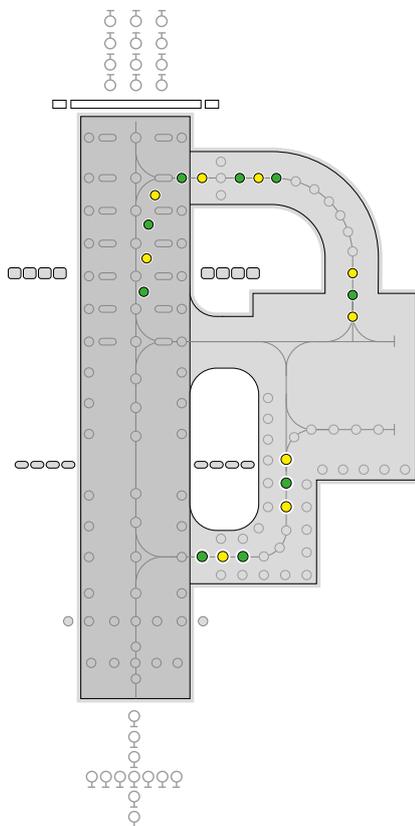


LED technology



# IR8520

IRIS LED 8" taxiway centre line, straight sections (offset), high intensity lighting solutions



## Applications

CAT III all weather operation airfield ground lighting (agl) systems.

## Compliant with Latest International Standards\*

- ▶ 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

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IRIS LED AGL  
**L-8520**

# IR8520 IRIS LED 8" taxiway centre line, straight sections (offset), high intensity lighting solutions



## 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
-10 to +10	1 to 8	GRN/GRN	2.03/2.03	14.99 (15.12)	0.992	23.85 (24.70)	0.967
-10 to +10	1 to 8	YEL/YEL	2.54/2.54	15.76 (15.88)	0.992	24.70 (25.50)	0.969
-10 to +10	1 to 8	GRN/YEL	2.03/2.54	15.33 (15.46)	0.992	24.34 (25.16)	0.967
-10 to +10	1 to 8	GRN/BLK	2.03/-	11.77 (11.82)	0.996	20.47 (21.24)	0.964
-10 to +10	1 to 8	YEL/BLK	2.54/-	11.63 (11.68)	0.996	20.45 (21.20)	0.963

Fixture Operational Current Range: 2.7 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.

For Bi-directional twin lead option use unidirectional electrical performance for each direction.

## 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

#### Taxiway Centreline Straight (offset) ICAO Fig 2.12

Colour	Green
Max/Min Intensity Ratio	<3.0
Main rect. average intensity	200 cds
Main rect. minimum intensity	100 cds
Second rect. minimum intensity	20 cds

### Typical Measured Values

Colour	Green
Max/Min Intensity Ratio	2.49
Main rect. average intensity	304 cds
Main rect. maximum intensity (A)	401 cds
Main rect. minimum intensity (B)	161 cds
Second rect. minimum intensity	115 cds

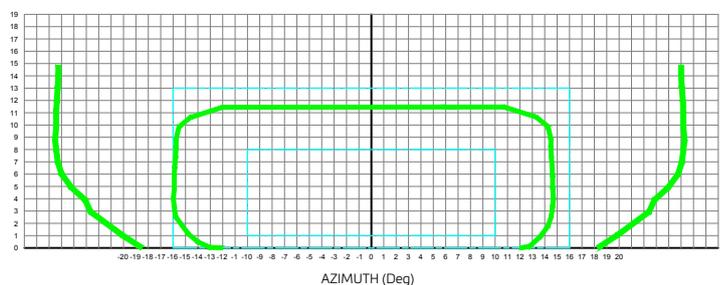
### Specification

Colour	Yellow
Max/Min Intensity Ratio	<3.0
Main rect. average intensity	200 cds
Main rect. minimum intensity	100 cds
Second rect. minimum intensity	20 cds

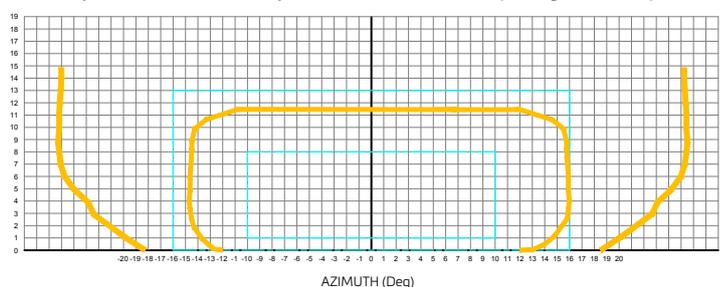
### Typical Measured Values

Colour	Yellow
Max/Min Intensity Ratio	2.57
Main rect. average intensity	279 cds
Main rect. maximum intensity (A)	380 cds
Main rect. minimum intensity (B)	147 cds
Second rect. minimum intensity	88 cds

Intensity Chart - IRIS Taxiway Centreline Luminaire (Straight Offset) Green



Intensity Chart - IRIS Taxiway Centreline Luminaire (Straight Offset) Yellow



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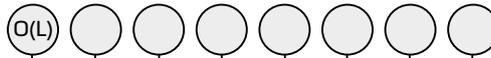
IRIS LED AGL  
L-8520

# IR8520

IRIS LED 8" taxiway centre line, straight sections (offset), high intensity lighting solutions



## Ordering Codes IR852



**Application**  
L-8520(L) Taxiway Centreline  
Straight (Offset)

**Beam Type**  
**A Side**  
6 = Straight (Offset)  
0 = Blank  
.....  
**B Side**  
6 = Straight (Offset)  
0 = Blank

**Colour**  
**A Side**  
G = Green  
Y = Yellow  
C = Cyan/Green  
N = Not Applicable  
.....  
**B Side**  
G = Green  
Y = Yellow  
C = Cyan/Green  
N = Not Applicable

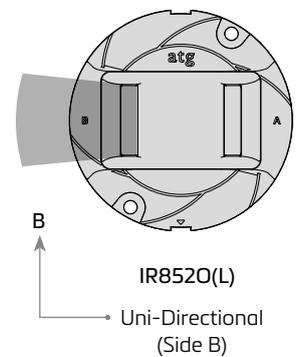
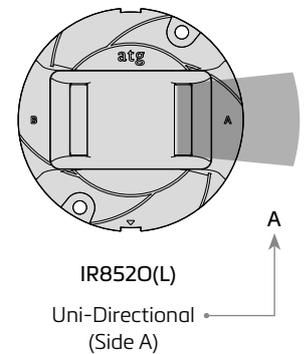
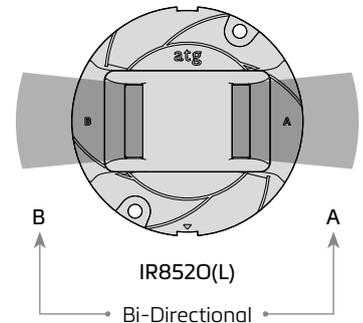
**Specification**  
1 = ICAO

**Connections**  
1 = 1 Plug Bi Pin  
2 = 2 Plug Bi Pin

**Fixture Monitoring - Fail Open Feature**  
0 = No Open Circuit  
1 = Open Circuit

Additional optional features are available upon request

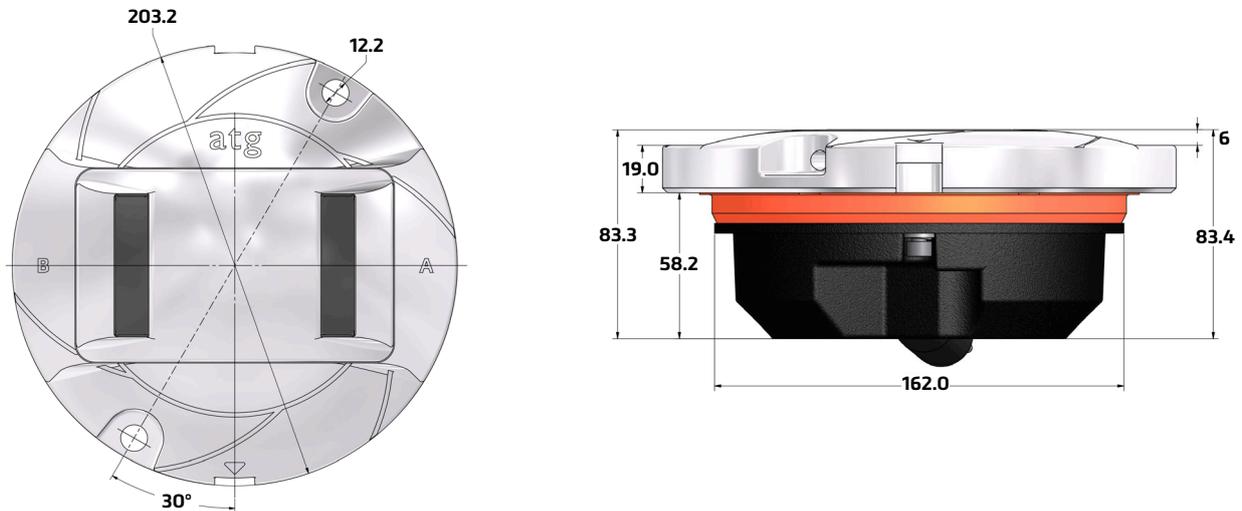
## Beam Options



# IR8520

IRIS LED 8" taxiway centre line, straight sections (offset), high intensity lighting solutions

## Dimensions



## Packaging

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

\*Dimensions are nominal

Consultants specification and installation information for the Iris range is available by request. Contact [marketing@atgairports](mailto:marketing@atgairports) for further details.

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IRIS LED AGL  
L-8520(L)