

SEAFIRE™ BRAVO Series

Marine & Industrial Lighting Specifications

30-70W



Features & Benefits

Marine Grade Construction

- SeaFire Marine LEDs were built to keep working even in the harshest of environments. They have built in protection against heat, humidity, salt water and dust as high and low pressure build up from rapid heat/cool cycles. (see below)

- The BRAVO series features a powder coated cast aluminum housing for excellent corrosion resistance and durability.

Heavy Duty Stainless Steel Hardware

- Oversized 1/4" thick 316 SS brackets and 316 SS hardware for strength and excellent corrosion resistance. Each bracket bolt pattern matches common quarts light patterns and for easy installation and retrofitting. (See back for details)

Waterproof Up To 30ft. (IP68)

- BRAVO series lights use heavy duty neoprene and silicon gasketing on all mating surfaces to completely protect the electrical comonents and diodes from dust, salt water, and high or low pressure zones. BRAVO series products are IP68 rated up to 30ft (10m).

Powerful And Efficient

- The BRAVO series uses powerful OSRAM™ LED arrays with an impressive 110:1 Lumen to Watt ratio. This allows for the BRAVO to provide an extreme 7700 lumens in a compact design while only using 70 Watts.

High Uniformity And Color Rendering

- BRAVO series lights are available in both 4000K (warm/yellow) and 6000K (cool/white) color temperatures for a variety of applications and preferences. The BRAVO is able to provide high uniformity and \geq Ra75 on the Color Rendering Index; ensuring vivid and accurate color.

Replaces Traditional Sodium, Metal Halide Lighting

- Using high efficiency LEDs the BRAVO is able to provide comparable output up to a traditional 200W Sodium or Metal Halide system at less than half the power; Saving you fuel improving your bottom line.

Instant Start And Flicker Free

- Unlike in traditional Metal Halide or Sodium lights, SeaFire LEDs don't have a heat up cycle or need a restrike after a voltage dip. The BRAVO turns on instantly and, due to it's low voltage and low power consumption, stay on even if the generator staggers.

Versatile Power With Built In Surge Protection

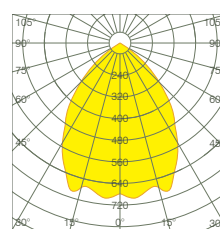
- BRAVO series lights are available in 80-400VDC or 80-315 VAC for installation in a variety of applications and electrical systems. (specify upon order)

General Specifications

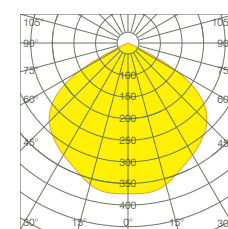
Series	BRAVO		
Power Consumption - W	30	50	70
Initial Lumen Flux - Lm	3300	5500	7700
Replace HID Lamp - W	50-100	100-150	150-200
Dimensions (W, H, D)	308 x 230 x 162 mm		
Net Weight	8.8 lbs		
Beam Angle	60° / 100°		
Color Temperature	4000 K (warm) / 6000 K (cool)		
Color Rendering	\geq Ra75		
Working Life	\geq 50000 Hrs		
Housing Material	Cast Aluminum		
Coating	Powder Coat		
Waterproofing	IP 68 (Up to 30ft)		
Working Temperature	-40 C ~ 60 C / -40 F ~ 140 F		
Working Humidity	10% ~ 95%		
AC Input	80 ~ 315 Vac		
DC Input	80 ~ 400 Vdc		
Power Factor	\geq 0.98		

Performance Graphs

● C0-C180 ● C90-C270



60° Lens
(Polar Graph)



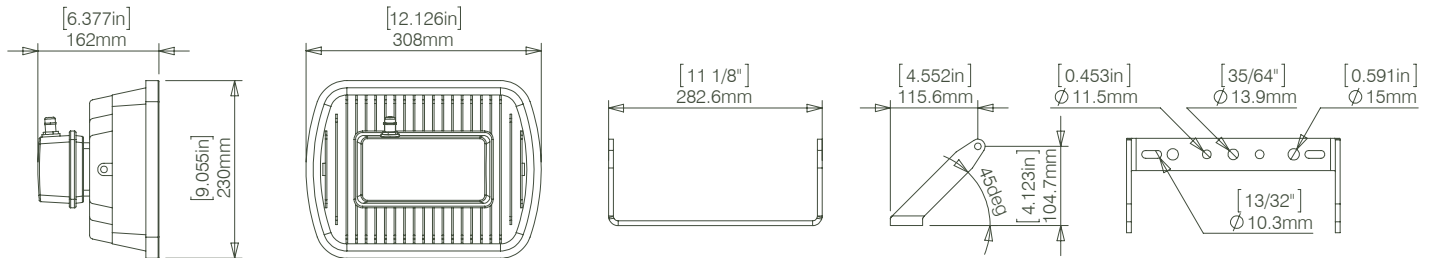
120° Lens
(Polar Graph)

Luminaire & Manufacturer's Certifications



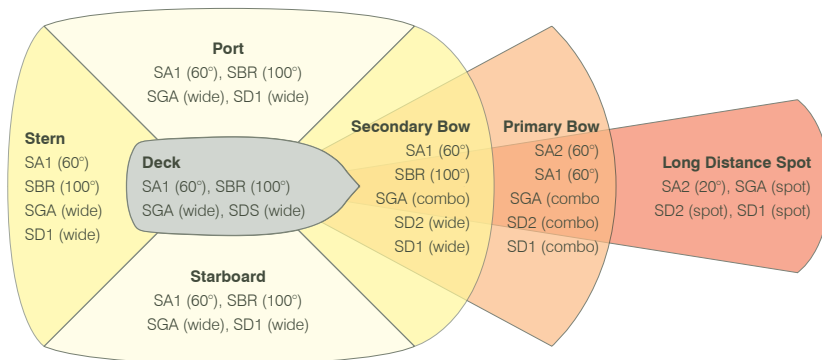
SEAFIRE
MARINE LED

Dimensions



Bracket bolt pattern matches common quartz light patterns for easy installation and retrofitting

Lighting Zones



Model (lens)	Lumens (lm)	Distance (m)
SA2 Alpha II (20°)	44,000 (400W)	620
SA2 Alpha II (60°)	48,000 (400W)	339
SA1 Alpha I (60°)	21,600 (180W)	228
SBR Bravo (100°)	7,700 (70W)	107
SGA Gamma (spot)	6450 (63W)	675
SGA Gamma (combo)	6450 (63W)	478
SGA Gamma (wide)	6450 (63W)	300
SD2 Delta II (spot)	4300 (42W)	372
SD2 Delta II (combo)	4300 (42W)	330
SD2 Delta II (wide)	4300 (42W)	252
SD1 Delta I (spot)	4300 (42W)	310
SD1 Delta I (combo)	4300 (42W)	275
SD1 Delta I (wide)	4300 (42W)	210

Beam Angle: The usable portion of the cone defined at the point where candlepower (intensity) falls to 50% of the candlepower at the center.

Spot: Focused beam for long range applications. Designed to be used in conjunction with other wider beam patterns.

Wide: Near field for cornering and side lighting applications. Even distribution great for foggy conditions. Designed to be used in conjunction with longer beam patterns.

Cruising / Combo: Maximum coverage, equipped with both wide and spot optics, providing you with a smooth blend of light for near field and distance applications.

Lumens and Distance values are the maximum rating at 0° (on center). Distance values are recorded when LUX falls to .25 (nearly invisible).

Actual brightness will vary at distance (see performance graphs for details)

Gamma lightbars come in 10° increments each producing 6450lm @ 63W, up to a maximum of 50° producing 32250 @ 315W.

Model Number Definitions

SBR-070 60 100

SeaFire Model / Series

SA1 | SeaFire ALPHA I
SA2 | SeaFire ALPHA II
SBR | SeaFire BRAVO
SD1 | SeaFire DELTA I
SD2 | SeaFire DELTA II
SGA | SeaFire GAMMA

Maximum Power Consumption

Measured in Watts

The total power used in order to produce desired lumens.

Color Temperature

Measured In Kelvin (x100)
40 | 4000K (yellow/warm)
50 | 5000K (white/natural)
60 | 6000K (white/cool)

The hue of color per the Kelvin Scale.

Beam Angle

Measured In Degrees

The useable portion of the cone defined at the point where candlepower falls to 50% of the candlepower at the center.