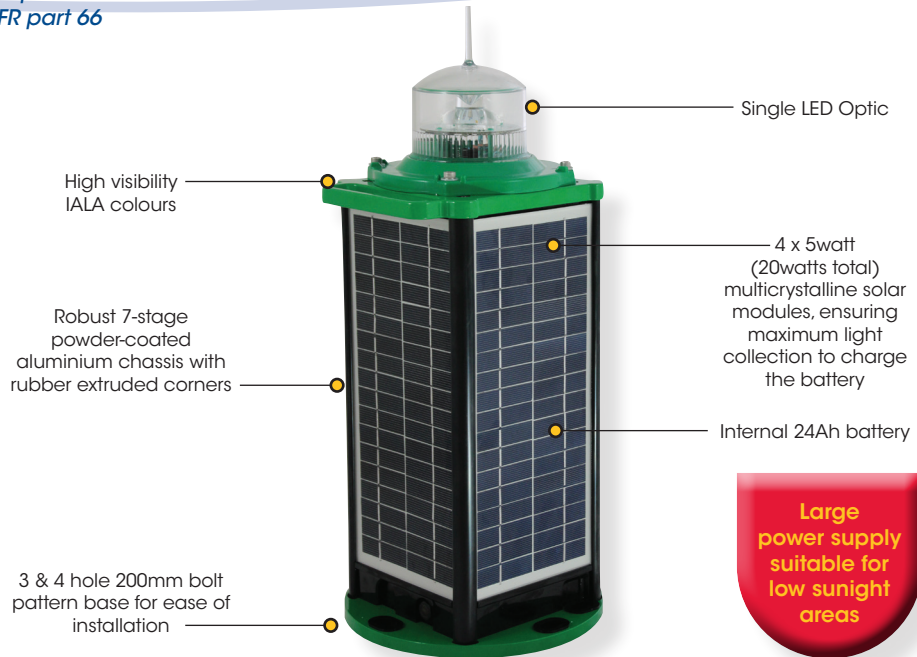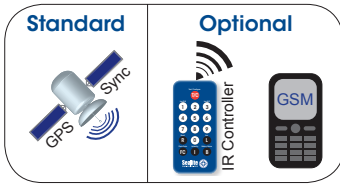# SL-C410
3–5NM+ Solar Marine Lantern

This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66

Next Generation

**Single LED Optic ...
Brighter, more efficient**

Standard	Optional
GPS Sync	IR Controller / GSM

Single LED Optic

High visibility IALA colours

4 x 5watt (20watts total) multicrystalline solar modules, ensuring maximum light collection to charge the battery

Robust 7-stage powder-coated aluminium chassis with rubber extruded corners

Internal 24Ah battery

3 & 4 hole 200mm bolt pattern base for ease of installation

Large power supply suitable for low sunlight areas

The Sealite Advantage

- IR programmable
- Fitted with on-board GPS as standard for synchronised flashing
- Single, high powered LED for superior light output
- Simplicity of design ensures ease of maintenance in the field
- Heavy-duty aluminium construction
- All components user-replaceable in the unlikely event of damage
- 200mm bolt pattern for immediate installation on existing structures
- User-replaceable battery
- 256 IALA flash patterns
- IP68 waterproof
- 3 year warranty

SL-C410 model shown with optional GSM Module

The SL-C410 is a robust, completely self-contained 3–5NM+ Solar LED Lantern specifically designed to withstand the tough marine environment, providing years of reliable, low-maintenance service. The 3 & 4 hole bolt pattern base fits directly onto existing 200mm bolt pattern industry standard mounts for ease of installation.

The SL-C410 uses the Sealite single-LED optic, and provides the highest power to light output ratio of any light in its class, making it brighter and more efficient. The light will provide up to 176cd (white) or up to 6NM visible range, in a small self-contained package.

The SL-C410 has a large power supply consisting of four 5watt panels (20 watt total) making this model perfect for use in lower sunlight areas or where more demanding duty cycles are required. The four (4) premium-grade solar modules are integrated into the assembly, and mounted to collect sunlight at all angles.

The base and top of the SL-C410 are made from cast aluminium, subject to 7-stage powder-coating in high visibility IALA colours for daytime recognition, with UV-stabilised rubber corners and gaskets providing a superior IP68 waterproof rating – the best in the industry. The SL-C410 has a handle incorporated into the chassis for safe lifting.
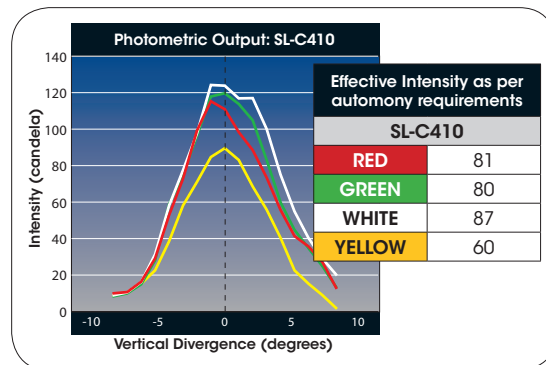
The tough, polycarbonate lens is specifically designed for use with LEDs and incorporates an environment-friendly spike – deterring unwelcome bird life. The lens design also ensures that vessel operators clearly see the light from above when passing the AtoN.

The SL-C410 comes with standard rotary switches for convenient in-field changes of flash characters and intensity selection. In addition, the unit may be provided with an IR programmer for added functionality. Programmable features include; flash code adjustment, battery diagnostics, intensity adjustment and lux adjustment.
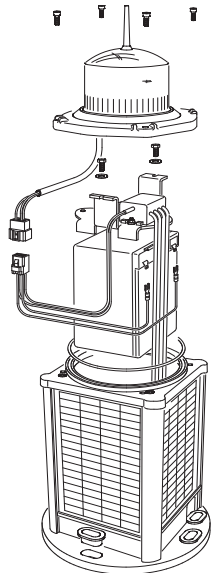
GPS Synchronisation

Sealite has utilised the latest advancements in GPS technology to develop an internal synchronisation system that is incorporated into the SL-C410 lantern. Using overhead satellites, lights set to the same flash pattern will flash in unison.

When lanterns flash in synchronisation they can be clearly distinguished from other navaids and confusing background lighting – ideal for rivers, marina entrances, channel marking and aquaculture.

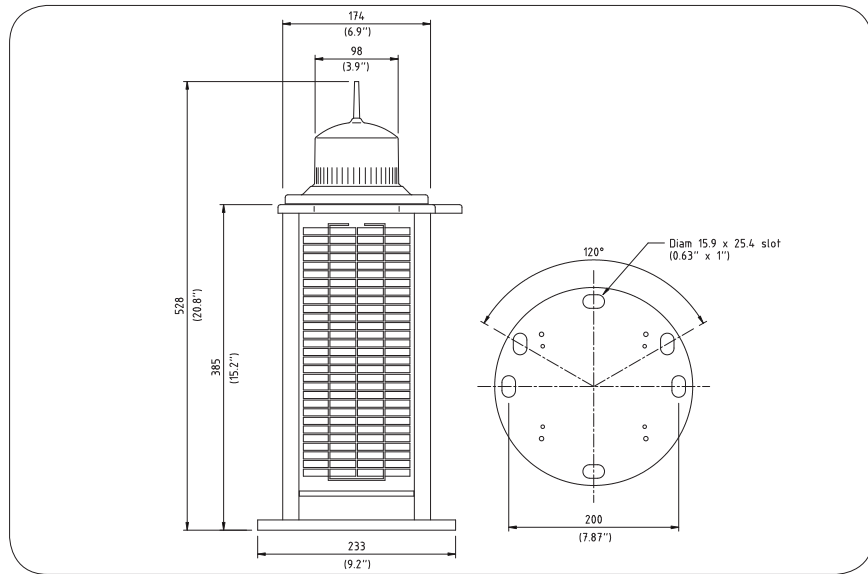**Photometric Output: SL-C410**

Intensity (candela) vs *Vertical Divergence (degrees)*

Effective Intensity as per automony requirements	
SL-C410	
RED	81
GREEN	80
WHITE	87
YELLOW	60

SL-C410
3–5NM+ Solar Marine Lantern

Convenient
user-replaceable battery

174
(6.9")
98
(3.9")
528
(20.8")
385
(15.2")
233
(9.2")

120°
Diam 15.9 x 25.4 slot
(0.63" x 1")
200
(7.87")

Optional GSM Monitoring & Control System

The SL-C410 may also be fitted with GSM Cell-Phone Monitoring and Control – 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.

SPECIFICATIONS • *　　SL-C410

Light Characteristics
Light Source	1 LED
Available Colours	Red, Green, White, Yellow, Blue
Typical Maximum Flashing Intensity (cd)†	Red - 121 Green - 88 White - 156 Yellow - 95
Visible Range (NM)	3–5+
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	>7
Available Flash Characteristics	Up to 256 IALA recommended (user adjustable)
Intensity Adjustments	Multiple instensity settings
LED Life Expectancy (hours)	>100,000

Electrical Characteristics
Current Draw at advertised intensity (mA)	120
Night Off Current (Eclipse) (mA)	2.5
Day Off Current (mA)	0.6
Circuit Protection	Integrated
Nominal Voltage (V)	12
Autonomy (nights)	>110 (14 hour darkness, 12.5% duty cycle)
Temperature Range	-40 to 80°C

Solar Characteristics
Solar Module Type	Multicrystalline
Output (watts)	20 (4 x 5watt)
Charging Regulation	Microprocessor controlled

Power Supply
Battery Type	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	24
Nominal Voltage (V)	12
Battery Service Life	Average 5 years

Physical Characteristics
Body Material	7-stage powder-coated aluminium chassis with UV-stabilised rubber corners & gaskets
Lens Material	LEXAN® Polycarbonate – UV-stabilised
Lens Diameter (mm/inches)	98 / 3⁷/₈
Lens Design	Sinlge LED Optic
Mounting	3 & 4 hole 200mm bolt pattern
Height (mm/inches)	528 / 20³/₄
Width (mm/inches)	233 / 9¹/₅
Mass (kg/lbs)	13.9 / 30½
Product Life Expectancy	Up to 12 years

Certifications
CE	EN61000-6-3:1997. EN61000-6-1:1997
Quality Assurance	ISO9001:2008
Waterproof	IP68

Intellectual Property
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd

Warranty *
3 years

Options Available
- 50mm pole mount adapter plate
- IR Controller
- GSM Monitoring & Control System#
- External ON/OFF Switch
- External Battery Charging Port
- GPS Synchronisation: enable/disable
- 5° Lens
- Higher current setting available for high sunlight regions

• Specifications subject to change or variation without notice
* Subject to standard terms and conditions
† Intensity setting subject to solar availability
# Contact Sealite for solar sizing information to ensure suitability in your region

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