HELIPORTS

IUL-L

LED In-pavement Utility & Heliport Perimeter Light

8-inch 12-inch

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
- 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 Safegate Sales Department or see ADB Safegate 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)
Humidity: Up to 100%

Energy Cost Savings

LED Fixture Load	In can./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

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

IUL-L

Ordering Code

IUL - X X X X

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 pattern[1]

Arctic Option
0 = Without arctic option
1 = With arctic option[2]

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

8-inch Load Bearing Base Can

88ICC05Y

Electrical Supply

Input Voltage	
W/out Heater	**With Heater**
95VAC (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

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)

Packaging

8-inch Fixture	
In cardboard box:	6 × 10 × 10 in (15.24 × 25.4 × 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 × 13 × 13 in (17.8 × 33 × 33 cm)
Weight with packing:	15.3 lb (6.94 kg)
Weight without packing:	12.3 lb (5.58 kg)

Solar Lighting System Design

ADB Safegate 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. Contact the ADB Safegate sales department for more information.