randomly every 3 months and always retain around a third of the battery’s charge, so you’re never left with a total loss of light. The health status of the luminaire is communicated through the LED indicator.

Retrofitable

SPARTAN Linear is a direct replacement for fluorescent fittings, meaning you can upgrade to LED light without complication.
| **Certification** | ATEX and IECEx rated for Zone 1 Gas and Dust ATEX and IECEx rated for Zone 1 Gas and Dust ATEX and IECEx rated for Zone 1 Gas and Dust ABS Approved ATEX and IECEx rated for Zone 1 Gas and Dust ABS Approved ATEX and IECEx rated for Zone 1 Gas and Dust ABS Approved | ATEX and IECEx rated for Zone 1 Gas and Dust ATEX and IECEx rated for Zone 1 Gas and Dust ATEX and IECEx rated for Zone 1 Gas and Dust ABS Approved ATEX and IECEx rated for Zone 1 Gas and Dust ABS Approved ATEX and IECEx rated for Zone 1 Gas and Dust ABS Approved | ATEX and IECEx rated for Zone 1 Gas and Dust ATEX and IECEx rated for Zone 1 Gas and Dust ATEX and IECEx rated for Zone 1 Gas and Dust ABS Approved ATEX and IECEx rated for Zone 1 Gas and Dust ABS Approved ATEX and IECEx rated for Zone 1 Gas and Dust ABS Approved |
| **Beam Angles** | 120°, Equivalent to 2 x 58W T8 Fluorescent | 120°, Equivalent to 2 x 36W T8 Fluorescent | 120°, Equivalent to 2 x 36W T8 Fluorescent | 120°, Equivalent to 2 x 36W T8 Fluorescent | 120°, Equivalent to 2 x 36W T8 Fluorescent |
| **Consumption** | 68W | 68W | 71W | 68W | 68W |
| **LED type** | Platinum Elite SMT LEDs | Platinum Elite SMT LEDs | Platinum Elite SMT LEDs | Platinum Elite SMT LEDs | Platinum Elite SMT LEDs |
| **Number of LEDs** | 168 | 168 | 168 | 168 | 168 |
| **Power output (luminous flux)** | Up to 5,000 lm, Equivalent to 2 x 58W T8 Fluorescent | Up to 5,000 lm, Equivalent to 2 x 58W T8 Fluorescent | Up to 5,000 lm, Equivalent to 2 x 58W T8 Fluorescent | Up to 5,000 lm, Equivalent to 2 x 58W T8 Fluorescent | Up to 5,000 lm, Equivalent to 2 x 58W T8 Fluorescent |
| **Wavelength** | White-Light | White-Light | White-Light | White-Light | White-Light |
| **Temperature Range** | -40°C to +55°C (-40°F to +131°F) | -40°C to +55°C (-40°F to +131°F) | -30°C to +50°C (-2°F to +122°F) | -40°C to +55°C (-40°F to +131°F) | -40°C to +55°C (-40°F to +131°F) |
| **Colour Temperature (White-Light)** | 6,000K+ | 6,000K+ | 6,000K+ | 6,000K+ | 6,000K+ |
| **Colour** | Silver (RAL 9006) | Silver (RAL 9006) | Silver (RAL 9006) | Silver (RAL 9006) | Silver (RAL 9006) Emergency Cover - Red (RAL 3024) |
| **Weight** | 9kg (19.8lbs) | 9kg (19.8lbs) | 10kg (22lbs) | 9kg (19.8lbs) | 9kg (19.8lbs) |
| **Dimensions** | 1635 x 108 x 174mm (64.4 x 4.3 x 6.9") | 1295 x 108 x 174mm (51 x 4.3 x 6.9") | 1414 x 108 x 174mm (55.7 x4.3 x 6.9") | 1635 x 108 x 174mm (64.4 x 4.3 x 6.9") | 1295 x 108 x 174mm (51 x 4.3 x 6.9") |
| **Additional Features** | CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system Photocell (optional) T4, T5 and T6 variants (T4 as standard) | CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system Photocell (optional) T4, T5 and T6 variants (T4 as standard) | CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system Photocell (optional) T4, T5 and T6 variants (T4 as standard) | CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system Photocell (optional) T4, T5 and T6 variants (T4 as standard) | CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system Photocell (optional) T4, T5 and T6 variants (T4 as standard) |

**Intelligent Emergency Battery Back-up**

| Battery | NiCd 12V |
| Duration | Up to 3hrs @ 25% power Other options available |
| Charge Time | 20 hours |
| Additional Features | Automatic self-testing |
| Part Codes | SPXWL168-1500 | SPXWL168 | SPXWL168-EMX25 |

---

**ZONE 1**

*Industrial variants available - see website*
### Certifications
- ATEX and IECEx rated for Zone 1 Gas and Dust
- ABS Approved

### Beam Angles
120°, Equivalent to 2 x 36W T8 Fluorescent

### Input
- 110-254V 50/60Hz AC/DC
- Low voltage: 18-48V AC and 18-69V DC
- Extra low voltage: 12V AC/DC

### Consumption
- 34W

### LED type
- Platinum Elite SMT LEDs

### Number of LEDs
84

### Power output (luminous flux)
Up to 2,500 lm, Equivalent to 2 x 36W T8 Fluorescent

### Wavelength
- White-Light

### IP Rating
- IP66 and IP67

### Temperature Range
- -40°C to +55°C (-40°F to +131°F)

### Colour Temperature (White-Light)
- 6,000K+

### Colour
- Silver (RAL 9006)

### Weight
- 6kg (13.2lbs)

### Dimensions
- 1295 x 108 x 174mm (51 x 4.3 x 6.9")

### Additional Features
- CoolExtrude ™ Thermal Management
- Removable PSU and LED Modules
- Smart access wiring system
- Photocell (optional)
- T4, T5 and T6 variants (T4 as standard)

### Intelligent Emergency Battery Back-up
- Battery: Ni/Cd 12V
- Duration: Up to 3hrs @ 25% power
- Charge Time: 20 hours
- Additional Features: Automatic self-testing

### Part Codes
- SPXWL84-1200
- SPXWL84-1200-EMX25
- SPXWL84
- SPXWL84-EMX25
## Certification
- ATEX and IECEx rated for Zone 2 Gas and Dust
- C1D2 and ABS

## Beam Angles
- 120°, Equivalent to 2 x 58W T8 Fluorescent

## Input
- 110-254V 50/60Hz AC/DC
- Low voltage: 18-48V AC and 18-69V DC
- Extra low voltage: 12V AC/DC

## Consumption
- LED type: Platinum Elite SMT LEDs
- Number of LEDs: 168
- Power output (luminous flux): Up to 6,800 lm, Equivalent to 2 x 58W T8 Fluorescent
- Wavelength: White-Light
- IP Rating: IP66 and IP67
- Temperature Range: -40°C to +60°C (-4°F to +140°F)
- Colour Temperature (White-Light): 6,000K+
- Colour: Dark Grey (RAL 7012)
- Weight: 9kg (19.8lbs)
- Dimensions: 1635 x 108 x 174mm (64.4 x 4.3 x 6.9”)

## Additional Features
- CoolExtrude™ Thermal Management
- Removable PSU and LED Modules
- Smart access wiring system
- Photocell (optional)
- Part Codes:
  - SPZ-WL168-1500
  - SPZ-WL168
  - SPZ-WL168-EMX25

---

### Intelligent Emergency Battery Back-up

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>Battery</td>
<td>Ni/Cd 12V</td>
</tr>
<tr>
<td>Duration</td>
<td>Up to 3hrs @ 25% power Other options available</td>
</tr>
<tr>
<td>Charge Time</td>
<td>20 hours</td>
</tr>
<tr>
<td>Additional Features</td>
<td>Automatic self-testing</td>
</tr>
</tbody>
</table>

---

**ZONE 2**

Industrial variants available - see website
### Certification
- ATEX and IECEx rated for Zone 2 Gas and Dust C1D2 and AEx Approved
- 110-254V 50/60Hz AC/DC Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC
- ATEX and IECEx rated for Zone 2 Gas and Dust C1D2 and AEx Approved
- 110-254V 50/60Hz AC/DC Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC

### Beam Angles
- 120°, Equivalent to 2 x 36W T8 Fluorescent

### Input
- 110-254V 50/60Hz AC/DC Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC
- 110-254V 50/60Hz AC only

### Consumption
- 34W
- 37W

### LED type
- Platinum Elite SMT LEDs

### Number of LEDs
- 84

### Power output (luminous flux)
- Up to 3,400 lm, Equivalent to 2 x 36W T8 Fluorescent
- Up to 3,400 lm, Equivalent to 2 x 18W T8 Fluorescent

### Wavelength
- White-Light

### IP Rating
- IP66 and IP67

### Temperature Range
- -40°C to +60°C (-40°F to +140°F)
- -20°C to +50°C (-4°F to +122°F)

### Colour Temperature (White-Light)
- 6,000K+

### Colour
- Dark Grey (RAL 7012)

### Weight
- 6kg (13.2lbs)
- 7kg (15.4lbs)

### Dimensions
- 1295 x 108 x 174mm (51 x 4.3 x 6.9”)
- 775x 108 x 174mm (30.5 x 4.3 x 6.9”)

### Additional Features
- CoolExtrude™ Thermal Management
- Removable PSU and LED Modules
- Smart access wiring system
- Photocell (optional)
- T4, T5 and T6 variants (T4 as standard)

### Intelligent Emergency Battery Back-up

#### Battery
- Ni/Cd 12V
- Ni/Cd 12V

#### Duration
- Up to 3hrs @ 25% power Other options available
- Up to 3hrs @ 25% power Other options available

#### Charge Time
- 20 hours
- 20 hours

#### Additional Features
- Automatic self-testing
- Automatic self-testing

#### Part Codes
- SPZ-WL84-1200
- SPZ-WL84-1200-EMX25
- SPZ-WL84
- SPZ-WL84-EMX25
Intelligent Emergency Back-Up

SPARTAN Bulkhead is available as an emergency variant, and standard variants can be converted to an emergency fitting at any time on-site, using an additional battery back-up module which can run up to 100% light output under emergency conditions. All SPARTAN Bulkhead emergency units come with intelligent battery management to proactively monitor and maintain the overall health of your luminaire.

LED Friendly

SPARTAN Bulkhead uses CoolExtrude™ thermal management technology, ensuring a much cooler LED operating temperature. This provides up to 60% better heat dissipation compared to traditional lighting solutions and allows the product to operate for 10+ years in the most challenging environments.

Wide Operating Temperature

An operating temperature range of -50°C to +46°C* with a T4/T5 rating means SPARTAN Bulkhead is suitable for even the most challenging conditions.

* Emergency variants have an operating temperature of -20°C to +46°C

Compact

SPARTAN Bulkhead has a compact, low profile design for restricted space applications. It also allows easy access to the back of the unit with rear cable entries, so cabling can be hidden and protected from damage.

Robust

Housed in marine grade aluminium with stainless steel fasteners and brackets, SPARTAN Bulkhead is IP66 and IP67 rated and can survive in the most extreme environments.
## Certification
- ATEX and IEC Ex rated for Zone 1 Gas and Dust
- ATEX and IEC Ex rated for Zone 1 Gas and Dust
- ATEX and IEC Ex rated for Zone 2 Gas and Dust
- ATEX and IEC Ex rated for Zone 2 Gas and Dust
- C1D2 and ABS Approved
- C1D2 and ABS Approved
- C1D2 and ABS Approved
- C1D2 and ABS Approved

## Beam Angles
- 10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular)
- 35° x 10° / 60 x 25° / 80° x 30° and 120° x 90° (elliptical)
- 10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular)
- 35° x 10° / 60 x 25° / 80° x 30° and 120° x 90° (elliptical)
- 10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular)
- 35° x 10° / 60 x 25° / 80° x 30° and 120° x 90° (elliptical)

## Input
- 110-254V 50/60Hz AC/DC
- Low voltage: 18-48V AC and 18-69V DC
- Extra low voltage: 12V AC/DC
- 110-254V 50/60Hz AC only
- Low voltage: 18-48V AC and 18-69V DC
- Extra low voltage: 12V AC/DC

## Consumption
- 34W
- 37W
- 34W
- 37W

## LED type
- Platinum Elite SMT LEDs
- Platinum Elite SMT LEDs
- Platinum Elite SMT LEDs
- Platinum Elite SMT LEDs

## Number of LEDs
- 24
- 24
- 24
- 24

## Power output (luminous flux)
- Up to 2,500 lm - circular beam patterns
- Up to 2,500 lm - elliptical beam patterns
- Up to 2,500 lm - circular beam patterns
- Up to 2,500 lm - elliptical beam patterns
- Up to 2,750 lm - circular beam patterns
- Up to 2,750 lm - elliptical beam patterns

## Wavelength
- White-Light (also available in Infra-Red)
- White-Light (also available in Infra-Red)
- White-Light (also available in Infra-Red)
- White-Light (also available in Infra-Red)

## IP Rating
- IP66 and IP67
- IP66 and IP67
- IP66 and IP67
- IP66 and IP67

## Colour Temperature (White-Light)
- 6,000K+
- 6,500K+
- 6,000K+
- 6,000K+

## Colour
- Silver (RAL 9006)
- Silver (RAL 9006)
- Dark Grey (RAL 7012)
- Dark Grey (RAL 7012)

## Weight
- 6kg (13.2lbs)
- 6kg (13.2lbs)
- 6kg (13.2lbs)
- 6kg (13.2lbs)

## Dimensions
- 288 x 220 x 122mm (11.3 x 8.7 x 4.8")
- 288 x 220 x 122mm (11.3 x 8.7 x 4.8")
- 288 x 220 x 122mm (11.3 x 8.7 x 4.8")
- 288 x 220 x 122mm (11.3 x 8.7 x 4.8")

## Additional Features
- CoolExtrude™ Thermal Management
- Removable PSU and LED modules
- Smart access wiring system
- Photocell (optional)
- T4 and T5 Variants (T4 as standard)
- CoolExtrude™ Thermal Management
- Removable PSU and LED modules
- Smart access wiring system
- Photocell (optional)
- T4 and T5 Variants (T4 as standard)
- CoolExtrude™ Thermal Management
- Removable PSU and LED modules
- Smart access wiring system
- Photocell (optional)
- T4 and T5 Variants (T4 as standard)

## Intelligent Emergency Battery Back-up
- Battery: 2.5 Ah
- Duration: Up to 3hrs @ 25% power
- Charge Time: 20 hours
- Additional Features: Automatic self-testing

## Part Codes
### Circular beam pattern
- SPX-BL24-W-1010 / SPX-BL24-W-3030
- SPX-BL24-W-5050 / SPX-BL24-W-120120
- SPX-BL24-W-1010-EMX25 / SPX-BL24-W-3030-EMX25
- SPX-BL24-W-5050-EMX25 / SPX-BL24-W-120121-EMX25

### Elliptical beam pattern
- SPX-BL24-W-3510 / SPX-BL24-W-6025
- SPX-BL24-W-8030 / SPX-BL24-W-12050
- SPX-BL24-W-3510-EMX25 / SPX-BL24-W-6025-EMX25
- SPX-BL24-W-8030-EMX25 / SPX-BL24-W-12051-EMX25
Ultra-Powerful

SPARTAN Crane integrates the latest high power LEDs with Raytec’s field proven LED management and optic technology. This delivers a high lumen output of up to 10,000 lumens even during emergency operation when running off the integral battery.

Vibration Resistant

SPARTAN Crane uses high performance surface mount LEDs that are encapsulated in a silicone rubber compound. All power electronics in SPARTAN Crane are also encapsulated. The result is an outstanding resistance to vibration for the most demanding applications.

Self-Levelling

A stainless steel rotary damper ensures SPARTAN Crane always illuminates the area directly below the crane and prevents the luminaire swinging as the crane boom moves up and down.

LED Friendly

SPARTAN Crane uses CoolExtrude™ thermal management technology, ensuring a much cooler LED operating temperature. This provides up to 60% better heat dissipation compared to traditional lighting solutions and allows the product to operate for 10+ years in the most challenging environments.
<table>
<thead>
<tr>
<th>Certification</th>
<th>ATEX and IEC Ex rated for Zone 1 Gas and Dust</th>
<th>ATEX and IEC Ex rated for Zone 2 Gas and Dust</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ABS Approved</td>
<td>C1D2 and ABS Approved</td>
</tr>
<tr>
<td>Beam Angles</td>
<td>10° x 10° (circular)</td>
<td>10° x 10° (circular)</td>
</tr>
<tr>
<td>Input</td>
<td>110-254V 50/60Hz AC/DC</td>
<td>110-254V 50/60Hz AC/DC</td>
</tr>
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<td></td>
<td>Low voltage: 18-48V AC and 18-69V DC</td>
<td>Low voltage: 18-48V AC and 18-69V DC</td>
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<tr>
<td></td>
<td>Extra low voltage: 12V AC/DC</td>
<td>Extra low voltage: 12V AC/DC</td>
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<tr>
<td>Consumption</td>
<td>136W</td>
<td>136W</td>
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<tr>
<td>LED type</td>
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<td>Platinum Elite SMT LEDs</td>
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<td>48</td>
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<td>Power output</td>
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<td>Up to 11,000 lm - circular beam patterns</td>
</tr>
<tr>
<td></td>
<td>Up to 9,000 lm - elliptical beam patterns</td>
<td>Up to 10,000 lm - elliptical beam patterns</td>
</tr>
<tr>
<td>Wavelength</td>
<td>White-Light</td>
<td>White-Light</td>
</tr>
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<td>IP Rating</td>
<td>IP66 &amp; IP67</td>
<td>IP66 &amp; IP67</td>
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<td>Colour Temperature</td>
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<td>6,000K+</td>
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<tr>
<td>Colour</td>
<td>Silver (RAL 9006)</td>
<td>Front - Dark Grey (RAL 7012)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Back - Silver (RAL 9006)</td>
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<tr>
<td>Weight</td>
<td>25kg (55.1lbs)</td>
<td>25kg (55.1lbs)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>312 x 375 x 467mm (12.3 x 14.8 x 13.5&quot;)</td>
<td>312 x 375 x 467mm (12.3 x 14.8 x 13.5&quot;)</td>
</tr>
<tr>
<td>Additional Features</td>
<td>Stainless steel rotary damper</td>
<td>Stainless steel rotary damper</td>
</tr>
<tr>
<td></td>
<td>2 x retention points for suspension cord</td>
<td>2 x retention points for suspension cord</td>
</tr>
<tr>
<td></td>
<td>CoolEtruded™ Thermal Management</td>
<td>CoolEtruded™ Thermal Management</td>
</tr>
<tr>
<td></td>
<td>Stainless steel rotary damper</td>
<td>Stainless steel rotary damper</td>
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<tr>
<td></td>
<td>2 x retention points for suspension cord</td>
<td>2 x retention points for suspension cord</td>
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<tr>
<td></td>
<td>Removable PSU and LED modules</td>
<td>Removable PSU and LED modules</td>
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<tr>
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<td>SMART access wiring system</td>
<td>SMART access wiring system</td>
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<tr>
<td></td>
<td>T4, T5 and T6 Variants (T4 as standard)</td>
<td>T4, T5 and T6 Variants (T4 as standard)</td>
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<tr>
<td>Part Codes</td>
<td>SPX-FL48C-W-1010</td>
<td>SPZ-FL48C-W-1010</td>
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</tbody>
</table>

Industrial variants available - see website
Ultra Powerful

SPARTAN Bay is designed for very large and high hazardous areas which require powerful ceiling mounted White-Light illumination. SPARTAN Bay integrates the latest high power LEDs with Raytec’s field proven LED management and optic technology, delivering a high lumen output of up to 25,000 lumens.

LED Friendly

SPARTAN Bay uses CoolExtrude™ thermal management technology, ensuring a much cooler LED operating temperature. This provides up to 60% better heat dissipation compared to traditional lighting solutions and allows the product to operate for 10+ years in the most challenging environments.

Intelligent Driver

SPARTAN Bay features an intelligent and fully programmable DALI enabled driver for seamless integration into your existing lighting infrastructure.

Flexible Installation And Easy Maintenance

The modular design allows great flexibility – the entire PSU chassis can be removed and located remotely at ground level for areas with difficult access. Additionally, the individual PSU modules can be easily accessed and replaced making servicing and inspection of all key components quicker and easier.
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<thead>
<tr>
<th>Certification</th>
<th>ATEX and IEC Ex rated for Zone 1 Gas and Dust ABS Approved</th>
<th>ATEX and IEC Ex rated for Zone 1 Gas and Dust ABS Approved</th>
<th>ATEX and IEC Ex rated for Zone 1 Gas and Dust ABS Approved</th>
<th>ATEX and IEC Ex rated for Zone 1 Gas and Dust ABS Approved</th>
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</thead>
<tbody>
<tr>
<td>Angles</td>
<td>30° x 30° / 60° x 60° and 90° 90° (circular)</td>
<td>30° x 30° / 60° x 60° and 90° 90° (circular)</td>
<td>30° x 30° / 60° x 60° and 90° 90° (circular)</td>
<td>30° x 30° / 60° x 60° and 90° 90° (circular)</td>
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<tr>
<td>Input</td>
<td>150-264V 50/60Hz AC/DC</td>
<td>150-264V 50/60Hz AC/DC</td>
<td>150-264V 50/60Hz AC/DC</td>
<td>150-264V 50/60Hz AC/DC</td>
</tr>
<tr>
<td>Beam Shape</td>
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</tr>
<tr>
<td>Beam Angle System</td>
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<td>Fixed</td>
<td>Fixed</td>
<td>Fixed</td>
</tr>
<tr>
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</tr>
<tr>
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<td>Platinum Elite Multi-Core SMT LEDs</td>
<td>Platinum Elite Multi-Core SMT LEDs</td>
<td>Platinum Elite Multi-Core SMT LEDs</td>
</tr>
<tr>
<td>Number of LEDs</td>
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<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Power output (luminous flux)</td>
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<td>20,000 lm</td>
<td>15,000 lm</td>
<td>10,000 lm</td>
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<td>Wavelength</td>
<td>White-Light</td>
<td>White-Light</td>
<td>White-Light</td>
<td>White-Light</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-50°C to +50°C (-58°F to 122°F)</td>
<td>-50°C to +50°C (-58°F to 122°F)</td>
<td>-50°C to +50°C (-58°F to 122°F)</td>
<td>-50°C to +50°C (-58°F to 122°F)</td>
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<tr>
<td>Colour Temperature (White-Light)</td>
<td>5,000K</td>
<td>5,000K</td>
<td>5,000K</td>
<td>5,000K</td>
</tr>
<tr>
<td>Colour (RAL 9006)</td>
<td>Silver (RAL 9006)</td>
<td>Silver (RAL 9006)</td>
<td>Silver (RAL 9006)</td>
<td>Silver (RAL 9006)</td>
</tr>
<tr>
<td>Weight</td>
<td>22.7kg (50lbs)</td>
<td>22.7kg (50lbs)</td>
<td>22.7kg (50lbs)</td>
<td>21kg (46.3lbs)</td>
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<tr>
<td>Dimensions</td>
<td>536 x 425 x 172mm (21.1 x 16.6 x 6.8&quot;)</td>
<td>536 x 425 x 172mm (21.1 x 16.6 x 6.8&quot;)</td>
<td>536 x 422 x 172mm (21.1 x 16.6 x 6.8&quot;)</td>
<td>536 x 422 x 172mm (21.1 x 16.6 x 6.8&quot;)</td>
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<tr>
<td>Additional Features</td>
<td>CoolExtrude™ Thermal Management Removable PSU and LED modules DALI Dimming as Standard SMART access wiring system T4 Rating</td>
<td>CoolExtrude™ Thermal Management Removable PSU and LED modules DALI Dimming as Standard SMART access wiring system T4 Rating</td>
<td>CoolExtrude™ Thermal Management Removable PSU and LED modules DALI Dimming as Standard SMART access wiring system T4 Rating</td>
<td>CoolExtrude™ Thermal Management Removable PSU and LED modules DALI Dimming as Standard SMART access wiring system T4 Rating</td>
</tr>
</tbody>
</table>
### Certification
ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS

### Beam Angles
- Circular: 30° x 30° / 60° x 60° and 90° x 90° (circular)
- Circular: 30° x 30° / 60° x 60° and 90° x 90° (circular)
- Circular: 30° x 30° / 60° x 60° and 90° x 90° (circular)
- Circular: 30° x 30° / 60° x 60° and 90° x 90° (circular)

### Input
- 150-264V 50/60Hz AC/DC
- C1D2 variants - 120-277V AC/DC

### Beam Shape
- Circular
- Circular
- Circular
- Circular

### Beam Angle System
- Fixed
- Fixed
- Fixed
- Fixed

### Consumption
- LED type: Platinum Elite Multi-Core SMT LEDs
- Power output: 2500W
- Number of LEDs: 24
- Power output (luminous flux): 20000 lm
- Wavelength: White-Light
- IP Rating: IP66 & IP67
- Temperature Range: -50°C to +50°C (-58°F to 122°F)
- Colour Temperature (White-Light): 5000K
- Weight: 22.7kg (50Ibs)
- Dimensions: 536 x 422 x 172mm (21.1 x 16.6 x 6.8"

### Additional Features
- CoolExtrude™ Thermal Management
- Removable PSU and LED modules
- DALIDimming as Standard SMART access wiring system
- T4 Rating

### Part Codes

Industrial variants available - see website
<table>
<thead>
<tr>
<th>Accessories</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand Blast Shield Kit</td>
<td>Flood/Bulkhead</td>
</tr>
<tr>
<td>Ceiling Mount Kit</td>
<td>Linear</td>
</tr>
<tr>
<td>Suspension Cord Kit</td>
<td>Flood/Linear/Bulkhead</td>
</tr>
<tr>
<td>Swivel Bracket Mounting Kit</td>
<td>Linear/Bulkhead</td>
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<tr>
<td>Pole Clamp Kit</td>
<td>Linear</td>
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<tr>
<td>M8 Eye Bolt Kit</td>
<td>Flood/Linear</td>
</tr>
<tr>
<td>Magnetic Mounting Kit</td>
<td>Linear</td>
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<tr>
<td>Front Guard</td>
<td>Flood/Bulkhead/High Power Flood</td>
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<tr>
<td>Anti-Static Polycarbonate Lens</td>
<td>Linear</td>
</tr>
<tr>
<td>Emergency Exit Sign</td>
<td>Bulkhead</td>
</tr>
<tr>
<td>Protective Film</td>
<td>Flood/Linear/Bulkhead</td>
</tr>
<tr>
<td>Pole Mounting Kit</td>
<td>Flood</td>
</tr>
<tr>
<td>Wildlife Friendly</td>
<td>Safety Shower</td>
</tr>
<tr>
<td>------------------</td>
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</tr>
<tr>
<td>Infra-Red</td>
<td>Heavy Industrial</td>
</tr>
<tr>
<td>Spigot Mount</td>
<td>IIB/ IIB + H2 Applications</td>
</tr>
</tbody>
</table>
Energy and Cost Saving Report

Provides a customer specific survey to summarise energy, CO2 savings and ROI. Cost savings can be shown over 1, 5 and 10 years.

Special Operations Division

Our specialist team can offer custom-built product design tailored for bespoke projects and challenging applications. Give us a call!
Hazardous Area LED Lighting with Worldwide Certification

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