

LBEA-85/P MARINE LANTERN

The LBEA-85/P Marine Lantern is a **lightweight, versatile, compact lantern specifically developed for use on buoys. The short focal distance provides a wide vertical divergence to compensate for the rolling action of a buoy.**

FEATURES

Lightweight, robust design.

Precision moulded 85mm polycarbonate Fresnel lens.

Integral birdspike.

Easy access for re-lamping and code change.

Uses standard prefocused twin filament lamps and ELCO-12 flasher/regulator with photocell.

High optical efficiency makes the LBEA-85 suitable for solar power.

Polycarbonate lens and base, wide vertical divergence.

Twin filament lamps 10.3v. B22d base.

Multi entry – (bottom entry)

FULLY TESTED

To: BS EN 60529 1992

To: IP 67 Level

Cert No 16336/8

Shock Tested

To: MIL-STD 810D

516.3

Cert No 16337



APPLICATIONS

For channels, rivers and harbours and open sea stations.

Exposed station-Nominal luminous range up to 7 nautical miles white light, 6 nautical miles coloured light.

OPTIONS

Fresnel lens available in clear, red, green, yellow and blue

Filament tester

External photocell.

Synchronisation capability.

Up to 100-watt pre-focused twin filament lamp.

Half mirrored lamps available – consult for details

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SPECIFICATIONS

LBEA-85/P	
Lens diameter:	85mm
Lens material:	Polycarbonate
Base material:	Polycarbonate
Overall height:	305mm
Focal height:	145mm
Fixing:	Three 9mm holes on 150mm PCD
Net weight:	1.5Kg

Character proportions are limited as follows:

*Fixed light up to and including 40 watts
66% ration up to and including 60 watts
40% ratio up to and including 100 watts*

INTENSITY TABLE		
Stationary intensity and vertical divergence		
Lamp Size	LBEA-85/P	
2 watt	25cd	8°
5 watt	65cd	9°
10 watt	130cd	11°
20 watt	260cd	12°
40 watt	520cd	12°
60 watt	775cd	14°
100 watt	1200cd	14°

Note:

*For red lens multiply by 0.22
For green lens multiply by 0.24
For yellow lens multiply by 0.70
For blue lens multiply by 0.05*

RANGE TABLE

	Lamp 10.3 v watts B22d base	Luminous range (nautical miles) with flash length shown () sec			Vertical spread
		Nominal to nearest	Clear to nearest mile	Rain to nearest mile	
		N mile T =0.74	T=0.85	T=0.2	
White	2	3 (0.15)	3 (0.15)	1.2 (0.15)	8°
	5	4 (0.2)	5 (0.2)	1.5 (0.2)	9°
	10	5 (0.5)	6 (0.5)	2 (0.5)	11°
	20	6 (0.5)	8 (0.5)	2.5 (0.5)	12°
	40	8 (0.5)	10 (0.5)	2.7 (0.5)	12°
	60	9 (1.0)	12 (1.0)	3.1 (1.0)	14°
	100	9 (1.0)	13 (1.0)	-	14°

INTENSITY TABLE FOR HALF MIRRORED LAMPS

Stationary intensity and vertical divergence	
10 watt half mirrored lamp in LBEA-85/P	173cd 14°

Please consult for alternative wattage version