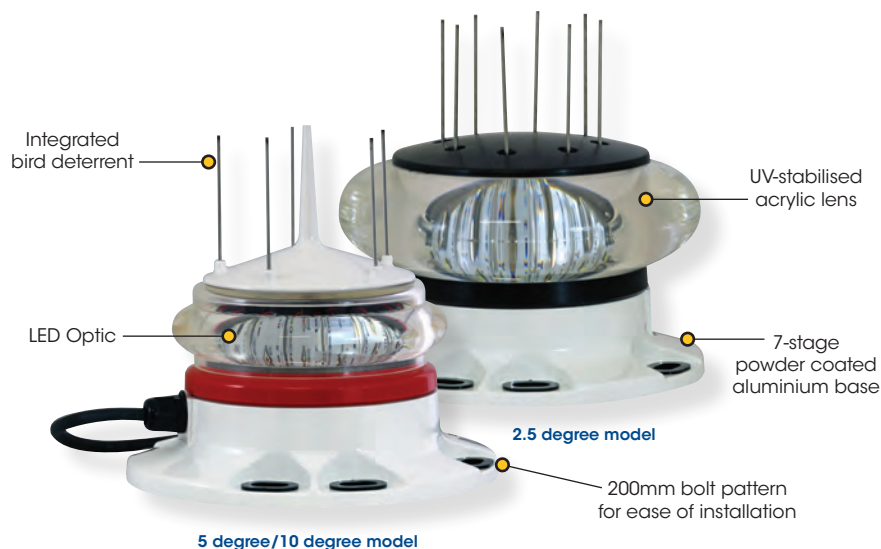
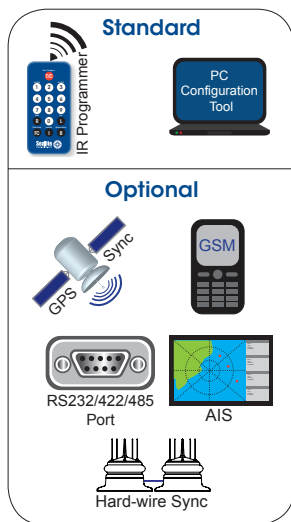


# 6-13NM Marine Lanterns

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



## The Sealite Advantage

- 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

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.

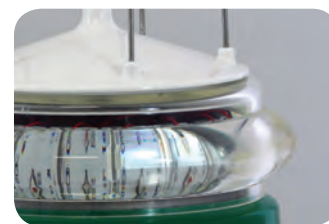
### Optional GSM Monitoring & Control

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 - Integrated or External

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 and come standard with GPS.



LED lens



IR Remote Programmer



5 degree/10 degree model with integrated AIS

Note: 2.5 degree model available with external antenna only.

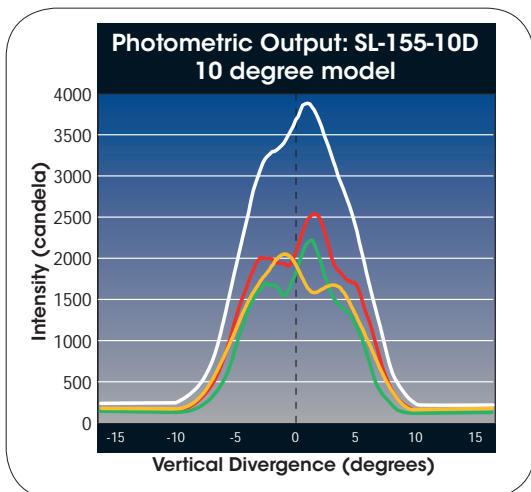
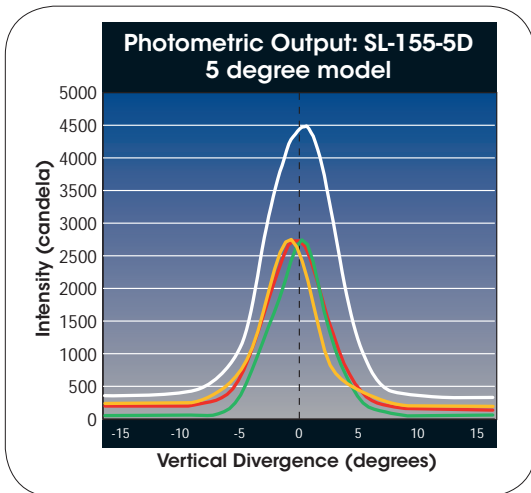
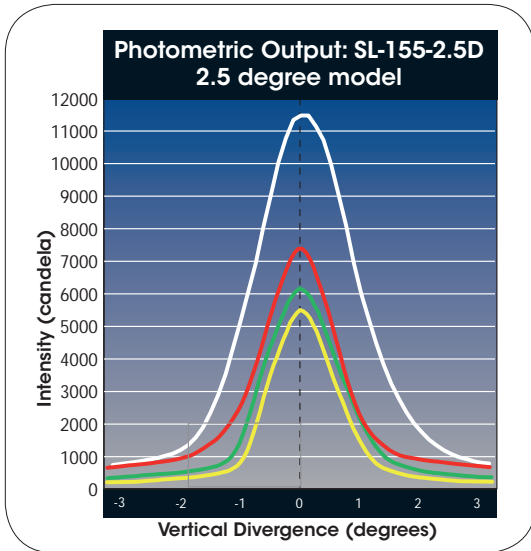
Note: All 3 models can also be ordered with an external Type 1 or Type 3 AIS transponder if required, along with various solar power options.



# 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	7,357	6,052	11,505	5,414
5deg	2,765	2,796	4,611	2,778
10deg	2,581	2,213	3,910	2,041

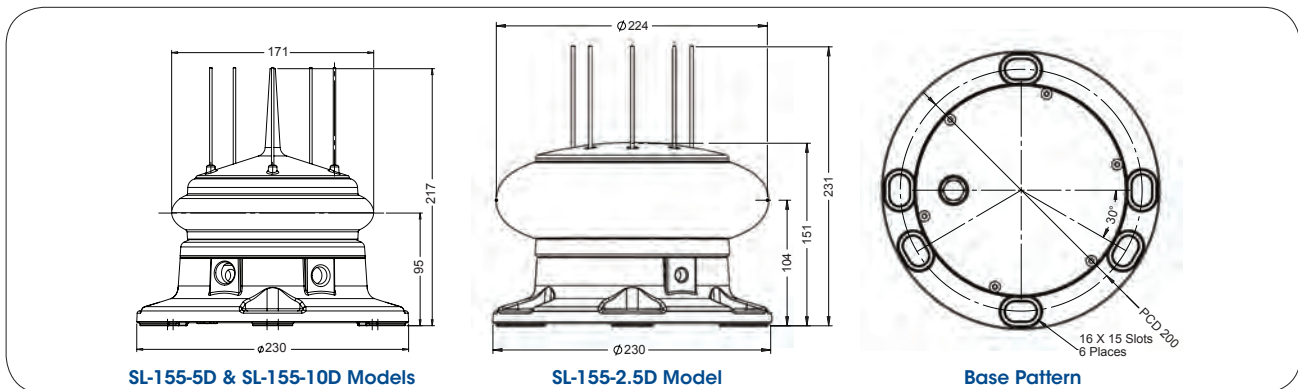


# 6-13NM Marine Lanterns

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

SPECIFICATIONS* * ✉	5° & 10° Models	2.5° Model
	SL-155-5D & SL-155-10D	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 - 2765 Green - 2796 White - 4611 Yellow - 2778 10 degree model: Red - 2581 Green - 2213 White - 3910 Yellow - 2041	2.5 degree model: Red - 7357 Green - 6052 White - 11505 Yellow - 5414
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>		
Average Power (W)	Variable up to 18	Variable up to 22
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 / 9½
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		
Waterproof		
<b>Intellectual Property</b>		
Trademarks	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>

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



SL-155-5D & SL-155-10D Models

SL-155-2.5D Model

Base Pattern







Also available with optional solar power supplies



Sealite Pty Ltd  
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t: +61 (0)3 5977 6128

Sealite Asia Pte Ltd  
Singapore  
t: +65 6829 2243

Sealite United Kingdom Ltd  
UK  
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Sealite USA LLC  
USA  
t: +1 (603) 737 1311