

# High Intensity LED Runway Guard Light

## Compliant with:

- ICAO Annex XIV, Vol. I, Par. 5.3.22, Configuration A, Appendix 2, Fig. A2.25 High Intensity
- EASA CS-ADR-DNS BOOK 1



## Main Features

- Outstanding Photometric performances
- Life expectancy of LEDs over 60.000 hours eliminates the need for costly re-lamping operations
- Power Consumption: 36 Watt only
- Natural air Cooling
- Model 6.6A: powered by series lighting circuit through power converter
- Model 120/230VAC: powered from mains AC parallel lighting circuit; equipped with photocell to control lamp intensity. A photocell energizes lamps to full intensity during high light levels and then reduces full intensity to 30% during low ambient light conditions
- Flash Rate: Alternating flashes, 45-50 per minute
- Main Beam Coverage- +/- 8° both vertical and horizontal
- Adjustable Light Beam: 0°, 5°, 10°, 15° vertically through adjustable slip fitter.
- Mounting on standard 2" O.D. Breakable coupling.
- Tether preventing the RGL from being blown in case of impact
- Made of corrosion resistant materials
- Aviation Yellow powder coating
- Environmental Operating Conditions Temperature: -30°C to +55°C
- Wind: Withstands up to 480 km/h
- Humidity: 0 to 100%



One of the installations required for prevention of runway incursions is the Runway Guard Lights (RGL), also referred to as "Wig-Wag". These should under certain conditions be installed on every taxiway connected to the runway as the last resort to remind a flight crew that they must have a clearance to continue before entering an active runway.

The elevated Runway Guard Light **GUARDlite** is the answer to these problems.

Based on a new generation of LEDs and a revolutionary design both in size and light output, **GUARDlite** is a real "attention getter", thanks also to its specific flashing pattern exhibiting crisp ON and OFF status.

This dynamic effect is not achieved by conventional RGL's, whose incandescent lamp bulbs totally lack the ability to switch ON sharply. This is why **GUARDlite** is far superior to the conventional WIG-WAGs.

**GUARDlite** can be supplied either via 6.6A series circuit or a 120/230VAC line, equipped with a photocell to dim the light to 30% at night.

The **GUARDlite** has been engineered taking into consideration the challenge of the high light intensity required, in a wide angle distribution, whilst maintaining the operating temperature of the light head to a minimum to guarantee the life expectancy of the LEDs.

The power converter includes the following features:

- Monitoring of the temperature of the LEDs with automatic correction of the forward current to maintain the correct color of the beam within the limit of ICAO requirements.
- Control of the flashing mode.
- Monitoring of the status of the individual lamp heads with back indication through an integrated power supply and flashing module.
- Option for synchronization of several units.

Particular attention has been dedicated to the heat management in order to keep the ambient temperature in the light head within the limit to allow the LEDs to perform at their best and to ensure their nominal life expectancy.

### PHOTOMETRICS

