

**AUTOMATIC POWER INC
FIBERGLASS BUOY, DREDGE PIPELINES AND HOSE MARKER LIGHTS**

**LBEA-85 Lantern
85 mm Optic**

SIGNAL AND SERVICE CHARACTERISTICS

		<u>BA-323</u>	<u>BA-17</u>	<u>BA-28</u>
1.	Daymark project area	2.5 sq. ft.	3.6 s. ft.	4.5 sq. ft.
2.	Daymark visual range in sea miles*	WHITE 2.4 miles RED 2.2 miles	2.9 miles 2.6 miles	3.2 miles 2.9 miles
3.	Range of light in sea-miles and battery service period in days: **(6-Volt--40 AH Battery) (6-Volt—80 AH Battery)			

WHITE:

250 Milliamp Lamp	2.4 miles / 95 days / 180 days
460 Milliamp Lamp	3.5 miles / 45 days / 90 days

YELLOW:

250 Milliamp Lamp***	2.1 miles / 95 days / 180 days
460 Milliamp Lamp	3.1 miles / 45 days / 90 days

RED:

250 Milliamp Lamp	1.3 miles / 95 days / 180 days
250 Milliamp Lamp (Fixed Burning)***	2.0 miles / 15 days / 30 days
460 Milliamp Lamp	2.0 miles / 45 days / 90 days

GREEN:

250 Milliamp Lamp	1.3 miles / 95 days / 180 days
460 Milliamp Lamp	2.0 miles / 45 days / 90 days

Service periods based upon constant luminous time ratio of 1/10 used in these small buoys. For example, at 60 flashes/min., flash = 0.1 seconds, eclipse 0.9 seconds; at 15 flashes/min., flash = 0.4 seconds, eclipse 3.6 seconds.

*Assumes atmosphere transmissivity of 0.80 per sea-mile (clear, dark night) and actual, observed contrast values.

**Assumes atmosphere transmissivity of 0.80 per sea-mile (clear, dark night) applied to Allards Law with assumed threshold of 0.67 sea-mile candelas. Peak intensities reduced in accordance with Blondel-Rey integral formula.

*****Conforms to 33 CFR 88—Pilot Rules Annex V Paragraph 88.15 Lights on dredge pipelines.**