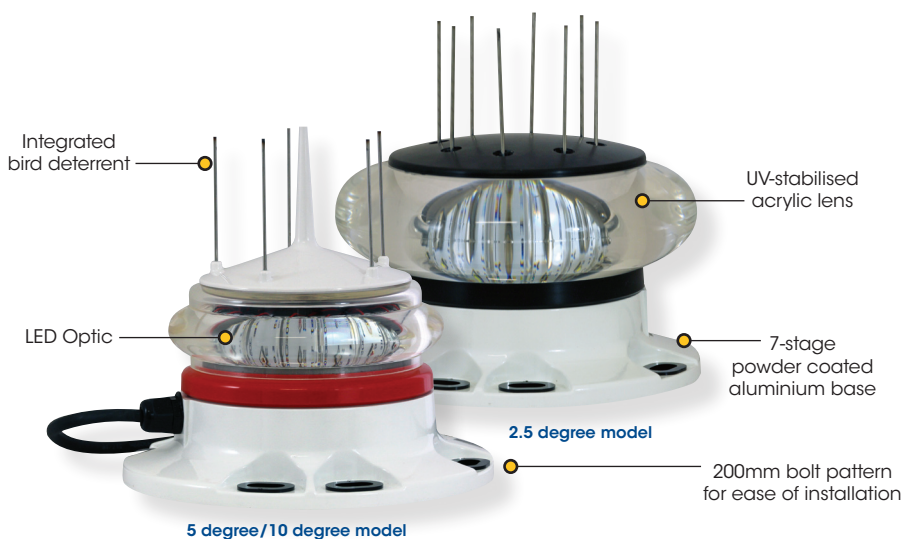


# 6-13NM Marine Lanterns

SL-155 Series — SL-155-2.5D, SL-155-5D & SL-155-10D



## The Sealite Advantage

- Over 7,000cd luminous intensity white
- Compact single tier lantern up to 13NM visible range
- PC or IR Programmer for setup, diagnostic & testing
- Internal or external photocell options
- User configurable day/night lux levels
- Advanced remote monitoring features
- Wide operating voltage range 10 - 30VDC
- Internal data-logging for long term retention of key operational parameters & alarm conditions
- Hardwire synchronisation supporting RS485, RS422
- General purpose inputs (two) & outputs (two)

The SL-155 Series are 6-13NM medium range marine lanterns, available in 2.5, 5, or 10 degree vertical distributions.

### Small Form Factor

The single tier SL-155 with multiple intensity adjustments, high levels of efficiency, and minimal wind loading, offers significant advantages over other lens stack assemblies.

### Advanced PC or IR Programming

Sealite's convenient PC Configuration Tool or IR programmer allows a host of features to be user set including:

- Multiple intensity settings
- 310 flash settings including custom character
- Automatic effective intensity adjustment
- Adjustable on/off lux levels
- Low battery threshold
- GPS synchronisation offset
- Alarm conditions

### Optional GPS Synchronisation

For flash synchronisation of lanterns a GPS module may be fitted.

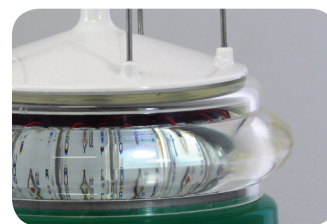
When lanterns flash in synchronisation they can be clearly distinguished from other nav aids and confusing background lighting - ideal for rivers and channel marking.

### Optional GSM Monitoring & Control

The SL-155 lanterns may also be fitted with a GSM Cell-Phone Monitoring and Control System - enabling users to access real-time diagnostics data and change lantern settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.

### Optional Type 1 or Type 3 AIS

The SL-155 lanterns are available with a class-leading integrated, low-powered Type 1 or Type 3 AIS. When fitted, the AIS is encapsulated within the body of the SL-155 to maintain the weatherproof integrity.



LED lens



IR Remote Programmer

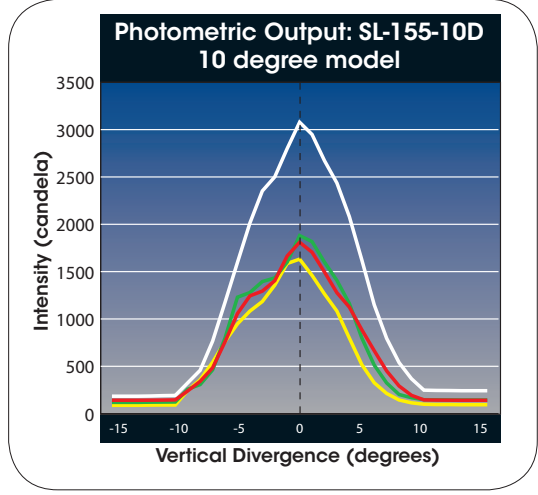
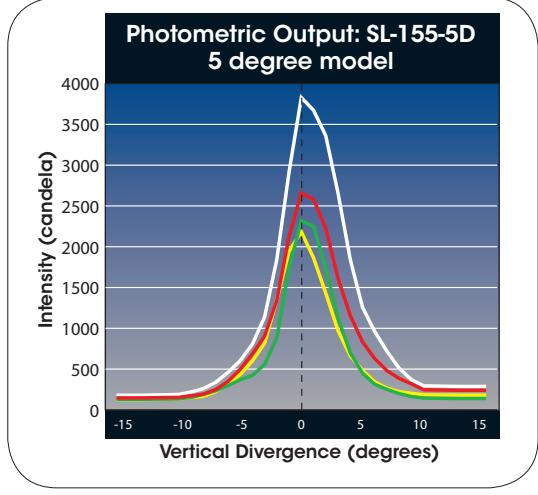
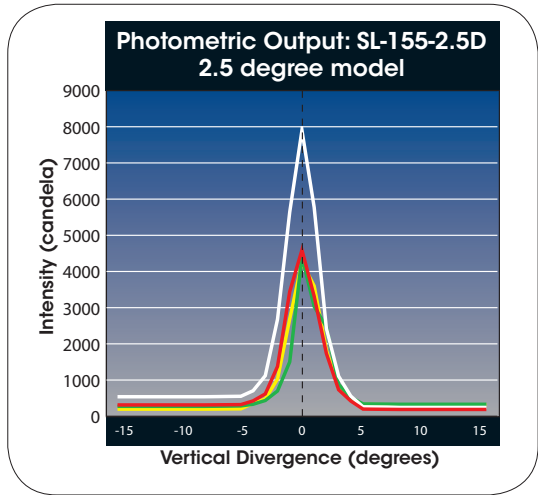


Heavy duty, cast aluminium base

# 6-13NM Marine Lanterns

SL-155 Series — SL-155-2.5D, SL-155-5D & SL-155-10D

Optical Performance				
Maximum luminous intensity (cd)				
	RED	GREEN	WHITE	YELLOW
2.5deg	4,593	4,413	7,900	4,259
5deg	2,660	2,318	3,829	2,185
10deg	1,810	1,881	3,078	1,632

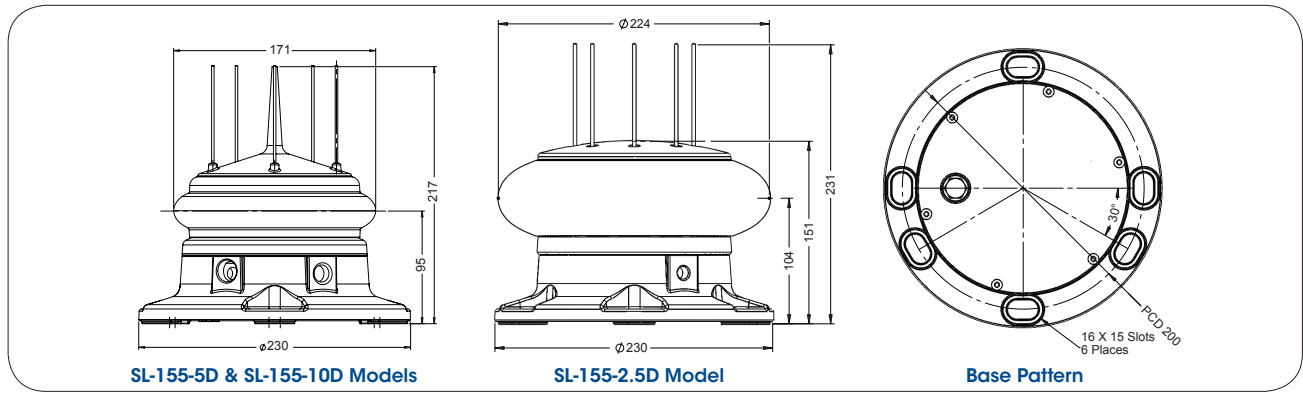


# 6-13NM Marine Lanterns

## SL-155 Series — SL-155-2.5D, SL-155-5D & SL-155-10D

SPECIFICATIONS • *	5° & 10° Models SL-155-5D & SL-155-10D	2.5° Model SL-155-2.5D
<b>Light Characteristics</b>		
Light Source	High efficiency LEDs	High efficiency LEDs
Available Colours	Red, Green, White, Yellow	Red, Green, White, Yellow
Maximum Luminous Intensity (cd)†	5 degree model: Red - 2660 Green - 2318 White - 3829 Yellow - 2185 10 degree model: Red - 1810 Green - 1881 White - 3078 Yellow - 1632	2.5 degree model: Red - 4593 Green - 4413 White - 7900 Yellow - 4259
Visible Range (NM)	AT @ 0.74: 6-13 AT @ 0.85: 7.8-19.2	AT @ 0.74: 6-13 AT @ 0.85: 7.8-19.2
Horizontal Output (degrees)	0° - 360°	0° - 360°
Vertical Divergence (degrees)	5° or 10°	2.5°
Available Flash Characteristics	Up to 310 including 256 IALA recommended, & 1 custom	Up to 310 including 256 IALA recommended, & 1 custom
Intensity Adjustments	User adjustable	User adjustable
LED Life Expectancy (hours)	>100,000	>100,000
<b>Electrical Characteristics</b>		
Typical Power (W)	Variable up to 18	Variable up to 18
Circuit Protection	Polarity protected	Polarity protected
Nominal Voltage (VDC)	12-24	12-24
Temperature Range	-40 to 80°C	-40 to 80°C
<b>Physical Characteristics</b>		
Body Material	7-stage powder-coated aluminium	7-stage powder-coated aluminium
Lens Material	UV-stabilised acrylic	UV-stabilised acrylic
Lens Diameter (mm/inches)	171 / 6¾	224 / 8¾
Lens Design	Multiple LED optic	Multiple LED optic
Mounting	3 & 4 hole 200mm bolt pattern	3 & 4 hole 200mm bolt pattern
Height (mm/inches)	217 / 8½	231 / 9¼
Width (mm/inches)	230 / 9	230 / 9
Mass (kg/lbs)	5 / 11	5.5 / 12¼
Product Life Expectancy	Up to 12 years	Up to 12 years
<b>Environmental Standards</b>		
Shock	MIL-STD-202G Test Condition H, Method 213B 30G vertical and 35G horizontal shock	MIL-STD-202G Test Condition H, Method 213B 30G vertical and 35G horizontal shock
Vibration	MIL-STD-202G, Test Condition B, Method 204D 5G in all axes	MIL-STD-202G, Test Condition B, Method 204D 5G in all axes
Immersion	MIL-STD-202G, Method 104A	MIL-STD-202G, Method 104A
Salt Fog	Rated to withstand continuous exposure to salt water and spray	Rated to withstand continuous exposure to salt water and spray
Ice Loading	Rated to withstand 22kg/m²	Rated to withstand 22kg/m²
Wind Exposure	Rated to withstand 140knots	Rated to withstand 140knots
Hail Impact	Rated to withstand 25mm diameter ice ball impact at 20m/s	Rated to withstand 25mm diameter ice ball impact at 20m/s
Humidity	0 - 100%, condensing	0 - 100%, condensing
Driving Rain	at 45° from vertical	at 45° from vertical
<b>Certifications</b>		
CE & Electrical	FCC Part 15 Rules & ICES-003. EN61000-6-1: 2007 (IEC61000-6-1:2005) Part 6-1 Immunity. EN61000-6-3: 2007 (IEC61000-6-3: 2006) Electromagnetic compatibility (EMC) - Part 6-3 Emission. IEC61000-4-2: 2008 Ed 2 Part 4-2 Electrostatic discharge immunity test Level 4. IEC61000-4-3: 2010 Ed 3.2 Part 4-3. Radiated, radio-frequency, electromagnetic field immunity. IEC61000-4-6: 2008 Ed3. , Electromagnetic compatibility (EMC) - Part 4-6 Immunity. Signal colours compliant to IALA E-200-1 ISO9001:2008 IP68	FCC Part 15 Rules & ICES-003. EN61000-6-1: 2007 (IEC61000-6-1:2005) Part 6-1 Immunity. EN61000-6-3: 2007 (IEC61000-6-3: 2006) Electromagnetic compatibility (EMC) - Part 6-3 Emission. IEC61000-4-2: 2008 Ed 2 Part 4-2 Electrostatic discharge immunity test Level 4. IEC61000-4-3: 2010 Ed 3.2 Part 4-3. Radiated, radio-frequency, electromagnetic field immunity. IEC61000-4-6: 2008 Ed3. , Electromagnetic compatibility (EMC) - Part 4-6 Immunity. Signal colours compliant to IALA E-200-1 ISO9001:2008 IP68
IALA Quality Assurance	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd
Waterproof	3 years	3 years
<b>Intellectual Property</b>		
Trademarks	• GPS Synchronisation	• GPS Synchronisation
<b>Warranty *</b>	• AIS Type 1 or Type 3	• AIS Type 1 or Type 3
<b>Options Available</b>	• GSM Monitoring & Control System	• GSM Monitoring & Control System
	• RS232/422/485 Port	• RS232/422/485 Port
	• General purpose inputs (2) & outputs (2)	• General purpose inputs (2) & outputs (2)
	• Variety of solar/battery configurations	• Variety of solar/battery configurations
	• Serial programming cable	• Serial programming cable
	• Hard-wire Synchronisation	• Hard-wire Synchronisation

• Specifications subject to change or variation without notice  
 \* Subject to standard terms and conditions  
 † Intensity setting subject to solar availability







Also available with optional solar power supplies



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