

DEEPSEA
Power & Light[®]



Multiray[™] LED SeaLite[®] 2025



Patents Pending

FEATURES

Switchable Beam Configurations

Switchable Color Configurations

Customer Serviceable

SeaSense[™] Protocol

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LSL-2025

Configuration	LEDs	Arrays	Typical Lumen Output	Lux @ 1 m	CRI	Port	
DW00-D02	8	Array 1	Day Light White 75° Flood	4,800	3,200 lx	70	Acrylic
		Array 2	Day Light White 115° Wide ¹	4,700	1,500 lx	70	
		Combined	Day Light White Coming Soon	9,500	4,600 lx	70	
WW00-D02	8	Array 1	Warm White 75° Flood	3,750	2,500 lx	80	Acrylic
		Array 2	Warm White 115° Wide ¹	3,700	1,100 lx	80	
		Combined	Warm White Coming Soon	7,400	3,600 lx	80	
DW00-D01	32	Array 1	Day Light White 40° Spot	8,000	13,000 lx	70	Standard: Acrylic Optional: Sapphire
		Array 2	Day Light White 75° Flood	9,900	5,500 lx	70	
		Combined	50° Medium	10,000	Coming Soon	70	
WW00-D01	32	Array 1	Warm White 40° Spot	6,300	10,000 lx	80	Standard: Acrylic Optional: Sapphire
		Array 2	Warm White 75° Flood	7,800	4,300 lx	80	
		Combined	50° Medium	7,800	Coming Soon	80	
DC01-D02	8	Array 1	Day Light White 75° Flood	4,800	3,200 lx	70	Acrylic
		Array 2	Warm White 115° Wide ¹	3,700	1,100 lx	80	
		Combined	Coming Soon	Coming Soon	Coming Soon	Coming Soon	
DC02-D02	8	Array 1	Warm White 75° Flood	3,750	2,500 lx	80	Acrylic
		Array 2	Day Light White 115° Wide ¹	4,700	1,500 lx	70	
		Combined	Coming Soon	Coming Soon	Coming Soon	Coming Soon	
DC01-D01	32	Array 1	Day Light White 40° Spot	8,000	13,000 lx	70	Standard: Acrylic Optional: Sapphire
		Array 2	Warm White 75° Flood	7,800	4,300 lx	80	
		Combined	Coming Soon	Coming Soon	Coming Soon	Coming Soon	
DC02-D01	32	Array 1	Warm White 40° Spot	6,300	10,000 lx	80	Standard: Acrylic Optional: Sapphire
		Array 2	Day Light White 75° Flood	9,900	5,500 lx	70	
		Combined	Coming Soon	Coming Soon	Coming Soon	Coming Soon	
DC03-FLD		Array 1	Day Light White 75° Flood	9,900	5,500 lx	70	Standard: Acrylic Optional: Sapphire
		Array 2	Green ² 75° Flood	Coming Soon	Coming Soon	–	
DC04-D01		Array 1	405nm Ultraviolet ³ 75° Flood	Coming Soon	Coming Soon	–	Sapphire
		Array 2	Day Light White 40° Spot	Coming Soon	Coming Soon	70	

¹ Acrylic port required for 115° Wide.

² Contact sales for red, blue, and other color options.

³ Sapphire port required for UV.

Common configurations shown. Please contact sales for other configurations.

LSL-2025

LSL-2025	
Optical Specifications	
Color and LED Sources	Day Light White 5000 K ~ 6500 K Warm White 2600 K ~ 3700 K Blue, Green, Red ² UV365 ³ , UV405 ³
Beam Angles	Wide ¹ : 115° Flood: 75° Spot: 40°, 28°
Environmental Specifications	
Depth Rating	4,000 m Acrylic Port 6,000 m or 11,000 m Sapphire Port
Thermal Protection	Intelligent Thermal Rollback
Operational Temperature	-10°C to 40°C [14°F to 104°F]
Storage Temperature	-40°C to 100°C [-40°F to 212°F]
Electrical Specifications	
Voltage	10~48 VDC ⁴
Power	106W @ 24 VDC
Dimming	RS232 ⁵ , RS485 ⁵ , 0~5V, 0~10V, 4~20mA
Mechanical Specifications	
Housing	Hard Anodized 6013 Aluminum Titanium ^{6,7}
Port	Standard: Sapphire Optional: Acrylic ^{6,7}
Outer Diameter	63.0 mm [2.48 in]
Overall Length (Without Connector)	Acrylic Flood/Wide: 95.9 mm [3.77 in] Sapphire Flood: 93.3 mm [3.67 in] Acrylic/Sapphire Spot: 99.6 mm [3.92 in]
Weight in Air⁸	Sapphire Flood: 450 g Sapphire Spot: 470 g
Weight in Water⁸	Sapphire Flood: 200 g Sapphire Spot: 220 g
Connector⁹	
Default	SEACON MCBHMP Please contact sales for more options.

¹ Acrylic port required for 115° Wide. Titanium housing with this option reduces lumen output by 50%.

² Contact sales for red, blue, and other color options.

³ Sapphire port required for UV.

⁴ 100% output available above 20 VDC. 50% output from 10-20 VDC due to input current limits.

⁵ For RS232 and RS485, see Manual.

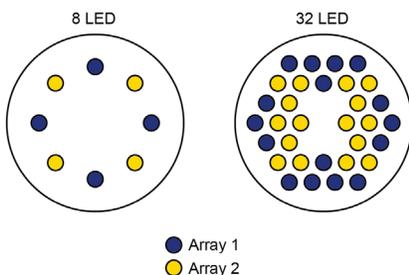
⁶ Titanium housing with flood or spot beam requires sapphire port.

⁷ Titanium housing with wide beam and acrylic port reduces lumen output by 50%.

⁸ Nominal values are measured with MCBHMP connector and aluminum housing.

⁹ Ensure that ampacity ratings for interconnect system are suitable for your operating conditions. See Manual for more information.

Multiray LSL-2025 LED Array Layout



Operating Modes

Operating Mode	Channel 1	Channel 2
Array 1	ON	OFF
Array 2	OFF	ON
Combined	ON	ON

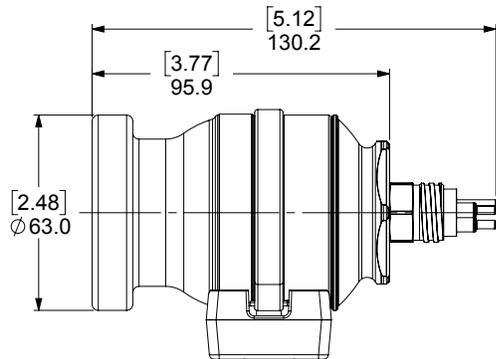
The arrays operate separately or combined through a driver channel. The combined operating mode is available in configurations where array forward voltages match.

The Multiray LED SeaLite is available with 8 or 32 LEDs in the light engine. The light engine is divided into two arrays of LEDs each of which occupies half of the available positions in a balanced layout.

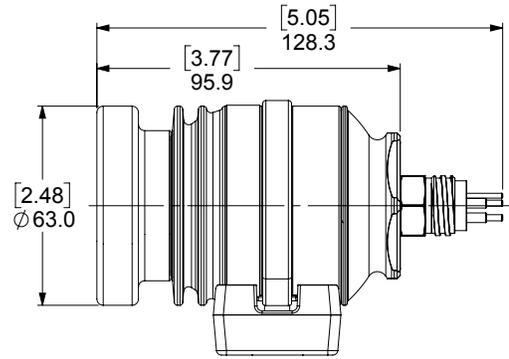
LSL-2025

Dimensions

Flood Beam Acrylic Port

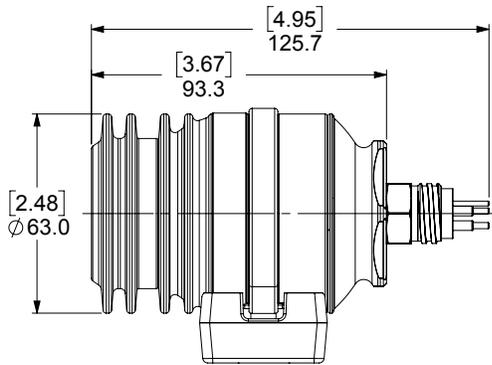


FLOOD/WIDE ACRYLIC ALUMINUM
mm [inch]



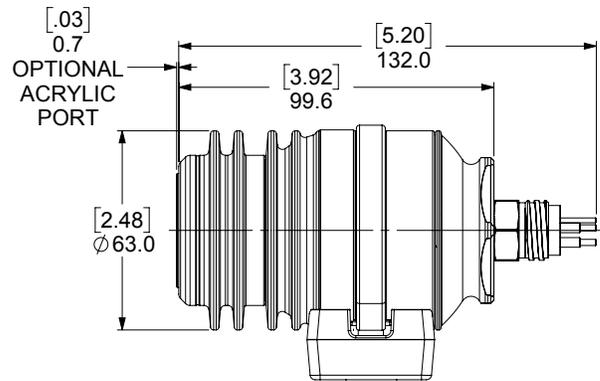
FLOOD/WIDE ACRYLIC TITANIUM
mm [inch]

Flood Beam Sapphire Port



FLOOD SAPPHIRE
mm [inch]

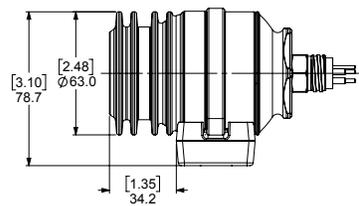
Spot Beam



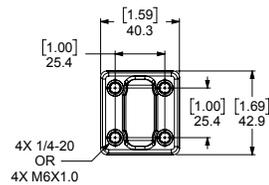
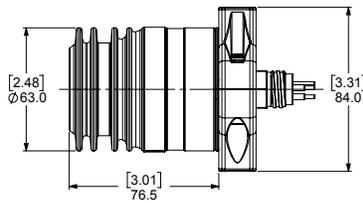
SPOT ACRYLIC/SAPPHIRE
mm [inch]

Bracket

SADDLE BRACKET

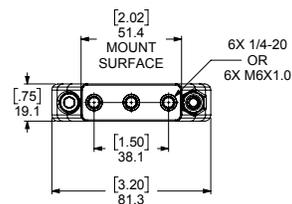


COLLAR BRACKET



4X 1/4-20
OR
4X M6X1.0

mm [inch]



2.02
51.4
MOUNT
SURFACE
6X 1/4-20
OR
6X M6X1.0