



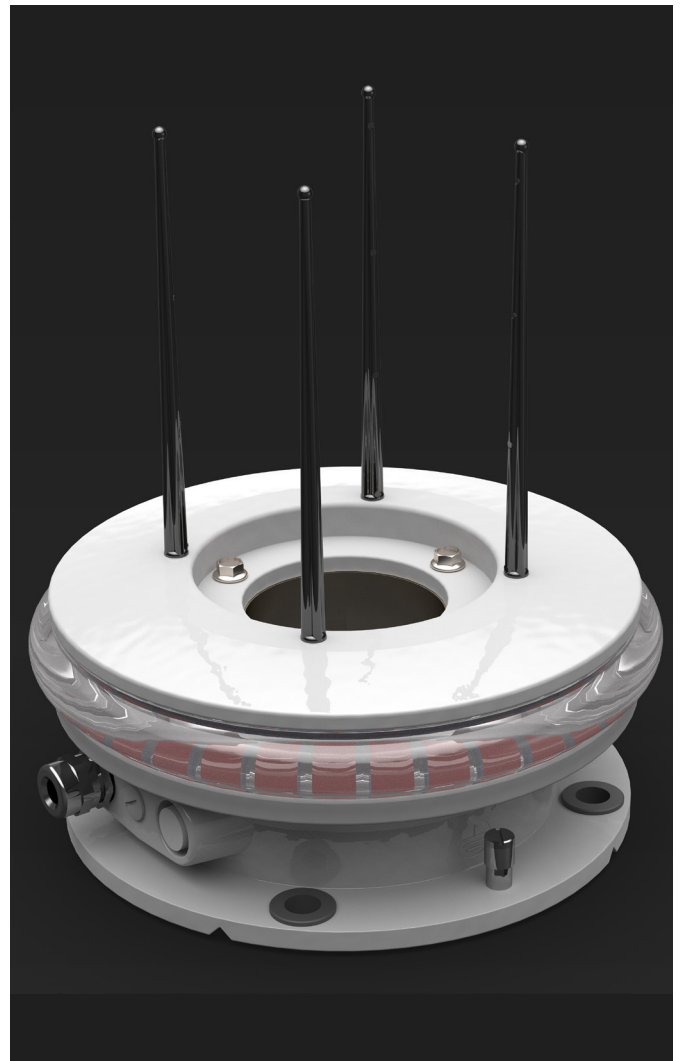
VLB-44X

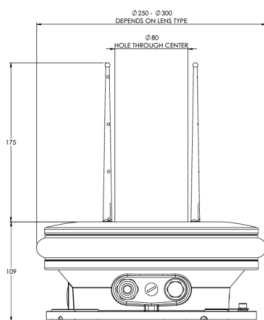
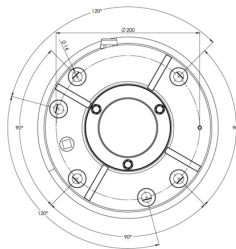
Long range lantern 6-14 NM (1-3 tiers)

The VLB-44X lantern forms part of the LED marine lantern family. The use of highly efficient optics and electronics has resulted in state of the art energy efficiency.

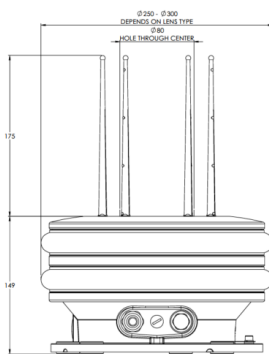
This level of efficiency significantly reduces the solar panel and battery requirement in standalone applications.

- Comes in 3 different vertical divergences to cover both fixed and floating applications: 10° (ideal for buoys), 5° (for land/pole use), 2.5° (for beacons)
- With 1 to 3 tiers, can be sized to match the range requirement of a particular application. Multiple units can be used to extend the range to 16 NM
- Available colours are red, green, white and yellow
- All colours meet the IALA chromaticity recommendation
- The unique optical system utilises an acrylic lens to maximise the light captured from the LED's
- The LED's are precisely graded and placed to produce a light beam with minimum variation in intensity
- A switch mode regulator maintains the light output of the LEDs independent of input of voltage and temperature
- Programming is done using IR programmer: external GPS-sync using VSU-29

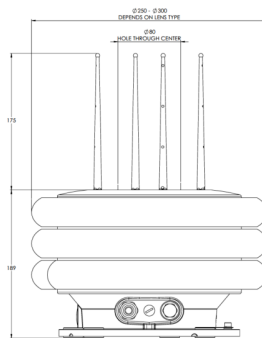




SIDE VIEW
Weight 4.5 kg



SIDE VIEW
Weight 7.2 kg



SIDE VIEW
Weight 9.9 kg

Optical Performance

Maximum intensity (Single tier)

10°	920 cd	1300 cd	1050 cd	1650 cd
5°	1400 cd	1800 cd	1500 cd	2610 cd
2.5°	2060 cd	2610 cd	2190 cd	3730 cd

Maximum intensity (Two tier)

10°	1840 cd	2600 cd	2100 cd	3300 cd
5°	2800 cd	3600 cd	4260 cd	5220 cd
2.5°	4120 cd	5220 cd	4380 cd	7460 cd

Maximum intensity (Three tier)

10°	2760 cd	3900 cd	3150 cd	4950 cd
5°	4200 cd	5400 cd	4500 cd	7830 cd
2.5°	6180 cd	7830 cd	6570 cd	11190 cd

Main Technical Specification

Light source	High-Intensity LEDs
Colours available	Red, Green, White, Yellow
Horizontal divergence	360° fan beam, tolerance ±15% mean
Vertical divergence	2.5°@50% of peak 5°@50% of peak 10°@50% of peak
Weight	4.5 kg + 2.7 kg each additional tier
Temperature	-30° – +50°C
Voltage	12 VDC (10-18 VDC)
Intrusion protection	MIL-STD-202G Method 104A, Cond A P68, 1.5m for 60 minutes
Lens	Machined cast acrylic; UV-protected
Base	Marine grade aluminium
Degree of protection	IP 67

Order Overview VLB-44X

Product code

Code	Note
VLB44X-xT-cddd	
c	Colour (G, R, W, Y)
ddd	Vertical divergence (2D5, 05D, 10D)
x	Tiers (1 to 3)

Option matrix

GS	GPS synchronization
VLB-44XE	Extended I/O