

TAXIWAY LIGHTING

ERGL

Incandescent Elevated Runway Guard Light

MEDIUM-INTENSITY



Compliance with Standards

- FAA:** L-804 AC 150/5345-46 (Current Edition).
Meets the requirements of Low-Visibility Taxiway Lighting Systems as specified by FAA AC 150/5340-30.
- ICAO:** Annex 14, Vol. I, Para 5.3.22 and Appendix 2 Fig. A2-25
- CE:** Complies with the requirements of the EMC Directive 2004/108/EC

Uses

FAA L-804 and ICAO

- Runway guard light
- Runway incursion prevention

The L-804 Runway Guard Light is an elevated unidirectional flashing yellow light fixture that provides a distinctive warning to pilots that they are approaching a runway holding position and are about to enter an active runway. The RGL is also used in combination with L-852G (In-pavement Runway Guard Light), L-852S (In-pavement Stop Bar Light), and L-862S (Elevated Stop Bar Light) to provide additional safety under low-visibility conditions on the airfield.

Features

- Input: 2.8 A to 6.6 A, 50/60 Hz Current-Driven/FAA Mode 1; 120 VAC or 220-240 VAC, 50/60 Hz Voltage-Driven/FAA Mode 2.
 - Mode 1: Current-Driven-powered by series lighting circuit; lamp intensity varies with current supplied to the fixture by the series circuit
 - Mode 2: Voltage-Driven-powered from either 120 VAC or 220-240 VAC parallel lighting circuit and equipped with photocell to control lamp intensity. Photocell energizes lamps at full intensity during high light levels and then reduces intensity to 30% during low ambient light conditions.
- Lamps: Two, type PK30d, 150 W/6.6 A Quartz
- Lamp Life: Rated at 1,000 hours at 6.6 A
- Flash Rate: Alternating flashes, 45-50 per minute
- Adjustable Light Beam: 0° to 20° vertically; ±20° horizontally
- Includes lamps, frangible column, and tether
- The RGL can be aimed both vertically and horizontally and is typically installed in pairs, one on either side of the taxiway holding position

- The two RGL light sources are surrounded by a black face plate and independent visors to reduce the amount of incident sunlight, thereby maximizing the contrast during the lamp ON/ OFF cycle
- Lamp replacement is achieved without tools to minimize downtime
- Access to the electronic control device is achieved through a hinged waterproof lid that permits easy replacement of the controller if needed
- Fixture is fabricated from corrosion-resistant materials, and all exterior surfaces are painted aviation yellow for added protection and visibility
- High-strength 1832RGL base plate is mandatory for FAA applications and should be used for ICAO applications. See data sheet 2012 for details.
- Remote monitoring option using a multiple-pin plug is available for the Mode 1, Current-Driven system
- Direct Lamp Access Option-No internal control PCB is present in RGL assembly. Fixture is controlled (flash rate) and monitored from an intelligent lighting control system module, such as ADB's BRITE™ System.

Operating Conditions

- Temperature: -40°F to +131 °F (-40 °C to +55 °C)
Humidity: 0 to 100%
Wind: Withstands wind velocities up to 300 mph (480 kph)

Electrical Supply

Mode 1 - 165 VA load (requires a 150 W or 200 W isolation transformer)

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Ordering Code^{1,4}

44A4744 - X X X X

Power

- 1 = Mode 1, Current-Driven⁶
- 2 = Mode 2, Voltage-Driven, 120 VAC
- 3 = Mode 2, Voltage-Driven, 220-240 VAC
- 4 = Direct Lamp Access, Current-Driven

Remote Monitor Feature

- 1 = Non-monitored
- 2 = Monitored⁵

Lens

- 1 = Traffic Signal Yellow
- 2 = Traffic Signal Red³
- 3 = ICAO Yellow²
- 4 = Red/Green³

Photocell Feature

- 1 = Without photocell, Mode 1 only
- 2 = With photocell, Mode 2 only

Notes

- ¹ Runway Guard Lights should only be powered with ferroresonant type CCRs and not with thyristor type CCRs
- ² Complies with color and illumination of ICAO Annex 14, Vol. 1, 6th edition specifications for Runway Guard Lights.
- ³ Color not recognized by the FAA
- ⁴ 1832RGL base plate is ordered and shipped separately. See data sheet 2012 for more details.
- ⁵ Not available in direct lamp access version. Monitoring, if needed, is provided by externally connected equipment.
- ⁶ The L-804 halogen, current powered, 50 Hz, non-monitored, ICAO yellow fixture (Part No. 44A4744-1131) carries the CE Mark.

RGL Kits

ON/OFF Switch Kit	94A0281
Provides ON/OFF switch on input of Runway Guard Light (current-driven only)	

Packaging

In cardboard box: 30 × 22 × 17 in (37.5 × 27.5 × 21.25 cm)
Net weight: 37 lb (16.8 kg)

www.adbsafegate.com

Product specifications may be subject to change, and specifications listed here are not binding. Confirm current specifications at time of order.