

# 6–13NM Marine Lanterns

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



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

A Wreck Light lantern to meet IALA recommendation 0-133 for temporary marking of danger or hazards is also available.



## 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



LED lens

## 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.



IR Remote Programmer

## 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 - Integrated or External

The SL-155 lanterns (5 & 10 degree models) 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 and come standard with GPS.

All 3 models can also be ordered with an external Type 1 or Type 3 AIS transponder if required, along with various solar power options.



5 degree/10 degree model with integrated AIS

## Reliable

- Over 9,000cd 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 input & output

## Technical Specifications\*

	5° & 10° Models (SL-155-5D & SL-155-10D)	2.5° Model (SL-155-2.5D)
<b>Light Characteristics</b>		
<b>Light Source</b>	High efficiency LEDs	High efficiency LEDs
<b>Available Colours</b>	Red, Green, White, Yellow	Red, Green, White, Yellow
<b>Maximum Luminous Intensity (cd)*</b>	5 degree model: Red - 2765 Green - 2796 White - 4611 Yellow - 2778 10 degree model: Red - 2368 Green - 2213 White - 3910 Yellow - 2041	2.5 degree model: Red - 6357 Green - 6052 White - 10505 Yellow - 5414
<b>Visible Range (NM)</b>	AT @ 0.74: 6–13 AT @ 0.85: 7.8–19.2	AT @ 0.74: 6–13 AT @ 0.85: 7.8–19.2
<b>Horizontal Output (degrees)</b>	0 - 360	0 - 360
<b>Vertical Divergence (degrees)</b>	5 or 10	2.5
<b>Available Flash Characteristics</b>	Up to 310 including 256 IALA recommended, & 1 custom	Up to 310 including 256 IALA recommended, & 1 custom
<b>Intensity Adjustments</b>	User adjustable	User adjustable
<b>LED Life Expectancy (hours)</b>	>100,000	>100,000
<b>Electrical Characteristics</b>		
<b>Average Power (W)</b>	Variable up to 18	Variable up to 22
<b>Circuit Protection</b>	Polarity protected	Polarity protected
<b>Nominal Voltage (VDC)</b>	12–24	12–24
<b>Temperature Range</b>	-40 to 80°C	-40 to 80°C
<b>Physical Characteristics</b>		
<b>Body Material</b>	Premium enamel painted coating	Premium enamel painted coating
<b>Lens Material</b>	UV-stabilised acrylic	UV-stabilised acrylic
<b>Lens Diameter (mm/inches)</b>	171 / 6¾	224 / 8¾
<b>Lens Design</b>	Multiple LED optic	Multiple LED optic
<b>Mounting</b>	3 & 4 hole 200mm bolt pattern	3 & 4 hole 200mm bolt pattern
<b>Height (mm/inches)</b>	217 / 8½	231 / 9¾
<b>Width (mm/inches)</b>	230 / 9	230 / 9
<b>Mass (kg/lbs)</b>	5 / 11	5.5 / 12¼
<b>Product Life Expectancy</b>	Up to 12 years	Up to 12 years
<b>Environmental Standards</b>		
<b>Shock</b>	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
<b>Vibration</b>	MIL-STD-202G, Test Condition B, Method 204D 5G in all axes	MIL-STD-202G, Test Condition B, Method 204D 5G in all axes
<b>Immersion</b>	MIL-STD-202G, Method 104A	MIL-STD-202G, Method 104A
<b>Salt Fog</b>	Rated to withstand continuous exposure to salt water and spray	Rated to withstand continuous exposure to salt water and spray
<b>Ice Loading</b>	Rated to withstand 22kg/m²	Rated to withstand 22kg/m²
<b>Wind Exposure</b>	Rated to withstand 140knots	Rated to withstand 140knots
<b>Hail Impact</b>	Rated to withstand 25mm diameter ice ball impact at 20m/s	Rated to withstand 25mm diameter ice ball impact at 20m/s
<b>Humidity</b>	0 – 100%, condensing	0 – 100%, condensing
<b>Driving Rain</b>	at 45° from vertical	at 45° from vertical
<b>Certifications</b>		
<b>CE &amp; Electrical</b>	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.	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.
<b>IALA</b>	Signal colours compliant to IALA E-200-1 Emergency Wreck Marking Recommendation O-133	Signal colours compliant to IALA E-200-1 Emergency Wreck Marking Recommendation O-133
<b>Quality Assurance</b>	ISO9001:2015	ISO9001:2015
<b>Waterproof</b>	IP68	IP68
<b>Intellectual Property</b>		
<b>Trademarks</b>	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd
<b>Warranty *</b>	3 years	3 years
<b>Options Available</b>	<ul style="list-style-type: none"> <li>• GPS Synchronisation</li> <li>• AIS Type 1 or Type 3</li> <li>• GSM Monitoring &amp; Control System</li> <li>• RS232/422/485 Communication Port</li> <li>• General purpose input &amp; output</li> <li>• Variety of solar/battery configurations</li> <li>• Serial programming cable</li> <li>• Hard-wire Synchronisation</li> </ul>	<ul style="list-style-type: none"> <li>• GPS Synchronisation</li> <li>• AIS Type 1 or Type 3</li> <li>• GSM Monitoring &amp; Control System</li> <li>• RS232/422/485 Communication Port</li> <li>• General purpose input &amp; output</li> <li>• Variety of solar/battery configurations</li> <li>• Serial programming cable</li> <li>• Hard-wire Synchronisation</li> </ul>

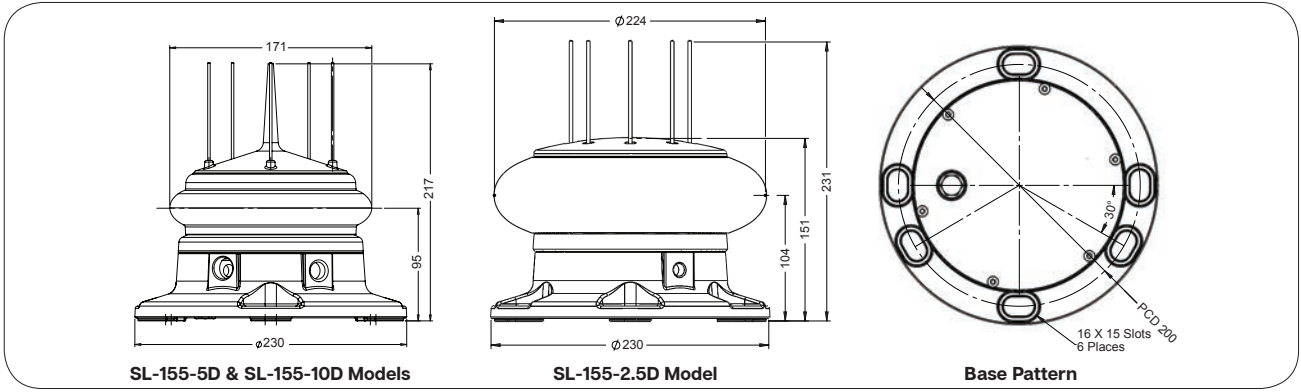
\* Intensity setting subject to solar availability

\* Subject to standard terms and conditions

\* Specifications subject to change or variation without notice  
^ Refer to the Sealite website under the warranty section



# Technical Illustration



## Optical Performance

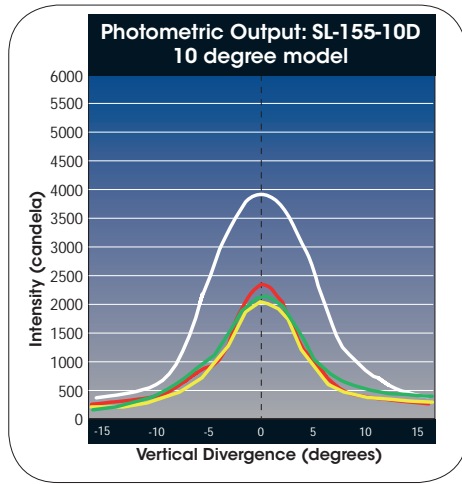
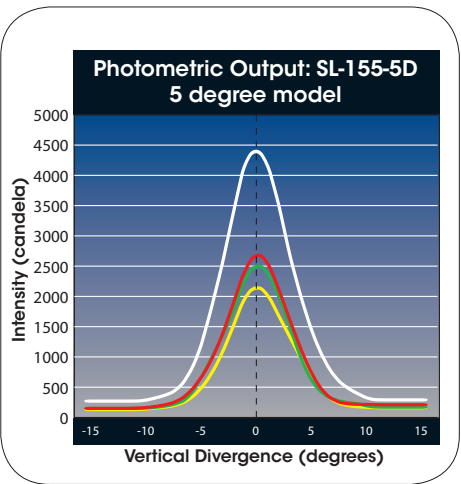
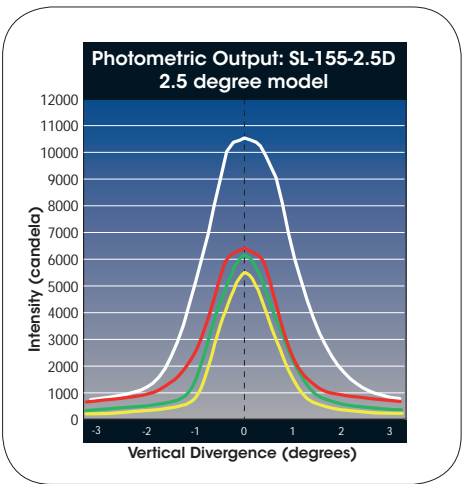
Maximum luminous intensity (cd)				
	RED	GREEN	WHITE	YELLOW
2.5deg	6,357	6,052	10,505	5,414
5deg	2,765	2,796	4,611	2,778
10deg	2,368	2,213	3,910	2,041

## Emergency Wreck Mark - Optical Performance

Effective intensity (cd)	
	YELLOW
10deg	37
	BLUE
	44

Average night-time power consumption	
10deg	0.170AH



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