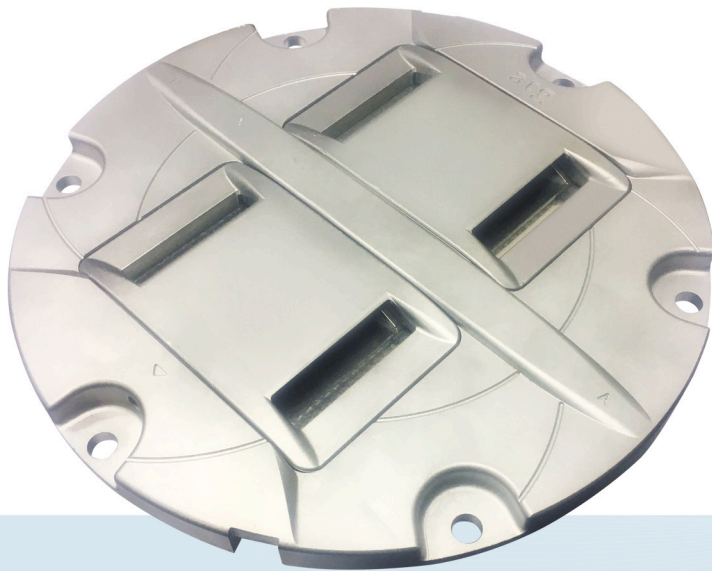
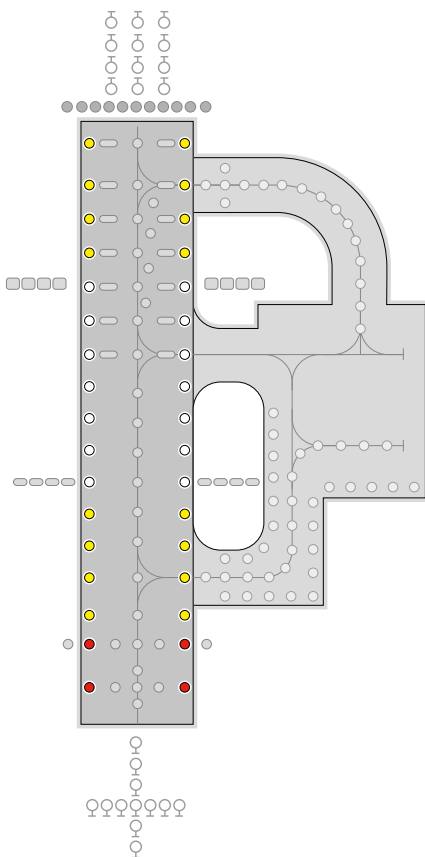




IR850C

IRIS LED 12" runway
edge 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

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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
-2 to +9	0 to 7	WHT/WHT	39.7/39.7	119 (119.6)	0.99	154.8 (155.8)	0.99
-2 to +9	0 to 7	WHT/YEL	39.7/16.2	88.3 (88.7)	0.99	123.9 (125.4)	0.98
-2 to +9	0 to 7	WHT/RED	39.7/12.5	85.7 (86.0)	0.99	120.8 (122.7)	0.98
-2 to +9	0 to 7	YEL/RED	16.2/12.5	55.0 (55.1)	0.99	89.9 (92.1)	0.98

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.

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

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IRIS LED AGL
L-850C

IR850C

IRIS LED 12" runway edge high intensity lighting solutions



Photometry

Specification

Runway Edge ICAO Fig. A2-9 FAA L-850C

Colour	White
Max/Min Intensity ratio	<3.0
Main ellipse average intensity	10000cds
Main ellipse minimum intensity	5000cds
Second ellipse minimum intensity	1000cds
Third ellipse minimum intensity	500cds

Typical Measured Values

Colour	White
Max/Min Intensity ratio	2.43
Main ellipse average intensity	10166cds
Main ellipse maximum intensity	14349cds
Main ellipse minimum intensity	5910cds
Second ellipse minimum intensity	3432cds
Third ellipse minimum intensity	1793cds

Specification

Colour	Yellow
Max/Min Intensity ratio	<3.0
Main ellipse average intensity	4000cds
Main ellipse minimum intensity	2000cds
Second ellipse minimum intensity	400cds
Third ellipse minimum intensity	200cds

Typical Measured Values

Colour	Yellow
Max/Min Intensity ratio	2.57
Main ellipse average intensity	5160cds
Main ellipse maximum intensity	7068cds
Main ellipse minimum intensity	2741cds
Second ellipse minimum intensity	1378cds
Third ellipse minimum intensity	880cds

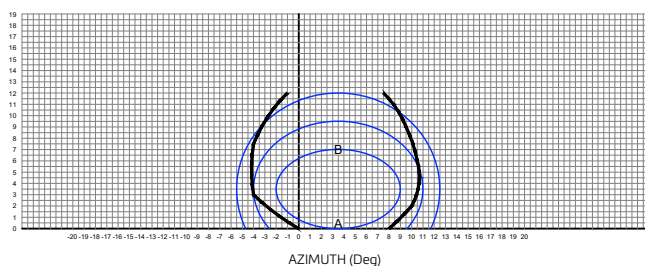
Specification

Colour	Red
Max/Min Intensity ratio	<3.0
Main ellipse average intensity	1500cds
Main ellipse minimum intensity	750cds
Second ellipse minimum intensity	150cds
Third ellipse minimum intensity	75cds

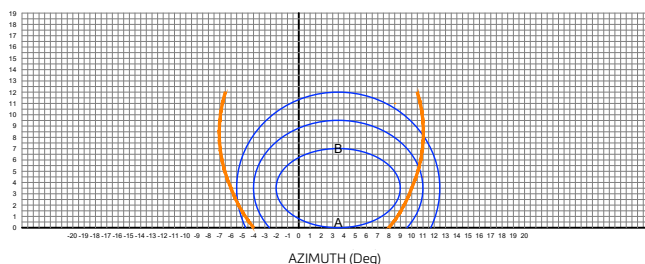
Typical Measured Values

Colour	Red
Max/Min Intensity ratio	2.27
Main ellipse average intensity	2122cds
Main ellipse maximum intensity	2918cds
Main ellipse minimum intensity	1285cds
Second ellipse minimum intensity	764cds
Third ellipse minimum intensity	465cds

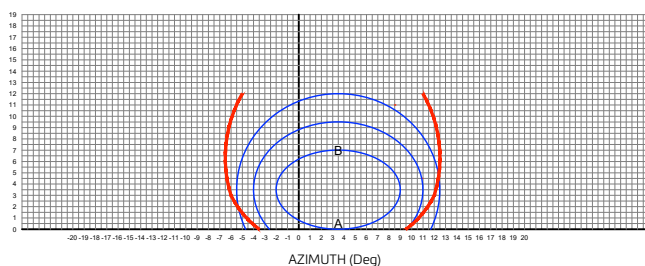
Intensity Chart - IRIS Runway Edge Luminaire - White



Intensity Chart - IRIS Runway Edge Luminaire - Yellow



Intensity Chart - IRIS Runway Edge Luminaire - Red



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IRIS LED AGL
L-850C

IR850C

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Ordering Codes IR850



Application

L-850C(L) - Runway Edge (45m Wide)

Beam Type

A Side

3 = Toe in right

0 = Blank

B Side

2 = Toe in left

0 = Blank

Colour

A Side

W = White

Y = Yellow

R = Red

0=Blank

B Side

W=White

Y=Yellow

R=Red

0=Blank

Specification

1 = FAA

2 = ICAO

Connections

1 = 1 Bi Pin Plug

2 = 2 Bi Pin Plug

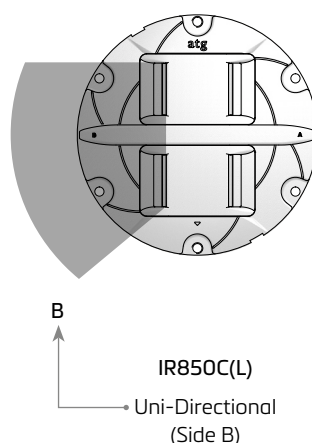
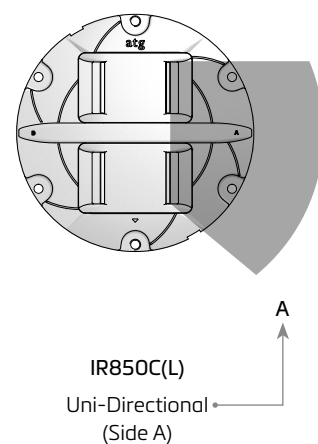
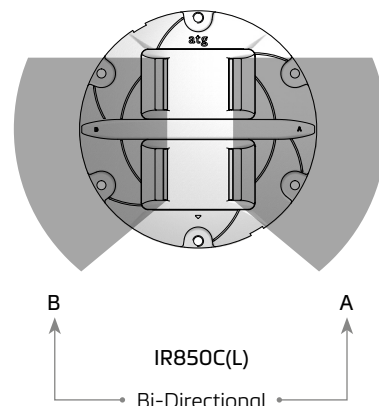
Fixture Monitoring - Fail Open Feature

0 = No Open Circuit

1 = Open Circuit

Additional optional features are available upon request

Beam Options



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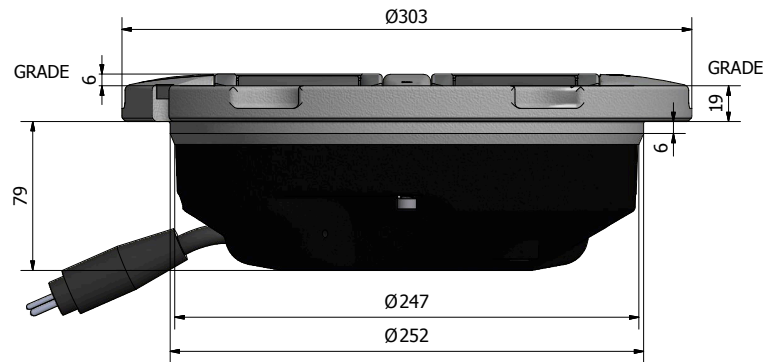
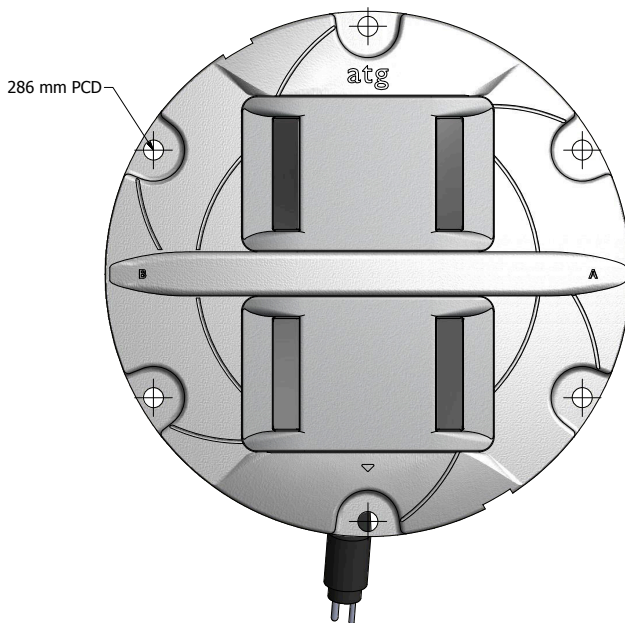
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IRIS LED AGL
L-850C

IR850C

IRIS LED 12" runway edge high intensity lighting solutions

Dimensions



Packaging

► Net weight 9.3Kg ► Gross weight 7.6kg (boxed) ► Box 50mm (W) x 330mm (D) x 330mm (H)

*Dimensions are nominal

Consultants specification and installation information for the Iris range is available by request.
Contact marketing@atgairports for further details.

atg airports reserve the right to change technical data and details at any point in time.



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