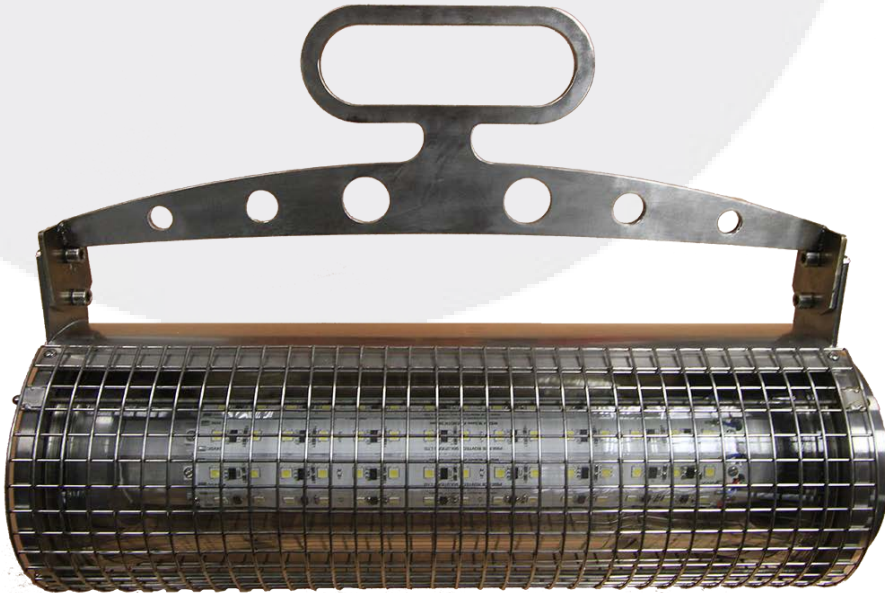




Seabeam LED Pond Light v2



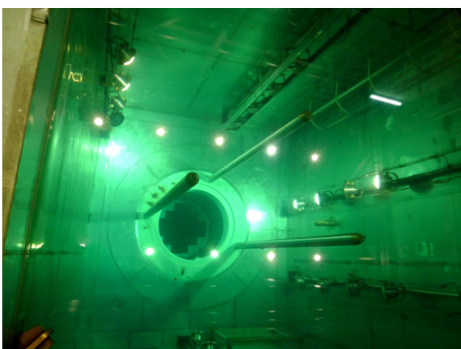
Seabeam LED Pond Light v2

Rovtech Solutions developed the LED Pond Light in response to customer demands for a high brightness, low voltage under water lamp with a long 'lifetime' and low running costs. Used within the Nuclear Industry, it is slowly replacing original Halogen Lamps supplied to illuminate the ponds.

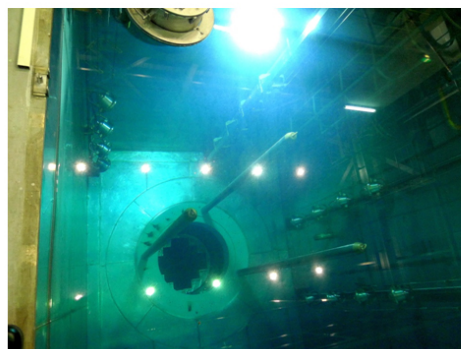
This second version of the LED Pond Light gives further improvements to the lamp. The latest High Power LED's cuts down the amount of clusters on each strip. The LED is cooled by the surrounding water; generating less heat provides a further extension of its usable life with greater light output.

During extensive underwater trials we found that the LED Light performs much better in bad visibility than the standard quartz halogen light. The wavelength emitted by the LED Light is standard and does not excite a lot of the organic and inorganic items in the water, thereby reducing backscatter substantially. The cool white colour also helps to cut through the water giving a more natural hue.

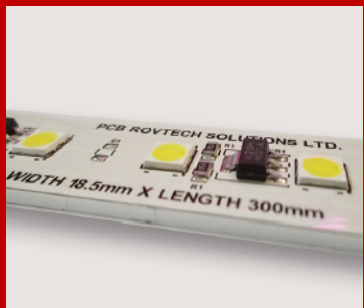
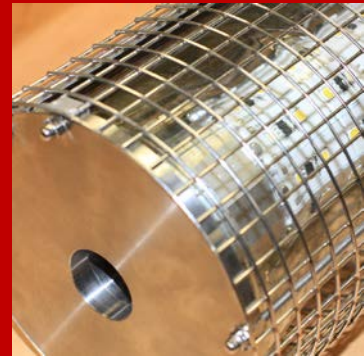
Testing by KEPCO Nuclear Training Center, Japan



Existing Halogen Lights



RSL LED Pondlight



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Specification

Material:

Reflector:	316 Stainless Steel
Glass:	Fused Silica
Cable:	Flexible
Seals:	Nitrile
Wall Slider (Optional):	Acetyl

Mechanical

Pressure:	50m
Shocks:	Toughened Glass Envelope protected by Stainless Steel Wire Guard
Weight	19Kg

Electrical

Lamp Type:	Multi LED
Watts:	240w (24vDC), 290W (110Vac)
Operating Voltage:	From 90v to 240v (50Hz to 60Hz)
Amperage:	2.6A (110ac)
Initial Lumens:	22000 @ 1m
Average Life:	30,000hrs to 70% of original output

Photometry

Horizontal Aperture	120 Degrees
Vertical Aperture:	120 Degrees

Radiation

Tolerance:	1.2×10^6 Rad
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Comparison between Halogen and LED @4m in Low Visibility Water



Halogen



LED