

LED technology

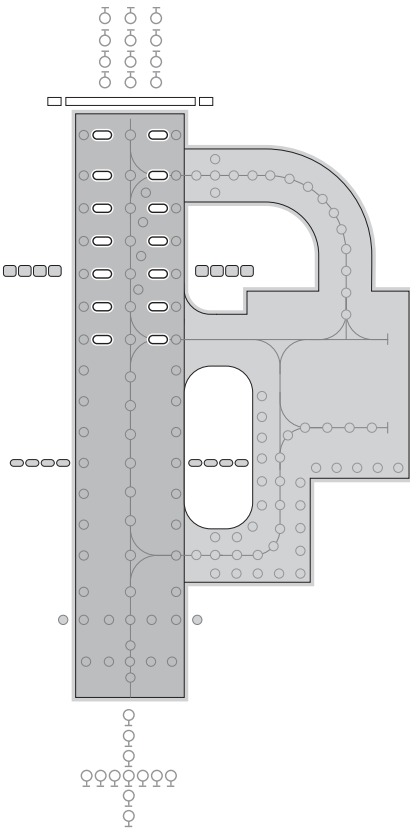


IR850B

LED 8" Touch down Zone (TDZ), 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

LED AGL
L-850B

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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
-5 to +5	2 to 9	WHT/BLK	17.11/-	27.76 (27.93)	0.993	37.91 (38.85)	0.976
-1 to +9	2 to 9	WHT/BLK	17.11/-	27.76 (27.93)	0.993	37.91 (38.85)	0.976
-9 to +1	2 to 9	WHT/BLK	17.11/-	27.76 (27.93)	0.993	37.91 (38.85)	0.976

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

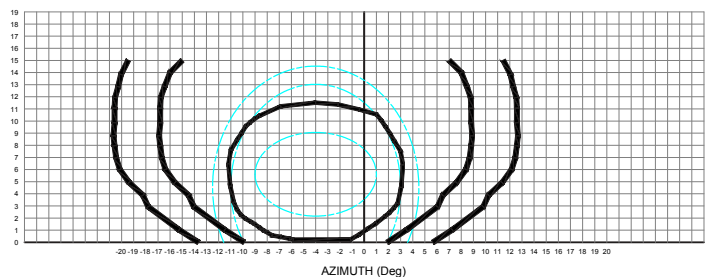
Specification Touch Down Zone ICAO Fig A2-5 FAA L-850B

Colour	White
Max/Min Intensity Ratio	<3.0
Main ellipse average intensity	5000 cds
Main ellipse minimum intensity	2500 cds
Second ellipse minimum intensity	1000 cds
Third ellipse minimum intensity	500 cds

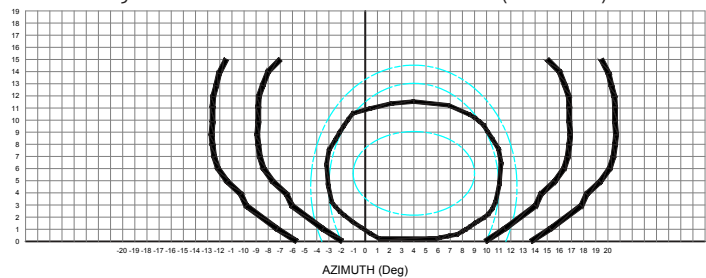
Typical Measured Values

Colour	White
Max/Min Intensity Ratio	1.9
Main ellipse average intensity	5700 cds
Main ellipse maximum intensity	7200 cds
Main ellipse minimum intensity	3900 cds
Second ellipse minimum intensity	2900 cds
Third ellipse minimum intensity	1900 cds

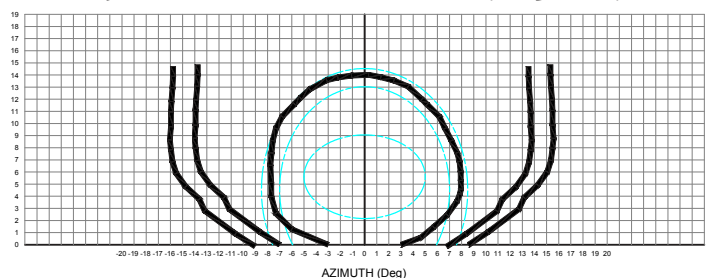
Intensity Chart - Touch Down Zone Luminaire - (toe-in right) White



Intensity Chart - Touch Down Zone Luminaire - (toe-in left) White



Intensity Chart - Touch Down Zone Luminaire - (straight axial) White



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Ordering Codes:



Application
L-850B(L) - touch down zone (TDZ)

Beam Type
A Side
 1 = Straight
 3 = Toe in right
 0 = Blank

B Side
 1 = Straight
 2 = Toe in left
 0 = Blank

Colour
A Side
 W = White
 N = Not Applicable

B Side
 W = White
 N = Not Applicable

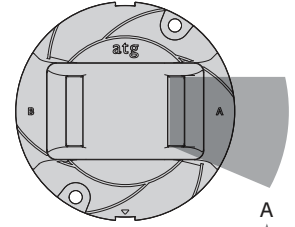
Specification
 1 = FAA
 2 = ICAO

Connections
 1 = 1 Bi Pin Plug

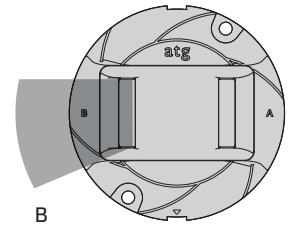
Fixture Monitoring - Fail Open Feature
 0 = No Open Circuit
 1 = Open Circuit

Additional optional features are available upon request

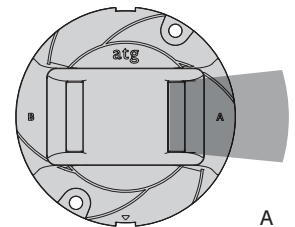
Beam Options



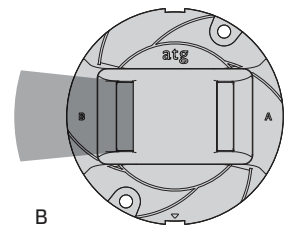
IR850B(L)
Uni-Directional
(Side A - Toe-in Right)



IR850B(L)
Uni-Directional
(Side B - Toe-in Left)



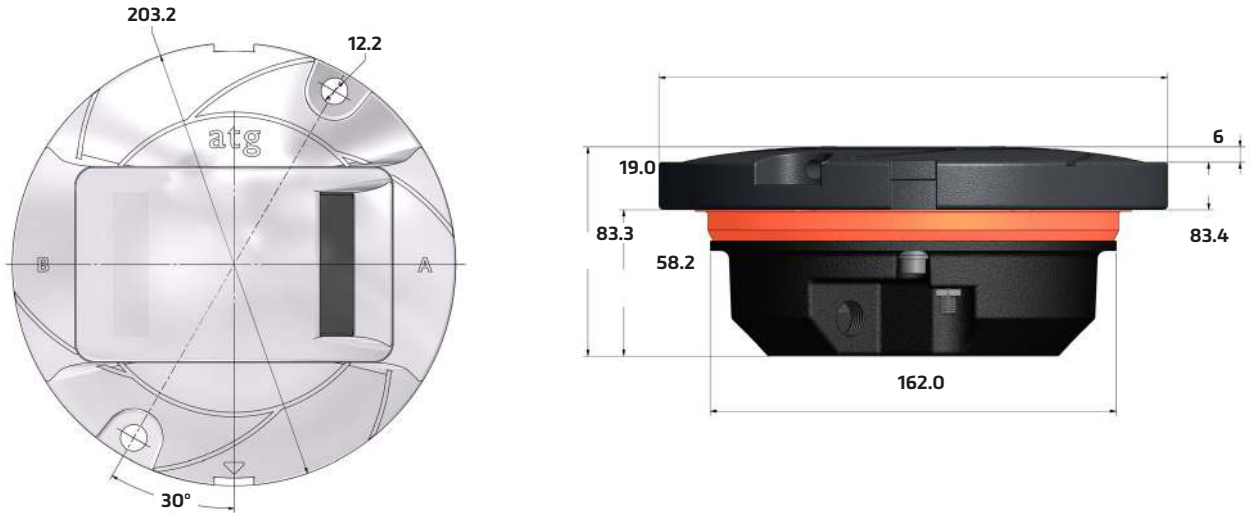
IR850B(L)
Uni-Directional
(Side A - Straight axial)



IR850B(L)
Uni-Directional
(Side B - Straight axial)

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Dimensions



Packaging

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

*Dimensions are nominal



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