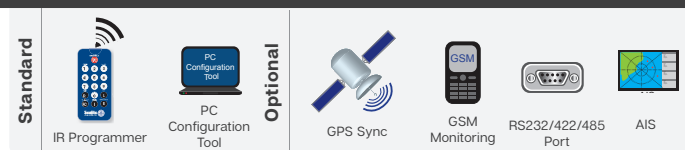


13–19NM Long Range Lantern

SL-300 Series – SL-300-2D5-1 & SL-300-2D5-2



The SL-300-2D5 Series are 13 to 19NM long range marine lanterns with 2.5 degree vertical distribution, suitable for a range of applications.



High Intensity, Small Form Factor

The SL-300-2D5 series offers multiple intensity adjustments to over 46,000cd luminous intensity in a single tier (over 93,000cd in a 2-tier configuration). The small form factor provides minimal wind loading and convenient handling – delivering significant advantages over traditional larger lens stack assemblies.

Advanced Thermal Management

The SL-300-2D5 Series features precision lower, mid and upper heat sinking. The custom designed heat sinks are interconnected, and designed to maintain an appropriate LED temperature across a wide range of duty cycles, enabling the lanterns to run efficiently whilst maintaining a compact size.

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.

Optional GSM Monitoring & Control

The SL-300-2D5 Series may also be fitted with a GSM module for monitoring and control – enabling users to access real-time diagnostic data and change lantern settings via cell-phone.



The Sealite Advantage

- Over 46,000cd luminous intensity white - single tier
- Over 93,000cd luminous intensity white - two tier
- Compact two tier lantern up to 19NM 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 21–58VDC
- Internal data-logging for long term retention of key operational parameters & alarm conditions
- General purpose inputs (two) & outputs (two)

Technical Specifications.*

SL-300 Series	2.5° Single Tier Model	2.5° Two Tier Model
	SL-300-2D5-1	SL-300-2D5-2
Light Characteristics		
Light Source	High efficiency LEDs	High efficiency LEDs
Available Colours	White. Other colours available on request	White. Other colours available on request
Typical Maximum Intensity (cd)†	White - 46,700 cd Red - 21,000 cd Green - 18,000 cd	White - 93,400 cd Red - 42,000 cd Green - 36,000 cd
Visible Range (NM)	AT @ 0.74: 13–17.5 AT @ 0.85: 19.2–26.9	AT @ 0.74: 18–19 AT @ 0.85: 27.8–29.6
Horizontal Output (degrees)	360	360
Vertical Divergence (degrees)	>2.5	>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
Electrical Characteristics		
Average Power (W)	Variable up to 132W	Variable up to 264W
Circuit Protection	Polarity protected	Polarity protected
Nominal Voltage (V)	24–48	24–48
Temperature Range	-40 to 60°C	-40 to 60°C
Physical Characteristics		
Body Material	Premium quality paint coating	Premium quality paint coating
Lens Material	UV-stabilised acrylic	UV-stabilised acrylic
Lens Diameter (mm/inches)	298 / 11¾	298 / 11¾
Lens Design	Multiple LED optic	Multiple LED optic
Mounting	3 & 4 hole 200mm bolt pattern	3 & 4 hole 200mm bolt pattern
Height (mm/inches)	216 / 8½	342 / 13½
Width (mm/inches)	298 / 11¾	298 / 11¾
Mass (kg/lbs)	8.8 / 19½	18 / 39¾
Product Life Expectancy	Up to 12 years ^	Up to 12 years ^
Environmental Standards		
Wind Exposure	Rated to withstand 140knots	Rated to withstand 140knots
Humidity	0 – 100%, condensing	0 – 100%, condensing
Driving Rain	at 45° from vertical	at 45° from vertical
Waterproof	IP68	IP68
Certifications		
Immunity	EN 61000-6-1: 2007 (IEC61000-6-1: 2005).	EN 61000-6-1: 2007 (IEC61000-6-1: 2005).
Emission	EN 61000-6-4: 2007 (IEC 61000-6-4: 2006) + A1: 2001.	EN 61000-6-4: 2007 (IEC 61000-6-4: 2006) + A1: 2001.
FCC Part 15 Rules	IFCC Part 15 Subpart B.	IFCC Part 15 Subpart B.
IALA	Signal colours compliant to IALA E-200-1	Signal colours compliant to IALA E-200-1
Quality Assurance	ISO 9001:2015	ISO 9001:2015
Intellectual Property		
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty*		
	3-year warranty	3-year warranty
Options Available		
	• GPS Synchronisation • AIS Type 1 or Type 3 • GSM Monitoring & Control System • RS232/422/485 Port	• General purpose inputs (2) & outputs (2) • Variety of solar/battery configurations • Bird deterrent spikes • Serial programming cable

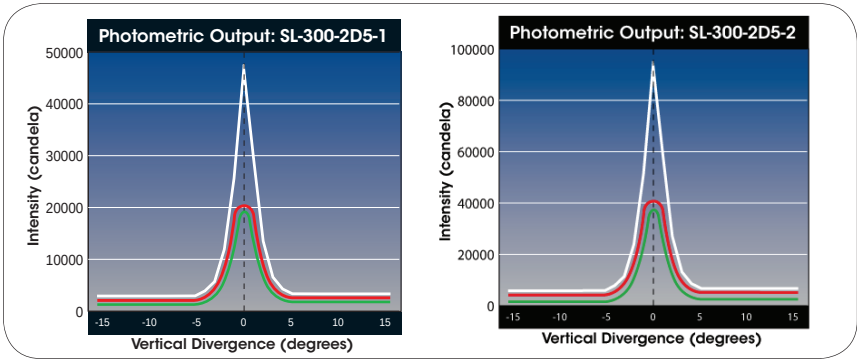
*AIS option will be with external Type 1 or Type 3 AIS transponder

*Refer to the Sealite website under the warranty section

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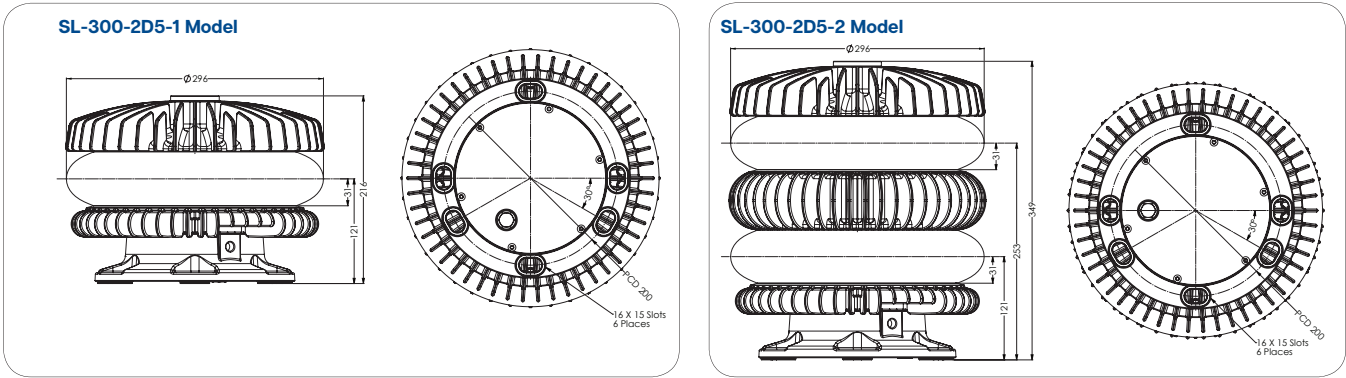


Photometric Output



Optical Performance			
Maximum luminous intensity (cd)			
	WHITE	RED	GREEN
SL-300-2D5-1	46,700	21,000	18,000
SL-300-2D5-2	93,400	42,000	36,000

Technical Illustrations



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