CNLighting
Aviation Series

CN13 RUNWAY THRESHOLD LIGHTS

RED ONLY

MEDIUM INTENSITY

Precision. Reliability. Aviation Grade.



High Visibility LED | Rugged Aviation Grade | IP65+ Weather Resistant | Low Maintenance | 220 VAC Operation

PRODUCT OVERVIEW

The CN13 Runway Threshold Lights are high-performance LED fixtures designed for runway threshold and core end identification, providing maximum visibility and safety for pilots in all weather conditions. Built to ICAO standards, it meets the most demanding aviation requirements.

APPLICATIONS

- Runway threshold lighting systems
- Runway core end lighting systems
- Precision approach runways
- Runway end identification
- Military airfields



TECHNICAL SPECIFICATIONS

ELECTRICAL

Input Voltage	220 VAC
Frequency	50/60 Hz
Power Consumption	< 10 W
Power Factor	> 0.95
Surge Protection	Integrated (recommended external protection)

OPTICAL

LED Colours	Red Only
Intensity Category	Medium Intensity
Red Intensity	≥ 750 Candelas
Directionality	Omni Directional in the Horizontal Plane
Vertical Divergence	10°
Horizontal Output	360°

MECHANICAL

Housing	Aviation Grade Aluminium
Finish	Powder Coated (Aviation Yellow)
Mounting	Base Plate with Multi-Hole Fixing
Ingress Protection	IP65+
Impact Resistance	IK10
Weight	1.30 kg

ENVIRONMENTAL

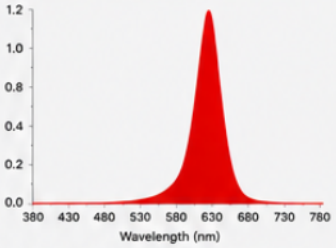
Operating Temperature	-20°C to +55°C
Humidity	0 – 100%
Corrosion Resistance	Yes (Anti-corrosive Coating)
UV Resistance	Yes

DATA SHEET (RED ONLY)

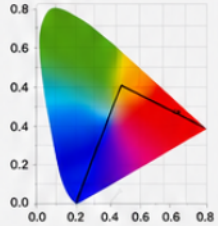
Product Code	CN13
Light Colours	Red Only
Intensity Category	Medium Intensity
Test Date	12/9/2024
Red Intensity	≥ 750 Candelas
Directionality	Omni Directional in the Horizontal Plane
Colour Temperature	–
ICAO Specs	Complies with ICAO specifications, Annex 14, section 5.3

PHOTOMETRIC RESULTS (RED ONLY)

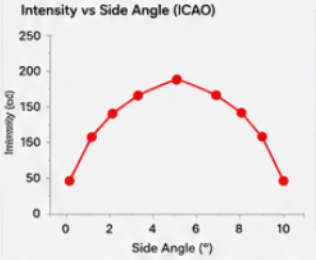
Spectrometer Test Results



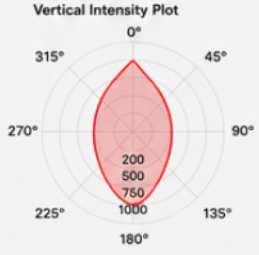
CIE 1931



Intensity vs Side Angle (ICAO)



Vertical Intensity Plot



Note: Values are minimums as per ICAO Annex 14. Actual performance may vary. Unit: cd

KEY FEATURES

- ✓ High visibility LED technology
- ✓ Rugged aviation grade construction
- ✓ Reliable aviation grade construction
- ✓ Weatherproof and corrosion resistant
- ✓ Easy installation and maintenance
- ✓ Low power consumption

INSTALLATION NOTES

- Mount on levelled base can or concrete slab using suitable anchoring (not included).
- Ensure proper grounding for surge protection
- Align according to runway threshold/core end lighting layout
- Use non-shrink grout for permanent installations

MADE IN SOUTH AFRICA

CN LIGHTING SERIES
Pretoria, South Africa
www.cnlighting.co.za

1 YEAR WARRANTY
Quality you can trust.
Performance you can rely on.

ORDER / ENQUIRIES
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