

# SPARTAN FLOOD IR24



# LED Hazardous Area Floodlight Standard and Emergency Variants

The Spartan Floodlight range is designed specifically for hazardous environments which require high performance, high reliability, Infra-Red illumination. Housed in Marine Grade aluminium with a toughened glass window, and 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/locations. Available in both standard and emergency versions.

Spartan Flood is available in a variety of different beam patterns, both circular and elliptical, to suit any application. The circular beam patterns maximise light output, while the elliptical beam patterns use Raytec's revolutionary VARIO holographic lens technology to shape the light providing greater illumination distances with significantly reduced energy wastage. The VARIO holographic beam patterns can easily be modified – offering ultimate flexibility to specifiers, distributors and end-users.

Spartan Flood has been designed from the ground up for easy installation, easy maintenance, easy inspection, and long life performance. Spartan uses **CDDLEXTRUDE™** thermal management technology, ensuring a much cooler LED operating temperature allowing the product to operate for >10 years. A unique, maintenance-friendly design allows quick and easy servicing and inspection of all key components including LED and PSU modules if required.

### **Features**

- ATEX & IEC EX approved Zone 1 & 2
- Ultra long life LED
- Easy installation, maintenance and inspection
- Emergency variants
- Wide operating temperature range

- Integral photocell (optional)
- 5 year warranty
- VARIO lens technology easy modification of beam patterns

# Why Raytec

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

- · Lighting design and full technical support
- ISO9001 and ISO140001 accredited
- Award Winning Technology



### **Key Features**

#### Ultra-Powerful

Latest high power LED technology

#### Ultra-Flexible

Beam patterns from 10° to 120° both circular and elliptical.

Operating temperature range of  $-50^{\circ}$ C to  $+55^{\circ}$ C with a T4/T5/T6 rating for even the most challenging conditions. ( $-20^{\circ}$ C emergency variants)

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 or emergency fitting – upgradeable on site. Removable PSU housing allows power supply to be fitted remotely

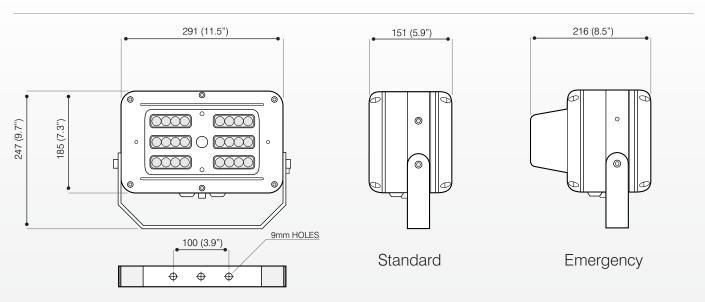
#### Ultra-Efficient

**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**





### **Technical Specifications**

Certification

ATEX Rating: ATEX and IEC Ex rated for Gas and Dust

Hazardous Area rating: Zone 1 & 2 - Gas and Dust

Certificates: CML13ATEX3007 & IECEx Pending
Gas: II 2 GD Ex emb IIC T5 or T4 Gb

Ta -50°C to  $+55^{\circ}\text{C}$  (-20°C emergency variants)

II 2 GD Ex emb IIC T6 Gb

Ta -50°C to +48°C (-20°C emergency variants)

Dust: Ex tb IIIC T82°C Db

IP66 & IP67 -

Ta -50°C to +55°C (-20°C emergency variants)

Electrical

Input: 110-254V 50/60Hz AC only
Power: 60W standard, 65W emergency

Termination: Incoming terminal block suitable for looping 4

core 4mm<sup>2</sup> 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 SMT LEDs

Number of LEDs: 24

Mechanical/Environmental

Burning position: Universal IP rating: IP66 & IP67

Temperature range:  $-50^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  (-20'C emergency variants)

Weight: 8kg (17.6lbs) Standard,

10Kg (22lbs) Emergency

Enclosure: Marine grade aluminium epoxy

powder coated, toughened glass, all external fasteners and brackets are marine grade stainless steel

Unit Colour: Silver (RAL 9006), emergency

battery box red (RAL3024)

Installation instructions: Raytec ref 910-M-0094 -

please contact Raytec for copy

Dimensions: 291x247x150std/215mm emergency

(11.5x9.7x6 std/8.5" emergency)

Mounting: U bracket (see dimension drawings

on Page 2) - complete with locking

screw

Emergency

Lumen output

on emergency: Duruation based on 50% of light

output

(100% output available)

NB: Please consult Raytec prior to ordering

Duration: 90 minutes

Battery: Ni/Cd 12V 4.5Ah

Charge time: 20 hours

System healthy indicator: Green LED located adjacent to

cable entries

### Circular beam pattern

Part Codes	Description (T4 variants as standard)	Distances
SPX-FL24-I-1010	Spartan Flood, 24 LED, Infra-Red, 10°x 10° beam	240m (787ft)
SPX-FL24-I-3030	Spartan Flood, 24 LED, Infra-Red, 30°x 30° beam	80m (264ft)
SPX-FL24-I-5050	Spartan Flood, 24 LED, Infra-Red, 50°x 50° beam	64m (210ft)
SPX-FL24-I-120120	Spartan Flood, 24 LED, Infra-Red, 120°x 120° beam	25m (82ft)

For emergency versions – add '-EM' to the above codes For options fitted with photocell add '-PC' to the above codes Contact Raytec for T5 and T6 varianrs

### Elliptical beam pattern

Part Codes	Description (T4 variants as standard)	Distances
SPX-FL24-I-3510	Spartan Flood, 24 LED, Infra-Red, 35°x 10° beam	120m (394ft)
SPX-FL24-I-6025	Spartan Flood, 24 LED, Infra-Red, 60°x 25° beam	90m (295ft)
SPX-FL24-I-8030	Spartan Flood, 24 LED, Infra-Red, 80°x 30° beam	58m (190ft)
SPX-FL24-I-12050	Spartan Flood, 24 LED, Infra-Red, 120°x 50° beam	38m (125ft)

For emergency versions – add '-EM' to the above codes For options fitted with photocell add '-PC' to the above codes Contact Raytec for T5 and T6 varianrs

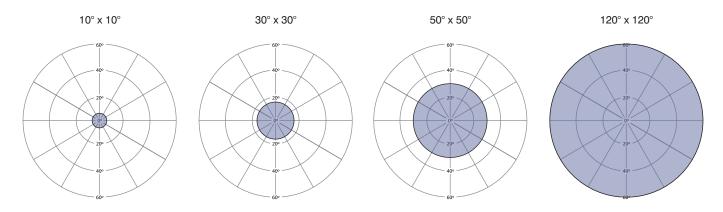
### **5 YEAR WARRANTY**

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

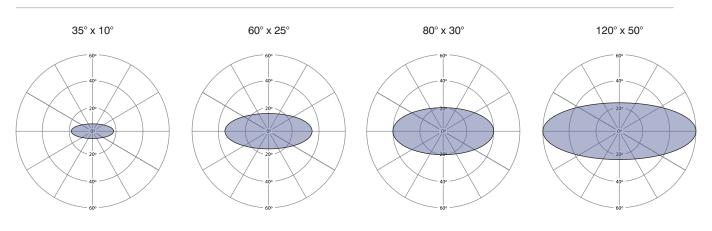




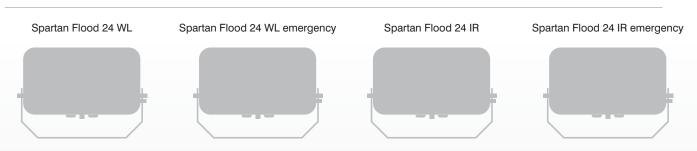
### Beam patterns - Circular



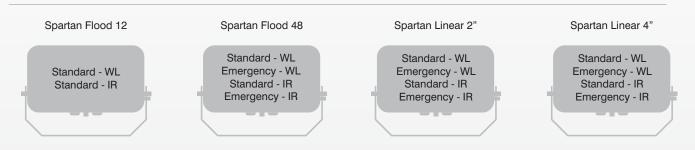
# Beam patterns - Elliptical (VARIO)



# Products in the Spartan Flood 24 range



# Other Products in the Spartan Hazardous Area Family





www.raytecled.com