FX862C

Runway Edge
Elevated LED fixture
High intensity
lighting solutions

Compliant to Latest International Standards*

- ICAO Annex 14. Vol 1
- FAA AC 150/5345-46†
- FAA Engineering Brief No.67
- TP312
- MOS139
- IEC 61827
- EASA
- Stannag 3316 (NATO)

Applications

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

* 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: **+1 (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				
Horiz(°)	Vert(°)		Per Beam Watts nominal	Fitting* Watts (VA)	Fitting* PF	Tx Primary** Watts (VA)	Tx Primary** 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

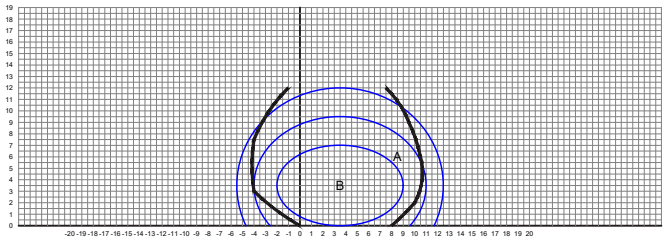
Fixture Operational Current Range: 2.8 to 6.7A RMS

* 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").
*** electrical characteristics measured with 45 watt transformer, fitting can operate from transformers up to 210 watts.
Note: Isolating transformer shall be suitably sized to accommodate specific secondary and other applicable losses.

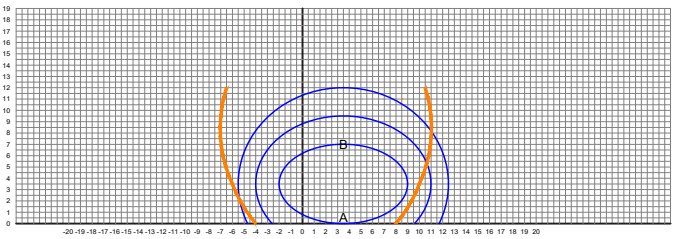
Photometry

Specification	
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	10938cds
Main ellipse minimum intensity	6358cds
Second ellipse minimum intensity	3432cds
Third ellipse minimum intensity	1793cds
Specification	
Colour	Yellow
Max/Min Intensity ratio	<3.0
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 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 minimum intensity	1285cds
Second ellipse minimum intensity	764cds
Third ellipse minimum intensity	465cds

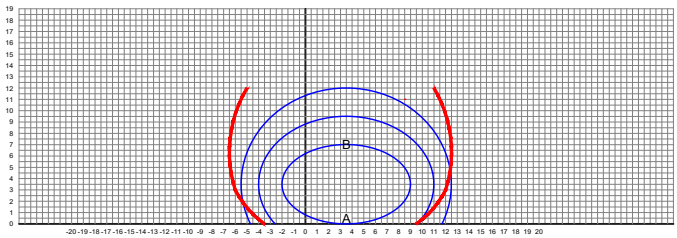
Intensity Chart - Elevated Runway Edge Luminaire - White



Intensity Chart - Elevated Runway Edge Luminaire - Yellow



Intensity Chart - Elevated Runway Edge Luminaire - Red



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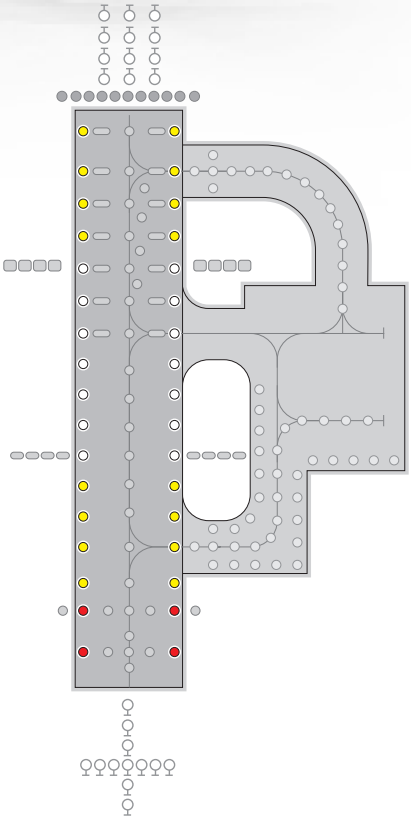
Features



Low energy consumption compared with the tungsten halogen equivalent.

Greatly reduced maintenance: Estimated lamp life of 75,000 hours at 6.6A.

Operates on the full range of 2.8A to 6.6A on either 3 or 5 step IGBT, ferroresonant or thyristor CCRs that are designed in compliance with IEC or FAA requirements. Fully dimmable lights, replicating the response curve of traditional halogen lights.

Omnidirectional beam for circular guidance is available for bidirectional runway Edge fixture

No need to replace the CCRs, series transformers, or cables. Full compatibility with existing airfield lighting series circuits. Installation on same mounting device as most conventional lights, for a straightforward replacement.

Monitoring function of the individual light source. In case of a defect, the LED light automatically disconnects from the secondary side of the isolation transformer, resulting in an open circuit condition.

Low operating temperature, ensuring longer component life.

FAA L-823 connector

Sealed cable entry to main assembly interface preventing insect and water ingress.

powder coating, aviation yellow colour

Integral surge protection

Environmental Conditions

- Ambient Temperature -55 °C to +55°C (-67 °F to +131°F)
- Storage Temperature -55°C to +70°C (-67 °F to +158°F)
- Atmospheric Altitude up to 10,000 feet (3000m)
- Relative Humidity 0-100% (sealed unit)

Standards	
EMC protection	Immunity IEC 61000-4 Emission IEC 61000-2
Ingress protection class dust/liquids	IP67 (IEC69598-1)
Vibration resistance	IEC60068-2-6

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Ordering Codes: FX 862C ○ ○ ○ ○ 5 ○ ○

Application
L-862C (L) Runway Edge

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

Omni Directional Component
0 = No omni directional optic
7 = Omni directional optic fitted

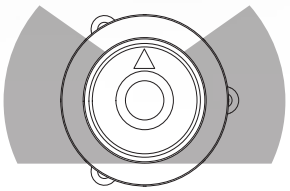
Specification
Refer to front cover

Connections
1 = 1 x Bi-pin plug
2 = 2 x Bi-pin plug

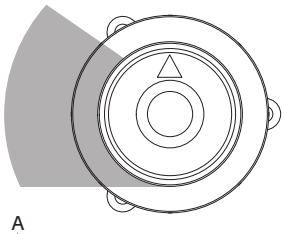
Additional optional features are available upon request

*** Note**
This product has a 3.5º angle of toe and is sutable for runway width of 45Mts

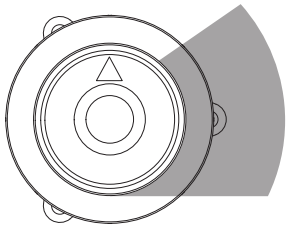
Beam Options



(Low Intensity Omni-directional)

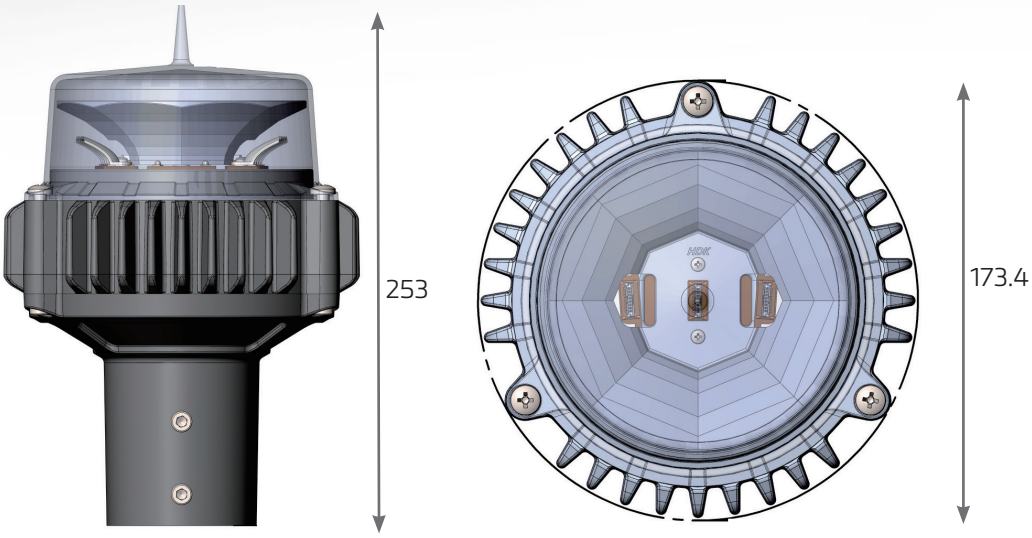


(Low Intensity Omni-directional)



(Low Intensity Omni-directional)

Dimensions



Packaging

- Net weight 3.0Kg
- Gross weight 3.3 (boxed)
- Box 350mm (L) x 218mm (W) x 216mm (H)

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