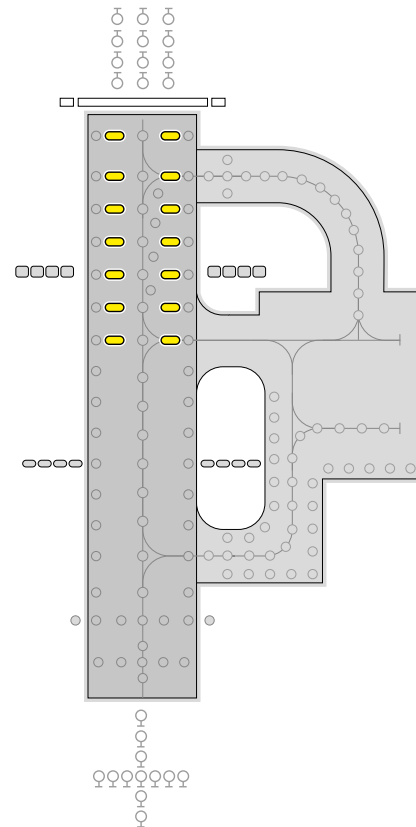
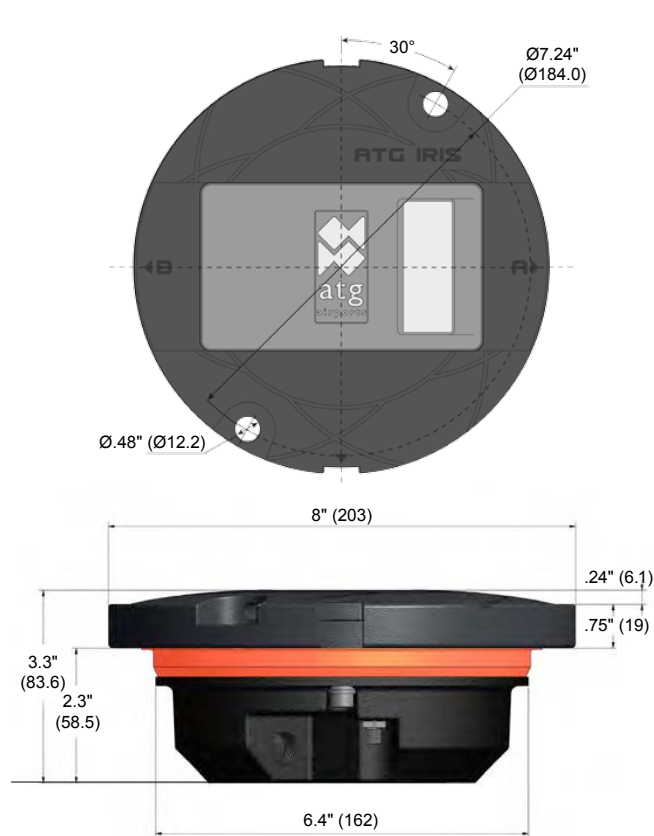


IR850B | L-850B(L) IRIS LED 8" Touch Down Zone (TDZ), High Intensity Lighting Solutions

Compliance and Applications

- ICAO Annex 14, Vol 1
- FAA AC 150/5345-46
- FAA Engineering Brief No. 67
- IEC 61827
- EASA
- Stannag 3316 (NATO)

The IR850B is an LED Touchdown Zone Lights (TDZ) fixture. This application uses a high intensity, uni-directional clear (white) light source, and is suitable for CAT II/III operations. The optimization of power reduces running costs. A minimum 50,000 hours LED service life reduces runway closures for maintenance.



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Flight Light Inc., 2708 47th Ave.
Sacramento, CA, 95822, USA

Ordering Codes IR850 (B(L))

Application
L-850B(L) - TDZ

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

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

Color
A Side
 W = White
 N = Not Applicable

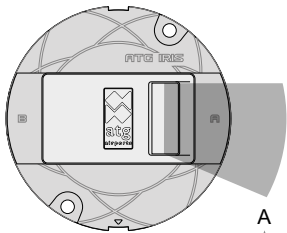
B Side
 W = White
 N = Not Applicable

Specification
 1 = FAA
 2 = ICAO

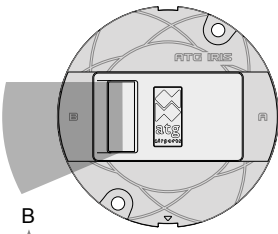
Connections
 1 = 1 Bi Pin Plug

Open Circuit (Fail Open) Feature
 0 = No Open Circuit
 1 = Open Circuit

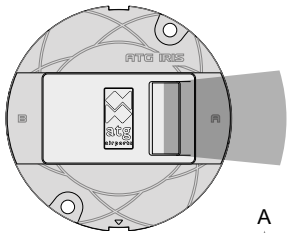
Beam Options



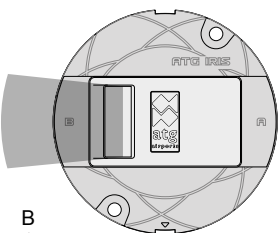
IR850B(L)
Uni-Directional (Side A - Toe Right)



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



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



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

Additional optional features are available upon request.

Packaging

- Net weight: 6.88 lb. (3.12Kg)
- Gross weight: 7.76 lb. (3.52Kg) (boxed)
- Box: 10.2" (260mm) (L) x 10.2" (260mm) (W) x 6.9" (175mm) (H)

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Electrical Performance

Main Beam Aperture		Color	Typical Power Consumption - Watts (VA) @ 6.6A				
Horiz(°)	Vert(°)		Per Beam Watts	Fixture* 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

* 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

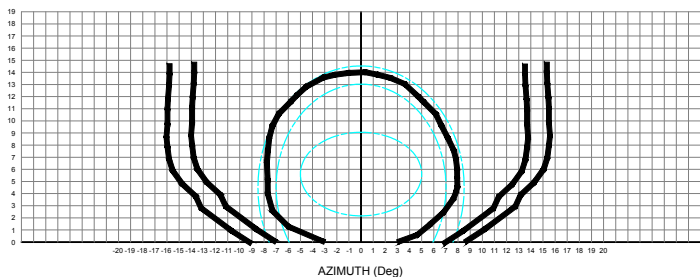
Specification Touch Down Zone ICAO Gig FAA L-850B

Color	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

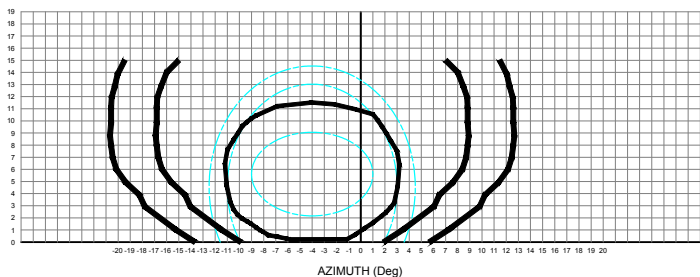
Typical Measured Values

Color	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 - IRIS Touch Down Zone Luminaire - Axial



Intensity Chart - IRIS Touch Down Zone Luminaire - Right



Intensity Chart - IRIS Touch Down Zone Luminaire - Left

