SPARTAN FLOOD IR12

LED Hazardous Area Floodlight Standard Variants



The SPARTAN Floodlight range is designed specifically for hazardous environments which require high performance, high reliability, Infra-Red illumination. Using Raytec's field-proven, long-life LED technology, SPARTAN Floodlights are ATEX and IEC Ex approved for all Zone 1 and Zone 2 applications and rated for T4, T5 and T6 environments. SPARTAN IR12 is available in standard versions only - for emergency variants see SPARTAN IR24 or IR48.

SPARTAN 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, while the compact design of the SPARTAN Flood IR12 means it is more suited to applications with restricted space.

SPARTAN Flood is available in a variety of different beam patterns, both circular and elliptical, with revolutionary interchangable VARIO lens inserts which can be easily altered on-site delivering the ultimate flexibility to specifiers, distributors and end-users.

SPARTAN uses **CODLEXTRUDE™** 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 high performance Infra-Red illumination.

Key Features

- ATEX & IEC EX approved Zone 1 & 2 UL/CSA approved, including C1D2
- Ultra long life LED
- Easy installation, maintenance and inspection
- Wide operating temperature range of -50° to +55°C

Why Raytec

- UK Designed & Manufactured
- Manufacturing precision engineered LED products
- Worldwide distributor support

- VARIO lens technology easy modification of beam patterns
- Integral photocell (optional)
- 5 year warranty
- Lighting design and full technical support
- ISO9001 and ISO140001 accredited
- Award Winning Technology



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Extended Features

Ultra-Powerful

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 Available as a standard fitting only Removable PSU housing allows power supply to be fitted remotely

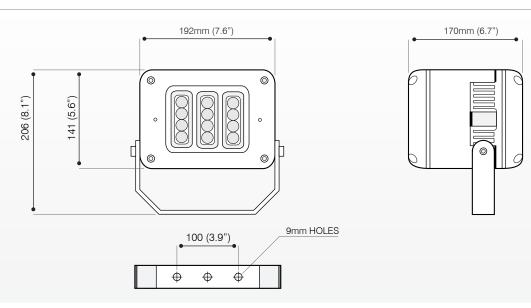
Ultra-Efficient

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

Product Dimensions





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Technical Specifications

Certification		Mechanical/Environmental	
ATEX Rating:	ATEX and IEC Ex rated for Gas and Dust	Burning position:	Universal
Hazardous Area rating	: Zone 1 & 2 – Gas and Dust	IP rating:	IP66 & IP67
Certificates:	CML13ATEX3007 & IEC Ex CML 14.0001	Temperature range:	-50°C to +55°C
	UL/CSA approved, including C1D2	Weight:	5kg (11lbs)
Gas:	II 2 GD Ex emb IIC T5 or T4 Gb Ta -50°C to +55°C II 2 GD Ex emb IIC T6 Gb Ta -50°C to +48°C	Enclosure:	Marine grade aluminium epoxy powder coated, toughened glass, all external fasteners and brackets are marine grade stainless steel
Dust:	Ex tb IIIC T82°C Db	Unit Colour:	Silver (RAL 9006),
	IP66 & IP67 - Ta -50°C to +55°C	Installation instructions:	Raytec ref 910-M-0094 – please contact Raytec for copy
Electrical		Dimensions:	192 x 206 x 170mm (7.6 x 8.1 x 6.4")
Input:	110-254V 50/60Hz AC only Low voltage option also available- 18-30V AC/DC	Mounting:	U bracket (see dimension drawings
Power:	34W		on Page 2)
Termination:	Incoming terminal block suitable for looping 4 core 4mm ² cable		
Power Factor	>0.95		
Cable entries	2xM20 as standard (other entries available upon request), dispatched complete with one ATEX/ IEC Ex approved blanking plug		
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)		
LED type:	Platinum Elite SMT LEDs		
Number of LEDs:	12		

Circular beam pattern

Part Codes	Description (T4 variants as standard)	Distances
SPX-FL12-I-1010	SPARTAN Flood, 12 LED, Infra-Red, 10°x 10° beam	230m
SPX-FL12-I-3030	SPARTAN Flood, 12 LED, Infra-Red, 30°x 30° beam	70m
SPX-FL12-I-5050	SPARTAN Flood, 12 LED, Infra-Red, 50°x 50° beam	57m
SPX-FL12-I-120120	SPARTAN Flood, 12 LED, Infra-Red, 120°x 120° beam	22m

For options fitted with photocell add '-PC' to the above codes For low voltage versions add '-LV' to the above codes Contact Raytec for T5 and T6 varianrs

Elliptical beam pattern

Part Codes	Description (T4 variants as standard)	Distances
SPX-FL12-I-3510	SPARTAN Flood, 12 LED, Infra-Red, 35°x 10° beam	112m
SPX-FL12-I-6025	SPARTAN Flood, 12 LED, Infra-Red, 60°x 25° beam	80m
SPX-FL12-I-8030	SPARTAN Flood, 12 LED, Infra-Red, 80°x 30° beam	52m
SPX-FL12-I-12050	SPARTAN Flood, 12 LED, Infra-Red, 120°x 50° beam	35m

For options fitted with photocell add '-PC' to the above codes For low voltage variants add '-LV' to the above codes Contact Raytec for T5 and T6 varianrs

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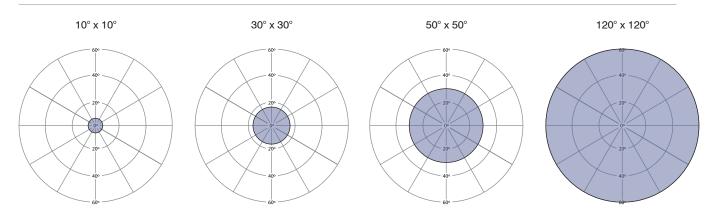
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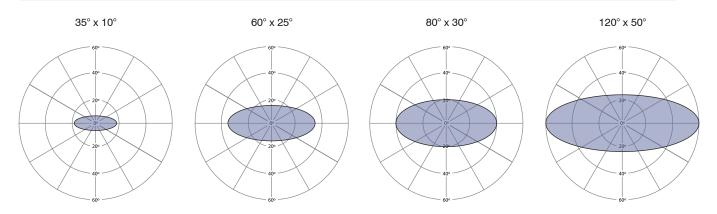


All Raytec luminaires are provided with an industry leading 5 year warranty and have an expected useful life in excess of 10 years

Beam patterns - Circular



Beam patterns – Elliptical (VARIO)



Products in the Spartan Flood 12 range

Spartan Flood 12 WL

Spartan Flood 12 IR





Other Products in the Spartan Hazardous Area Family



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