

ADB

L-852G LED Styles 2 and 3 F-Range Series Runway Guard Light



L-852G LED Style 3

Compliance with Standards

FAA: L-852G AC 150/5345-46 (Current Edition) and the FAA Engineering Brief No. 67 "Light Sources other than Incandescent and Xenon for Airport Lighting and Obstruction Lighting Fixtures." Meets the requirements of Low-Visibility Taxiway Lighting Systems as specified by FAA AC 150/5340-30. ETL Certified.

ICAO: Annex 14, Vol. 1, para. 5.3.22, Config. B

CE: Complies with the requirements of the EMC Directive 2004/108/EC

Uses

- Runway guard light
- Runway incursion prevention

Features

- Available in FAA Style 2 (≤0.5 inch) or Style 3 (≤0.25 inch). FAA Style 3 provides a low protrusion above ground, which reduces vibrations caused by aircraft landing gear in both the light fixture and the landing gear, increasing lamp life.
- Eliminates re-lamping expenses and significantly reduces on-going maintenance costs
- LED Runway Guard Light (RGL) operates on either 3- or 5-step ferroresonant or thyristor CCRs that are designed in compliance with FAA requirements
- Can be retrofit on existing series circuits using existing CCRs and Local Control Devices. Requires the addition of a Y-Harness adapter. Adapter connects isolation transformer to both the input of the Local Control Device and the fixture. In electronically monitored applications, fixture opens existing Local Control Device output connection, providing an alarm signal in case of fixture failure.
- An autonomous version is available for applications where fixture failures are not electronically monitored. Synchronization circuitry is contained within each fixture, eliminating the need for any synchronizing Local Control Devices. Fixture connects directly into isolation transformer. A simple, separate Remote Control Device is used to set the fixture to Initial ON or Initial OFF. The Remote Control Device can also be optionally used to program variable start up delays (for an entire RGL bar). This effectively reduces the load variation on a CCR that powers multiple RGL bars.

Ordering Code

IRGL-XXXX0

Power/Control

- 1 = New/Existing Local Control Device¹
- 2 = Autonomous, Initial Flash ON²
- 3 = Autonomous, Initial Flash OFF²

Frequency

- 1 = 60Hz
- 2 = 50Hz

Arctic Option³

- 1 = No
- 2 = Yes

Style

- 0 = FAA Style 2⁴
- 1 = FAA Style 3

Notes

¹ Used on electronically monitored applications. Can be used with the existing Local Control Device on new or retrofit applications. For details on ADB BRITE Remote, see catalog sheet 1227. Contact ADB Sales Department for use with other manufacturers' Local Control Devices. Requires use of Y-Harness Adapter.

² Used on non-electronically monitored application. Fixture connected directly to L-830/L-831 isolation transformer.

³ Style 2 fixture complies with arctic kit requirements in Engineering Brief No.67B, par. 2.12 without the need to use a separate heater. Style 3 is available with or without heater.

⁴ L-852G LED Style 2 without heater carries the CE Mark

Y-Harness Adapter _____ **70A0761**

Note: Required to utilize Runway Guard Light fixture with new or existing Local Control Device

Remote Control Device _____ **61A0458**

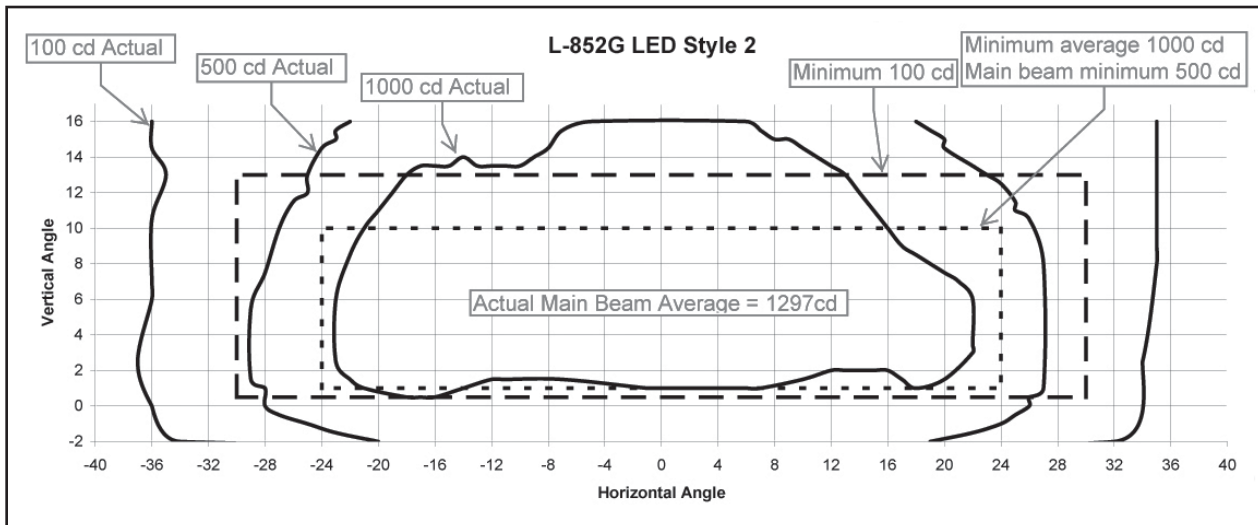
Note: Required on autonomous fixtures to modify initial flash ON or OFF or to adjust CCR loading. One device required per installation.

Features (Continued)

- Saves energy: Autonomous fixture reduces fixture load 48% compared to 105W incandescent lamps
- Thermostatically controlled heater cycles on and off when temperature drops below freezing, reducing overall energy consumption

Photometric Data

ADB Style 2 L-852G LED Yellow at 6.6A



Features (Continued)

- Light channel in front of prism windows protects prisms from damage and prevents rubber buildup thereby maintaining optimal light output
- Low-temperature lights. Temperature rise at center of top cover remains below the FAA-specified limit of 320°F (160°C).
- Fixture uses aluminum alloy cover and inner cover, stainless steel hardware, and aluminum alloy and stainless steel optical assembly

Electrical Supply

6.6A through an L-830 (for 60Hz) or L-831 (for 50Hz) isolation transformer.

Application	Fixture Load	Isol. Transformer Size
Style 2 and Style 3 w/out heater		
Unmonitored L-852G	55VA	65W
Monitored L-852G	120VA*	150W
Style 3 with heater		
Unmonitored L-852G	100VA	100W
Monitored L-852G	165VA*	150W

* Includes both fixture load and Local Control Device load

Spare Components

Description	Part No.
Cable clamp	4071.50.090
Cord set, L-823	73A0133-23
Cord set grommet	63A1014
LED light engine, L-852G, Style 2, yellow	48A0404-YLW
LED light engine, L-852G, Style 3, yellow	48A0415-TYLW
O-ring, inner cover seal	7080.90.710
O-ring, pressure release screw	63B0267-011
Pressure release screw	60A2602
Prism	63A0993-2
Prism clamp	4071.50.360
Prism gasket sleeve	4071.50.030
Prism keeper plate	4071.50.052
Seal, prism keeper plate	63A0986

Packaging

In cardboard box:	7 x 13 x 13 in (17.8 x 33 x 33 cm)
Weight with packing:	20.55 lb (9.32 kg)
Weight without packing:	17.55 lb (7.96 kg)

Dimensions

Outside Diameter:	11.94 in (30.33 cm)
Bolt Circle Diameter (L-868B):	11.25 in (28.58 cm)
Max. Bottom Cover O.D.:	9.94 in (25.25 cm)
Bottom Cover Depth:	3.8 in (9.65 cm)*

* If used in conjunction with an L-868B Top Section, the overall height of the Top Section must be 4 in (10.16 cm) minimum.

ADB Airfield Solutions, LLC
977 Gahanna Parkway
Columbus, OH 43230 USA

Tel: +1 614-861-1304
Fax: +1 614-864-2069
www.adb-airfieldsolutions.com

ADB Airfield Solutions
Leuvensesteenweg 585
B-1930 Zaventem
Belgium

Tel: +32 (2) 722.17.11
Fax: +32 (2) 722.17.64

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