

High Intensity LED Range Light

SL-RL Series



The Sealite SL-RL Series is a long range, high intensity range light designed to give vessels clear night and/or daytime navigation. A daytime range of over 5NM and a night-time range in excess of 23NM can be achieved.

Long Range LED Optics with Ultra-Low Power Consumption

Providing over 424,000cd, the Sealite Range Light is highly efficient and ideal for solar power systems.

Robust Construction

The Sealite Range Light is extremely robust and of high-quality construction. The unit is built from CNC machined marine grade aluminium alloy, subject to 7-stage powder coating. The IP68 rated enclosure offers maximum resistance to weather.

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
- 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.

Multiple general purpose inputs and outputs allow for hardwire synchronisation and main/standby lantern configurations.

Optional GSM Monitoring & Control System

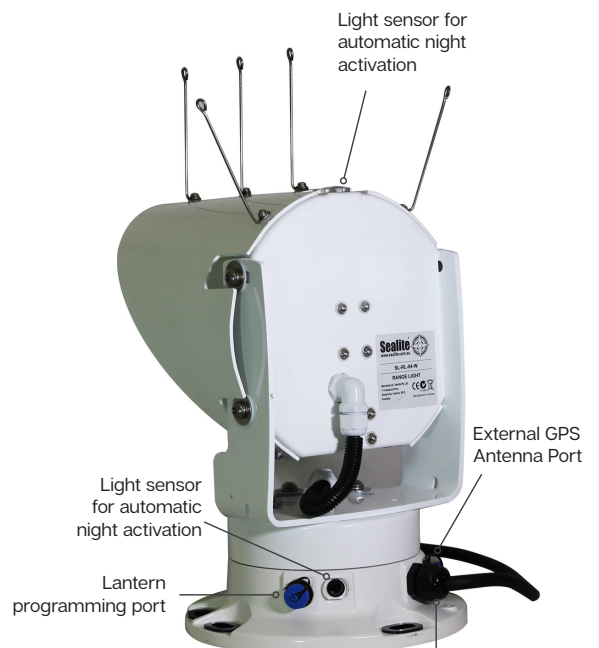
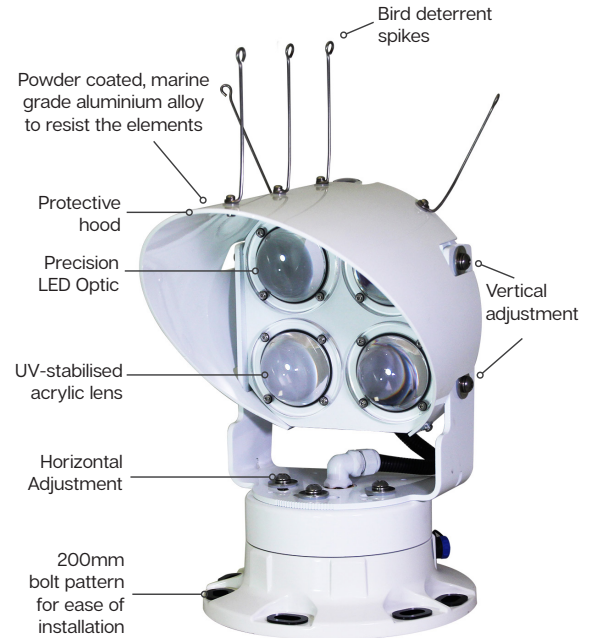
The SL-C500 lanterns may also be fitted with a GSM Cell-Phone Monitoring and Control System – enabling users to access real-time diagnostics data and change lantern settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.

Optional Type 1 or Type 3 AIS

The SL-C500 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.

VHF and GPS antennas to support AIS are fitted directly to the top surface of the lantern - offering significant advantages over competitor's products with externally wired GPS & VHF antennae and AIS systems.



Wide operating voltage range: DC 10–30VDC or AC 110–240VAC, 50–60Hz

Reliable

- Over 424,000cd, white
- Over 5NM visible daytime range
- Over 23NM visible night-time range
- Wide operating voltage range: universal DC 10–30VDC or universal AC 110–240VAC
- PC or IR Programmer for setup, diagnostic & testing
- Internal or external photocell options
- User configurable day/night & twilight intensity settings
- Advanced remote monitoring features
- Internal data-logging for long term retention of key operational parameters & alarm conditions
- Optional solar powered configurations available

Technical Specifications**

SL-RL-04

Light Characteristics

Light Source	High efficiency LED
Available Colours	White as standard. Other colours available on request
Maximum Luminous Intensity (cd)†	Refer to table
Visible Range (NM)	3deg verticle & 3deg horizontal, white: AT @ 0.74: 23.4NM night-time, 5NM daytime AT @ 0.85: 37.3NM night-time, 6.3NM daytime
Vertical Divergence (degrees)	3 as standard. Other options available
Horizontal Output (degrees)	3 & 8 as standard. Other options available
Available Flash Characteristics	Up to 310 including 256 IALA recommended, & 1 custom
Intensity Adjustments	User adjustable
LED Life Expectancy (hours)	>100,000

Electrical Characteristics

Power (W)	VDC Model: up to 29W VAC Model: up to 38W, 50VA
Circuit Protection	Polarity protected
Nominal Voltage (VDC)	VDC Model: 10–30 VDC VAC Model: 110–240 VAC, 50-60Hz

Physical Characteristics

Body Material	7-stage powder-coated aluminium
Lens Material	UV-stabilised acrylic
Lens Design	Multiple LED optic
Mounting	3 & 4 hole 200mm bolt pattern
Height (mm/inches)	332 / 13
Width (mm/inches)	226 / 9
Depth (mm/lbs)	317/12½
Mass (kg/lbs)	7.5 / 16.5
Product Life Expectancy	Up to 12 years

Environmental Standards

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
Ice Loading	Rated to withstand 22kg/m²
Wind Exposure	Rated to withstand 140knots
Hail Impact	Rated to withstand 25mm diameter ice ball impact at 20m/s
Humidity	0 – 100%, condensing
Temperature Range	-40 to 80°C

Certifications

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.
IALA	Signal colours compliant to IALA E-200-1
Quality Assurance	ISO9001:2015
Waterproof	IP68

Intellectual Property

Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd
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Warranty*

3-year warranty

Options Available

<ul style="list-style-type: none"> • GPS Synchronisation • AIS Type 1 or Type 3 • GSM Monitoring & Control System (External for AC, Internal for DC) • RS232/422/485 Port 	<ul style="list-style-type: none"> • Hard-wire Synchronisation • Variety of solar/battery configurations • Multiple divergence lens • Bird deterrent spikes
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We believe technology improves navigation™



Sealite Pty Ltd
Australia
☎ +61 (0)3 5977 6128

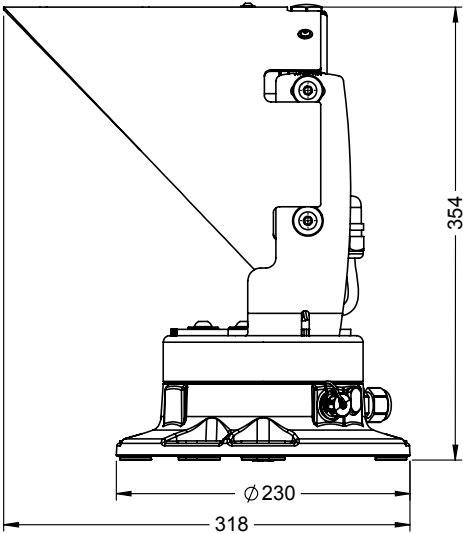
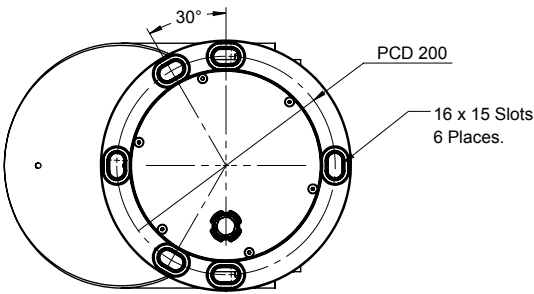
Sealite Asia Pte Ltd
Singapore
☎ +65 6829 2243

Sealite United Kingdom Ltd
UK
☎ +44 (0) 1502 588026

Sealite USA LLC
USA
☎ +1 (603) 737 1311



Technical Illustration



Optical Performance				
Maximum luminous intensity (cd)				
Divergence (deg)	RED	GREEN	WHITE	YELLOW
3(V) x 3(H)	170,000	150,000	424,000	150,000
3(V) x 8(H)	60,000	53,000	140,000	50,000

* Specifications subject to change or variation without notice
^ Refer to the Sealite website under the warranty section
* Subject to standard terms and conditions
† Intensity setting subject to solar availability



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Sealite Pty Ltd
Australia
☎ +61 (0)3 5977 6128

Sealite Asia Pte Ltd
Singapore
☎ +65 6829 2243

Sealite United Kingdom Ltd
UK
☎ +44 (0) 1502 588026

Sealite USA LLC
USA
☎ +1 (603) 737 1311

