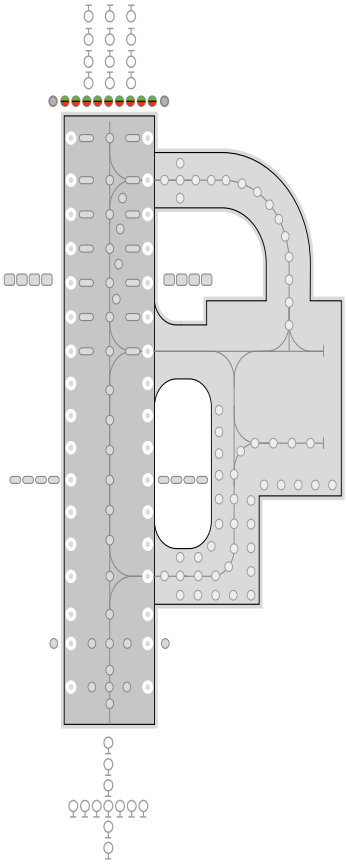
IR957L

LED 8” bi-directional threshold / runway end medium intensity lighting solutions



Applications

Medium 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

UK: +44 (0) 1942 68 5555 | USA: 001 (239) 985-9406
www.atgairports.com enquiries@atgairports.com sales-usa@atgairports.com

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Electrical Performance

Main Beam Aperture		Colour	Typical Power Consumption - Watts (VA) @ 6.6A				
			Per Beam	Fitting*		Tx Primary**	
Horiz(°)	Vert(°)		Watts	Watts (VA)	PF	Watts (VA)	PF
-19 to 19	0 to 7	CYN/RED	6.2/3.8	25.8 (26.0)	0.975	35.0 (38.5)	0.986

Fixture Operational Current Range: 2.8 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”).

Note: 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 IP67

Photometry

Specification
Medium Intensity threshold MOS Part 139 - Para. 9.57 Fig 9.75(1)

Colour	Green-Cyan
Max/Min Intensity ratio	<3.0
Main rect. average intensity	200-900 cds
Main rect. minimum intensity	100-450 cds
Second rect. minimum intensity	50 cds

Typical Measured Values

Colour	Green-Cyan
Max/Min Intensity ratio	2.64
Main rect. average intensity	260 cds
Main rect. maximum intensity (A)	304 cds
Main rect. minimum intensity (B)	115 cds
Second rect. minimum intensity	79 cds

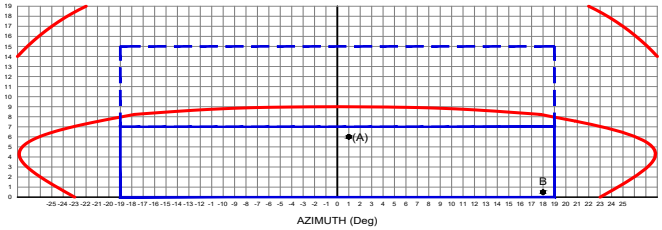
Specification
Low Intensity Runway End MOS Part 139 - Para. 9.65 Fig 9.75(1)

Colour	Red
Max/Min Intensity ratio	<3.0
Main rect. average intensity	50 -300 cds
Main rect. minimum intensity	25 -150 cds
Second rect. minimum intensity	5.0 cds

Typical Measured Values

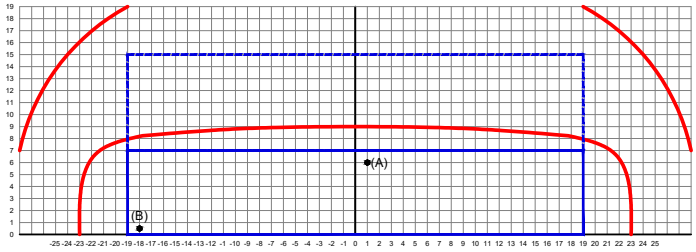
Colour	Red
Max/Min Intensity ratio	2.48
Main rect. average intensity	84 cds
Main rect. maximum intensity (A)	124 cds
Main rect. minimum intensity (B)	50 cds
Second rect. minimum intensity	13 cds

Intensity Chart - IR957L Bi-Directional Medium Intensity threshold (Inner)



AZIMUTH (Deg)

Intensity Chart - IR957L Bi-Directional Medium Intensity runway end



AZIMUTH (Deg)

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Ordering Codes

IR 957L ○ ○ ○ ○ ○

Application
Medium intensity bi-directional threshold / runway end

Beam Type
A Side
1 = Straight

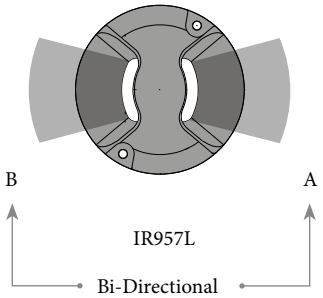
B Side
1 = Straight

Colour
A Side
C = Cyan/Green

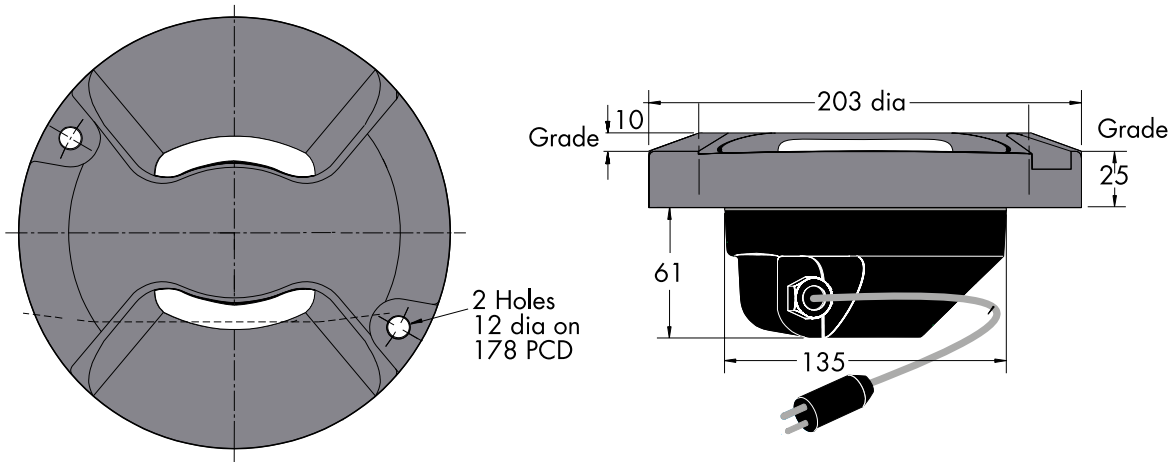
B Side
R = Red

Specification
3 = MOS139

Beam Options



Dimensions



Packaging

- Net weight 3.12Kg
- Gross weight 3.52Kg (boxed)
- Box 260mm (L) x 260mm (W) x 175mm (H)

*Dimensions are nominal

Head Office:
atg airports ltd
Lowton Business Park | Newton Road
Lowton St. Mary’s | Warrington
WA3 2AP | United Kingdom

UK: +44 (0) 1942 68 5555 | USA: 001 (239) 985-9406
www.atgairports.com enquiries@atgairports.com sales-usa@atgairports.com