



Flight Light Inc.
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HBM 150/2
Airport Rotating Beacon
L-801

PH (916) 394-2800 FX (916) 394-2809
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Compliance and Applications

FAA: L-801
A/C150/5345-12 (Current Edition)
ICAO: Annex 14, para 5.3.3

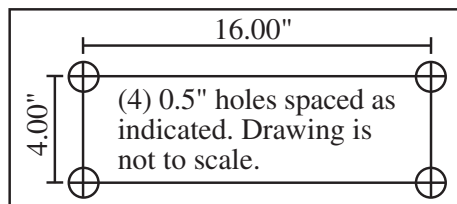
L-801 Rotating Beacons are designed primarily for night operation as identification and location markers for airports.

Why Our Airport Rotating Beacon is Better

- Patented belt-drive system eliminates the lubrication required by conventional gear-drive beacons.
- Patented liquid-filled lamp connector, eliminating the slip rings and brushes found on conventional beacons.
- Two 13,000 lumen, 150 watt pulse-start metal-halide lamps.
- 10,000 hour typical lamp life (2-3 years).
- One clear lens, one aviation green lens.
- NO maintenance except lamp replacement.
- All moving parts are permanently lubricated.
- Impedance-protected motor eliminates burnouts.
- Lamps preset 5° above horizontal, adjustable.
- 12 RPM rotation, 24 flashes/minute.
- Weatherproof steel cabinet, powder coated international orange.
- Class I temperature range: -30 to +55 °C (-22 to +131 °F).
- Class II temperature range: -55 to +55 °C (-67 to +131 °F).
- Tested to wind velocities of 100 mph.
- Optional photocell and/or tell-tale relay.
- Mountable on a Tipdown Pole.
- Power Consumption: 395W Class I, 795W Class II Beacon Tipdown Pole.
- Manufactured in the USA.



L-801 Rotating Beacon



Mounting Diagram



Beacon Tipdown Pole

Ordering Code

Fixture	Voltage	Frequency	Class	Option
46-L801	1: 120V	5: 50 Hz	1: Class I (-22°F/-30°C), without heater. 2: Class II (-67°F/-55°C), with heater.	T: Tell-Tale Relay
	2: 240V	6: 60 Hz		
46-L801				

Visit our web site: www.flightlight.com



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Theory of Operation

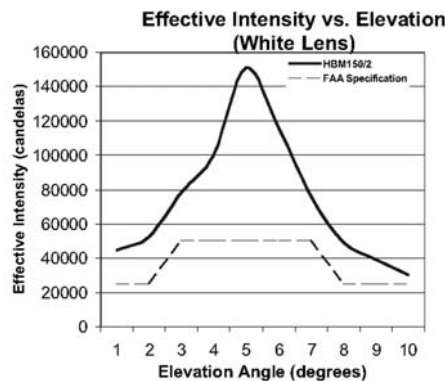
The new patented design airport beacon makes it a maintenance free beacon except for changing of the lamps annually. The L-801 beacon has incorporated the use of efficient 150 watt metal-halide lamps coupled with parabolic reflectors. The combination of this light source and the focusing system gives this beacon a powerful beam that can be seen for over 30 miles. In keeping with FAA requirements, the beacon rotates at 12 RPM to produce a total of 24 flashes per minute. It has two lamps mounted 180° apart with one lens clear and the other aviation green. The 150 watt metal-halide lamps have a 2-3 year life span and produce 13,000 lumens. The extended bulb life eliminates the need for a bulb changer system. The beacon heads are factory preset at 5° up elevation.

The patented belt drive motor system helps make this the most trouble-free beacon on the market. The impedance protected motor eliminates the need for a clutch system. The motor does away with costly burnouts because of this impedance protection. The belt drive system eliminates the need for grease on gears and provides smooth, quiet, reliable operation.

The patented electrical power design eliminates the conventional brushes and slip rings that other small beacons require. (Worn out brushes and pitted slip rings are the cause of most beacon failures.)

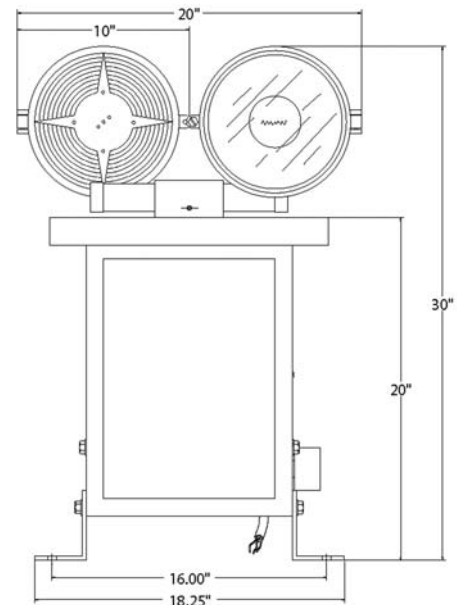
Specifications

- **Electrical Power:** The beacon operates on 120 or 240 VAC, 60hz or 220 or 240 VAC, 50 Hz
- **Beacon Housing:** Weatherproof steel cabinet.
- **Finish:** Powder coat painted International Orange.
- **The beacon comes with mounting feet and can be adapted to any level mounting surface.**
- **Optional Mounting:** Tower Mount part no. 46-4200-0000, REA Pole Mount part no. 46-4200-0002, Beacon Tower - contact the Flight Light Sales Department for details.
- **Operating Temperature:**
 Class I -22° to +131°F (-30° to +55°C).
 Class II -67° to +131°F (-55° to +55°C).
- **Humidity** 0 to 100%.
- **Wind velocities** to 100 mph (161 kph).
- **Packaging:** Cube Shipping Volume: 48" x 42" x 25" (122 x 107 x 64cm)
- **Weight:** 150 lbs (68 kg)
- **Other Options:** Tell-Tale Relay, Photo Cell



Common Replacement Parts

<u>Part No.</u>	<u>Description</u>
46-0200-0024	Ballast Assy 50 Hz
46-0200-0023	Ballast Assy 60 Hz
46-0600-0003	Belt
46-2300-0002	Motor Fuse, 1/2 amp
46-2300-0010	Lamp Fuse, 6.25 amp
46-3400-0125	Lamp, 150 watt pulse-start
46-2800-0006	Lens, Clear
46-2800-0043	Lens, Green
46-2800-0025	Lens, Amber
46-1500-0011	Lens Clip
46-0000-0000-1	Lightning Arrestor



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