High Intensity LED Range Light

SL-RL Series

Standard			Optional				
IR Programmer	PC Configuration Tool			GPS Sync	GSM Monitoring	RS232/422/485 Port	AIS
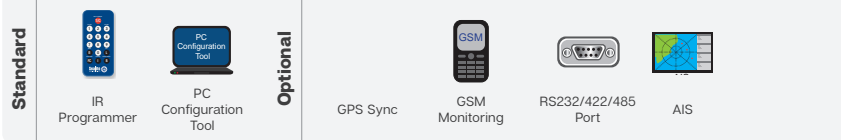
The Sealite SL-RL Series is a long range, high intensity range light designed to give vessels clear night and/or daytime navigation. A daytime range of over 5NM and a night-time range in excess of 23NM can be achieved.

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 with a marine grade two-part epoxy coating. The IP67 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
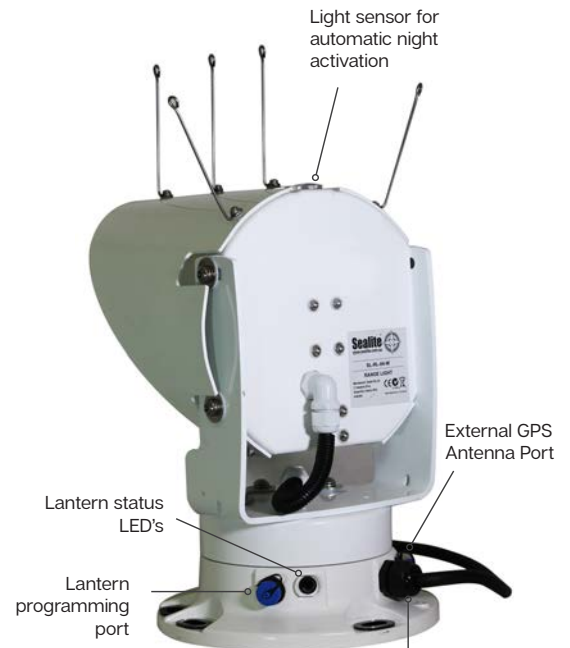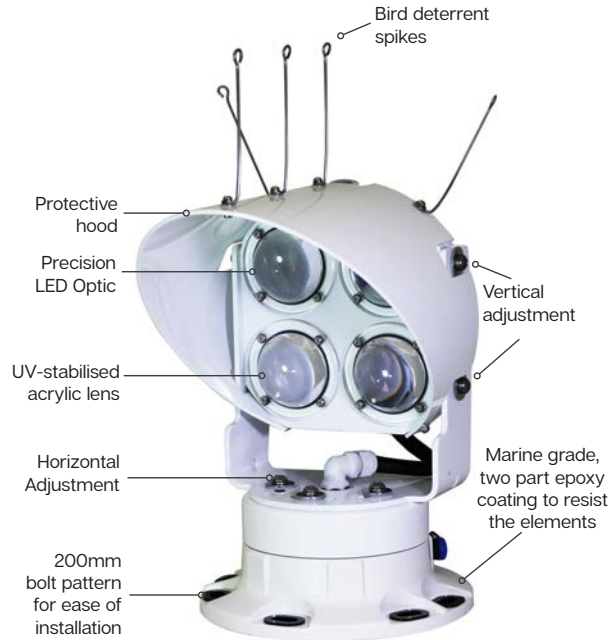- Alarm conditions

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-RL-04 lantern 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-RL-04 lanterns can be integrated with class-leading, low-powered Type 1 or Type 3 AIS.

Bird deterrent spikes

Protective hood

Precision LED Optic

UV-stabilised acrylic lens

Horizontal Adjustment

200mm bolt pattern for ease of installation

Vertical adjustment

Marine grade, two part epoxy coating to resist the elements

Light sensor for automatic night activation

External GPS Antenna Port

Lantern status LED's

Lantern programming port

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 and testing
- Internal or external photocell options
- User configurable day/night and twilight intensity settings
- Advanced remote monitoring features
- Internal data-logging for long term retention of key operational parameters and 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 vertical & 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 and 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	Marine grade two-part epoxy coating
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
Service Life	15 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 140 knots
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	IP67
Intellectual Property	
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty*	
3-year warranty	
Options Available	

- GPS Synchronisation
- AIS Type 1 or Type 3 (External)
- GSM Monitoring & Control System (External for AC, Internal for DC)
- RS232/422/485 Port

- Hard-wire Synchronisation
- Variety of solar/battery configurations
- Multiple divergence lens
- Bird deterrent spikes

We believe technology improves navigation™

IALA

Technical Illustration

30°

PCD 200

16 x 15 Slots
6 Places.

354

Ø 230

318
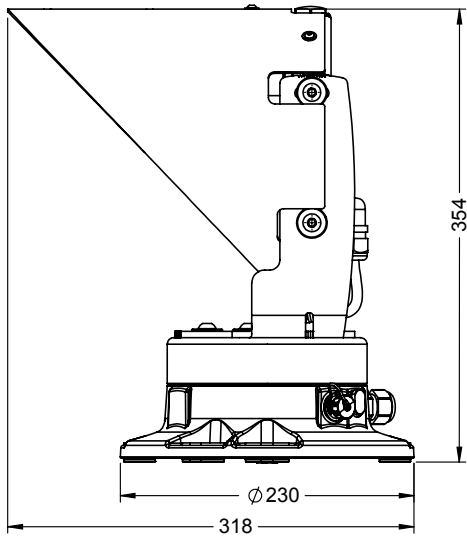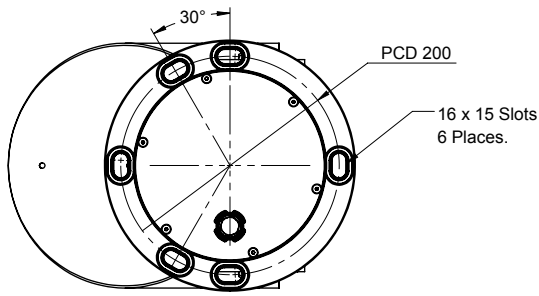
Optical Performance				
Maximum luminous intensity (cd)				
Divergence (deg)	RED	GREEN	WHITE	YELLOW
3(V) x 8(H)	60,000	53,000	140,000	50,000

CE

We believe technology improves navigation™

IALA