

# L-849 (L) LED Runway End Identification Light

AV-REIL Series

## Features

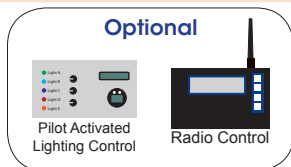
- Long LED life
- Low Power Draw - entire system draws less than 40 Watts
- Improved safety - low voltage 24 VDC model
- Nominal intensity - 15,000 effective candelas
- Beam Coverage - 10° vertically, 30° horizontally
- Flash rate: two flashes per second
- Separation: Control unit can be mounted in excess of 500 feet from flash head
- Remote Control: ON/OFF; 3-step intensities
- Meets photometric beam requirements for MALSR, SSALR, and ALSF-I / II
- Voltage-powered  
- 24VDC solar powered
- Options:
  - Flash monitoring
  - Elapsed time meter
  - Error code LED display

## Applications

- To identify the threshold (approach end) of a visual or instrument non-precision runway

## Compliance

- FAA AC 150/5345-51 for L-849 (L) applications
- Engineering Brief No. 67
- ICAO Annex 14, Volume 1, paragraph 5.3.8



**Avlite's REIL (Runway End Identification Light) is a low powered, energy efficient LED light used to identify the runway threshold during an approach. The solar REIL installs in minutes with no trenching, cabling, or mains power required, and can be easily and quickly relocated.**

The 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 lights. A light is located at each side of the runway threshold. The lights have a beam coverage of 10° vertically and 30° horizontally with a flash rate of two flashes per second. The REIL meets the photometric beam requirements for MALSR, SSALR and ALSF-I/II.

The integrated solar module and battery system offers considerable savings in power and installation costs. The solar module can be angled to maximise solar collection to charge the battery. Contact your Avlite representative to determine the solar system suitable for your location.

The standard integrated photocell allows for dusk-to-dawn operation or optional control via Avlite's AvMesh® worldwide 2.4GHz RF radio control. AvMesh® is a secure, self-realizing, self-healing network with 128-bit encryption.

Avlite systems strives to be environmentally responsible by providing clean, green, renewable energy sources with a minimal environmental footprint.



Angle of the solar panel can be adjusted to maximise solar collection

## Photometric Data

Model	Style	Type	FPM	Effective Intensity		
				High	Medium	Low
AV-REIL	A	L-849V,I	120	15,000	-	-
AV-REIL	C	L-849V,I	120	-	-	700
AV-REIL	E	L-849V,I	120	15,000	1,500	300

# L-849 (L) LED Runway End Identification Light

AV-REIL Series

## SPECIFICATIONS\* \*

### AV-ERGL

#### Type E Model (Type A high intensity only)

#### Type C Model

#### Light Characteristics

Light Source  
Available colors

Energy Efficient high intensity LEDs  
Aviation Orange, other colours available on request

Energy Efficient high intensity LEDs  
Aviation Orange, other colours available on request  
700cd

Peak Intensity (cd)†

High: 15,000cd  
Medium: 1,500cd  
Low: 300cd

Horizontal Divergence (degrees)

30°

30°

Vertical Divergence (degrees)

10°

10°

Flash Rate

120 FPM (flashes per minute)

120 FPM (flashes per minute)

Intensity Adjustments

Three step (low, medium & high)

Constant intensity

LED Life Expectancy (hours)

>100,000 hours

>100,000 hours

#### Electrical Characteristics

Power (W) - Average

High: 25W  
Medium: 7W  
Low: 5.1W

6.5W

Circuit Protection

Integrated

Integrated

Operating Voltage (V)

24V

24V

#### Solar Characteristics

Solar Module Type

Multicrystalline

Multicrystalline

Output (watts)

120W

60W

Solar Module Efficiency (%)

14

14

#### Power Supply

Battery Type

SLA (Sealed Lead Acid)

SLA (Sealed Lead Acid)

Battery Capacity (Ah)

110

55

Nominal Voltage (V)

24

24

#### Physical Characteristics

Body Material

High-Strength, powder coated frame and aluminium housing with stainless steel hardware

High-Strength, powder coated frame and aluminium housing with stainless steel hardware

#### REIL:

Mounting

FAA compliant 2 inch frangible coupling with baseplate with 6 hole bolt pattern

FAA compliant 2 inch frangible coupling with baseplate with 6 hole bolt pattern

Size: L x W x H (mm/inches)

REIL Light Head:  
627.38 x 362 x 141.73 / 24<sup>3</sup>/<sub>8</sub> x 14<sup>1</sup>/<sub>4</sub> x 5<sup>5</sup>/<sub>8</sub>  
REIL Master Control Unit:  
165.1 x 343 x 305 / 6<sup>1</sup>/<sub>2</sub> x 13<sup>1</sup>/<sub>2</sub> x 12

REIL Light Head:  
627.38 x 362 x 141.73 / 24<sup>3</sup>/<sub>8</sub> x 14<sup>1</sup>/<sub>4</sub> x 5<sup>5</sup>/<sub>8</sub>  
REIL Master Control Unit:  
165.1 x 343 x 305 / 6<sup>1</sup>/<sub>2</sub> x 13<sup>1</sup>/<sub>2</sub> x 12

#### Power Supply:

Mounting

Fuse Bolts certified to FAA AC 150/5220-23

Fuse Bolts certified to FAA AC 150/5220-23

Size: L x W x H (mm/inches)

1100 x 1300 x 730 / 43<sup>3</sup>/<sub>8</sub> x 51<sup>1</sup>/<sub>4</sub> x 28<sup>3</sup>/<sub>4</sub>

1100 x 1300 x 730 / 43<sup>3</sup>/<sub>8</sub> x 51<sup>1</sup>/<sub>4</sub> x 28<sup>3</sup>/<sub>4</sub>

#### Environmental Factors

Compliant to FAA AC 150/5345-51 (Current Edition) for L-849 applications - Engineering Brief No. 67

Compliant to FAA AC 150/5345-51 (Current Edition) for L-849 applications - Engineering Brief No. 67

#### Certifications

CE

Quality Assurance

EN61000-6-3:1997. EN61000-6-1:1997  
ISO9001:2008

EN61000-6-3:1997. EN61000-6-1:1997  
ISO9001:2008

#### Intellectual Property

Trademarks

AVLITE® is a registered trademark of Avlite Systems

AVLITE® is a registered trademark of Avlite Systems

#### Warranty \*

1 year warranty

1 year warranty

#### Options Available

- Monitoring is available
- Radio Control

- Monitoring is available
- Radio Control

## HOW TO ORDER

### REIL (Runway End Identification Light)

AV-REIL-[-?]

Product No.:

Model:

- 01 = Style A
- 01 = Style C
- 02 = Style E

## HOW TO ORDER

### Solar Power Supply

AV-PS-110-120-02

Product No.:

Battery Capacity:

110 = 110 Ah

Solar Output:

120 = 120 watts

Mount Type:

02 = sled mount

Note: Solar sizing based on mid-range global solar radiation



\* Specifications subject to change or variation without notice  
\* Subject to standard terms and conditions  
† Intensity setting subject to solar availability

