



FX862CW

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

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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)	PF	Tx Primary** Watts (VA)	PF
-1 to +10	0 to 7	WHT/WHT	39.7/39.7	119 (119.6)	0.99	154.8 (155.8)	0.99
-1 to +10	0 to 7	WHT/YEL	39.7/16.2	88.3 (88.7)	0.99	123.9 (125.4)	0.98
-1 to +10	0 to 7	WHT/RED	39.7/12.5	85.7 (86.0)	0.99	120.8 (122.7)	0.98
-1 to +10	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 100 watts.

Note: Isolating transformer shall be suitably sized to accommodate specific secondary and other applicable losses.

Photometry

Specification ICAO Fig A2-10

Colour	White
Max/Min Intensity ratio	<3.0
Main ellipse average intensity	1000cds
Main ellipse minimum intensity	500cds
Second ellipse minimum intensity	100cds
Third ellipse minimum intensity	50cds

Typical Measured Values

Colour	White
Max/Min Intensity ratio	2.43
Main ellipse average intensity	1093cds
Main ellipse minimum intensity	635cds
Second ellipse minimum intensity	343cds
Third ellipse minimum intensity	179cds

Specification

Colour	Yellow
Max/Min Intensity ratio	<3.0
Main ellipse minimum intensity	400cds
Second ellipse minimum intensity	40cds
Third ellipse minimum intensity	20cds

Typical Measured Values

Colour	Yellow
Max/Min Intensity ratio	2.57
Main ellipse average intensity	516cds
Main ellipse minimum intensity	274cds
Second ellipse minimum intensity	137cds
Third ellipse minimum intensity	88cds

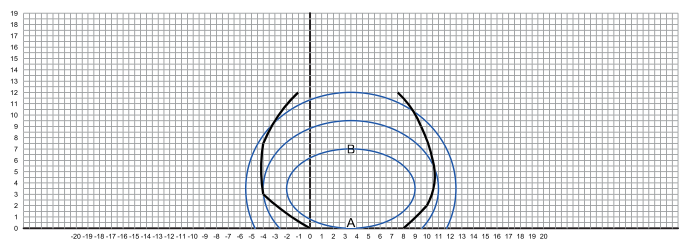
Specification

Colour	Red
Max/Min Intensity ratio	<3.0
Main ellipse average intensity	150cds
Main ellipse minimum intensity	75cds
Second ellipse minimum intensity	15cds
Third ellipse minimum intensity	7cds

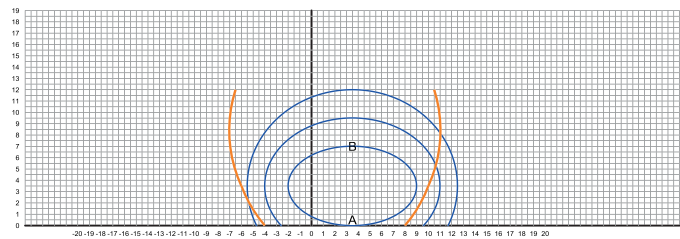
Typical Measured Values

Colour	Red
Max/Min Intensity ratio	2.27
Main ellipse average intensity	212cds
Main ellipse minimum intensity	128cds
Second ellipse minimum intensity	76cds
Third ellipse minimum intensity	46cds

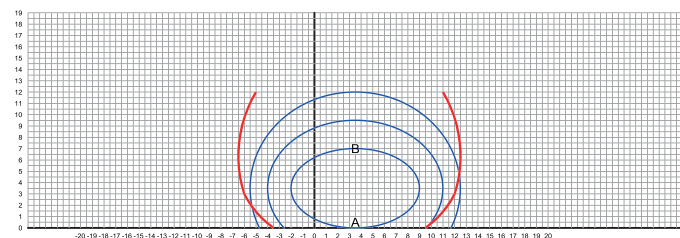
Intensity Chart - Elevated Runway Edge Luminaire - White



Intensity Chart - Elevated Runway Edge Luminaire - Yellow



Intensity Chart - Elevated Runway Edge Luminaire - Red



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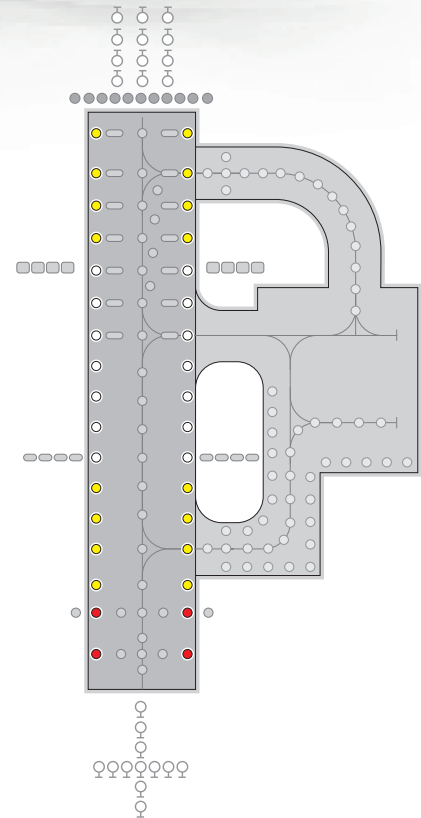
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Features

- 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 862CW _ _ _ _ _

Application

L-862CW (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 : R = Red

Y = Yellow : N = Not Applicable

B Side

W = White : R = Red

Y = Yellow : N = Not Applicable

Omni Directional Component

0 = No omni directional optic

7 = Omni directional optic fitted

Specification

1 = FAA

2 = ICAO

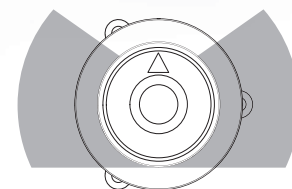
3 = MOS139

Connections

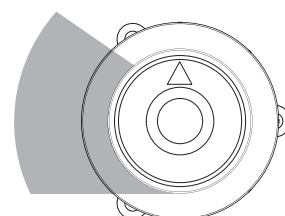
1 = 1 x Bi-pin plug

2 = 2 x Bi-pin plug

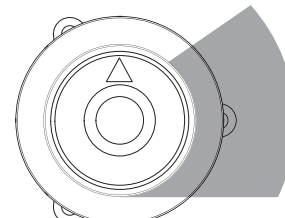
Beam Options



FX862CW
Bi-directional
(Low Intensity Omni-directional)



FX862CW
Uni-directional
(Low Intensity Omni-directional)



FX862CW
Uni-directional
(Low Intensity Omni-directional)

Additional optional features are available upon request

* Note

This product has 4.5° angle of toe and is suitable for runway width of 60Mts

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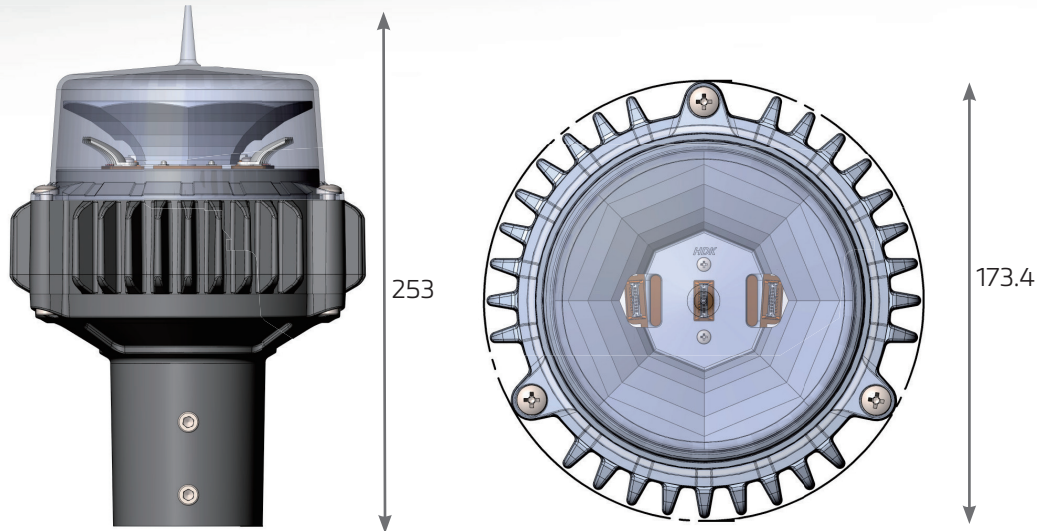
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Dimensions



Packaging

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



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