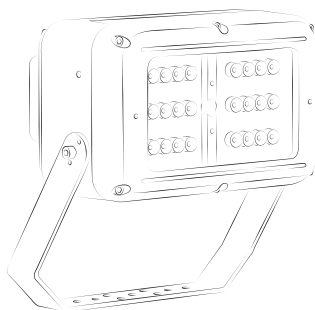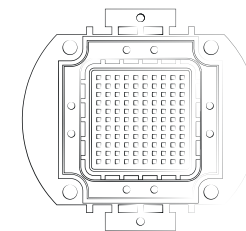# rayTEC

PRODUCT OVERVIEW

Ex Hazardous Area Luminaires
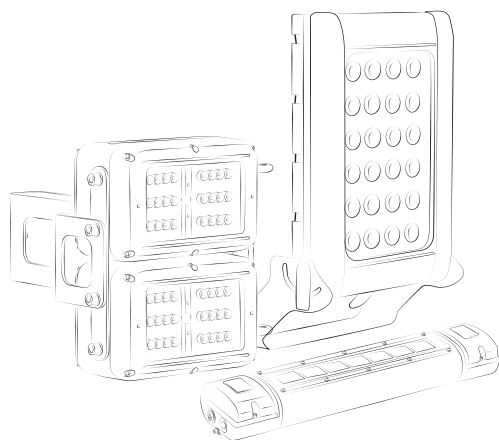
New Mid Power Floodlight

Designed and Manufactured in the UK and Canada

All Raytec hazardous area products are designed and manufactured in the UK and Canada 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, IS014001, C1D1, and C1D2 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.

rayTEC

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.
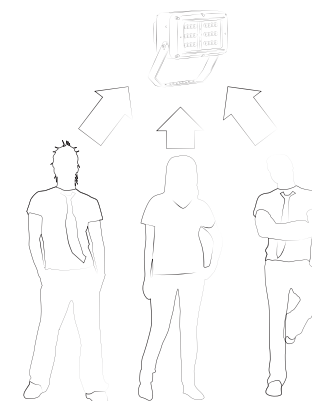
Global Reach

Based at our HQ, near Newcastle UK and our office in Ottawa, 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.

SPARTAN FLOOD Ɛx

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.

Intelligent Driver

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

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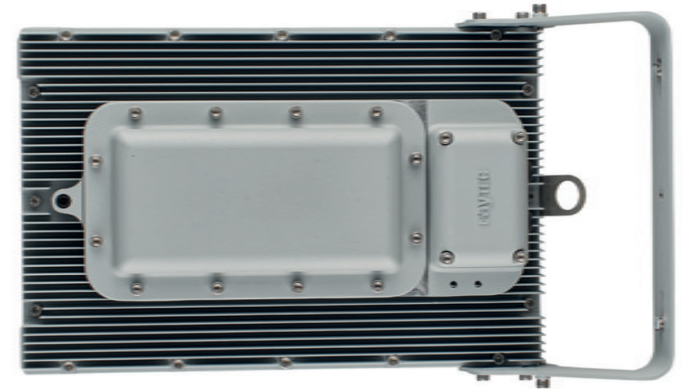
Multiple Beam Patterns

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.

*luminaire model dependent

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 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 C1D2 and ABS	ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS
Beam Angles	30° x 30°/ 60° x 60° / 90° x 90° (circular)	30° x 30°/ 60° x 60° / 90° x 90° (circular)	30° x 30° or 60° x 60° or 90° x 90° 10° x 10° or 120° x 15°	30° x 30° or 60° x 60° or 90° x 90° 10° x 10° or 120° x 15°
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)	25,000lm	20,000lm	15,325lm	12,873lm
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")	350mm x 609mm x 109mm (13.9 x 24 x 4.3")	350mm x 609mm 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	CoolExtrude™ Thermal Management Removable PSU and LED modules SMART front access wiring system T4 Rating	CoolExtrude™ Thermal Management 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 SPXZHPFL20K-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 / MPFL7.5K / MPFL5K

	SPARTAN MID POWER FLOOD MPFL10K	SPARTAN MID POWER FLOOD MPFL7.5K	SPARTAN MID POWER FLOOD MPFL5K
Certification	ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS
Beam Angles	30° x 30° or 60° x 60° or 90° x 90° 10° x 10° or 120° x 15°	30° x 30° or 60° x 60° or 90° x 90° 10° x 10° or 120° x 15°	30° x 30° or 60° x 60° or 90° x 90° 10° x 10° or 120° x 15°
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	7,663lm	5,149lm
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	350mm x 609mm x 109mm (13.9 x 24 x 4.3")	350mm x 609mm x 109mm (13.9 x 24 x 4.3")	350mm x 609mm 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

	SPARTAN FLOOD FL48	SPARTAN FLOOD FL48 Emergency
Certification	ATEX and IEC Ex rated for Zone 1 Gas and Dust C1D2 and ABS	ATEX and IEC Ex rated for Zone 1 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	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 11,000lm – circular beam patterns Up to 10,000lm – elliptical beam patterns	Up to 11,000lm – circular beam patterns Up to 10,000lm – elliptical beam patterns
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
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

Industrial variants available - see website

SPARTAN FLOOD FL24

SPARTAN FLOOD FL24 Emergency

	SPARTAN FLOOD FL24	SPARTAN FLOOD FL24 Emergency
Certification	ATEX and IEC Ex rated for Zone 1 Gas and Dust C1D2 and ABS	ATEX and IEC Ex rated for Zone 1 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	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	68W	71W
LED type	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs
Number of LEDS	24	24
Power output (luminous flux)	Up to 5,500 lm – circular beam patterns Up to 5,000 lm – elliptical beam patterns	Up to 5,500 lm – circular beam patterns Up to 5,000 lm – elliptical beam patterns
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
Weight	8kg (17.6lbs)	10Kg (22lbs)
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")
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 50% power (1x battery unit) Other options available
Charge Time		20 hours
Additional Features		

Part Codes

Circular beam pattern	SPX-FL24-W-1010 / SPX-FL48-W-3030 SPX-FL24-W-5050 / SPX-FL48-W-120120	SPX-FL24-W-1010-EM50 / SPX-FL24-W-3030-EM50 SPX-FL24-W-5050-EM50 / SPX-FL24-120120-EM50
Elliptical beam pattern	SPX-FL24-W-3510 / SPX-FL48-W-6025 SPX-FL24-W-8030 / SPX-FL48-W-12050	SPX-FL24-W-3510-EM50 / SPX-FL24-W-6025-EM50 SPX-FL24-W-8030-EM50 / SPX-FL24-W-12050-EM50

SPARTAN
FLOOD BL24

SPARTAN
FLOOD BL24 Emergency

	SPARTAN FLOOD BL24	SPARTAN FLOOD BL24 Emergency
Certification	ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX and IEC Ex 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)
Input	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V 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	34W	37W
LED type	Platinum Elite SMT LEDs	Platinum Elite SMT LEDs
Number of LEDS	24	24
Power output (luminous flux)	2,500 lm – circular beam patterns 2,250 lm – elliptical beam patterns (VARIO)	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)*
IP Rating	IP66 & IP67	IP66 & IP67
Temperature Range	-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 +
Colour	Silver RAL 9006	Silver RAL 9006
Weight	5kg (11.0lbs)	6kg (13.2lbs)
Dimensions	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	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		2.5 Ah
Duration		Up to 3hrs @ 25% power Other options available
Charge Time		20 hours
Additional Features		

Part Codes

Circular beam pattern	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-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

SPARTAN SPZ-MR6

SPARTAN SPZ-MR3

	SPZ-MR6	SPZ-MR3
Certification	Certified to UL 844, UL 1598, UL 1598A & UL 8750; CSA C22.2 No. 137, CSA C22.2 No. 250.0 & CSA C22.2 No. 250.13; Class I, Division 2, Groups ABCD, T4; Class II, Division 2, Groups FG, T4A; Class III; Class I, Zone 2, Groups IIC; Zone 22	Certified to UL 844, UL 1598, UL 1598A & UL 8750; CSA C22.2 No. 137, CSA C22.2 No. 250.0 & CSA C22.2 No. 250.13; Class I, Division 2, Groups ABCD, T4; Class II, Division 2, Groups FG, T4A; Class III; Class I, Zone 2, Groups IIC; Zone 22
Beam Angles	Wide Beam (no optic) IESNA Type 2 Oval 26° x 108° Spot 18°	Wide Beam (no optic) IESNA Type 2 Oval 26° x 108° Spot 18°
Beam Shape	Elliptical or Circular	Elliptical or Circular
Input	AC: 120-277VAC | HV: 347VAC±10%VAC	AC: 120-277VAC | HV: 347VAC±10%VAC
Consumption	58W	29W
Power output (luminous flux)	Up to 6,283 lm	Up to 3,393 lm
Wavelength	White Light	White Light
IP Rating	IP66 & IP67	IP66 & IP67
Temperature Range	-40°C to +55°C (Case ~20°C above ambient) -40°F to +131°F (Case ~68°F above ambient)	-40°C to +55°C (Case ~20°C above ambient) -40°F to +131°F (Case ~68°F above ambient)
Colour Temperature (White-Light)	5000K (Special Order: 2700-6500K)	5000K (Special Order: 2700-6500K)
Colour	Grey	Grey
Weight	4.6kg (10.4lbs)	4.6kg (10.4lbs)
Dimensions	292mm x 369mm x 63mm (11.5" x 14.5" x 2.5")	292mm x 369mm x 63mm (11.5" x 14.5" x 2.5")

Part Codes

	SPZ-MR6-50-XX-GY-HZ-XX	SPZ-MR3-50-XX-GY-HZ-XX

For Flood light applications please use Yoke Mount Bracket (see page 32 or contact Raytec for more details)

	SPARTAN SPZ-AR30	**SPARTAN** SPZ-AR25	**SPARTAN** SPZ-AR20	**SPARTAN** SPZ-AR15	**SPARTAN** SPZ-AR10
Certification	Certied to UL 844, UL 8750, CSA 22.2 No. 137, CSA 22.2 No. 250.0, CSA 22.2 No. 250.13; NSF-2: Splash and Non-Food Zones Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB⁸	Certied to UL 844, UL 8750, CSA 22.2 No. 137, CSA 22.2 No. 250.0, CSA 22.2 No. 250.13; NSF-2: Splash and Non-Food Zones Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB⁸	Certied to UL 844, UL 8750, CSA 22.2 No. 137, CSA 22.2 No. 250.0, CSA 22.2 No. 250.13; NSF-2: Splash and Non-Food Zones Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB⁸	Certied to UL 844, UL 8750, CSA 22.2 No. 137, CSA 22.2 No. 250.0, CSA 22.2 No. 250.13; NSF-2: Splash and Non-Food Zones Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB⁸	Certied to UL 844, UL 8750, CSA 22.2 No. 137, CSA 22.2 No. 250.0, CSA 22.2 No. 250.13; NSF-2: Splash and Non-Food Zones Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB
Beam Angles	Wide Beam IESNA Type 2 Oval 26° x 108° Spot 18°ᴴ	Wide Beam IESNA Type 2 Oval 26° x 108° Spot 18°ᴴ	Wide Beam IESNA Type 2 Oval 26° x 108° Spot 18°ᴴ	Wide Beam IESNA Type 2 Oval 26° x 108° Spot 18°ᴴ	Wide Beam IESNA Type 2 Oval 26° x 108° Spot 18°
Beam Shape	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular
Input	AC: 120-277V 50/60Hz | HV: 347-480V	AC: 120-277V 50/60Hz | HV: 347-480V	AC: 120-277V 50/60Hz | HV: 347-480V	AC: 120-277V 50/60Hz | HV: 347-480V	AC: 120-277V 50/60Hz | HV: 347-480V
Consumption	AC 312W | HV 310W	AC 247W | HV 248W	AC 190W | HV 187W	AC 145W | HV 145W	AC 107W | HV 129W
Power output (luminous flux)	Up to 31,590 lm	Up to 26,020 lm	Up to 20,500 lm	Up to 16,290 lm	Up to 12,330 lm
Wavelength	White Light	White Light	White Light	White Light	White Light
IP Rating	IP66 & IP67	IP66 & IP67	IP66 & IP67	IP66 & IP67	IP66 & IP67
Temperature Range	-40°C to +43°C (-40°F to 109°F)	-40°C to +55°C (-40°F to 131°F)	-40°C to +55°C (-40°F to 131°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)	5,000K	5,000K	5,000K	5,000K	5,000K
Colour	Grey	Grey	Grey	Grey	Grey
Weight	16.4 kg (36 lbs)	16.4 kg (36 lbs)	16.4 kg (36 lbs)	16.4 kg (36 lbs)	16.4 kg (36 lbs)
Dimensions	610mm x 508mm x 110mm (24.0" x 20.0" x 4.3")	610mm x 508mm x 110mm (24.0" x 20.0" x 4.3")	610mm x 508mm x 110mm (24.0" x 20.0" x 4.3")	610mm x 508mm x 110mm (24.0" x 20.0" x 4.3")	610mm x 508mm x 110mm (24.0" x 20.0" x 4.3")
Additional Features					

Part Codes

SPZ-AR30-50-XX-GY-HZ-XX	SPZ-AR25-50-XX-GY-HZ-XX	SPZ-AR20-50-XX-GY-HZ-XX	SPZ-AR15-50-XX-GY-HZ-XX	SPZ-AR10-50-XX-GY-HZ-XX

For Flood light applications please use Yoke Mount Bracket (see page 32 or contact Raytec for more details)

	SPARTAN SPZ-XR20	**SPARTAN** SPZ-XR15	**SPARTAN** SPZ-XR10	**SPARTAN** SPZ-XR8
Certification	Certified to UL 1598 / CSA C22.2 No. 250.0-08, UL 1598A, UL 8750 / CSA C22.2 No. 250.13-17 Certied to UL 844 and CSA C22.2 No. 137-18: Class I, Division 2 Groups ABCD / Class I, Zone 2, Groups IIC; Class II Division 2 Groups FG / Class I, Zone 22, Groups IIIB; Class III	Certified to UL 1598 / CSA C22.2 No. 250.0-08, UL 1598A, UL 8750 / CSA C22.2 No. 250.13-17 Certied to UL 844 and CSA C22.2 No. 137-18: Class I, Division 2 Groups ABCD / Class I, Zone 2, Groups IIC; Class II Division 2 Groups FG / Class I, Zone 22, Groups IIIB; Class III	Certified to UL 1598 / CSA C22.2 No. 250.0-08, UL 1598A, UL 8750 / CSA C22.2 No. 250.13-17 Certied to UL 844 and CSA C22.2 No. 137-18: Class I, Division 2 Groups ABCD / Class I, Zone 2, Groups IIC; Class II Division 2 Groups FG / Class I, Zone 22, Groups IIIB; Class III	Certified to UL 1598 / CSA C22.2 No. 250.0-08, UL 1598A, UL 8750 / CSA C22.2 No. 250.13-17 Certied to UL 844 and CSA C22.2 No. 137-18: Class I, Division 2 Groups ABCD / Class I, Zone 2, Groups IIC; Class II Division 2 Groups FG / Class I, Zone 22, Groups IIIB; Class III
Beam Angles	Wide Beam IESNA Type 3 Oval 30° x 115° Spot 20°	Wide Beam IESNA Type 3 Oval 30° x 115° Spot 20°	Wide Beam IESNA Type 3 Oval 30° x 115° Spot 20°	Wide Beam IESNA Type 3 Oval 30° x 115° Spot 20°
Beam Shape	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular
Input	AC: 120-277VAC │ HV: 347-480VAC (50/60Hz)	AC: 120-277VAC │ HV: 347-480VAC (50/60Hz)	AC: 120-277VAC │ HV: 347-480VAC (50/60Hz)	AC: 120-277VAC │ HV: 347-480VAC (50/60Hz)
Consumption	WC Flood 141W │ Optic 156W	WC Flood 84W │ Optic 103W	WC Flood 55W │ Optic 75W	WC Flood 47W │ Optic 60W
Power output (luminous flux)	Up to 20,550 lm	Up to 12,866 lm	Up to 9,540 lm	Up to 7,790 lm
Wavelength	White Light	White Light	White Light	White Light
IP Rating	IP66	IP66	IP66	IP66
Temperature Range	Class I Division 2 │ Class 1 Zone 2 -50°C to +67°C T3 (-58°F to +152.6°F T3C) Class II Division 2 │ Zone 22 -50°C to +50°C T3C (-58°F to +122°F T3C)"	Class I Division 2 │ Class 1 Zone 2 -50°C to +74°C T3C (-58°F to +165.2°F T3c) Class II Division 2 │ Zone 22 -50°C to +50°C T3C (-58°F to +122°F T3C)"	Class I Division 2 │ Class 1 Zone 2 -50°C to +74°C T3C (-58°F to +165.2°F T3c) Class II Division 2 │ Zone 22 -50°C to +50°C T3C (-58°F to +122°F T3C)"	Class I Division 2 │ Class 1 Zone 2 -50°C to +75°C T3C (-58°F to +167°F T3C) Class II Division 2 │ Zone 22 -50°C to +50°C T3C (-58°F to +122°F T3C)"
Colour Temperature (White-Light)	5,000K	5,000K	5,000K	5,000K
Colour	Grey	Grey	Grey	Grey
Weight	8.1 kg (17.8 lbs)	8.1 kg (17.8 lbs)	8.1 kg (17.8 lbs)	8.1 kg (17.8 lbs)
Dimensions	476mm x 378mm x 96mm (18.74" x 14.88"" x 3.78")	476mm x 378mm x 96mm (18.74" x 14.88" x 3.78")	476mm x 378mm x 96mm (18.74" x 14.88" x 3.78")	476mm x 378mm x 96mm (18.74" x 14.88" x 3.78")
Part Codes				
	SPZ-XR20-50-XX-GY-HZ-XX	SPZ-XR15-50-XX-GY-HZ-XX	SPZ-XR10-50-XX-GY-HZ-XX	SPZ-XR8-50-XX-GY-HZ-XX

For Flood light applications please use Yoke Mount Bracket (see page 32 or contact Raytec for more details)
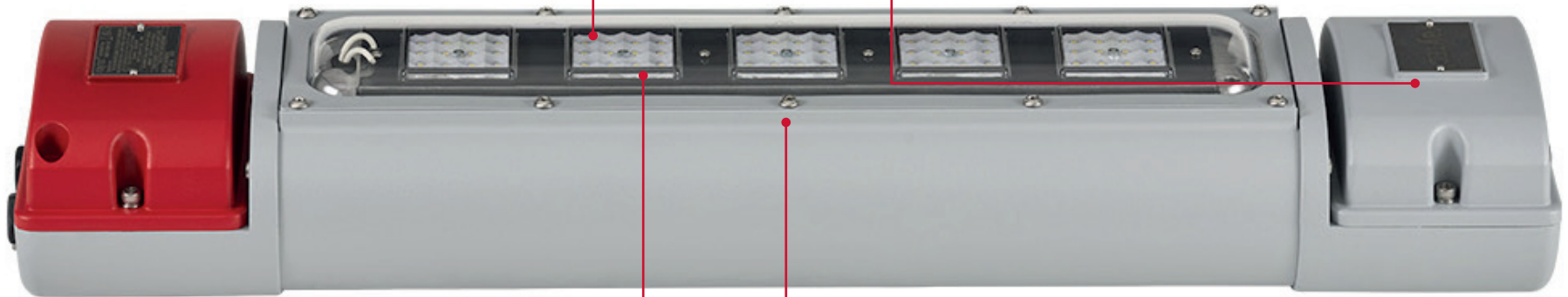
SPARTAN
LINEAR ⟨Ex⟩

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.

NEW
Robust

Upgraded polycarbonate lens for even greater durability and impact resistance.

NEW
Perfect, Crisp, Even Illumination

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

Wide Operating Temperature

An operating temperature range of -40°C to + 60°C* (-40°F to + 140°F) with a T4/T5/T6 rating means SPARTAN Linear is suitable for even the most challenging conditions.

*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 indicated 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

	SPARTAN LINEAR WL168	SPARTAN LINEAR WL168 Emergency	SPARTAN LINEAR WL168-1500
Certification	ATEX and IECEx rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX and IECEx rated for Zone 2 Gas and Dust C1D2 and ABS Approved	ATEX and IECEx rated for Zone 2 Gas and Dust C1D2 and ABS
Beam Angles	120°, Equivalent to 2 x 36W T8 Fluorescent	120°, Equivalent to 2 x 36W T8 Fluorescent	120°, Equivalent to 2 x 58W T8 Fluorescent
Input	110-277V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC	110-277V 50/60Hz AC only	110-277V 50/60Hz AC/DC Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 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 6,800 lm, Equivalent to 2 x 58W T8 Fluorescent	Up to 6,800 lm, Equivalent to 2 x 58W T8 Fluorescent	Up to 6,800 lm, Equivalent to 2 x 58W T8 Fluorescent
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)	6,000K+	6,000K+	6,000K+
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")	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")
Additional Features	CoolExtrude™ Thermal Management Removable PSU and LED Modules 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, T5 and T6 variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system T4, 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

	SPARTAN LINEAR WL84	**SPARTAN LINEAR** WL84 Emergency	**SPARTAN LINEAR** WL84-1200	**SPARTAN LINEAR** WL84-1200 Emergency
Certification	ATEX and IECEx rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX and IECEx rated for Zone 2 Gas and Dust C1D2 and ABS Approved	ATEX and IECEx rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX and IECEx rated for Zone 2 Gas and Dust C1D2 and ABS Approved
Beam Angles	120°, Equivalent to 2 x 18W T8 Fluorescent	120°, Equivalent to 2 x 18W T8 Fluorescent	120°, Equivalent to 2 x 36W T8 Fluorescent	120°, Equivalent to 2 x 36W T8 Fluorescent
Input	110-277V 50/60Hz AC/DC Low voltage: 18-48V AC and 18-69V DC	110-277V 50/60Hz AC only	110-277V 50/60Hz AC/DC Low voltage: 18-48V AC and 18-69V DC	110-277V 50/60Hz 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	84	84	84	84
Power output (luminous flux)	Up to 3,400 lm, Equivalent to 2 x 18W T8 Fluorescent	Up to 3,400 lm, Equivalent to 2 x 18W T8 Fluorescent	Up to 3,400 lm, Equivalent to 2 x 36W T8 Fluorescent	Up to 3,400 lm, Equivalent to 2 x 36W T8 Fluorescent
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)	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 Emergency Cover - Red RAL 3024
Weight	6kg (13.2lbs)	7kg (15.4lbs)	6kg (13.2lbs)	7kg (15.4lbs)
Dimensions	775x 108 x 174mm (30.5 x 4.3 x 6.9")	775x 108 x 174mm (30.5 x 4.3 x 6.9")	1295 x 108 x 174mm (51 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 T4, T5 and T6 variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED Modules 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, T5 and T6 variants (T4 as standard)	CoolExtrude™ Thermal Management Removable PSU and LED Modules Smart access wiring system 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	SPZ-WL84-EMX25	SPZ-WL84-1200	SPZ-WL84-1200-EMX25

	SPARTAN SPZ-NL4H	SPARTAN SPZ-NL4S	SPARTAN SPZ-NL2X	SPARTAN SPZ-NL2H	SPARTAN SPZ-NL2S
Certification	Certified to UL 844, UL 1598, UL1598A and UL 8750; CSA 22.2 No. 137, CSA 22.2 No. 250.0 & CSA 22.2 No. 250.13; Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB	Certified to UL 844, UL 1598, UL1598A and UL 8750; CSA 22.2 No. 137, CSA 22.2 No. 250.0 & CSA 22.2 No. 250.13; Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB	Certified to UL 844, UL 1598, UL1598A and UL 8750; CSA 22.2 No. 137, CSA 22.2 No. 250.0 & CSA 22.2 No. 250.13; Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB	Certified to UL 844, UL 1598, UL1598A and UL 8750; CSA 22.2 No. 137, CSA 22.2 No. 250.0 & CSA 22.2 No. 250.13; Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB	Certified to UL 844, UL 1598, UL1598A and UL 8750; CSA 22.2 No. 137, CSA 22.2 No. 250.0 & CSA 22.2 No. 250.13; Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB
Input	AC: 120-277 VAC | HV: 347-480 VAC	AC: 120-277 VAC | HV: 347-480 VAC	AC: 120-277 VAC | HV: 347-480 VAC	AC: 120-277 VAC | HV: 347-480 VAC	AC: 120-277 VAC | HV: 347-480 VAC
Consumption	AC: 105W | HV: 109W	AC: 85W | HV: 90W	AC: 70W | HV: 82W	52W	36W
Power output (luminous flux)	10,470lm	8,697lm	7,965lm	5,143lm	3,970lm
Wavelength	White Light	White Light	White Light	White Light	White Light
IP Rating	IP66	IP66	IP66	IP66	IP66
Temperature Range	-40°C to +54°C (-40°F to +129.2°F)	-40°C to +55°C (-40°F to +131°F)	-40°C to +52°C (-40°F to +125.6°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)	5000K	5000K	5000K	5000K	5000K
Colour	Grey	Grey	Grey	Grey	Grey
Weight	8.6kg (19lbs)	8.6kg (19lbs)	5.3kg (12lbs)	5.3kg (12lbs)	5.3kg (12lbs)
Dimensions	1289mm x 194mm x 82mm (50.8" x 7.6" x 3.2")	1289mm x 194mm x 82mm (50.8" x 7.6" x 3.2")	692mm x 194mm x 82mm (27.3" x 7.6" x 3.2")	692mm x 194mm x 82mm (27.3" x 7.6" x 3.2")	692mm x 194mm x 82mm (27.3" x 7.6" x 3.2")
Additional Features					
Part Codes	SPZ-NL4-H-50-WC-GY-HZ-XX	SPZ-NL4-S-50-WX-GY-HZ-XX	SPZ-NL2-X-50-WC-GY-HZ-XX	SPZ-NL2-H-50-WC-GY-HZ-XX	SPZ-NL2-S-50-WC-GY-HZ-XX

SPARTAN
SPZ-BL40

SPARTAN
SPZ-BL20

	SPZ-BL40	SPZ-BL20
Certification	Certified to UL844, UL 1598, UL 1598A & UL 8750; CSA 22.2 No. 250.0; CSA 22.2 No. 250.13; CSA 22.2 No. 137; Class I, Division 2, Groups ABCD, T4A; Class II, Division 2, Groups FG, T6; Class III; Class I, Zone 2, Groups IIC; Zone 22"	Certified to UL844, UL 1598, UL 1598A & UL 8750; CSA 22.2 No. 250.0; CSA 22.2 No. 250.13; CSA 22.2 No. 137; Class I, Division 2, Groups ABCD, T4A; Class II, Division 2, Groups FG, T6; Class III; Class I, Zone 2, Groups IIC; Zone 22"
Input	AC: 120-277VAC (50/60 Hz)	AC: 120-277VAC (50/60 Hz)
Consumption	34W	17.5W
Power output (luminous flux)	4,475lm	2,540lm
Wavelength	White Light	White Light
IP Rating	IP66	IP66
Temperature Range	-50°C to +65°C (Case ~30°C above ambient) -58°F to +149°F (Case ~86°F above ambient)	-50°C to +65°C (Case ~30°C above ambient) -58°F to +149°F (Case ~86°F above ambient)
Colour Temperature (White-Light)	5,000K	5,000K
Colour	Grey	Grey
Weight	2.9 kg (6.4 lbs)	2.9 kg (6.4 lbs)
Dimensions	99.75mm x 468mm x 143.64mm (3.93" x 18.43" x 5.65")	99.75mm x 468mm x 143.64mm (3.93" x 18.43" x 5.65")
Additional Features	Optional Glass Window in Stainless Frame	Optional Glass Window in Stainless Frame

Part Codes

	SPZ-BL40-50-GY-HZ-AC	SPZ-BL20-50-GY-HZ-AC

SPARTAN
BULKHEAD Ⓔx

Intelligent Emergency Back-Up

SPARTAN Bulkhead is available as an emergency variant. 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.

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.
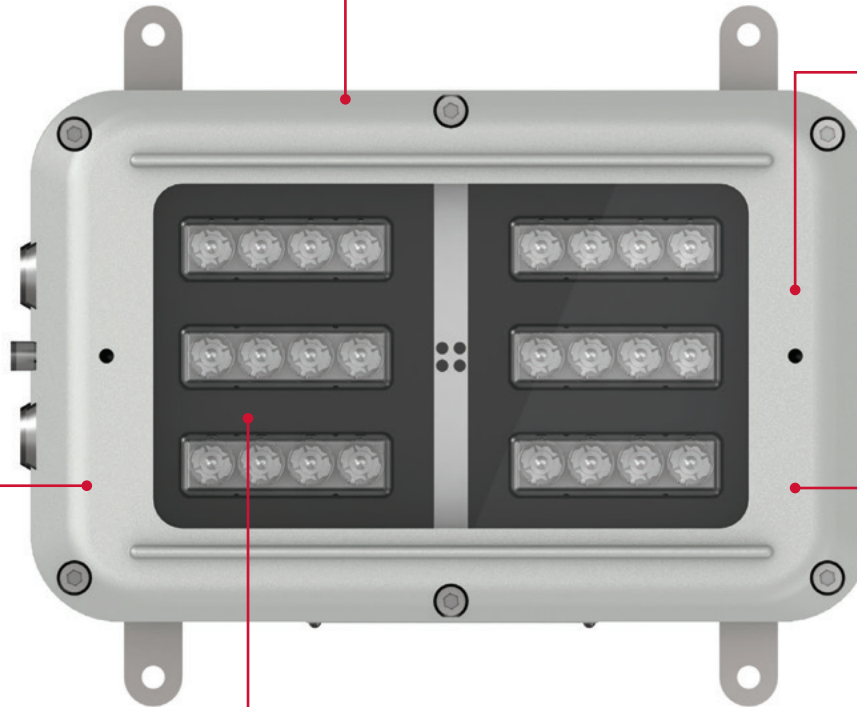
Robust

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.

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 and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS Approved	ATEX and IEC Ex 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)
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	Platinum Elite SMT LEDs
Number of LEDS	24	24
Power output (luminous flux)	Up to 2,500lm - circular beam patterns Up to 2,250lm - elliptical beam patterns	Up to 2,500lm - circular beam patterns Up to 2,250lm - elliptical beam patterns
Wavelength	White-Light (also available in Infra-Red)	White-Light (also available in Infra-Red)
IP Rating	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)
Colour Temperature (White-Light)	6,000K+	6,000K+
Colour	Silver RAL 9006	Silver RAL 9006
Weight	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")
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)

Intelligent Emergency Battery Back-up

Battery		2.5 Ah
Duration		Up to 3hrs @ 25% power Other options available
Charge Time		20 hours
Additional Features		Automatic self-testing

Part Codes

	SPARTAN BULKHEAD BL24	SPARTAN BULKHEAD BL24 Emergency
Circular beam pattern	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-120121-EMX25
Elliptical beam pattern	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-12051-EMX25

SPARTAN
CRANE Ex

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.
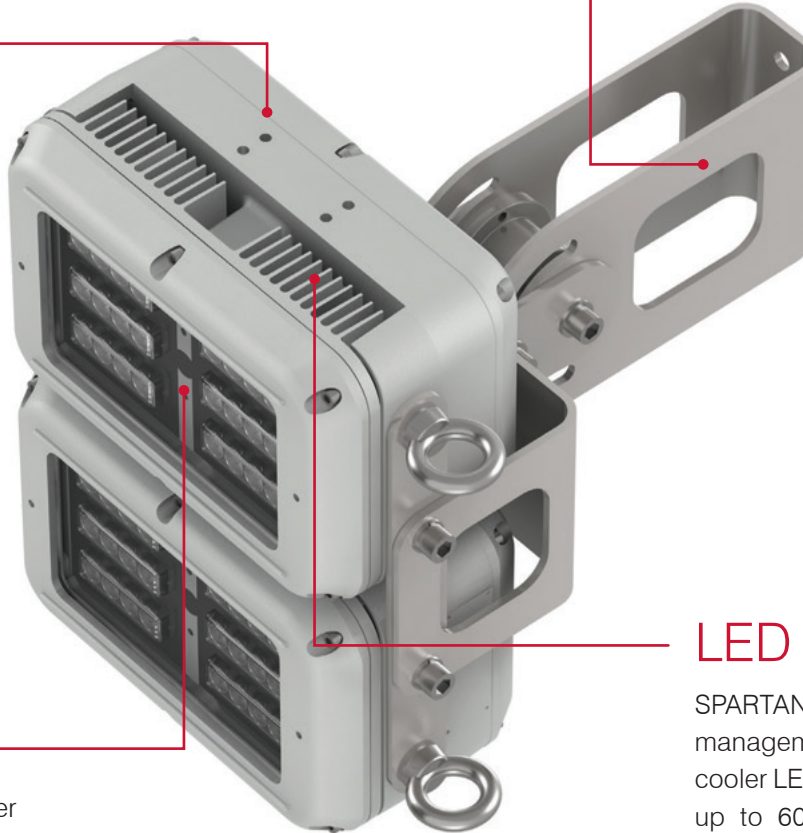
Vibration Resistant

SPARTAN Crane uses high performance surface mount LEDs that are encapsulated. 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 10,000 lumens even during emergency operation when running off the integral battery.

SPARTAN CRANE FL48C

Certification	ATEX and IEC Ex rated for Zone 1 Gas and Dust C1D2 and ABS Approved
Beam Angles	10° x 10° (circular)
Input	110-254V 50/60Hz AC/DC Low voltage: 18-48V AC and 18-69V DC
Consumption	136W
LED type	Platinum Elite SMT LEDs
Number of LEDS	48
Power output (luminous flux)	Up to 10,000lm - circular beam patterns Up to 9,000lm - elliptical beam patterns
Wavelength	White-Light
IP Rating	IP66 & IP67
Temperature Range	-10°C to +55°C (14°F to 131°F)
Colour Temperature (White-Light)	6,000K+
Colour	Silver RAL 9006
Weight	25kg (55.1lbs)
Dimensions	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 T4, T5 and T6 Variants (T4 as standard)
Part Codes	
Circular beam pattern	SPX-FL48C-W-1010

SPARTAN
BAY Ex

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.
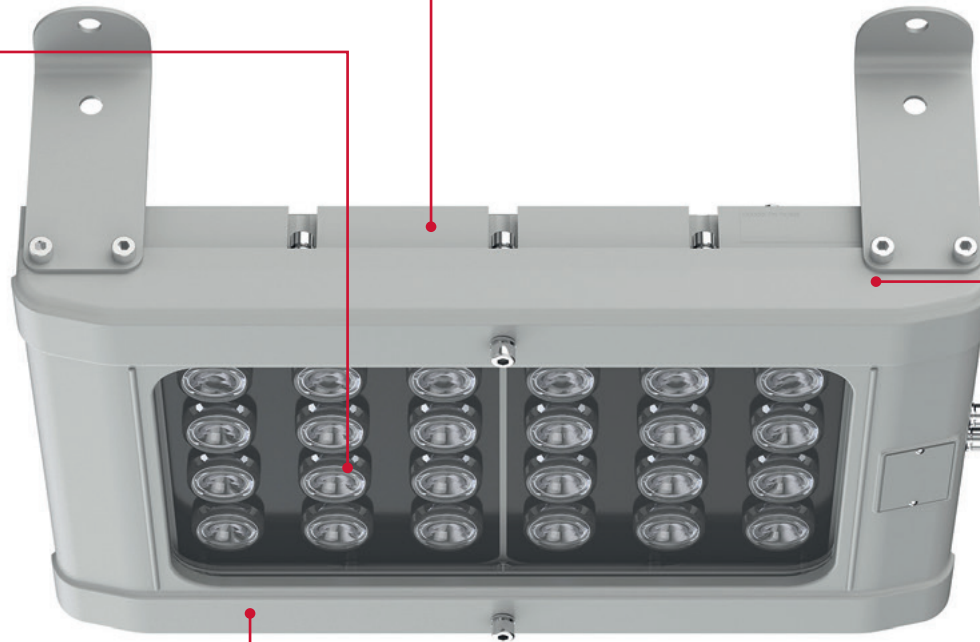
LED Friendly

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.

SPARTAN
HIGH POWER BAY HPBY25K

SPARTAN
HIGH POWER BAY HPBY20K

SPARTAN
MID POWER BAY MPBY15K

SPARTAN
MID POWER BAY MPBY12.5K

	HPBY25K	HPBY20K	MPBY15K	MPBY12.5K
Certification	ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS
Beam Angles	30° x 30° / 60° x 60° and 90x 90° (circular)	30° x 30° / 60° x 60° and 90x 90° (circular)	30° x 30° or 60° x 60° or 90° x 90° 10° x 10° or 120° x 15°	30° x 30° or 60° x 60° or 90° x 90° 10° x 10° or 120° x 15°
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)	25,000lm	20,000lm	15,325lm	12,873lm
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")	446mm x 382mm x 165mm (17.5 x 15 x 6.5")	446mm x 382mm 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-MPBY15K-W-12015	SPZ-MPFL12K5-W-1010 / SPZ-MPBY12K5-W-3030 / SPZ-MPBY12K5-W-6060 / SPZ-MPBY12K5-W-9090 / SPZ-MPBY12K5-W-12015

SPARTAN MID POWER BAY MPBY10K

SPARTAN MID POWER BAY MPBY7.5K

SPARTAN MID POWER BAY MPBY5K

	SPARTAN MID POWER BAY MPBY10K	SPARTAN MID POWER BAY MPBY7.5K	SPARTAN MID POWER BAY MPBY5K
Certification	ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS	ATEX and IEC Ex rated for Zone 2 Gas and Dust C1D2 and ABS
Angles	30° x 30° or 60° x 60° or 90° x 90° 10° x 10° or 120° x 15°	30° x 30° / 60° x 60° or 90° x 90° 10° x 10° or 120° x 15°	30° x 30° / 60° x 60° or 90° x 90° 10° x 10° or 120° x 15°
Input	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only	110-277V 50/60Hz AC only
Beam Shape	Circular	Circular and Elliptical	Circular and 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)	10,298lm	7,663lm	5,149lm
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	446mm x 382mm x 165mm (17.5 x 15 x 6.5")	446mm x 382mm x 165mm (17.5 x 15 x 6.5")	446mm x 382mm 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-MPBY10K-W-12015	SPZ-MPBY75K-W-3030 / SPZ-MPBY75K-W-6060 / SPZ-MPBY75K-W-9090	SPZ-MPBY5K-W-3030 / SPZ-MPBY5K-W-6060 / SPZ-MPBY5K-W-9090

SPARTAN
SPZ-MR6

SPARTAN
SPZ-MR3

	SPZ-MR6	SPZ-MR3
Certification	Certified to UL 844, UL 1598, UL 1598A & UL 8750; CSA C22.2 No. 137, CSA C22.2 No. 250.0 & CSA C22.2 No. 250.13; Class I, Division 2, Groups ABCD, T4; Class II, Division 2, Groups FG, T4A; Class III; Class I, Zone 2, Groups IIC; Zone 22	Certified to UL 844, UL 1598, UL 1598A & UL 8750; CSA C22.2 No. 137, CSA C22.2 No. 250.0 & CSA C22.2 No. 250.13; Class I, Division 2, Groups ABCD, T4; Class II, Division 2, Groups FG, T4A; Class III; Class I, Zone 2, Groups IIC; Zone 22
Beam Angles	Wide Beam (no optic) IESNA Type 2 Oval 26° x 108° Spot 18°	Wide Beam (no optic) IESNA Type 2 Oval 26° x 108° Spot 18°
Beam Shape	Elliptical or Circular	Elliptical or Circular
Input	AC: 120-277VAC | HV: 347VAC±10%VAC	AC: 120-277VAC | HV: 347VAC±10%VAC
Consumption	58W	29W
Power output (luminous flux)	Up to 6,283 lm	Up to 3,393 lm
Wavelength	White Light	White Light
IP Rating	IP66 & IP67	IP66 & IP67
Temperature Range	-40°C to +55°C (Case ~20°C above ambient) -40°F to +131°F (Case ~68°F above ambient)	-40°C to +55°C (Case ~20°C above ambient) -40°F to +131°F (Case ~68°F above ambient)
Colour Temperature (White-Light)	5000K (Special Order: 2700-6500K)	5000K (Special Order: 2700-6500K)
Colour	Grey	Grey
Weight	4.6kg (10.4lbs)	4.6kg (10.4lbs)
Dimensions	292mm x 369mm x 63mm (11.5" x 14.5" x 2.5")	292mm x 369mm x 63mm (11.5" x 14.5" x 2.5")
Part Codes		
	SPZ-MR6-50-XX-GY-HZ-XX	SPZ-MR3-50-XX-GY-HZ-XX

	SPARTAN SPZ-AR30	SPARTAN SPZ-AR25	SPARTAN SPZ-AR20	SPARTAN SPZ-AR15	SPARTAN SPZ-AR10
Certification	Certied to UL 844, UL 8750, CSA 22.2 No. 137, CSA 22.2 No. 250.0, CSA 22.2 No. 250.13; NSF-2: Splash and Non-Food Zones Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB"	Certied to UL 844, UL 8750, CSA 22.2 No. 137, CSA 22.2 No. 250.0, CSA 22.2 No. 250.13; NSF-2: Splash and Non-Food Zones Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB"	Certied to UL 844, UL 8750, CSA 22.2 No. 137, CSA 22.2 No. 250.0, CSA 22.2 No. 250.13; NSF-2: Splash and Non-Food Zones Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB"	Certied to UL 844, UL 8750, CSA 22.2 No. 137, CSA 22.2 No. 250.0, CSA 22.2 No. 250.13; NSF-2: Splash and Non-Food Zones Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB"	Certied to UL 844, UL 8750, CSA 22.2 No. 137, CSA 22.2 No. 250.0, CSA 22.2 No. 250.13; NSF-2: Splash and Non-Food Zones Class I, Division 2, Groups ABCD; Class II, Division 2, Groups FG; Class III; Class I, Zone 2, Groups IIC; Class I, Zone 22, Groups IIIB
Beam Angles	Wide Beam IESNA Type 2 Oval 26° x 108° Spot 18°"	Wide Beam IESNA Type 2 Oval 26° x 108° Spot 18°"	Wide Beam IESNA Type 2 Oval 26° x 108° Spot 18°"	Wide Beam IESNA Type 2 Oval 26° x 108° Spot 18°"	Wide Beam IESNA Type 2 Oval 26° x 108° Spot 18°
Beam Shape	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular
Input	AC: 120-277V 50/60Hz | HV: 347-480V	AC: 120-277V 50/60Hz | HV: 347-480V	AC: 120-277V 50/60Hz | HV: 347-480V	AC: 120-277V 50/60Hz | HV: 347-480V	AC: 120-277V 50/60Hz | HV: 347-480V
Consumption	AC 312W | HV 310W	AC 247W | HV 248W	AC 190W | HV 187W	AC 145W | HV 145W	AC 107W | HV 129W
Power output (luminous flux)	Up to 31,590 lm	Up to 26,020 lm	Up to 20,500 lm	Up to 16,290 lm	Up to 12,330 lm
Wavelength	White Light	White Light	White Light	White Light	White Light
IP Rating	IP66 & IP67	IP66 & IP67	IP66 & IP67	IP66 & IP67	IP66 & IP67
Temperature Range	-40°C to +43°C (-40°F to 109°F)	-40°C to +55°C (-40°F to 131°F)	-40°C to +55°C (-40°F to 131°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)	5,000K	5,000K	5,000K	5,000K	5,000K
Colour	Grey	Grey	Grey	Grey	Grey
Weight	16.4 kg (36 lbs)	16.4 kg (36 lbs)	16.4 kg (36 lbs)	16.4 kg (36 lbs)	16.4 kg (36 lbs)
Dimensions	610mm x 508mm x 110mm (24.0" x 20.0" x 4.3")	610mm x 508mm x 110mm (24.0" x 20.0" x 4.3")	610mm x 508mm x 110mm (24.0" x 20.0" x 4.3")	610mm x 508mm x 110mm (24.0" x 20.0" x 4.3")	610mm x 508mm x 110mm (24.0" x 20.0" x 4.3")
Additional Features					
Part Codes	SPZ-AR30-50-XX-GY-HZ-XX	SPZ-AR25-50-XX-GY-HZ-XX	SPZ-AR20-50-XX-GY-HZ-XX	SPZ-AR15-50-XX-GY-HZ-XX	SPZ-AR10-50-XX-GY-HZ-XX

	SPARTAN SPZ-XR20	**SPARTAN** SPZ-XR15	**SPARTAN** SPZ-XR10	**SPARTAN** SPZ-XR8
Certification	Certified to UL 1598 / CSA C22.2 No. 250.0-08, UL 1598A, UL 8750 / CSA C22.2 No. 250.13-17 Certied to UL 844 and CSA C22.2 No. 137-18: Class I, Division 2 Groups ABCD / Class I, Zone 2, Groups IIC; Class II Division 2 Groups FG / Class I, Zone 22, Groups IIIB; Class III	Certified to UL 1598 / CSA C22.2 No. 250.0-08, UL 1598A, UL 8750 / CSA C22.2 No. 250.13-17 Certied to UL 844 and CSA C22.2 No. 137-18: Class I, Division 2 Groups ABCD / Class I, Zone 2, Groups IIC; Class II Division 2 Groups FG / Class I, Zone 22, Groups IIIB; Class III	Certified to UL 1598 / CSA C22.2 No. 250.0-08, UL 1598A, UL 8750 / CSA C22.2 No. 250.13-17 Certied to UL 844 and CSA C22.2 No. 137-18: Class I, Division 2 Groups ABCD / Class I, Zone 2, Groups IIC; Class II Division 2 Groups FG / Class I, Zone 22, Groups IIIB; Class III	Certified to UL 1598 / CSA C22.2 No. 250.0-08, UL 1598A, UL 8750 / CSA C22.2 No. 250.13-17 Certied to UL 844 and CSA C22.2 No. 137-18: Class I, Division 2 Groups ABCD / Class I, Zone 2, Groups IIC; Class II Division 2 Groups FG / Class I, Zone 22, Groups IIIB; Class III
Beam Angles	Wide Beam IESNA Type 3 Oval 30° x 115° Spot 20°	Wide Beam IESNA Type 3 Oval 30° x 115° Spot 20°	Wide Beam IESNA Type 3 Oval 30° x 115° Spot 20°	Wide Beam IESNA Type 3 Oval 30° x 115° Spot 20°
Beam Shape	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular	Elliptical or Circular
Input	AC: 120-277VAC | HV: 347-480VAC (50/60Hz)	AC: 120-277VAC | HV: 347-480VAC (50/60Hz)	AC: 120-277VAC | HV: 347-480VAC (50/60Hz)	AC: 120-277VAC | HV: 347-480VAC (50/60Hz)
Consumption	WC Flood 141W | Optic 156W	WC Flood 84W | Optic 103W	WC Flood 55W | Optic 75W	WC Flood 47W | Optic 60W
Power output (luminous flux)	Up to 20,550 lm	Up to 12,866 lm	Up to 9,540 lm	Up to 7,790 lm
Wavelength	White Light	White Light	White Light	White Light
IP Rating	IP66	IP66	IP66	IP66
Temperature Range	Class I Division 2 | Class 1 Zone 2 -50°C to +67°C T3 (-58°F to +152.6°F T3C) Class II Division 2 | Zone 22 -50°C to +50°C T3C (-58°F to +122°F T3C)"	Class I Division 2 | Class 1 Zone 2 -50°C to +74°C T3C (-58°F to +165.2°F T3c) Class II Division 2 | Zone 22 -50°C to +50°C T3C (-58°F to +122°F T3C)"	Class I Division 2 | Class 1 Zone 2 -50°C to +74°C T3C (-58°F to +165.2°F T3c) Class II Division 2 | Zone 22 -50°C to +50°C T3C (-58°F to +122°F T3C)"	Class I Division 2 | Class 1 Zone 2 -50°C to +75°C T3C (-58°F to +167°F T3C) Class II Division 2 | Zone 22 -50°C to +50°C T3C (-58°F to +122°F T3C)"
Colour Temperature (White-Light)	5,000K	5,000K	5,000K	5,000K
Colour	Grey	Grey	Grey	Grey
Weight	8.1 kg (17.8 lbs)	8.1 kg (17.8 lbs)	8.1 kg (17.8 lbs)	8.1 kg (17.8 lbs)
Dimensions	476mm x 378mm x 96mm (18.74" x 14.88"" x 3.78")	476mm x 378mm x 96mm (18.74" x 14.88" x 3.78")	476mm x 378mm x 96mm (18.74" x 14.88" x 3.78")	476mm x 378mm x 96mm (18.74" x 14.88" x 3.78")
Part Codes				
	SPZ-XR20-50-XX-GY-HZ-XX	SPZ-XR15-50-XX-GY-HZ-XX	SPZ-XR10-50-XX-GY-HZ-XX	SPZ-XR8-50-XX-GY-HZ-XX

SPARTAN
SPX-EXC

Certification	Certified to UL 1598 CSA C22.2 No. 250.0, UL 8750 CSA C22.2 No. 250.13, UL 844 CSA C22.2 No. 137; Class I, Division 1, Groups CD T5; Class II, Division 1, Groups EFG T4A; Class III, Division 1; Class I, Zone 1, Group IIB; Class II, Zone 20, Group IIIC
Beam Shape	Circular
Input	AC: 120-277VAC | DC: 22-28VDC
Consumption	AC: 30W | DC: 35W
Power output (luminous flux)	1,220lm
Wavelength	White Light
IP Rating	IP66
Temperature Range	-50°C to +58°C (Case ~20°C above ambient) -58°F to +136.4°F (Case ~68°F above ambient)
Colour Temperature (White-Light)	5000K
Colour	Grey
Weight	4.4kg (9.0lbs)
Dimensions	165mm x 95.5mm x 292.2mm (6.50" x 3.76" x 11.50")
Part Codes	
	SPX-EXC-50-WF-GY-HZ-XX

Industrial variants available - see website

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
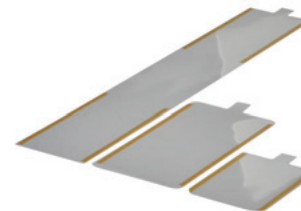
Front Guard

Flood/Bulkhead/High Power Flood

Anti-Static Polycarbonate Lens

Linear

Emergency Exit Sign

Bulkhead

Protective Film

Flood/Linear/Bulkhead

Pole Mounting Kit

Flood

Yoke Mount
BL

Yoke Mount
EXC

Surface/Suspension Mount
AR & XR

Surface/Suspension Mount
MR

Surface Mount
BL

Surface Mount
NL

Conduit Mount
AR, BL & XM

High Vibration Yoke Mount
AR & XR

Wall Mount
AR,MR & XR

Slip Fitter Yoke Mount
AR, MR & XR

Wall Mount
BL

Strap Mount
BL

Tube Clamp Mount
BL

Hook Pendant Mount
AR, BL, MR & XR

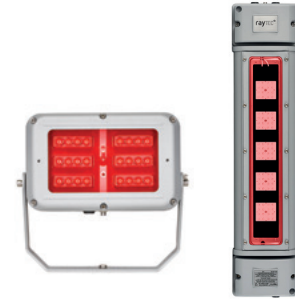**Adjustable Angle Mount**
NL

Pole Mount
AR, MR & XR

Yoke Mount
AR & XR

Yoke Mount
MR

See the full range of accessories on our website

Wildlife Friendly

Safety Shower

Red Light

Infra-Red

Heavy Industrial

Loop in Loop Out

Spigot Mount

Special Mounting Options

Urban-X Range

Lighting Design Service

Our team of experts can design a lighting scheme tailored to your individual requirements.

This service offers –
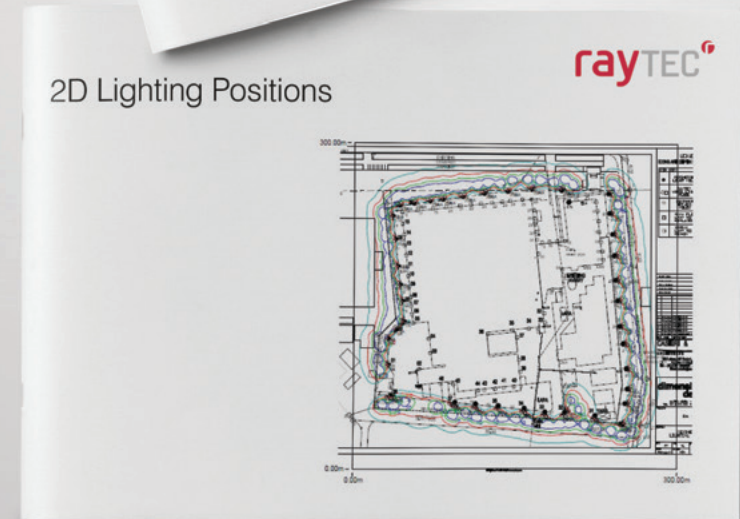
- 2D Lighting Design

- 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, CO_2 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!

rayTEC

Hazardous Area LED Lighting
with Worldwide Certification

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