

Inset Runway Center Line Light (LED)



High intensity Bi-directional inset light

VAS-IRCL-8-X/X-L-X

Compliance with standards

- ICAO Annex 14, Volume 1
- FAA AC 150/5345-46
- FAA Engineering Brief 67D
- IEC 61827

Application

- These light fittings are equidistantly embedded on the runway surface along the runway centerline to provide visual guidance for aircraft to take off and land at night or under low visibility conditions
- High-intensity, Bi-directional, Runway Centerline lights used in ICAO category I, II & III runways.

Specifications

• Power Supply	2.8A~6.6A
• Rated Power	W/W 26W, W/R 17W
• Power Factor	>95% at nominal current
• Temperature	-40° C to +55° C
• Life Time of LED	50,000 hrs
• Protection Class	IP 68
• Protrusion Height	6.3mm
• Color	White , Red
• Direction	Bi-directional
• Light fitting Size	Ø8"

Features

- The light fitting is designed in strict accordance with the technical requirements and specifications of ICAO, IEC and FAA for Runway and Taxiway as Navigational aid light for Airports.
- A surge protection device is provided in the electronics as required by FAA "Engineering Brief 67D.
- The long life, energy saving and maintenance-free characteristics of LEDs bring economic benefits.
- High-efficiency power factor correction circuit ensures effective reduction of interference to the power supply network.
- Efficient design of LED heat dissipation effectively reduces the working temperature of light fitting, LED and drivers to ensure long service life.
- Fully dimmable lights, simulates the dimming curve as per Standard's requirement.
- Electrolytic capacitors of high temperature and long life are used in circuitry to improve the stability of the LED driver.
- The optical prism adopts special tempered glass to prevent the prism from bursting due to drastic changes in temperature.
- Fail-open option is available to achieve compatibility with advance control and monitoring systems. The LED light automatically disconnects from the secondary side of the isolation transformer, resulting in an open circuit condition.



Features

- The overall protection level of the light fitting reaches IP68, preventing dust and rain from eroding the interior of the light.
- Fully compatible with existing airfield lighting series circuits.
- Color emitted directly by LEDs in absence of colored filters ensures no energy losses and no color shifts.
- The main body of the light fitting is made of aluminium alloy which is strong and has good anti corrosion performance.
- The height of light fitting protruding from the ground is only 6.3mm. This helps in strongly reducing vibrations to aircrafts and to light itself, increasing its lifespan.
- The upper cover of the light fitting adopts high strength design and drop forging process, with good mechanical properties, strong bearing capacity and impact resistance
- Fasteners are made of stainless steel which are durable.
- The parts are modularly designed and universal, which are easy to replace.
- Style L-823 connectors are used.

Photometric Data

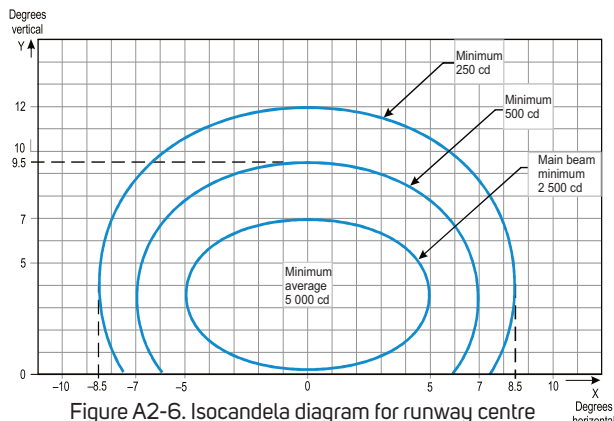


Figure A2-6. Isocandela diagram for runway centre line light with 30 m longitudinal spacing (white light) for CAT III

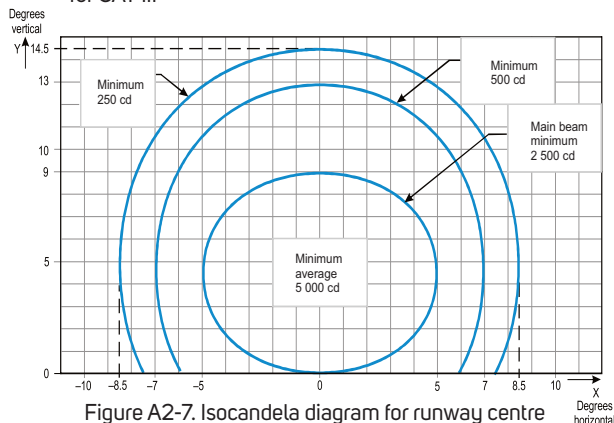


Figure A2-7. Isocandela diagram for runway centre line light with 15 m longitudinal spacing (white light) for CAT III

Ordering information

VAS-IRCL-8-X/X-L-X

- X = O/M
- O = Without Monitoring
- M = With Monitoring
- L = Led Light
- X/X = W/W, W/R,
- 8 = 8" Diameter
- IRCL= Inset Runway Center Line Light
- VAS = VARDHMAN

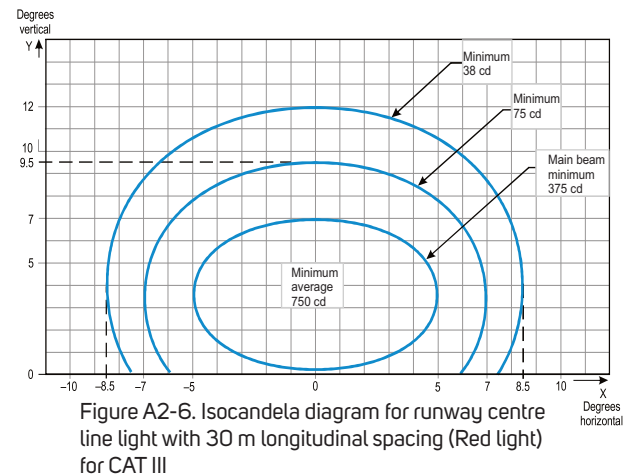


Figure A2-6. Isocandela diagram for runway centre line light with 30 m longitudinal spacing (Red light) for CAT III

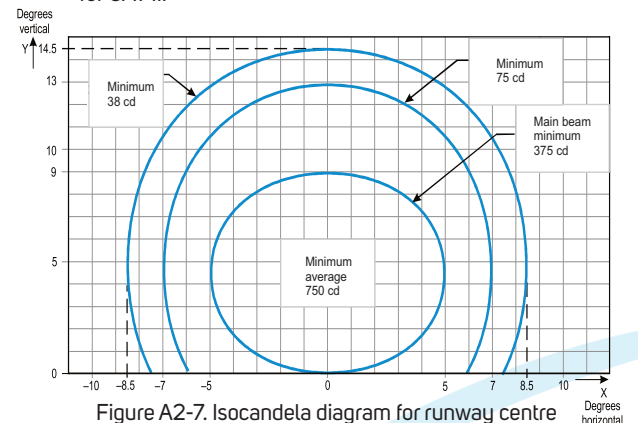


Figure A2-7. Isocandela diagram for runway centre line light with 15 m longitudinal spacing (Red light) for CAT III



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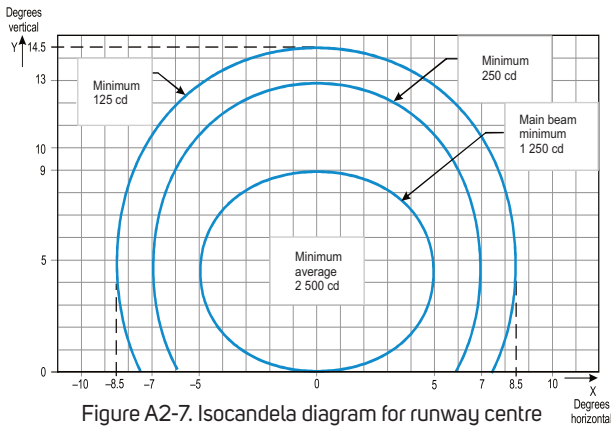


Figure A2-7. Isocandela diagram for runway centre line light with 15 m longitudinal spacing (white light) for CAT I & II

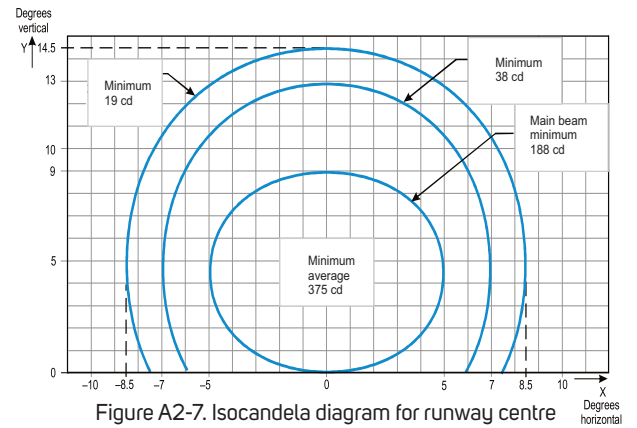
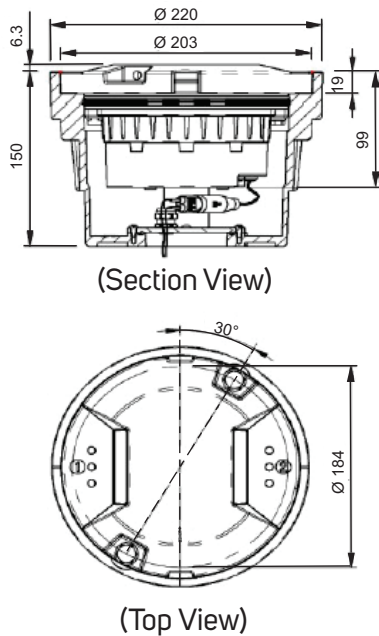


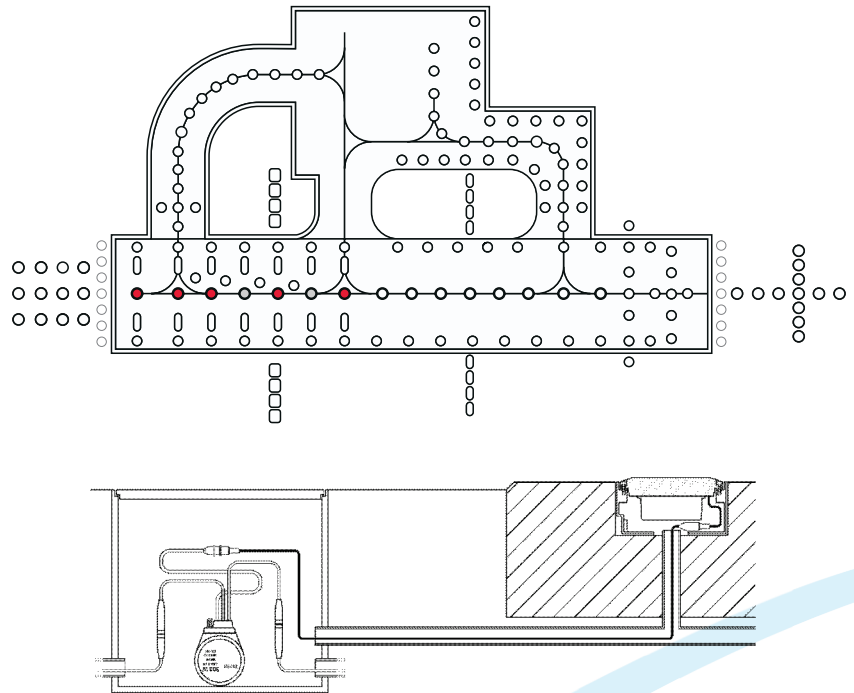
Figure A2-7. Isocandela diagram for runway centre line light with 15 m longitudinal spacing (Red light) for CAT I & II

Inset Runway Center line light ICAO Fig. A2-6 / Fig. A2-7				
Runway category	III	III	I & II	I & II
Max./Min. Intensity Ratio	<3.0	<3.0	<3.0	<3.0
Color	White	Red	White	Red
Main Ellipse Average Intensity	5,000cd	750cd	2,500cd	375cd
Main Ellipse Minimum Intensity	2,500cd	375cd	1,250cd	188cd
Second Ellipse Minimum Intensity	500cd	75cd	250cd	38cd
Third Ellipse Minimum Intensity	250cd	38cd	125cd	19cd
Chromaticity	ICAO Annex. 14 Fig A1-1b			

Dimensions



Installation



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