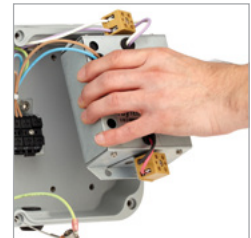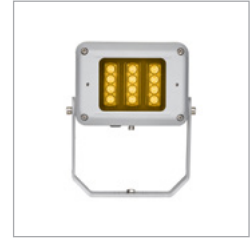# SPARTAN SPX-FL12
LED Zone 1 Wildlife Friendly Floodlight
Standard Variants

rayTEC

- ATEX and IEC Ex approved – Zone 1
  UL/CSA approved, including C1D2 and ABS

- Zone 2 variants also available

- Amber, long life LEDs

- High lumen output LED

- Easy installation, maintenance and inspection

- Wide operating temperature range -50° to +55°C

- VARIO lens technology – easy modification of
  beam patterns

- Integral photocell (optional)

- 5 year warranty

- Now 'op is' approved (EN60079-28)

The SPARTAN Wildlife Friendly Flood range is designed specifically for use near hazardous coastal facilities or sites located near nature reserves. SPARTAN Wildlife Friendly Floodlight uses a warmer wavelength of LED, avoiding the dangers associated with wildlife wandering towards blue-white light. Available in both standard and emergency versions and using Raytec's field-proven, long-life LED technology, SPARTAN Wildlife Friendly floodlights are ATEX and IEC Ex approved for all Zone 1 applications, C1D2, UL, CSA, ABS and rated for T4, T5 and T6 environments. SPARTAN Wildlife Friendly Flood has been designed with maintenance in mind. A unique modular design allows key components to be easily accessed and serviced if required, making inspection and maintenance quicker and easier. It also allows for the most flexible installation - the PSU chassis can be removed and located remotely at ground level for areas with difficult access.
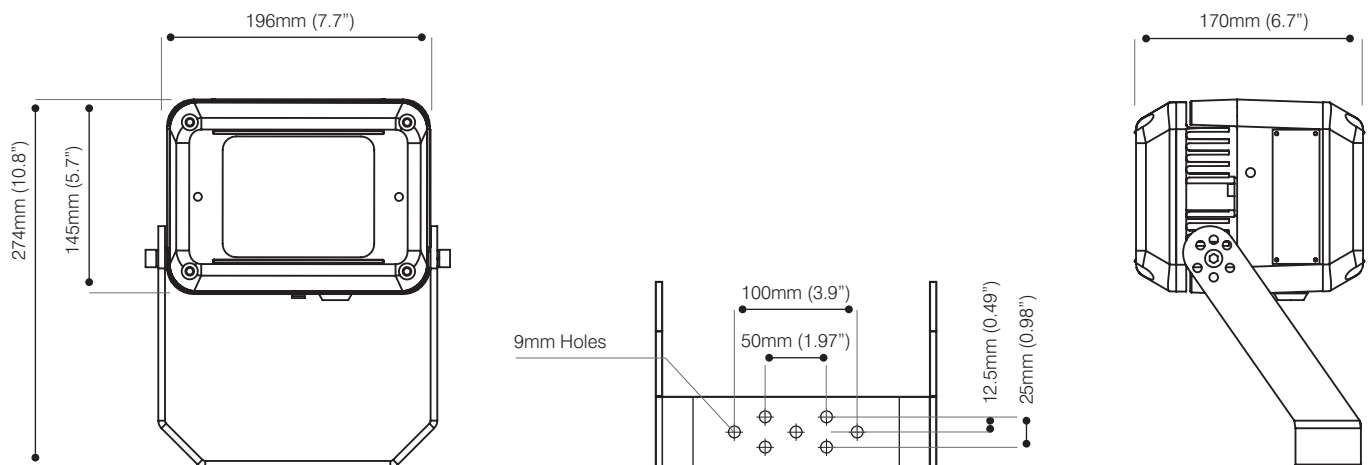
SPARTAN Wildlife Friendly Flood is available in a range of different beam patterns, both circular and elliptical, with revolutionary interchangeable VARIO lens inserts which can be easily altered on-site delivering the ultimate flexibility to specifiers, distributors and end users. SPARTAN uses **COOLEXTRUDE™** thermal management technology, ensuring a much cooler LED operating temperature and up to 60% better heat dissipation compared to traditional lighting solutions, allowing the product to operate for > 10 years while still delivering a high lumen output of up to 2,500 lumens.

Product Dimensions

196mm (7.7")

274mm (10.8")

145mm (5.7")

170mm (6.7")

9mm Holes

100mm (3.9")

50mm (1.97")

12.5mm (0.49")

25mm (0.98")

Features	Benefits
Ultra-Powerful	High lumen output - up to 2,500 lumens Latest high power LED technology
Ultra-Flexible	Beam patterns from 10° to 120° both circular and elliptical Operating temperature range of -50°C to + 55°C with a T4/T5/T6 rating for even the most challenging conditions Models incorporating Vario Technology allow for easy modification of beam pattern
Ultra-Reliable	Industry leading 5 year warranty Designed and manufactured in the UK to the highest standards including both ISO9001 & ISO14001 Advanced electronics and LED's protected by vibration resistant and water proof potting compound
Ultra-Modular	Both the LED and PSU modules are easily accessible for maintenance and inspection Removable PSU housing allows power supply to be fitted remotely
Ultra-Efficient	COOLEXTRUDE™ thermal management delivers class leading energy efficiency Significant running and maintenance savings compared to traditional lighting technologies SMART access wiring system for safe and efficient installation, set-up and ongoing inspection
Ultra-Support	Photometric files available (.ies & .ldt) Full Lighting Design Service Site specific Energy and Cost Saving Report available

5 YEAR WARRANTY

All Raytec luminaires are provided with an industry leading 5 year warranty
and have an expected useful life in excess of 10 years

5 YEAR WARRANTY

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Raytec Americas: +1 613 270 9990 • ushazsales@raytecled.com

Version 2
www.raytecled.com

Technical Specifications

Certification

ATEX Rating:	ATEX and IEC Ex rated for Gas and Dust
Hazardous Area rating:	Zone 1 – Gas and Dust
Certificates:	CML13ATEX3007 & IEC Ex CML 14.0001 UL/CSA, including C1D2
Gas:	II 2 G D Ex e mb op is IIC T4 Gb Ta= Up to -52°C to +55°C (all emergency variants have a lower ambient of -20°C only)
Dust:	Ex tb op is IIIC T82°C Db Ta= Up to -52°C to +55°C - IP66 & IP67
North America Rating:	Class I, Division 2 Groups A, B, C, D, T5 Class II, Division 1 & 2 Groups E, F, G Class III, Division 1 & 2 NEMA 4x, IP66/IP67 UL50E, UL8750, UL 1203 C22.2 No Emergency Variants - Certification Pending
ABS Rating	ABS Certificate # 15-LD1364539-1-PD

Electrical

Input:	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC
Power:	34W
Termination	Incoming terminal block suitable for looping 4 core 4mm² cable
Power Factor:	>0.95
Cable Entries	2xM20 as standard (other entries available upon request), dispatched complete with one ATEX/IEC Ex approved blanking plug 3/4" NPT as standard on C1D2

Optical

Beam Patterns-circular:	10°x 10° or 30°x 30° or 50°x 50° or 120°x 120° (10 x 10 option can be upgraded to VARIO Technology)
Beam Patterns-elliptical:	35°x 10°or 60°x 25° or 80°x 30° or 120°x 50° (VARIO)
Lumen output on mains:	Up to 2,500 lm – circular beam patterns Up to 2,250 lm – elliptical beam patterns (VARIO)
LED type:	Platinum Elite SMT LEDs
Number of LEDs:	12
Dominant Wavelength:	600nm

Mechanical/Environmental

Burning position:	Universal
IP rating:	IP66 & IP67
Temperature range:	-50°C to +55°C
Weight:	5kg (11lbs)
Enclosure:	Marine grade aluminium epoxy powder coated, toughened glass, all external fasteners and brackets are marine grade stainless steel
Unit Colour:	Silver (RAL 9006)
Installation instructions:	Please contact Raytec for copy
Dimensions:	196 x 274 x 170mm (10.8 x 7.7 x 6.7")
Mounting:	U bracket (see dimension drawings on Page 2)

Product Codes - Zone 1

Circular beam pattern

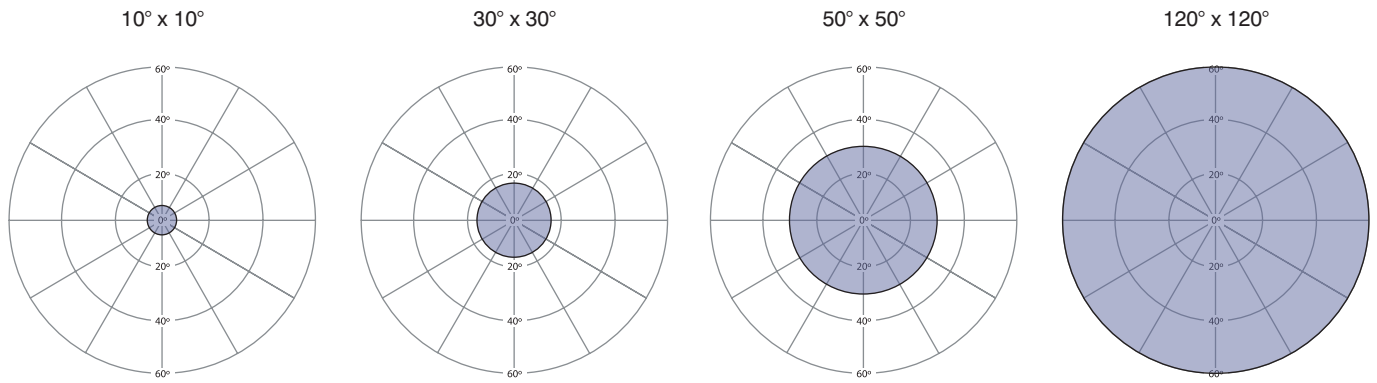| Part Codes	Description (T4 variants as standard)
SPX-FL12-4K-A-1010	SPARTAN Zone 1 Wildlife Friendly Flood, 12 LED, 10°x 10° beam
SPX-FL12-4K-A-3030	SPARTAN Zone 1 Wildlife Friendly Flood, 12 LED, 30°x 30° beam
SPX-FL12-4K-A-5050	SPARTAN Zone 1 Wildlife Friendly Flood, 12 LED, 50°x 50° beam
SPX-FL12-4K-A-120120	SPARTAN Zone 1 Wildlife Friendly Flood, 12 LED, 120°x 120° beam

For options fitted with photocell add '-PC' to the above codes
18-69V variants available, add -LV to the above codes
12V variants available, add -ELV to the above codes
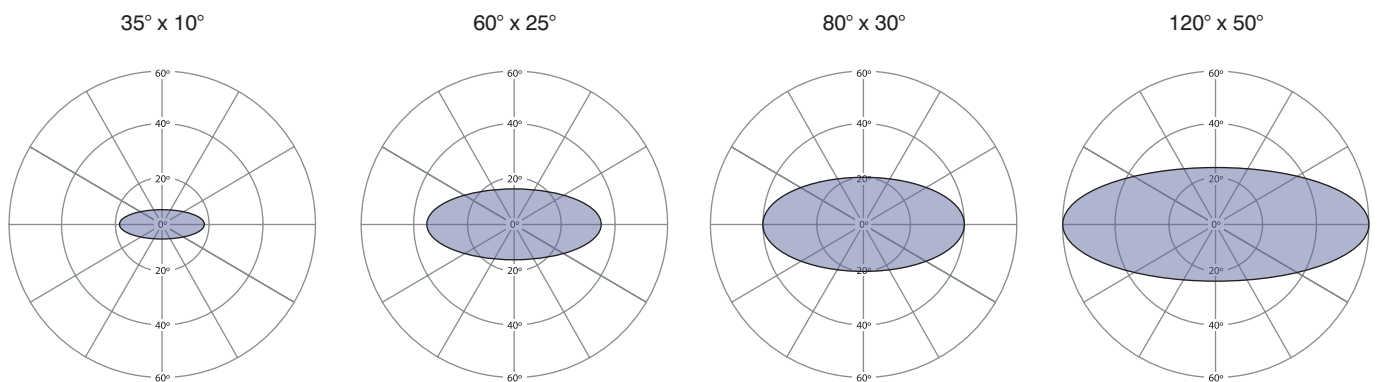Contact Raytec for T5 and T6 variants

Elliptical beam pattern

Part Codes	Description (T4 variants as standard)
SPX-FL12-4K-A-3510	SPARTAN Wildlife Friendly Flood, 12 LED, 35°x 10° beam
SPX-FL12-4K-A-6025	SPARTAN Wildlife Friendly Flood, 12 LED, 60°x 25° beam
SPX-FL12-4K-A-8030	SPARTAN Wildlife Friendly Flood, 12 LED, 80°x 30° beam
SPX-FL12-4K-A-12050	SPARTAN Wildlife Friendly Flood, 12 LED, 120°x 50° beam

For options fitted with photocell add '-PC' to the above codes
18-69V variants available, add -LV to the above codes
12V variants available, add -ELV to the above codes
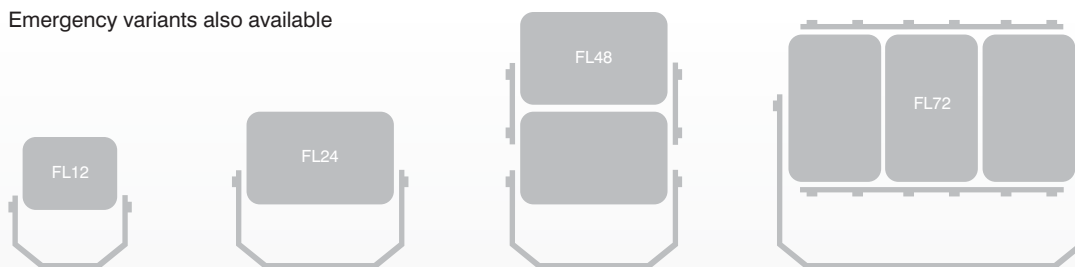Contact Raytec for T5 and T6 variants

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Beam patterns - Circular

| 10° x 10° | 30° x 30° | 50° x 50° | 120° x 120° |

Beam patterns – Elliptical (VARIO)

| 35° x 10° | 60° x 25° | 80° x 30° | 120° x 50° |

Products in the SPARTAN Wildlife Friendly Flood range

Zone 1, Zone 2, UL/CSA, Industrial
Emergency variants also available

FL12 FL24 FL48 FL72

Products in the SPARTAN Family

SPARTAN Flood SPARTAN Linear SPARTAN Bulkhead SPARTAN Bay SPARTAN Crane

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