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GENESIS LAMP

375 North St. Clair St.
 Painesville, OH 44077

L-849I LED REIL System Style ACE

Runway End Identifier Light



COMPLIANCES

L-849I(L) – Powered by a Constant Current Regulator
 Style A - Unidirectional, high intensity, one brightness step
 Style C - Unidirectional, low intensity, one brightness step
 Style E - Unidirectional, three brightness steps
 FAA AC 150/5345-51 (current edition)
 FAA Engineering Brief 67D

ETL Certified

PATENT PENDING

Meets “Buy American” requirements.

ICAO: Annex 14, Vol. 1, para 5.3.8



PRODUCT APPLICATION

The L-849I REIL system is used to identify the threshold (approach end) of a visual or instrument non-precision runway and provides guidance to pilots during approach for landing. The REIL consists of two unidirectional simultaneous flashing LED lights. A light is located at each side of the runway threshold. The lights are angled to have an effective visual range in clear weather of approximately 3 miles during the day and approximately 20 miles at night. This provides pilots with adequate time to plan and execute a safe approach and landing at night or in reduced visibility conditions.

FEATURES

- Long LED life, eliminating expensive xenon lamp replacements.
- Lower power draw verses xenon lamps.
- Three brightness intensity levels for Style E with automatic current sensing.
- Light weight and state-of- the-art technology provide for ease of installation.
- IUA cabinets NEMA 4X equivalent.
- Beam coverage – 10° vertical by 30° horizontal.
- Flash rate: two flashes per second.

APPROACH LIGHTS & NAVIGATIONAL AIDS - 3.1B

ORDERING INFORMATION

L-849I LED Order Number:

Description:

Current-driven LED REIL System for Style A/C/E With 15.5" EMT

Baffle:

0 = No baffle
 1 = With baffle

Note: Each system consists of two Identifier Unit Assemblies (IUAs) with EMT and frangible coupling.

**Part #: L-849I-L-1 applies to L-849I-L-A-1, L-849I-L-C-1, & L-849I-E-1*

PHOTOMETRIC DATA

Type	Style	Effective Intensity (candelas (cd)) Brightness Step		
		High	Medium	Low
L-849	A	15,000	--	--
L-849	C	--	--	700
L-849	E	15,000	1,500	300

EXTERNAL POWER REQUIREMENTS

Input	Power
Constant Current Regulator (CCR)	1, 3 or 5 step - 2.8A to 6.6A

ACCESSORIES

Description	Part Number
Isolation transformer for series circuit - L-849I (2 required)	Refer to “Isolation Transformer Requirements”
L-867 Base Plate (2 required)	AP1832
Wire Extraction Tool	A1-03-0281-000

ISOLATION TRANSFORMER REQUIREMENTS

Style	Series Circuit	Transformer Required	Part Number
A and E	6.6 A, 60Hz 6.6 A, 50Hz	150W, L-830-18 150W, L-831-18	11730 11734
C	6.6 A, 60Hz 6.6 A, 50Hz	30/45W, L-830-1 30/45W, L-831-1	11680 11710

ENVIRONMENTAL CHARACTERISTICS

Condition	Range
Temperature:	
Operating	-40°C to +55°C (-40°F to +131°F)
Shock	Operates and is not damaged by the sudden application of cold water to the light emitting surface of an optical assembly at its normal operating temperature.
Altitude	Operates at altitudes from sea level to 10,000 feet (3,000 meters).
Humidity	Operates at any relative humidity up to 100%, including conditions of dew or frost.
Salt Spray	Operates when exposed to a salt laden atmosphere.
Sand and Dust	Operates when exposed to wind-borne sand and dust particles.
Rain	Operates when exposed to wind-blown rain from any direction
Wind	Operates when exposed to wind velocities of 150 knots (278 kilometers per hour).
Solar Radiation (Sunshine)	Operates when exposed to solar radiation.

RENEWAL PARTS

Description	Part Number
IUA Assembly with frangible & EMT	A3-06-3155-001
IUA Assembly	A3-06-3157-001
Frame Assembly	A3-06-3156-001
EMT, 2", 15.5" Long	A1-17-1047-002
Frangible Coupling, 2"	A1-17-1134-001
L-823 5-Pin Power Cable Assembly (in-ground cable)	A2-17-0028-001
Lens Replacement Kit	K1-02-0020-001
PWA Driver Replacement Kit	K1-02-0021-001
Toggle Switch Replacement Kit	K1-02-0022-001
Interlock Switch Replacement Kit	K1-02-0023-001
Light Engine Replacement Kit	K1-02-0024-001
L-823 5-Pin Cable Assembly Replacement Kit (above-ground cable)	K1-02-0025-001
Draw Latch Replacement Kit	K1-02-0026-001
Hinge Replacement Kit	K1-02-0027-001
Technical User Manual (download from astronics.com)	Y3-01-0180

WEIGHT AND DIMENSIONS

Unit	Dimensions	Weight
Flashing Light Assembly (installed) Note: Dimensions and weight provided are for one flashing light assembly. There are two per system.	34" height x 18.5" width x 5.38" depth (86 cm height x 47 cm width x 14 cm depth) Note: Height can be up to 34" (86cm) above grade installed (including EMT and frangible coupling).	25.4 lbs (11.5 kg)



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