

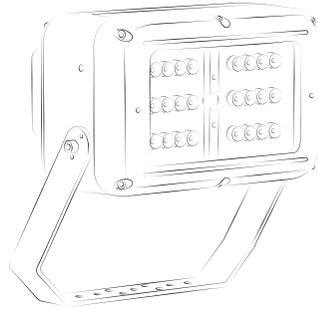


PRODUCT OVERVIEW



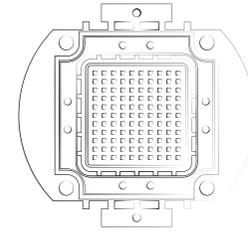
Hazardous Area Luminaires

New Mid-Power Floodlight



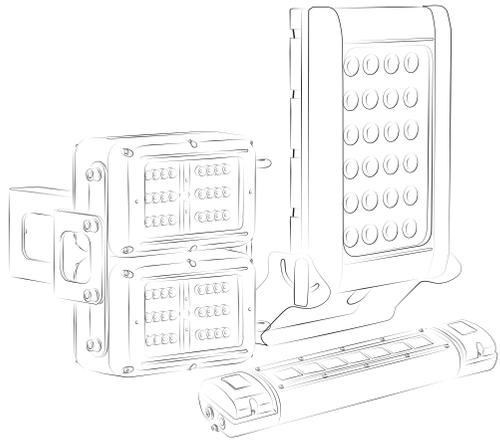
UK Designed and Manufactured

All Raytec hazardous area products are designed and manufactured in the UK and are ATEX, IEC Ex and UKEX 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.



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.



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.

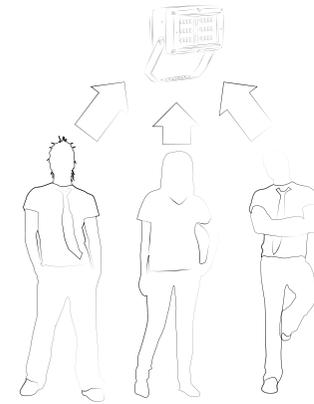
rayTEC®



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.



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.

FLOOD

Zone 1 6-9

Zone 2 / C1D2 10-13

LINEAR

Zone 1 16-17

Zone 2 / C1D2 18-19

BULKHEAD

Zone 1 21

Zone 2 / C1D2 21

CRANE

Zone 1 23

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BAY

Zone 1 25-26

Zone 2 / C1D2 27-28

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DESIGN SERVICES

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SPARTAN FLOOD



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.

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 -40°C to +60°C* with a T4/T5/T6* rating means SPARTAN Flood is suitable for even the most challenging conditions.

Multiple Beam Patterns

SPARTAN Flood is available with a variety of different beam patterns, both circular and elliptical*, ensuring light can be targeted where it's needed most.

LED Friendly

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.



SPARTAN
HIGH POWER FLOOD HPFL25K



SPARTAN
HIGH POWER FLOOD HPFL20K



SPARTAN
MID POWER FLOOD MPFL15K



SPARTAN
MID POWER FLOOD MPFL12.5K

Certification	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust
Beam Angles	30° x 30° / 60° x 60° / 90° x 90°	30° x 30° / 60° x 60° / 90° x 90°	30° x 30° / 60° x 60° / 90° x 90°	30° x 30° / 60° x 60° / 90° x 90°
Input	150-264V 50/60Hz AC/DC 110V variant available - contact Raytec	150-264V 50/60Hz AC/DC 110V variant available - contact Raytec	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only
Beam Shape	Circular	Circular	Circular	Circular
Beam Angle System	Fixed	Fixed	Fixed	Fixed
Consumption	300W	240W	120W	100W
LED type	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs
Number of LEDs	24	24	48	48
Power output (luminous flux)	25,000 lm	20,000 lm	14,265 lm	11,981 lm
Wavelength	White-Light	White-Light	White-Light	White-Light
IP Rating	IP66	IP66	IP66 & IP67	IP66 & IP67
Temperature Range	-50°C to +50°C (-58°F to +122°F)	-50°C to +50°C (-58°F to +122°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)
Colour Temperature (White-Light)	5,700K	5,700K	5,700K	5,700K
Colour	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)
Weight	23.5kg (51.8lbs)	23.5kg (51.8lbs)	13.2kg (29.1lbs)	13.2kg (29.1lbs)
Dimensions	639 x 350 x 215mm (25.2 x 13.8 x 8.5")	639 x 350 x 215mm (25.2 x 13.8 x 8.5")	350 x 609 x 109mm (13.9 x 24 x 4.3")	350 x 609 x 109mm (13.9 x 24 x 4.3")
Additional Features	CoolExtrude™ Thermal Management Removable PSU and LED modules DALI/Dimming as Standard SMART access wiring system T4 Rating	CoolExtrude™ Thermal Management Removable PSU and LED modules DALI/Dimming as Standard SMART access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating

Emergency Battery Back-up

Battery				
Duration				
Charge Time				
Additional Features				

Part Codes

Circular beam pattern	SPX-HPFL25K-W-3030 / SPX-HPFL25K-W-6060 / SPX-HPFL25K-W-9090	SPX-HPFL20K-W-3030 / SPX-HPFL20K-W-6060 / SPX-HPFL20K-W-9090	SPX-MPFL15K-W-3030 / SPX-MPFL15K-W-6060 / SPX-MPFL15K-W-9090	SPX-MPFL12K5-W-3030 / SPX-MPFL12K5-W-6060 / SPX-MPFL12K5-W-9090
Elliptical beam pattern				



SPARTAN
MID POWER FLOOD MPFL10K



SPARTAN
MID POWER FLOOD MPFL7.5K



SPARTAN
MID POWER FLOOD MPFL5K

Certification	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust
Beam Angles	30° x 30° / 60° x 60° / 90° x 90°	30° x 30° / 60° x 60° / 90° x 90°	30° x 30° / 60° x 60° / 90° x 90°
Input	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only
Beam Shape	Circular	Circular	Circular
Beam Angle System	Fixed	Fixed	Fixed
Consumption	80W	60W	40W
LED type	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs
Number of LEDS	48	24	24
Power output (luminous flux)	9,585 lm	7,152 lm	4,792 lm
Wavelength	White-Light	White-Light	White-Light
IP Rating	IP66 & IP67	IP66 & IP67	IP66 & IP67
Temperature Range	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)
Colour Temperature (White-Light)	5,700K	5,700K	5,700K
Colour	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)
Weight	13.2kg (29.1lbs)	13.2kg (29.1lbs)	13.2kg (29.1lbs)
Dimensions	350 x 609 x 109mm (13.9 x 24 x 4.3")	350 x 609 x 109mm (13.9 x 24 x 4.3")	350 x 609 x 109mm (13.9 x 24 x 4.3")
Additional Features	Removable PSU and LED modules SMART front access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating
Emergency Battery Back-up			
Battery			
Duration			
Charge Time			
Additional Features			
Part Codes			
Circular beam pattern	SPX-MPFL10K-W-3030 / SPX-MPFL10K-W-6060 / SPX-MPFL10K-W-9090	SPX-MPFL7K5-W-3030 / SPX-MPFL7K5-W-6060 / SPX-MPFL7K5-W-9090	SPX-MPFL5K-W-3030 / SPX-MPFL5K-W-6060 / SPX-MPFL5K-W-9090
Elliptical beam pattern			



**SPARTAN
FLOOD FL48**



**SPARTAN
FLOOD FL48 Emergency**

Certification	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust
Beam Angles	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)
Input	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC	110-254V 50/60Hz AC only
Beam Shape	Elliptical or Circular	Elliptical or Circular
Beam Angle System	VARIO interchangeable lens system (elliptical) / Fixed (circular)	VARIO interchangeable lens system (elliptical) / Fixed (circular)
Consumption	136W	139W
LED type	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs
Number of LEDs	48	48
Power output (luminous flux)	Up to 16,900 lm – circular beam patterns Up to 15,900 lm – elliptical beam patterns (VARIO)	Up to 16,900 lm – circular beam patterns Up to 15,900 lm – elliptical beam patterns (VARIO)
Wavelength	White-Light (also available in Infra-Red)	White-Light (also available in Infra-Red)
IP Rating	IP66 & IP67	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+	6,000K+
Colour	Silver (RAL 9006)	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 Removeable PSU and LED modules Retention point for suspension cord SMART access wiring system T4, T5 and T6 Variants (T4 as standard)	Cool Extrude™ Thermal Management Removeable 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 25% power (1x battery unit) Other options available
Charge Time		20 hours
Additional Features		
Part Codes		
Circular beam pattern	SPX-FL48-W-1010 / SPX-FL48-W-3030 SPX-FL48-W-5050 / SPX-FL48-W-120120	SPX-FL48-W-1010-EM25 / SPX-FL48-W-3030-EM25 SPX-FL48-W-5050-EM25 / SPX-FL48-W-120120-EM25
Elliptical beam pattern	SPX-FL48-W-3510 / SPX-FL48-W-6025 SPX-FL48-W-8030 / SPX-FL48-W-12050	SPX-FL48-W-3510-EM25 / SPX-FL48-W-6025-EM25 SPX-FL48-W-8030-EM25 / SPX-FL48-W-12050-EM25



Certification	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust
Beam Angles	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)
Input	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC	110-254V 50/60Hz AC only	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC	110-254V 50/60Hz AC only
Beam Shape	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular
Beam Angle System	VARIO interchangeable lens system (elliptical) / Fixed (circular)	VARIO interchangeable lens system (elliptical) / Fixed (circular)	VARIO interchangeable lens system (elliptical) / Fixed (circular)	VARIO interchangeable lens system (elliptical) / Fixed (circular)
Consumption	68W	71W	BL24-HO - 34W BL24 - 20W	BL24-HO - 37W BL24 - 24W
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 8,450 lm – circular beam patterns Up to 8,200 lm – elliptical beam patterns (VARIO)	Up to 8,450 lm – circular beam patterns Up to 8,200 lm – elliptical beam patterns (VARIO)	BL24-HO - 4,250 lm – circular beam patterns 4,000 lm – elliptical beam patterns (VARIO) BL24 - 2,500 lm – circular beam patterns 2,250 lm – elliptical beam patterns (VARIO)	BL24-HO-EMX25 - 4,250 lm – circular beam patterns 4,000 lm – elliptical beam patterns (VARIO) BL24-EMX25 - 2,500 lm – circular beam patterns 2,250 lm – elliptical beam patterns (VARIO)
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 & IP67	IP66 & IP67	IP66 & IP67	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)	-20°C to +46°C (-4°F to +114°F)
Colour Temperature (White-Light)	6,000K+	6,000K+	6,000K+	6,000K+
Colour	Silver (RAL 9006)	Silver (RAL 9006) Emergency Cover - Red (RAL 3024)	Silver (RAL 9006)	Silver (RAL 9006)
Weight	8kg (17.6lbs)	10kg (22lbs)	5kg (11.0lbs)	6kg (13.2lbs)
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")	289 x 183 x 232mm (11.4 x 7.2 x 9.1")	289 x 183 x 232mm (11.4 x 7.2 x 9.1")
Additional Features	Cool Extrude™ Thermal Management Removeable PSU and LED modules Retention point for suspension cord SMART access wiring system T4, T5 and T6 Variants (T4 as standard)	Cool Extrude™ Thermal Management Removeable PSU and LED modules Retention point for suspension cord T4, T5 and T6 Variants (T4 as standard)	CoolExtrude™ Thermal Management Removeable PSU and LED modules Smart access wiring system T4 and T5 Variants (T4 as standard)	CoolExtrude™ Thermal Management Removeable PSU and LED modules Smart access wiring system T4 and T5 Variants (T4 as standard)

Emergency Battery Back-up

Battery		Ni/Cd 12V 4.5Ah		NiCd 12V 2.5Ah
Duration		Up to 90mins at 50% power (1x battery unit) Other options available		Up to 3hrs @ 25% power Other options available
Charge Time		20 hours		20 hours
Additional Features				Automatic self-testing

Part Codes

Circular beam pattern	SPX-FL24-W-1010 / SPX-FL24-W-3030 SPX-FL24-W-5050 / SPX-FL24-W-120120	SPX-FL24-W-1010-EM50 / SPX-FL24-W-3030-EM50 SPX-FL24-W-5050-EM50 / SPX-FL24-W-120120-EM50	SPX-BL24-W-1010-SB30 / SPX-BL24-W-3030-SB30 SPX-BL24-W-5050-SB30 / SPX-BL24-W-120120-SB30	SPX-BL24-W-1010-EMX25-SB30 / SPX-BL24-W-3030-EMX25-SB30 SPX-BL24-W-5050-EMX25-SB30 / SPX-BL24-W-120120-EMX25-SB30
Elliptical beam pattern	SPX-FL24-W-3510 / SPX-FL24-W-6025 SPX-FL24-W-8030 / SPX-FL24-W-12050	SPX-FL24-W-3510-EM50 / SPX-FL24-W-6025-EM50 SPX-FL24-W-8030-EM50 / SPX-FL24-W-12050-EM50	SPX-BL24-W-3510-SB30 / SPX-BL24-W-6025-SB30 SPX-BL24-W-8030-SB30 / SPX-BL24-W-12050-SB30	SPX-BL24-W-3510-EMX25-SB30 / SPX-BL24-W-6025-EMX25-SB30 SPX-BL24-W-8030-EMX25-SB30 / SPX-BL24-W-12050-EMX25-SB30

*SPARTAN Flood BL24 High Output version available, contact Raytec for details



SPARTAN
HIGH POWER FLOOD HPFL25K



SPARTAN
HIGH POWER FLOOD HPFL20K



SPARTAN
MID POWER FLOOD MPFL15K



SPARTAN
MID POWER FLOOD MPFL12.5K

Certification	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust
Beam Angles	30° x 30° / 60° x 60° / 90° x 90°	30° x 30° / 60° x 60° / 90° x 90°	10° x 10° / 30° x 30° / 60° x 60° / 90° x 90° (circular) 120° x 15° (elliptical)	30° x 30° / 60° x 60° / 90° x 90° 10° x 10° / 120° x 15°
Input	150-264V 50/60Hz AC only C1D2 variants - 120-277V AC/DC	150-264V 50/60Hz AC only C1D2 variants - 120-277V AC/DC	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only
Beam Shape	Circular	Circular	Circular & Elliptical	Circular & Elliptical
Beam Angle System	Fixed	Fixed	Fixed	Fixed
Consumption	300W	240W	120W	100W
LED type	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs
Number of LEDs	24	24	48	48
Power output (luminous flux)	25,000 lm	20,000 lm	15,325 lm	12,873 lm
Wavelength	White-Light	White-Light	White-Light	White-Light
IP Rating	IP66	IP66	IP66 & IP67	IP66 & IP67
Temperature Range	-50°C to +50°C (-58°F to +122°F)	-50°C to +50°C (-58°F to +122°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)
Colour Temperature (White-Light)	5,700K	5,700K	5,700K	5,700K
Colour	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)
Weight	23.5kg (51.8lbs)	23.5kg (51.8lbs)	13.2kg (29.1lbs)	13.2kg (29.1lbs)
Dimensions	639 x 350 x 215mm (25.2 x 13.8 x 8.5")	639 x 350 x 215mm (25.2 x 13.8 x 8.5")	350 x 609 x 109mm (13.9 x 24 x 4.3")	350 x 609 x 109mm (13.9 x 24 x 4.3")
Additional Features	CoolExtrude™ Thermal Management Removable PSU and LED modules DALI/Dimming as Standard SMART access wiring system T4 Rating	CoolExtrude™ Thermal Management Removable PSU and LED modules DALI/Dimming as Standard SMART access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating

Emergency Battery Back-up

Battery				
Duration				
Charge Time				
Additional Features				

Part Codes

Circular beam pattern	SPZ-HPFL25K-W-3030 / SPZ-HPFL25K-W-6060 / SPZ-HPFL25K-W-9090	SPZ-HPFL20K-W-3030 / SPZ-HPFL20K-W-6060 / SPZ-HPFL20K-W-9090	SPZ-MPFL15K-W-1010 / SPZ-MPFL15K-W-3030 / SPZ-MPFL15K-W-6060 / SPZ-MPFL15K-W-9090	SPZ-MPFL12K5-W-1010 / SPZ-MPFL12K5-W-3030 / SPZ-MPFL12K5-W-6060 / SPZ-MPFL12K5-W-9090
Elliptical beam pattern			SPZ-MPFL15K-W-12015	SPZ-MPFL12K5-W-12015



SPARTAN
MID POWER FLOOD MPFL10K



SPARTAN
MID POWER FLOOD MPFL7.5K



SPARTAN
MID POWER FLOOD MPFL5K

Certification	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust
Beam Angles	10° x 10° / 30° x 30° / 60° x 60° / 90° x 90° (circular) 120° x 15° (elliptical)	10° x 10° / 30° x 30° / 60° x 60° / 90° x 90° (circular) 120° x 15° (elliptical)	10° x 10° / 30° x 30° / 60° x 60° / 90° x 90° (circular) 120° x 15° (elliptical)
Input	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only
Beam Shape	Circular & Elliptical	Circular & Elliptical	Circular & Elliptical
Beam Angle System	Fixed	Fixed	Fixed
Consumption	80W	60W	40W
LED type	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs
Number of LEDS	48	24	24
Power output (luminous flux)	10,298 lm	7,663 lm	5,149 lm
Wavelength	White-Light	White-Light	White-Light
IP Rating	IP66 & IP67	IP66 & IP67	IP66 & IP67
Temperature Range	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)
Colour Temperature (White-Light)	5,700K	5,700K	5,700K
Colour	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)
Weight	13.2kg (29.1lbs)	13.2kg (29.1lbs)	13.2kg (29.1lbs)
Dimensions	350 x 609 x 109mm (13.9 x 24 x 4.3")	350 x 609 x 109mm (13.9 x 24 x 4.3")	350 x 609 x 109mm (13.9 x 24 x 4.3")
Additional Features	Removable PSU and LED modules SMART front access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating
Emergency Battery Back-up			
Battery			
Duration			
Charge Time			
Additional Features			
Part Codes			
Circular beam pattern	SPZ-MPFL10K-W-1010 / SPZ-MPFL10K-W-3030 / SPZ-MPFL10K-W-6060 / SPZ-MPFL10K-W-9090	SPZ-MPFL7K5-W-1010 / SPZ-MPFL7K5-W-3030 / SPZ-MPFL7K5-W-6060 / SPZ-MPFL7K5-W-9090 /	SPZ-MPFL5K-W-1010 / SPZ-MPFL5K-W-3030 / SPZ-MPFL5K-W-6060 / SPZ-MPFL5K-W-9090 /
Elliptical beam pattern	SPZ-MPFL10K-W-12015	SPZ-MPFL7K5-W-12015	SPZ-MPFL5K-W-12015



**SPARTAN
FLOOD FL48**



**SPARTAN
FLOOD FL48 Emergency**

Certification	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust ABS Approved
Beam Angles	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)
Input	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC	110-254V 50/60Hz AC only
Beam Shape	Elliptical or Circular	Elliptical or Circular
Beam Angle System	VARIO interchangeable lens system (elliptical) / Fixed (circular)	VARIO interchangeable lens system (elliptical) / Fixed (circular)
Consumption	136W	139W
LED type	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs
Number of LEDs	48	48
Power output (luminous flux)	Up to 18,600 lm – circular beam patterns Up to 17,600 lm – elliptical beam patterns (VARIO)*	Up to 18,600 lm – circular beam patterns Up to 17,600 lm – elliptical beam patterns (VARIO)*
Wavelength	White-Light (also available in Infra-Red)	White-Light (also available in Infra-Red)
IP Rating	IP66 & IP67	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+	6,000K+
Colour	Silver (RAL 9006)	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 Removeable PSU and LED modules Retention point for suspension cord SMART access wiring system T4, T5 and T6 Variants (T4 as standard)	Cool Extrude Thermal Management Removeable 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 25% power (1x battery unit) Other options available
Charge Time		20 hours
Additional Features		
Part Codes		
Circular beam pattern	SPZ-FL48-W-1010 / SPZ-FL48-W-3030 SPZ-FL48-W-5050 / SPZ-FL48-W-120120	SPZ-FL48-W-1010-EM25 / SPZ-FL48-W-3030-EM25 SPZ-FL48-W-5050-EM25 / SPZ-FL48-W-120120-EM25
Elliptical beam pattern	SPZ-FL48-W-3510 / SPZ-FL48-W-6025 SPZ-FL48-W-8030 / SPZ-FL48-W-12050	SPZ-FL48-W-3510-EM25 / SPZ-FL48-W-6025-EM25 SPZ-FL48-W-8030-EM25 / SPZ-FL48-W-12050-EM25

*Lumen output figures relate to the Zone 2/22 variant. Contact Raytec for C1D2 variant specifications.



Certification	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS
Beam Angles	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)
Input	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC	110-254V 50/60Hz AC only	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC	110-254V 50/60Hz AC only
Beam Shape	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular
Beam Angle System	VARIO interchangeable lens system (elliptical) / Fixed (circular)	VARIO interchangeable lens system (elliptical) / Fixed (circular)	VARIO interchangeable lens system (elliptical) / Fixed (circular)	VARIO interchangeable lens system (elliptical) / Fixed (circular)
Consumption	68W	71W	BL24-HO - 34W BL24 - 20W	BL24-HO - 37W BL24 - 24W
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 9,300 lm – circular beam patterns Up to 9,050 lm – elliptical beam patterns (VARIO)*	Up to 9,300 lm – circular beam patterns Up to 9,050 lm – elliptical beam patterns (VARIO)*	BL24-HO - 4,650 lm – circular beam patterns 4,100 lm – elliptical beam patterns (VARIO) BL24 - 2,750 lm – circular beam patterns 2,500 lm – elliptical beam patterns (VARIO)*	BL24-HO-EMX25 - 4,650 lm – circular beam patterns 4,100 lm – elliptical beam patterns (VARIO) BL24-EMX25 - 2,750 lm – circular beam patterns 2,500 lm – elliptical beam patterns (VARIO)*
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 & IP67	IP66 & IP67	IP66 & IP67	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)	-20°C to +46°C (-4°F to +114°F)
Colour Temperature (White-Light)	6,000K+	6,000K+	6,000K +	6,000K +
Colour	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)
Weight	8kg (17.6lbs)	10kg (22lbs)	5kg (11.0lbs)	6kg (13.2lbs)
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")	289 x 183 x 232mm (11.4 x 7.2 x 9.1")	289 x 183 x 232mm (11.4 x 7.2 x 9.1")
Additional Features	Cool Extrude™ Thermal Management Removeable PSU and LED modules Retention point for suspension cord SMART access wiring system T4, T5 and T6 Variants (T4 as standard)	Cool Extrude Thermal Management Removeable PSU and LED modules Retention point for suspension cord SMART access wiring system T4, T5 and T6 Variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED modules Smart access wiring system T4 and T5 Variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED modules Smart access wiring system T4 and T5 Variants (T4 as standard)
Emergency Battery Back-up				
Battery		Ni/Cd 12V 4.5Ah		NiCd 12V 2.5Ah
Duration		Up to 90mins at 50% power (1x battery unit) Other options available		Up to 3hrs @ 25% power Other options available
Charge Time		20 hours		20 hours
Additional Features				Automatic self-testing
Part Codes				
Circular beam pattern	SPZ-FL24-W-1010 / SPZ-FL24-W-3030 SPZ-FL24-W-5050 / SPZ-FL24-W-120120	SPZ-FL24-W-1010-EM50 / SPZ-FL24-W-3030-EM50 SPZ-FL24-W-5050-EM50 / SPZ-FL24-W-120120-EM50	SPZ-BL24-W-1010-SB30 / SPZ-BL24-W-3030-SB30 SPZ-BL24-W-5050-SB30 / SPZ-BL24-W-120120-SB30	SPZ-BL24-W-1010-EMX25-SB30 / SPZ-BL24-W-3030-EMX25-SB30 SPZ-BL24-W-5050-EMX25-SB30 / SPZ-BL24-W-120120-EMX25-SB30
Elliptical beam pattern	SPZ-FL24-W-3510 / SPZ-FL24-W-6025 SPZ-FL24-W-8030 / SPZ-FL24-W-12050	SPZ-FL24-W-3510-EM50 / SPZ-FL24-W-6025-EM50 SPZ-FL24-W-8030-EM50 / SPZ-FL24-W-12050-EM50	SPZ-BL24-W-3510-SB30 / SPZ-BL24-W-6025-SB30 SPZ-BL24-W-8030-SB30 / SPZ-BL24-W-12050-SB30	SPZ-BL24-W-3510-EMX25-SB30 / SPZ-BL24-W-6025-EMX25-SB30 SPZ-BL24-W-8030-EMX25-SB30 / SPZ-BL24-W-12050-EMX25-SB30

*Lumen output figures relate to the Zone 2/22 variant. Contact Raytec for C1D2 variant specifications.

*SPARTAN Flood BL24 High Output version available, contact Raytec for details

SPARTAN

LINEAR



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.

NEW! Upgraded polycarbonate lens for even greater durability and impact resistance.

Perfect, Crisp, Even Illumination

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

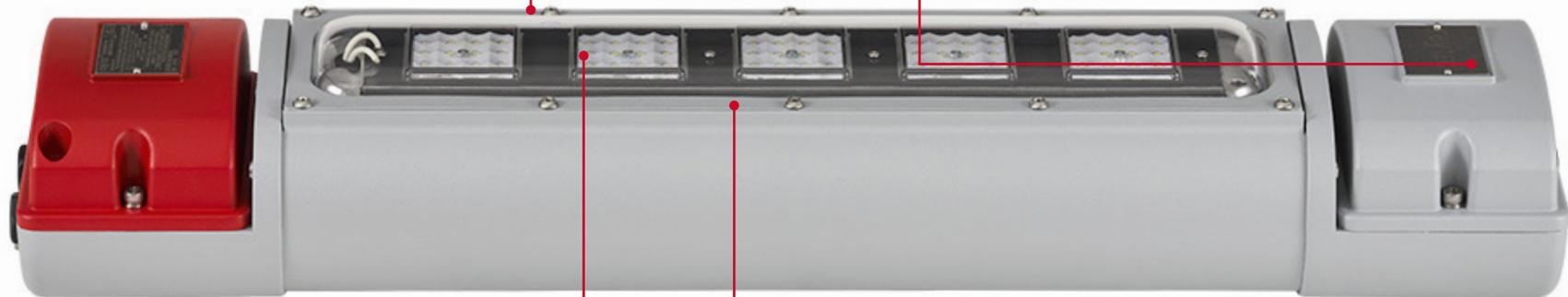
NEW! Now available with a choice of beam patterns to suit a wide range of applications and offering up to 7,048 lm.

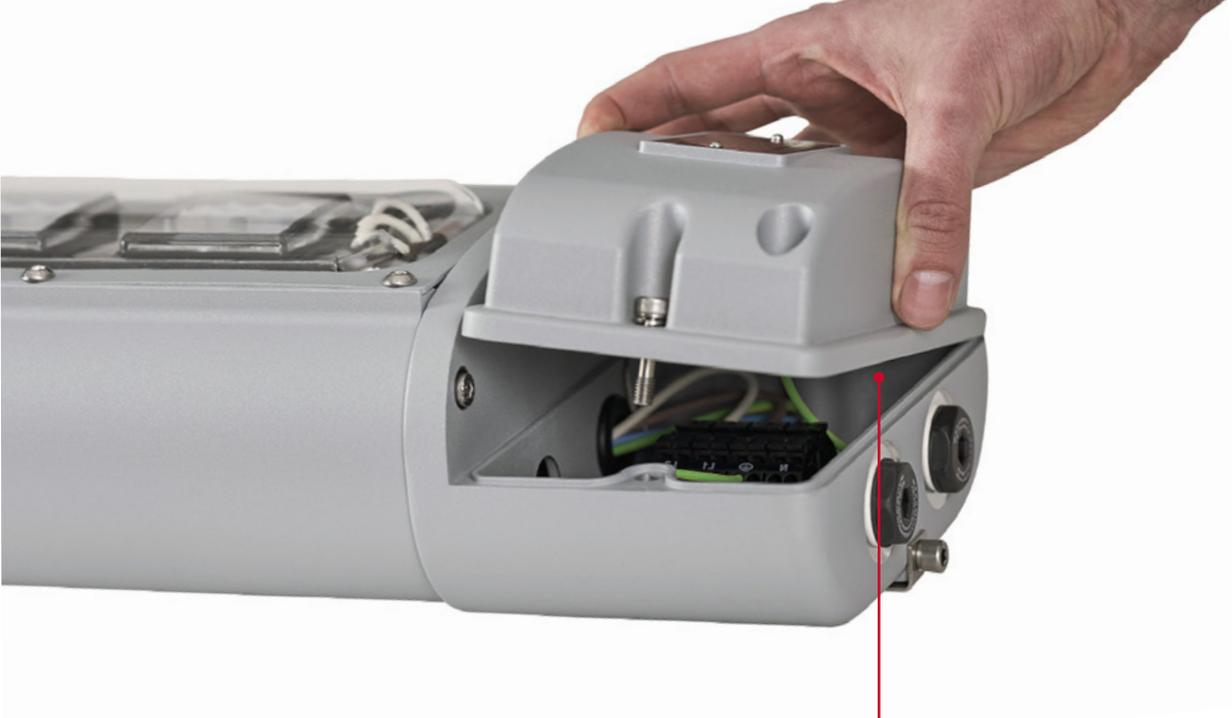
Intelligent Emergency Back-Up

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.

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.





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.





SPARTAN
LINEAR WL168



SPARTAN
LINEAR WL168 Emergency



SPARTAN
LINEAR WL168-1500



Certification	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust ABS Approved
Beam Angles	120°	120°	120°
Input	Standard: 110-254V AC Low voltage version: 18-48V AC and 18-69V DC Extra low voltage version: 12V AC/DC	110-254V AC only	Standard: 110-254V AC Low voltage version: 18-48V AC and 18-69V DC Extra low voltage version: 12V AC/DC
Consumption	49W	56W	49W
LED type	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs
Number of LEDs	160	160	160
Power output (luminous flux)	Up to 6,130 lm	Up to 6,130 lm	Up to 6,130 lm
Wavelength	White-Light	White-Light	White-Light
IP Rating	IP66 and IP67	IP66 and IP67	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)	-40°C to +60°C (-40°F to +140°F)
Colour Temperature (White-Light)	6,500K standard	6,500K standard	6,500K standard
Colour	Silver (RAL 9006)	Silver (RAL 9006) Emergency Cover - Red (RAL 3024)	Silver (RAL 9006)
Weight	9kg (19.8lbs)	10kg (22lbs)	9kg (19.8lbs)
Dimensions	1295 x 108 x 174mm (51 x 4.3 x 6.9") Equivalent to a 2x36W T8 Fluorescent	1414 x 108 x 174mm (55.7 x 4.3 x 6.9") Equivalent to a 2x36W T8 Fluorescent	1635 x 108 x 174mm (64.4 x 4.3 x 6.9") Equivalent to a 2x58W T8 Fluorescent
Additional Features	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T5 and T6 variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T5 and T6 variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T5 and T6 variants (T4 as standard)
Intelligent Emergency Battery Back-up			
Battery		Ni/Cd 12V	
Duration		Up to 3hrs @ 25% power Other options available	
Charge Time		20 hours	
Additional Features		Automatic self-testing	
Part Codes			
	SPX-WL168	SPX-WL168-EMX25	SPX-WL168-1500



Certification	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust ABS Approved
Beam Angles	120°	120°	120°	120°
Input	Standard: 110-254V AC Low voltage version: 18-48V AC and 18-69V DC Extra low voltage version: 12V AC/DC	110-254V 50/60Hz AC only	Standard: 110-254V AC Low voltage version: 18-48V AC and 18-69V DC Extra low voltage version: 12V AC/DC	110-254V 50/60Hz AC only
Consumption	24W	32W	24W	32W
LED type	Platinum Elite SMT LEDs			
Number of LEDs	80	80	80	80
Power output (luminous flux)	Up to 3,065 lm			
Wavelength	White-Light	White-Light	White-Light	White-Light
IP Rating	IP66 and IP67	IP66 and IP67	IP66 and IP67	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)	-40°C to +60°C (-40°F to +140°F)	-20°C to +50°C (-4°F to +122°F)
Colour Temperature (White-Light)	6500K standard	6500K standard	6500K standard	6500K standard
Colour	Silver (RAL 9006)	Silver (RAL 9006) Emergency Cover - Red (RAL 3024)	Silver (RAL 9006)	Silver (RAL 9006) Emergency Cover - Red (RAL 3024)
Weight	6kg (13.2lbs)	7kg (15.4lbs)	9kg (19.8lbs)	10kg (22.1lbs)
Dimensions	775 x 108 x 174mm (30.5 x 4.3 x 6.9") Equivalent to 2 x 18W T8 Fluorescent	775 x 108 x 174mm (30.5 x 4.3 x 6.9") Equivalent to 2 x 18W T8 Fluorescent	1295 x 108 x 174mm (51 x 4.3 x 6.9") Equivalent to 2 x 36W T8 Fluorescent	1295 x 108 x 174mm (51 x 4.3 x 6.9") Equivalent to 2 x 36W T8 Fluorescent
Additional Features	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T5 and T6 variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T5 and T6 variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T5 and T6 variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system 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				
	SPX-WL84	SPX-WL84-EMX25	SPX-WL84-1200	SPX-WL84-1200-EMX25



SPARTAN
LINEAR WL168



SPARTAN
LINEAR WL168 Emergency



SPARTAN
LINEAR WL168-1500



Certification	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS Approved
Beam Angles	120°	120°	120°
Input	Standard: 110-254V AC Low voltage version: 18-48V AC and 18-69V DC Extra low voltage version: 12V AC/DC	110-254V AC only	Standard: 110-254V AC Low voltage version: 18-48V AC and 18-69V DC Extra low voltage version: 12V AC/DC
Consumption	49W	56W	49W
LED type	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs
Number of LEDs	160	160	160
Power output (luminous flux)	Up to 7,048 lm	Up to 7,048 lm	Up to 7,048 lm
Wavelength	White-Light	White-Light	White-Light
IP Rating	IP66 and IP67	IP66 and IP67	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)	-40°C to +60°C (-40°F to +140°F)
Colour Temperature (White-Light)	6500K standard	6500K standard	6500K standard
Colour	Silver (RAL 9006)	Silver (RAL 9006) Emergency Cover - Red (RAL 3024)	Silver (RAL 9006)
Weight	9kg (19.8lbs)	10kg (22lbs)	9kg (19.8lbs)
Dimensions	1295 x 108 x 174mm (51 x 4.3 x 6.9") Equivalent to 2 x 36W T8 Fluorescent	1414 x 108 x 174mm (55.7 x 4.3 x 6.9") Equivalent to 2 x 36W T8 Fluorescent	1635 x 108 x 174mm (64.4 x 4.3 x 6.9") Equivalent to 2 x 58W T8 Fluorescent
Additional Features	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T5 and T6 variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T5 and T6 variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T5 and T6 variants (T4 as standard)
Intelligent Emergency Battery Back-up			
Battery		Ni/Cd 12V	
Duration		Up to 3hrs @ 25% power Other options available	
Charge Time		20 hours	
Additional Features		Automatic self-testing	
Part Codes			
	SPZ-WL168	SPZ-WL168-EMX25	SPZ-WL168-1500



Certification	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS Approved
Beam Angles	120°	120°	120°	120°
Input	Standard: 110-254V AC Low voltage version: 18-48V AC and 18-69V DC Extra low voltage version: 12V AC/DC	110-254V AC only	Standard: 110-254V AC Low voltage version: 18-48V AC and 18-69V DC Extra low voltage version: 12V AC/DC	110-254V AC only
Consumption	24W	32W	24W	32W
LED type	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs
Number of LEDs	80	80	80	80
Power output (luminous flux)	Up to 3,524 lm	Up to 3,524 lm	Up to 3,524 lm	Up to 3,524 lm
Wavelength	White-Light	White-Light	White-Light	White-Light
IP Rating	IP66 and IP67	IP66 and IP67	IP66 and IP67	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)	-40°C to +60°C (-40°F to +140°F)	-20°C to +50°C (-4°F to +122°F)
Colour Temperature (White-Light)	6500K standard	6500K standard	6500K standard	6500K standard
Colour	Silver (RAL 9006)	Silver (RAL 9006) Emergency Cover - Red (RAL 3024)	Silver (RAL 9006)	Silver (RAL 9006) Emergency Cover - Red (RAL 3024)
Weight	6kg (13.2lbs)	7kg (15.4lbs)	9kg (19.8lbs)	10kg (22.1lbs)
Dimensions	775 x 108 x 174mm (30.5 x 4.3 x 6.9") Equivalent to 2 x 18W T8 Fluorescent	775 x 108 x 174mm (30.5 x 4.3 x 6.9") Equivalent to 2 x 18W T8 Fluorescent	1295 x 108 x 174mm (51 x 4.3 x 6.9") Equivalent to 2 x 36W T8 Fluorescent	1295 x 108 x 174mm (51 x 4.3 x 6.9") Equivalent to 2 x 36W T8 Fluorescent
Additional Features	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T5 and T6 variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T5 and T6 variants (T4 as standard)	"CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T5 and T6 variants (T4 as standard)	"CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system 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	SPZ-WL84-EMX25	SPZ-WL84-1200	SPZ-WL84-1200-EMX25

SPARTAN

BULKHEAD



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.

Intelligent Emergency Back-Up

SPARTAN Bulkhead is available as an emergency variant, 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.

Compact

SPARTAN Bulkhead has a compact, low profile design for restricted space applications. The location of the cable entries means the luminaire can be mounted virtually flush to a flat surface, and allow loop in, loop out wiring.

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.

Wide Operating Temperature

An operating temperature range of -50°C to +55°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*



SPARTAN
BULKHEAD BL24



SPARTAN
BULKHEAD BL24 Emergency



SPARTAN
BULKHEAD BL24



SPARTAN
BULKHEAD BL24 Emergency



Certification	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust C1D2 and ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust C1D2 and ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS Approved
Beam Angles	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)	10° x 10° / 30° x 30° / 50° x 50° and 120° x 120° (circular) 35° x 10° / 60 x25° / 80° x 30° and 120° x 50° (elliptical)
Input	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC	110-254V 50/60Hz AC only	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC	110-254V 50/60Hz AC only
Consumption	20W	24W	20W*	24W*
LED type	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 2,250 lm - elliptical beam patterns	Up to 2,500 lm - circular beam patterns Up to 2,250 lm - elliptical beam patterns	Up to 2,750 lm - circular beam patterns Up to 2,500 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 and IP67	IP66 and IP67	IP66 and IP67	IP66 and IP67
Temperature Range	-50°C to +55°C (-58°F to +131°F)	-20°C to +46°C (-4°F to +114°F)	-50°C to +55°C (-58°F to +131°F)	-20°C to +46°C (-4°F to +114°F)
Colour Temperature (White-Light)	6,000K+	6,000K+	6,000K+	6,000K+
Colour	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)
Weight	5kg (11.0lbs)	6kg (13.2lbs)	5kg (11.0lbs)	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 T4 and T5 Variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED modules Smart access wiring system T4 and T5 Variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED modules Smart access wiring system T4 and T5 Variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED modules Smart access wiring system T4 and T5 Variants (T4 as standard)
Intelligent Emergency Battery Back-up				
Battery		2.5 Ah		2.5 Ah
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				
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-120120-EMX25	SPZ-BL24-W-1010 / SPZ-BL24-W-3030 SPZ-BL24-W-5050 / SPZ-BL24-W-120120	SPZ-BL24-W-1010-EMX25 / SPZ-BL24-W-3030-EMX25 SPZ-BL24-W-5050-EMX25 / SPZ-BL24-W-120120-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-12050-EMX25	SPZ-BL24-W-3510 / SPZ-BL24-W-6025 SPZ-BL24-W-8030 / SPZ-BL24-W-12050	SPZ-BL24-W-3510-EMX25 / SPZ-BL24-W-6025-EMX25 SPZ-BL24-W-8030-EMX25 / SPZ-BL24-W-12050-EMX25

*Consumption figures relate to the Zone 2/22 variant. Contact Raytec for C1D2 variant specifications.

SPARTAN

CRANE LUMINAIRE

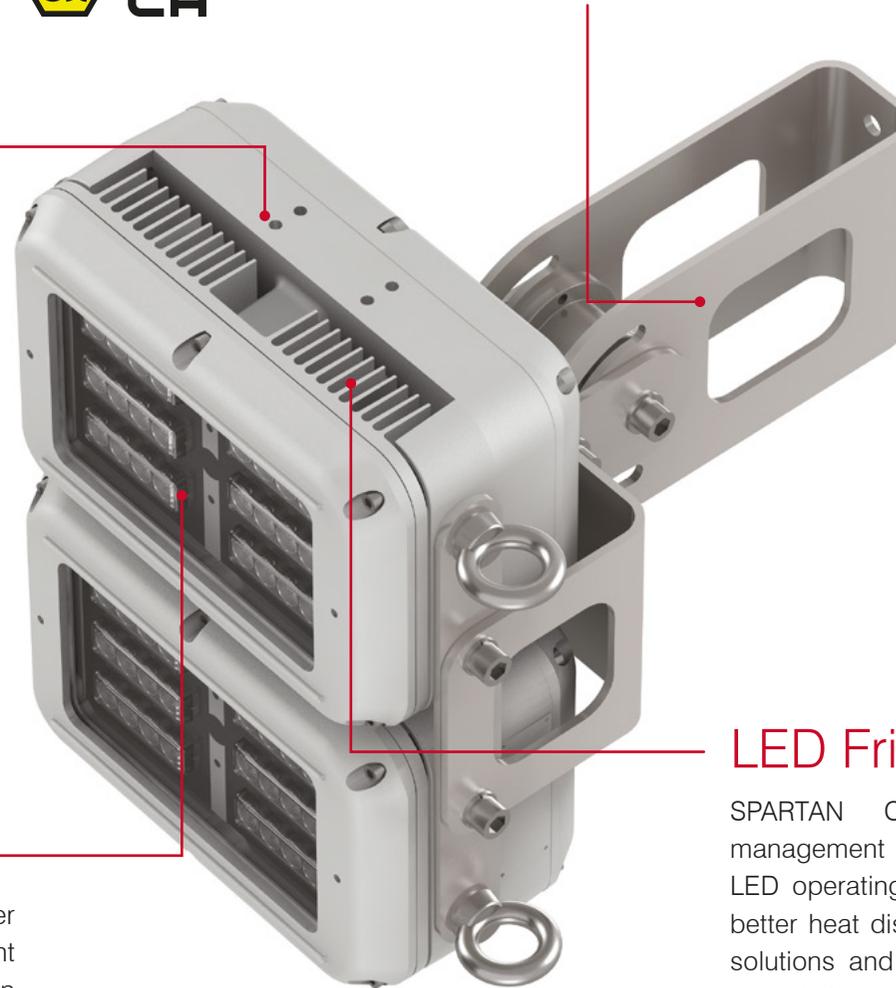


Self-Levelling

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.

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.



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.

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 18,600 lumens even during emergency operation when running off the integral battery.



Certification	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS Approved
Beam Angles	10° x 10° (circular)	10° x 10° (circular)
Input	110-254V 50/60Hz AC only 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	136W	136W
LED type	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs
Number of LEDs	48	48
Power output (luminous flux)	Up to 16,900 lm	Up to 18,600 lm
Wavelength	White-Light	White-Light
IP Rating	IP66 & IP67	IP66 & IP67
Temperature Range	-10°C to +55°C (+14°F to +131°F)	-10°C to +55°C (+14°F to +131°F)
Colour Temperature (White-Light)	6,000K+	6,000K+
Colour	Silver (RAL 9006)	Silver (RAL 9006)
Weight	25kg (55.1lbs)	25kg (55.1lbs)
Dimensions	312 x 375 x 467mm (12.3 x 14.8 x 13.5")	312 x 375 x 467mm (12.3 x 14.8 x 13.5")
Additional Features	Stainless steel rotary damper 2 x retention points for suspension cord CoolExtrude™ Thermal Management Removable PSU and LED modules SMART access wiring system T5 variants (T4 as standard)	Stainless steel rotary damper 2 x retention points for suspension cord CoolExtrude™ Thermal Management Removable PSU and LED modules SMART access wiring system T5 variants (T4 as standard)
Part Codes		
Circular beam pattern	SPX-FL48C-W-1010	SPZ-FL48C-W-1010

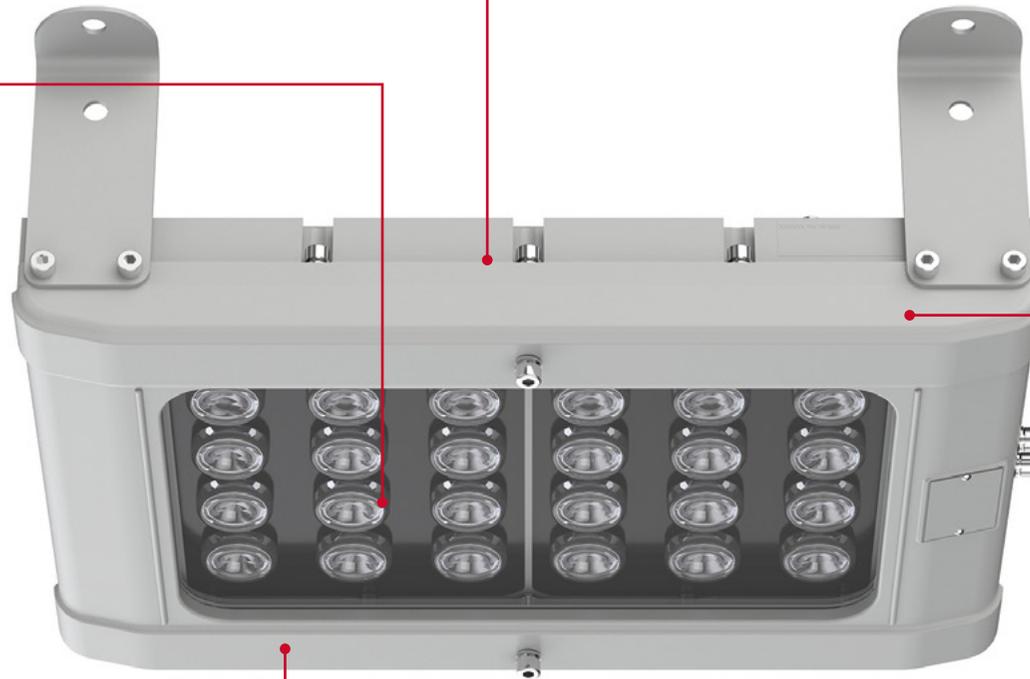
SPARTAN

BAY



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.



Ultra Powerful

SPARTAN Bay is designed for large 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.

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.



SPARTAN
HIGH POWER BAY HPBY25K



SPARTAN
HIGH POWER BAY HPBY20K



SPARTAN
MID POWER BAY MPBY15K



SPARTAN
MID POWER BAY MPBY12.5K

Certification	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust ABS Approved	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust
Angles	30° x 30° / 60° x 60° / 90° x 90°	30° x 30° / 60° x 60° / 90° x 90°	30° x 30° / 60° x 60° / 90° x 90°	30° x 30° / 60° x 60° / 90° x 90°
Input	150-264V 50/60Hz AC/DC	150-264V 50/60Hz AC/DC	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only
Beam Shape	Circular	Circular	Circular	Circular
Beam Angle System	Fixed	Fixed	Fixed	Fixed
Consumption	300W	240W	120W	100W
LED type	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs
Number of LEDs	24	24	48	48
Power output (luminous flux)	25,000 lm	20,000 lm	14,265 lm	11,981 lm
Wavelength	White-Light	White-Light	White-Light	White-Light
IP Rating	IP66	IP66	IP66 & IP67	IP66 & IP67
Temperature Range	-50°C to +50°C (-58°F to +122°F)	-50°C to +50°C (-58°F to +122°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)
Colour Temperature (White-Light)	5,700K	5,700K	5,700K	5,700K
Colour	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)
Weight	22.7kg (50lbs)	22.7kg (50lbs)	13.2kg (29.1lbs)	13.2kg (29.1lbs)
Dimensions	536 x 422 x 172mm (21.1 x 16.6 x 6.8")	536 x 422 x 172mm (21.1 x 16.6 x 6.8")	446 x 382 x 165mm (17.5 x 15 x 6.5")	446 x 382 x 165mm (17.5 x 15 x 6.5")
Additional Features	CoolExtrude™ Thermal Management Removable PSU and LED modules DALI/Dimming as Standard SMART access wiring system T4 Rating	CoolExtrude™ Thermal Management Removable PSU and LED modules DALI/Dimming as Standard SMART access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating
Part Codes				
Circular beam pattern	SPX-HPBY25K-W-3030 / SPX-HPBY25K-W-6060 / SPX-HPBY25K-W-9090	SPX-HPBY20K-W-3030 / SPX-HPBY20K-W-6060 / SPX-HPBY20K-W-9090	SPX-MPBY15K-W-3030 / SPX-MPBY15K-W-6060 / SPX-MPBY15K-W-9090	SPX-MPBY12K5-W-3030 / SPX-MPBY12K5-W-6060 / SPX-MPBY12K5-W-9090



SPARTAN
MID POWER BAY MPBY10K



SPARTAN
MID POWER BAY MPBY7.5K



SPARTAN
MID POWER BAY MPBY5K

Certification	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 1 Gas and Dust
Angles	30° x 30° / 60° x 60° / 90° x 90°	30° x 30° / 60° x 60° / 90° x 90°	30° x 30° / 60° x 60° / 90° x 90°
Input	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only
Beam Shape	Circular	Circular	Circular
Beam Angle System	Fixed	Fixed	Fixed
Consumption	80W	60W	40W
LED type	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs
Number of LEDs	48	48	48
Power output (luminous flux)	9,585lm	7,663 lm	5,149 lm
Wavelength	White-Light	White-Light	White-Light
IP Rating	IP66 & IP67	IP66 & IP67	IP66 & IP67
Temperature Range	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)
Colour Temperature (White-Light)	5,700K	5,700K	5,700K
Colour	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)
Weight	13.2kg (29.1lbs)	13.2kg (29.1lbs)	13.2kg (29.1lbs)
Dimensions	446 x 382 x 165mm (17.5 x 15 x 6.5")	446 x 382 x 165mm (17.5 x 15 x 6.5")	446 x 382 x 165mm (17.5 x 15 x 6.5")
Additional Features	Removable PSU and LED modules SMART front access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating
Part Codes			
Circular beam pattern	SPX-MPBY10K-W-3030 / SPX-MPBY10K-W-6060 / SPX-MPBY10K-W-9090	SPX-MPBY7K5-W-3030 / SPX-MPBY7K5-W-6060 / SPX-MPBY7K5-W-9090	SPX-MPBY5K-W-3030 / SPX-MPBY5K-W-6060 / SPX-MPBY5K-W-9090



SPARTAN
HIGH POWER BAY HPBY25K



SPARTAN
HIGH POWER BAY HPBY20K



SPARTAN
MID POWER BAY MPBY15K



SPARTAN
MID POWER BAY MPBY12.5K

Certification	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust
Beam Angles	30° x 30° / 60° x 60° / 90° x 90°	30° x 30° / 60° x 60° / 90° x 90°	10° x 10° / 30° x 30° / 60° x 60° / 90° x 90° (circular) 120° x 15° (elliptical)	10° x 10° / 30° x 30° / 60° x 60° / 90° x 90° (circular) 120° x 15° (elliptical)
Input	150-264V 50/60Hz AC/DC C1D2 variants - 120-277V AC/DC	150-264V 50/60Hz AC/DC C1D2 variants - 120-277V AC/DC	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only
Beam Shape	Circular	Circular	Circular	Circular
Beam Angle System	Fixed	Fixed	Fixed	Fixed
Consumption	300W	240W	120W	100W
LED type	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs
Number of LEDS	24	24	48	48
Power output (luminous flux)	25,000 lm	20,000 lm	15,325 lm	12,873 lm
Wavelength	White-Light	White-Light	White-Light	White-Light
IP Rating	IP66	IP66	IP66 & IP67	IP66 & IP67
Temperature Range	-50°C to +50°C (-58°F to +122°F)	-50°C to +50°C (-58°F to +122°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)
Colour Temperature (White-Light)	5,700K	5,700K	5,700K	5,700K
Colour	Front - Dark Grey (RAL 7012) Back - Silver (RAL 9006)	Front - Dark Grey (RAL 7012) Back - Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)
Weight	22.7kg (50lbs)	22.7kg (50lbs)	13.2kg (29.1lbs)	13.2kg (29.1lbs)
Dimensions	536 x 422 x 172mm (21.1 x 16.6 x 6.8")	536 x 422 x 172mm (21.1 x 16.6 x 6.8")	446 x 382 x 165mm (17.5 x 15 x 6.5")	446 x 382 x 165mm (17.5 x 15 x 6.5")
Additional Features	CoolExtrude™ Thermal Management Removable PSU and LED modules DALI/Dimming as Standard SMART access wiring system T4 Rating	CoolExtrude™ Thermal Management Removable PSU and LED modules DALI/Dimming as Standard SMART access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating

Part Codes

Circular beam pattern	SPZ-HPBY25K-W-3030 / SPZ-HPBY25K-W-6060 / SPZ-HPBY25K-W-9090	SPZ-HPBY20K-W-3030 / SPZ-HPBY20K-W-6060 / SPZ-HPBY20K-W-9090	SPZ-MPFL15K-W-1010 / SPZ-MPBY15K-W-3030 / SPZ-MPBY15K-W-6060 / SPZ-MPBY15K-W-9090	SPZ-MPFL12K5-W-1010 / SPZ-MPBY12K5-W-3030 / SPZ-MPBY12K5-W-6060 / SPZ-MPBY12K5-W-9090
Elliptical beam pattern			SPZ-MPBY15K-W-12015	SPZ-MPBY12K5-W-12015



SPARTAN
MID POWER BAY MPBY10K



SPARTAN
MID POWER BAY MPBY7.5K



SPARTAN
MID POWER BAY MPBY5K

Certification	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust	ATEX, IEC Ex and UKEX rated for Zone 2 Gas and Dust
Angles	10° x 10° / 30° x 30° / 60° x 60° / 90° x 90° (circular) 120° x 15° (elliptical)	10° x 10° / 30° x 30° / 60° x 60° / 90° x 90° (circular) 120° x 15° (elliptical)	10° x 10° / 30° x 30° / 60° x 60° / 90° x 90° (circular) 120° x 15° (elliptical)
Input	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only
Beam Shape	Circular	Circular	Circular
Beam Angle System	Fixed	Fixed	Fixed
Consumption	80W	60W	40W
LED type	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs	Platinum Elite Multi-Core SMT LEDs
Number of LEDs	48	24	24
Power output (luminous flux)	10,298lm	7,663 lm	5,149 lm
Wavelength	White-Light	White-Light	White-Light
IP Rating	IP66 & IP67	IP66 & IP67	IP66 & IP67
Temperature Range	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)
Colour Temperature (White-Light)	5,700K	5,700K	5,700K
Colour	Silver (RAL 9006)	Silver (RAL 9006)	Silver (RAL 9006)
Weight	13.2kg (29.1lbs)	13.2kg (29.1lbs)	13.2kg (29.1lbs)
Dimensions	446 x 382 x 165mm (17.5 x 15 x 6.5")	446 x 382 x 165mm (17.5 x 15 x 6.5")	446 x 382 x 165mm (17.5 x 15 x 6.5")
Additional Features	Removable PSU and LED modules SMART front access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating	Removable PSU and LED modules SMART front access wiring system T4 Rating
Part Codes			
Circular beam pattern	SPZ-MPFL10K-W-1010 / SPZ-MPBY10K-W-3030 / SPZ-MPBY10K-W-6060 / SPZ-MPBY10K-W-9090	SPZ-MPBY7K5-W-3030 / SPZ-MPBY7K5-W-6060 / SPZ-MPBY7K5-W-9090	SPZ-MPBY5K-W-3030 / SPZ-MPBY5K-W-6060 / SPZ-MPBY5K-W-9090
Elliptical beam pattern	SPZ-MPBY10K-W-12015	SPZ-MPBY7K5-W-12015	SPZ-MPBY5K-W-12015



Sand Blast Shield Kit

Flood/Bulkhead



Ceiling Mount Kit

Linear



Suspension Cord Kit

Flood/Linear/Bulkhead



Swivel Bracket Mounting Kit

Linear/Bulkhead



Pole Clamp Kit

Linear



M8 Eye Bolt Kit

Flood/Linear



Magnetic Mounting Kit

Linear



Front Guard

Flood/Bulkhead/High Power Flood



Diffused Polycarbonate Lens

Linear



Emergency Exit Sign

Bulkhead



Protective Film

Flood/Linear/Bulkhead



Pole Mounting Kit

Flood



Wildlife Friendly



Safety Shower



Red Light



Infra-Red



Heavy Industrial



Loop in Loop Out



Spigot Mount



URBAN-X Range

Lighting Design Service

Our lighting design service won the Hazardex award for 'Best Customer Service'. Our team of experts can design a lighting scheme tailored to your individual requirements.

This service offers –

- 2D Lighting Design
- 3D Lighting Design

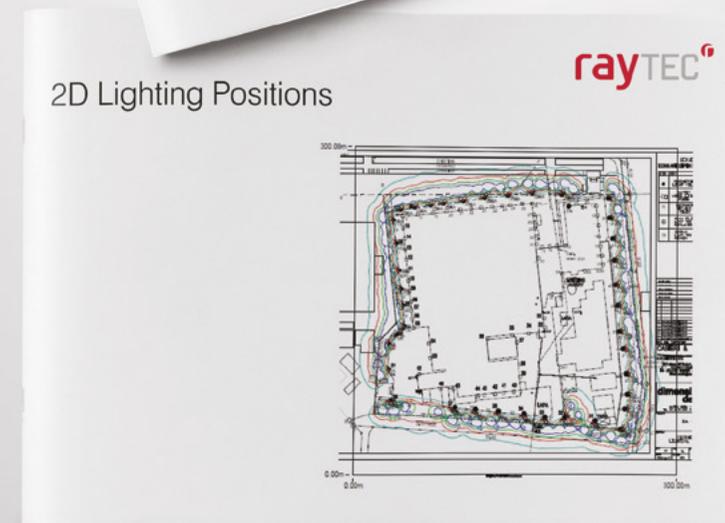
Offering a detailed or full 3D visual representation of the site, our lighting design service will provide recommendations on the product type and number of lights required, as well as the average, maximum and minimum light levels that can be achieved.

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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