

IUL-L

LED In-pavement Utility & Heliport Perimeter Light

Compliance with Standards

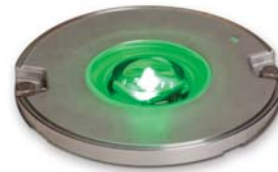
FAA: Manufactured to applicable L-852T(L) requirements in FAA AC 150/5345-46 (Current Edition) and the FAA Engineering Brief No. 67.

Uses

- Heliports with constant voltage sources
 - Yellow for military and existing civilian applications
 - Green for new civilian applications
 - Used as boundary marking of final approach and takeoff (FATO) areas, touchdown and lift-off (TLOF) areas, and aprons
 - Also used for taxiway edges and aiming points
- Gate security
- Under vehicle inspection illumination
- Used for a variety of special applications where a balance of vertical and horizontal light output is required
- Provides essential lighting for the protection of fixed installations and other potential targets
- Used in high security areas to assist detection of bombs and smuggling, in maintenance facilities to spot vehicle damage, and to protect entrances to security areas
- Fixture layout/quantity can be designed for individual and/or pattern control to enable use of alternate traffic patterns

Features

- Operates over a wide input voltage range of 95-264 VAC, 50/60 Hz
- Light output stays constant regardless of input voltage level
- Average LED life of 100,000 hours
- Low profile - < 0.25 inch above ground, which reduces vibrations caused by vehicles, increasing fixture life
- IUL with arctic option (U.S. Patent 7192155 B2) uses a thermostatically controlled heater to prevent ice and snow buildup from obscuring light output. Melts ice similar to traditional incandescent fixtures.
- Thermostatically controlled heater cycles on and off when temperature drops below freezing, reducing overall energy consumption
- High strength - Rugged, proven design - fixture originally designed to withstand the rollover weight of large aircraft in airport movement areas
- Offers longer maintenance intervals and requires fewer spare parts, resulting in lower life cycle costs
- Designed and built with simplicity and ease of maintenance in mind
- Can be provided with a shallow mounting base designed for in-pavement installation



8-inch



12-inch

Ordering Code

LED Color

- 1 = White
- 2 = Yellow
- 3 = Green
- 4 = Blue
- 5 = Red

Mounting

- 1 = 12-inch fixture for L-868 light base
- 2 = 12-inch fixture for L-867 light base
- 3 = 8-inch fixture for 8-inch light base

Light Beam Direction

- 1 = Upward light pattern
- 2 = Omnidirectional light pattern¹

Arctic Option

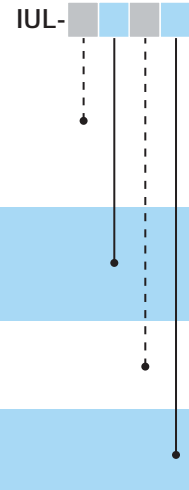
- 0 = Without arctic option
- 1 = With arctic option²

Notes

Fixture supplied with only L-823 style male connector. To ensure wire entry is waterproof, a secondary connector kit (Part No. 70A0046) is required for installation.

¹ Heliport light pattern

² When powered by a parallel circuit, heater is designed for use at only 120 VAC, ±10%, 50/60 Hz



Features (Continued)

- LED photometric performance will be maintained longer due to a cleaner lens. The lower temperature of the lens prevents the "baking effect" that causes contaminants to stick to the surface of the lens.
- No batteries to replace - Constant, dependable level of light at all times, comparable to FAA-specified medium intensity light levels
- Integral third-wire grounding for fixture and installation base cans
- Standard FAA-Style L-823 connectors provide a complete environmental seal, eliminating fluid "siphoning" up wiring to fixture interior
- Equivalent mechanical and electrical design has been field tested in thousands of airfield installations
- Aluminum alloy cover, inner cover, and optical assembly, stainless steel hardware, and a hardened optical glass lens
- Fixture is also available for series circuits. Contact the ADB Sales Department or see ADB catalog sheet 2060.

Operating Conditions

Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
Altitude: Sea level to 10,000 feet (3000 m)
Relative Humidity: Up to 100%

8-inch Load Bearing Base Can

Part Number 88ICC05Y

Electrical Supply

Input voltage		
W/out Heater	With Heater	
95 VAC (min.) - 264 VAC (max.), 50/60 Hz	120 VAC, ±10%, 50/60 Hz	
Maximum Input Power		
	W/out Heater	With Heater
Yellow	10.2 VA	33.2 VA
Green	14.3 VA	37.3 VA
Blue	13.5 VA	36.5 VA
White	14.3 VA	37.3 VA
Red	14.3 VA	37.3 VA

Energy Cost Savings

LED Fixture Load	Incan./Tungsten Halogen Load	Energy Savings
Yellow, Voltage Driven, Without/Inactive Heater		
10.2 VA	40/54 VA	3.9/5.3 times
Yellow, Voltage Driven, without Heater Active		
33.2 VA	40/54 VA	1.2/1.6 times

¹ Either a 40 W (VA) or 54 W (VA) lamp is in typical equivalent fixtures

Dimensions

8-inch Fixture	
Outside diameter:	8.43 in (21.4 cm)
Bolt-circle diameter:	7.32 in (18.6 cm)
12-inch Fixture	
Outside diameter:	11.94 in (30.33 cm)
Bolt-circle diameter (L-868B):	11.25 in (28.58 cm)
Bolt-circle diameter (L-867B):	10.25 in (26.04 cm)

Solar Lighting System Design

ADB can design a complete solar-powered heliport package for interested customers to include solar equipment, elevated and in-pavement fixtures, obstruction lights, wind cone, and control equipment. Call 614-573-8232 for more information.

Spare Components

Description	Part No.
Cord set	73A0136-23
Inner pan assembly, 95-264 V, yellow	44A6354-10
Inner pan assembly, 95-264 V, blue	44A6354-20
Inner pan assembly, 95-264 V, green, white	44A6354-30
LED optical assembly, white, omnidirectional light pattern, w/out heater	44A7217-10
LED optical assembly, white, omnidirectional light pattern, with heater	44A7217-11
LED optical assembly, yellow, omnidirectional light pattern, w/out heater	44A7217-20
LED optical assembly, yellow, omnidirectional light pattern, with heater	44A7217-21
LED optical assembly, green, omnidirectional light pattern, w/out heater	44A7217-30
LED optical assembly, green, omnidirectional light pattern, with heater	44A7217-31
LED optical assembly, blue, omnidirectional light pattern, w/out heater	44A7217-40
LED optical assembly, blue, omnidirectional light pattern, with heater	44A7217-41
LED optical assembly, red, omnidirectional light pattern, w/out heater	44A7217-50
LED optical assembly, red, omnidirectional light pattern, with heater	44A7217-51
LED optical assembly, white, upward light pattern, w/out heater	44A7217-60
LED optical assembly, white, upward light pattern, with heater	44A7217-61
Lens gasket, molded	4071.76.041
O-ring, inner cover seal	7080.90.335
Prism lens	63A1071
Secondary female connector kit	70A0046
Top cover, 8-inch	4071.76.002
Top cover, 12-inch, L-868 11.25" bolt circle	62A2157-1
Top cover, 12-inch, L-867 10.25" bolt circle	62A2157-2

Packaging

8-inch Fixture	
In cardboard box:	6 x 10 x 10 in (15.24 x 25.4 x 25.4 cm)
Weight with packing:	7.65 lb (3.47 kg)
Weight without packing:	5.65 lb (2.56 kg)
8-inch Base Can	
Weight:	3.95 lb (1.79 kg)
12-inch Fixture	
In cardboard box:	7 x 13 x 13 in (17.8 x 33 x 33 cm)
Weight with packing:	15.3 lb (6.94 kg)
Weight without packing:	12.3 lb (5.58 kg)