

LED technology



# IR902L

LED elevated omni-directional outer threshold low intensity lighting solutions

## Applications

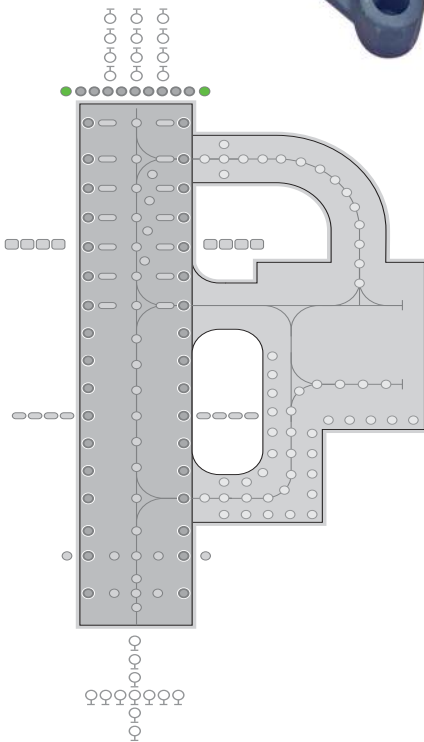
Low Intensity airfield ground lighting (agl) systems

## Compliant with Latest International Standards\*

- ▶ CASA MOS Part 139
- ▶ ICAO Annex 14. Vol 1†
- ▶ FAA AC 150/5345-46†
- ▶ FAA Engineering Brief No. 67†
- ▶ IEC 61827†
- ▶ EASA†
- ▶ Stannag 3316 (NATO)†

\* As applicable to the application, compliance with other civil aviation and military regulations confirmed on request

† Electrical/Mechanical/Environmental characteristics only



LED AGL  
IR902L

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## Electrical Performance

Main Beam Aperture		Colour	Typical Power Consumption - Watts (VA) @ 6.6A				
Horiz(°)	Vert(°)		Per Beam Watts	Fitting* Watts (VA)	PF	Tx Primary** Watts (VA)	PF
0 to 359	0 to 7	CYN/GRN	7.5	18.9 (19.4)	0.975	21.8 (22.8)	0.953

Fixture Operational Current Range: 6.5 to 6.7A RMS

\* as measured at the input leads of the fixture.

\*\* as measured across the primary winding of an appropriately sized isolation transformer with a total fixture and transformer secondary length not exceeding - 1.85m (72"). CCR shall be suitably sized for the indicated transformer VA for the relevant isolating transformer utilised.

Notes: Isolating transformer shall be suitably sized to accommodate specific secondary and other applicable losses.

## Environmental Conditions

- ▶ Ambient Temperature -55 °C to +55°C (-67 °F to +131°F)
- ▶ Storage Temperature -55°C to +55°C (-67 °F to +131°F)

▶ Ingress Protection > IP24

## Photometry

### Specification

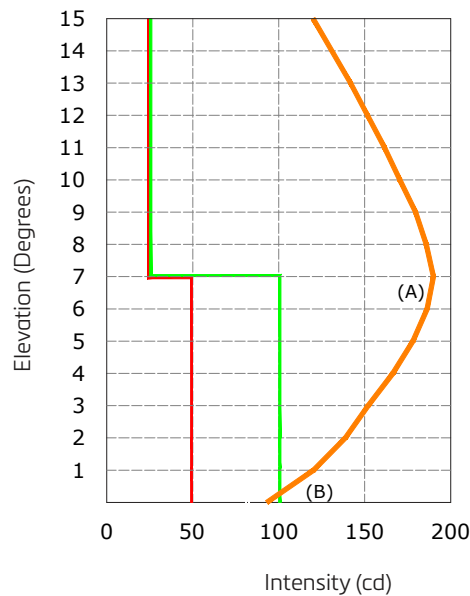
Low Intensity Threshold (outer) Edge MOS Part 139 - Para. 9.55 Fig 9.75(1)

Colour	Green-Cyan
Max/Min Intensity ratio	<3.0
Main rect. average intensity range	100-300 cds
Main rect. minimum intensity range	50-150 cds
Second rect. minimum intensity	25 cds

### Typical Measured Values

Colour	Green-Cyan
Max/Min Intensity ratio	2.64
Main rect. average intensity	138.4 cds
Main rect. maximum intensity (A)	152 cds
Main rect. minimum intensity (B)	57.5 cds
Second rect. minimum intensity	38.2 cds

Intensity Chart - Iris Low Intensity Runway Outer Threshold. Cyan Green

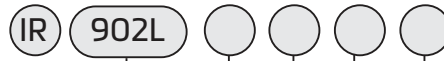


- IR902L - Performance @ 6.6A
- MOS139 Runway Edge Low Intensity: Fig 9.75(1)  
Minimum Individual Intensity (50cds)
- MOS139 Runway Edge Low Intensity: Fig 9.75(1)  
Minimum Average Intensity (100cds)

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## Ordering Codes



**Application**  
Low intensity omni-directional outer threshold

**Beam Type**  
7 = Omni directional (360°)

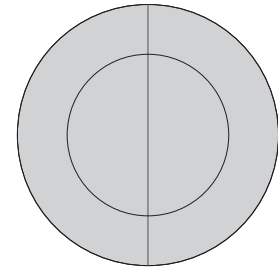
**Colour**  
C = Cyan/Green

**Specification**  
3 = MOS139

**Mounting**  
0 = No Stem or Frangible Coupling  
1 = Frangible M32 (1 1/4") Threaded Mounting Stem  
H \* = 356mm (14")  
2 = 32mm (1 1/4") Solid Stem with 50.8mm (2") Frangible Coupling, 11.5 TPI  
H \* = 356mm (14")\*\*

\* Overall fitting mounting height when fitted to an L867 mounting plate

## Beam Options



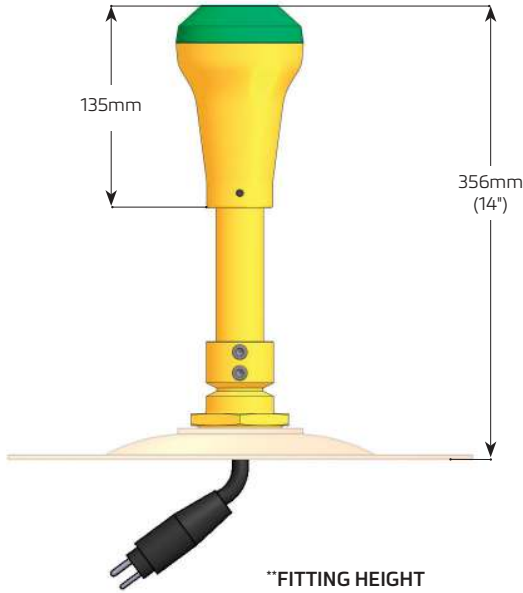
IR902L  
Omni Directional

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## Dimensions

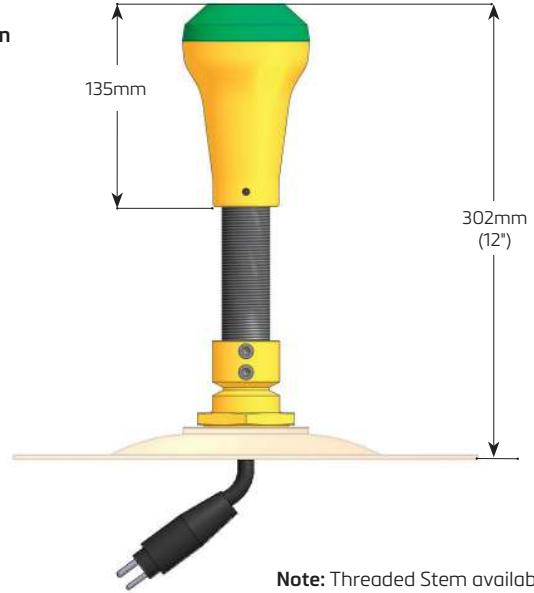
Standard Configuration



**\*\*FITTING HEIGHT**  
356mm (14") standard fitting height. Dimensions based on L867 Base Mounting Plate.

**Typical Installation Details**  
Mounting Plates sold separately.

Frangible Threaded Stem Option



**Note:** Threaded Stem available for direct mounting into Spun Ground Mounting Plate or Mounting Spike. Only available in 302mm (12") fitting height.

## Packaging

- ▶ Net weight 0.86kg
- ▶ Gross weight 1.0kg (boxed)
- ▶ Box 360mm (L) x 120mm (W) x 120mm (H)



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