

# Inset Runway Threshold Cum End Light (LED)



High intensity Bi-directional inset light

VAS-IRT-ENL-12-G/R-L-X

## Compliance with standards

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

## Application

- These lights help pilots by clearly showing where the usable part of the runway begins and ends. A green light marks the start, and a red light marks the end, so pilots know exactly where they can safely take off or land.
- High-intensity, Bi-directional, Runway Threshold Cum End used in ICAO category I, II & III runways.

## Specifications

• Power Supply	2.8A~6.6A
• Rated Power	56W
• 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	Green/Red
• Direction	Bi-directional
• Light fitting Size	Ø12"

## 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

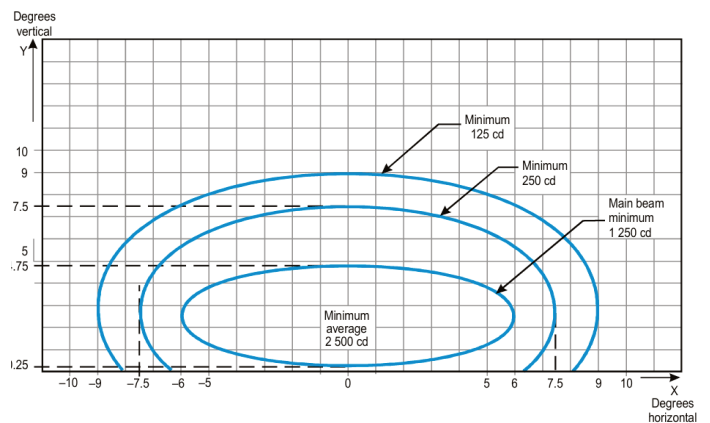
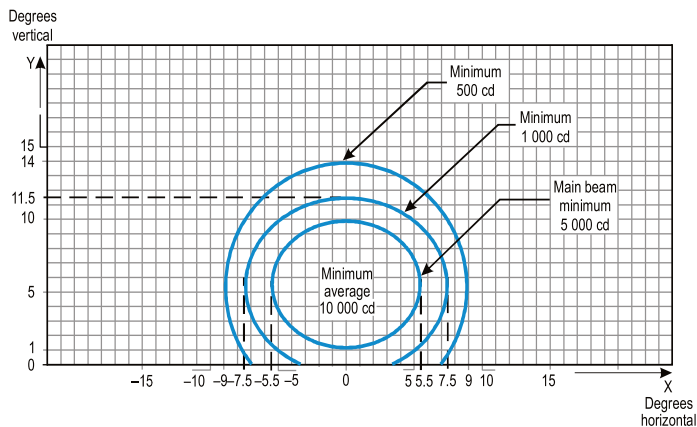
- The overall protection level of the light fitting reaches IP68, preventing dust and rain from eroding the interior of the light.
- Fully compatible with existing airfield lighting series circuits.
- Color emitted directly by LEDs in absence of colored filters ensures no energy losses and no color shifts.
- 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.

## Ordering information

VAS-IRT-ENL-12-G/R-L-X

X = O/M  
O = Without Monitoring  
M = With Monitoring  
L = Led Light  
G/R = Green/Red  
12 = 12" Diameter  
IRT-ENL= Inset Runway  
Threshold Cum End Light  
VAS = VARDHMAN

## Photometric Data



Threshold/Runway End Light ICAO Fig. A2-3, A2-8		
Elevated Angle	5.5°	2.5°
Toed-In Angle	3.5°	0°
Colour	Green	Red
Max./Min. Intensity Ratio	<3.0	<3.0
Main Ellipse Average Intensity	10,000cd	2,500cd
Main Ellipse Minimum Intensity	5,000cd	1,250cd
Second Ellipse Minimum Intensity	1,000cd	250cd
Third Ellipse Minimum Intensity	500cd	125cd
Chromaticity	ICAO Annex. 14 Fig A1-1b	



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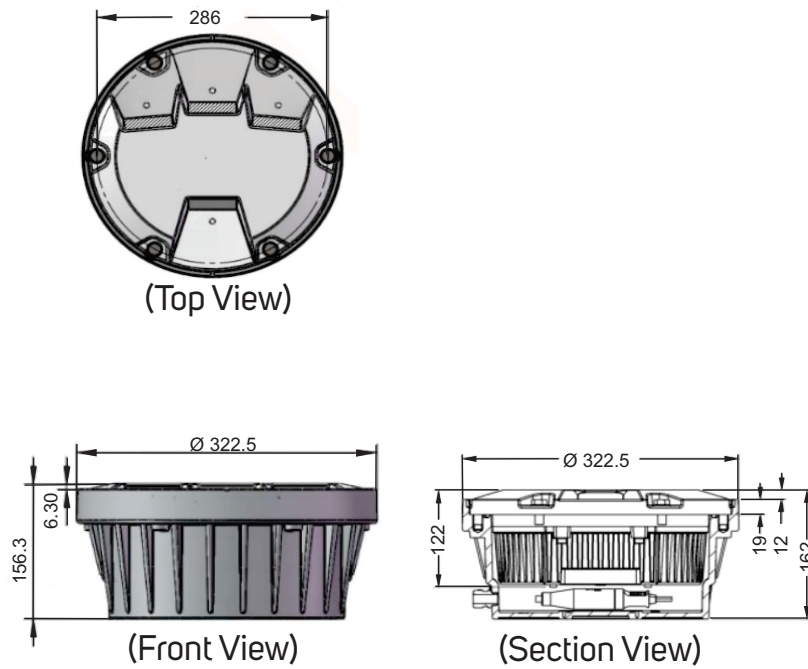
contact@vardhmanairports.com



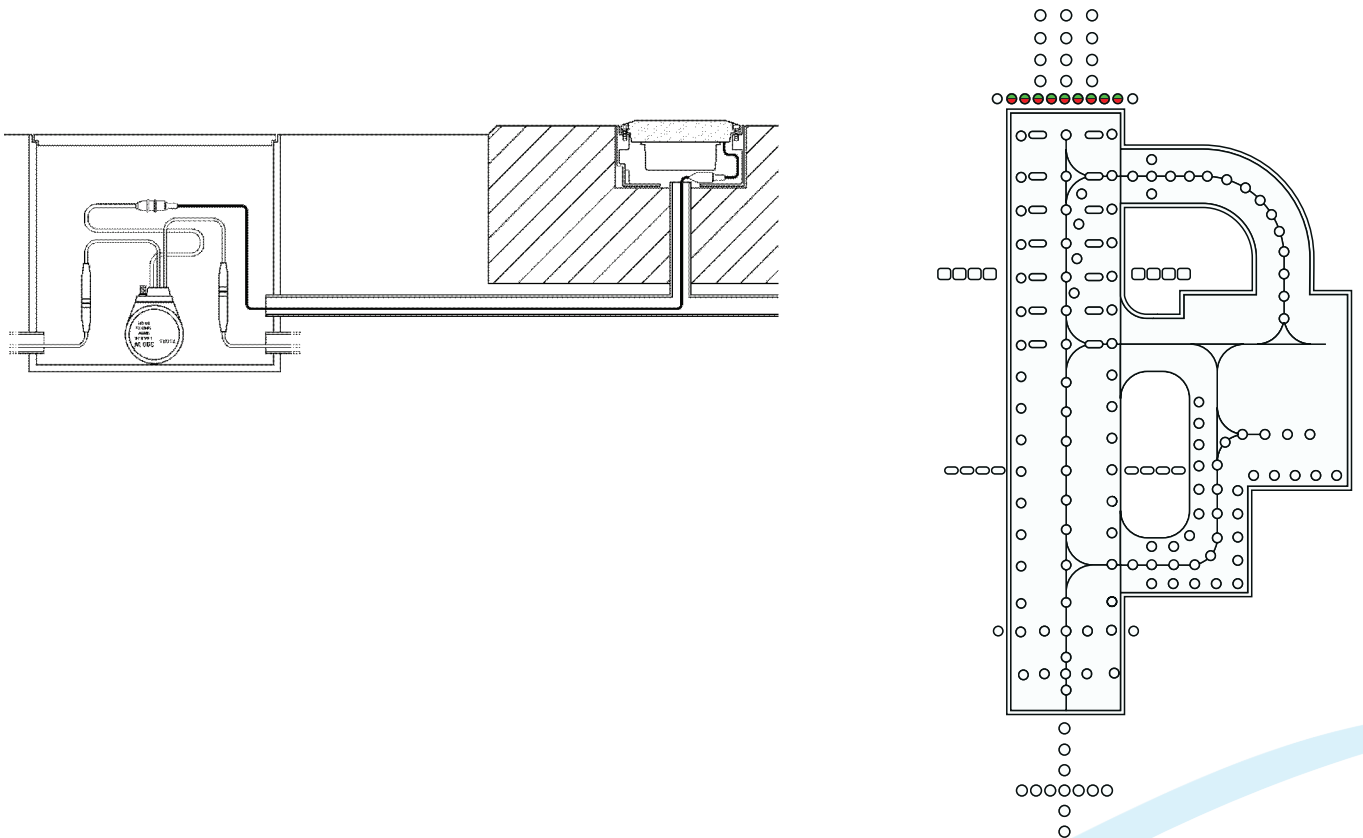
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## Dimensions



## Installation



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