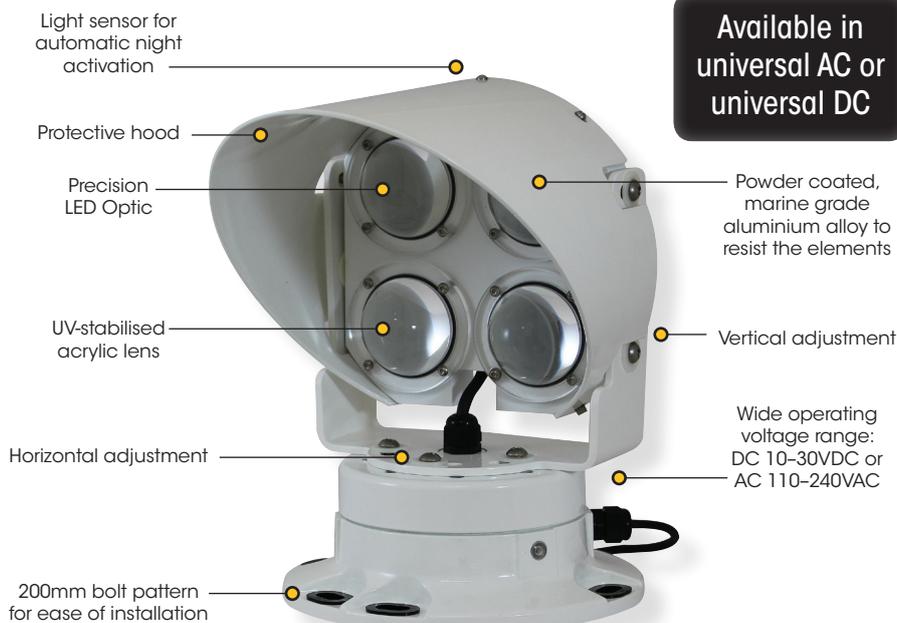
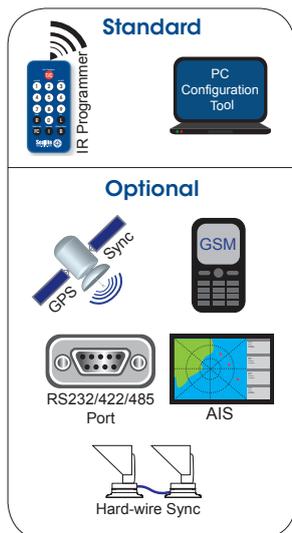


High Intensity LED Range Light

SL-RL Series



The Sealite Advantage

- 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

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

The Range Light may also be fitted with a GSM module for monitoring and control - enabling users to access real-time diagnostic data and change light 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 Series Range Light is 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 light 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.



High Intensity LED Range Light

SL-RL Series

SPECIFICATIONS* *

SL-RL-04

Light Characteristics

Light Source
Available Colours
Maximum Luminous Intensity (cd) †
Visible Range (NM)

High efficiency LEDs
White as standard. Other colours available on request
Refer to table
3deg verticle & 3deg horizontal, white:
AT @ 0.74: 23.4NM night-time, 5NM daytime
AT @ 0.85: 37.3NM night-time, 6.3NM daytime
3° as standard. Other options available
3° as standard. Other options available
Up to 310 including 256 IALA recommended, & 1 custom
User adjustable
>100,000

Horizontal Output (degrees)
Vertical Divergence (degrees)
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

Electrical Characteristics

Power (W)
Circuit Protection
Nominal Voltage

VDC Model: up to 28.8W VAC Model: up to 38W, 50VA
Polarity protected
VDC Model: 10-30 VDC VAC Model: 110-240 VAC

Physical Characteristics

Body Material
Lens Material
Lens Design
Mounting
Height (mm/inches)
Width (mm/inches)
Depth (mm/inches)
Mass (kg/lbs)
Product Life Expectancy

7-stage powder-coated aluminium
UV-stabilised acrylic
Multiple LED optic
3 & 4 hole 200mm bolt pattern
332 / 13
226 / 9
317 / 12½
7.5 / 16.5
Up to 12 years

Environmental Standards

Shock

MIL-STD-202G Test Condition H, Method 213B 30G vertical and 35G horizontal shock
MIL-STD-202G, Test Condition B, Method 204D 5G in all axes
Rated to withstand 22kg/m²
Rated to withstand 140knots
Rated to withstand 25mm diameter ice ball impact at 20m/s
0 - 100%, condensing
-40 to 80°C

Vibration

Ice Loading
Wind Exposure
Hail Impact
Humidity
Temperature Range

CE & Electrical

Certifications

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
Ambient light levels compliant to IALA Guideline No. 1038
ISO9001:2008
IP68

IALA

Quality Assurance
Waterproof

Intellectual Property

Trademarks

Warranty *

Options Available

SEALITE® is a registered trademark of Sealite Pty Ltd
3 years
• GPS Synchronisation
• AIS Type 1 or Type 3
• 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

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



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

