

SeeBrite™ Tri-LED Aquaculture Light

Reduce Costs, Increase Size and Profits

SeeBrite™ Tri-LED aquaculture lights are designed for best photo maturation control and growth and sea lice avoidance.

Promote Growth

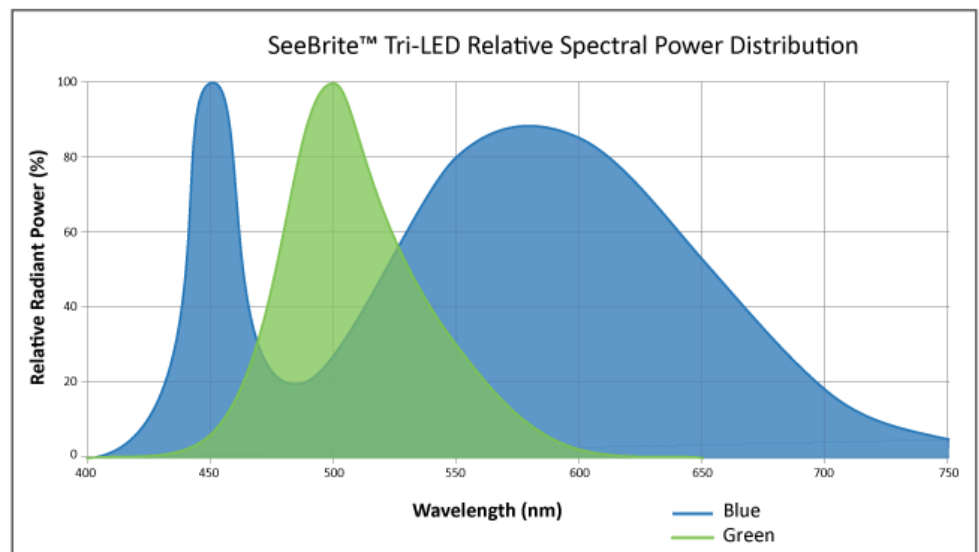
SeeBrite™ Tri-LED light fixtures use full spectrum LEDs with specific focus on blue and green wavelengths for optimum radiant light distance in the water column, along with white light to provide a full spectrum of 425-750 nm to maximize light distribution. With a managed photoperiod schedule SeeBrite™ Tri-LED will suppress maturation and promote growth.

Brightness Control for Happy Fish

All SeeBrite™ LED light fixtures offer gradual ramp up to full brightness as required to avoid shocking fish. Happy fish have strong appetite and can ward off disease resulting in optimum growth. For those that demand more light control, such as RAS or hatchery applications, IAS offers customizable ramp up times and when connected to SeeBrite™ L100 Light Controller additional brightness control to optimize light intensity for specific farm requirements.

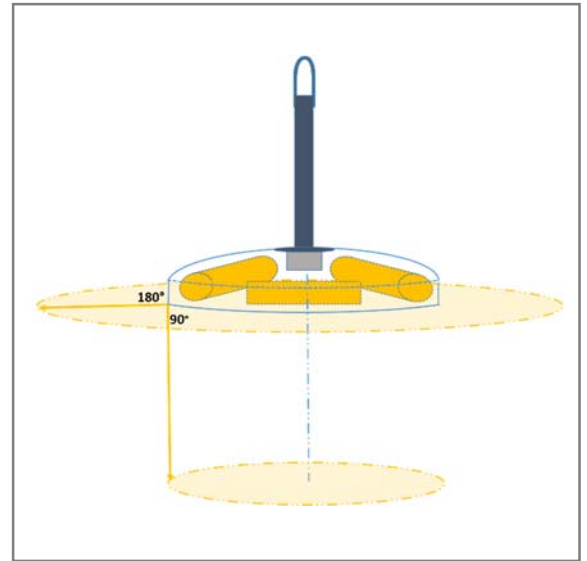
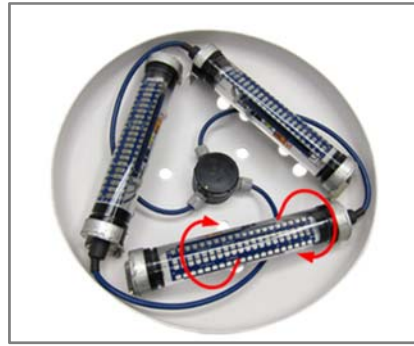
Downward Illumination for Sea Lice Avoidance

SeeBrite™ Tri-LED underwater light fixtures are specifically configured to radiate all submerged light energy in a downward direction to attract and maintain caged fish at depth providing a non-chemical approach to support sea lice mitigation. The Tri-LED provides a distinct cut-off band of light with no light scatter above the fixture.



Adjustable Beam Angle

Designed to provide a simple means of setting light coverage by independently rotating each of three SeeBrite™ LED light housings within the fixture. Adjust any one, or all of the light housings to create a narrow focus or wide dispersed zone of downward facing light.



Customizable Spectral Output & Intensity

SeeBrite™ LED lights are customizable for a range of light color spectrums for specific farm requirements to address water turbidity and light scatter.

Extreme Environment Housing

SeeBrite™ lights are manufactured with a Lexan® shatterproof housing incorporating a molecularly bonded anti-scratch coating to address maximum safe environment operation, and meets all UL and CSA standards and CE compliance. Built entirely of non-conductive components, farm wiring irregularities will not result in Seebrite™ light fixtures becoming sacrificial anodes.

Product Versatility

SeeBrite™ microprocessor can be programmed to strobe or random flash for deterrence or avoidance in certain applications.

Save Energy Costs

SeeBrite LED lights incorporate LEDs to ensure best efficacy levels, the conversion of energy to light output.

Specifications

Voltage	110 – 240 Vac +/- 10%, 50-60 Hz
Power	120V 324W equivalent to 540W metal halide ¹ 230V 483W equivalent to 800W metal halide ¹
Current	120V 2.7amps, 240V 2.1 amps
Power Factor	0.96 ²
Luminaire Efficacy (Lm/Watt)	120V: white & blue 93.9, green 67 230V: white & blue 105, green 75
Spectral Distribution	Blue 425-485nm, Green 485-550nm White 400 – 750 nm (with focus at 425-550 nm)
Dimensions	Diameter 66 cm, Height 16 cm
Cable	Type: Polyurethane Conductors: 3 x 16 ga 1 x twisted pair – shielded Type I / II fire rated Standard length: 30 m Optional length: 3 – 50 m
Weight	12.7 kg without cable 18.14 kg with 30 m cable
Materials	Lexan®, Acetal®, thermal plastic, stainless steel, aluminum
Certifications	UL & CSA , CE compliant
IP 68	Continuous underwater submersion

¹Equivalent to 84000 lumens when scaled to 800W.

²Ideal power factor is 1.0. Essential benchmark when evaluating light fixtures. 0.95 and higher is excellent, any value below 0.95 indicates hidden extra energy costs without benefit. Specifications subject to change.

We Are Your Solution
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