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The following information is a comparison between the Aqualuma Led light and a competitor's halogen light

All measurements were taken using a LUX meter and all were taken at the same distances and in the same ambient light conditions.
Even though the results show that the AQUALUMA light outperforms the halogen There are other factors to be considered when light is being used in the water.
The colour temperature of light greatly affects its ability to penetrate the water.

The AQUALUMA WHITE
In white light the higher the light temperature measured on the Kelvin scale the further it will travel through the water. You can clearly see that the white light produced by the AQUALUMA (5500K) is a clean bright white as opposed to the yellow appearance of the halogen (3200K Also note the current draw of point .44 of an amp @12 volts
) and as such will penetrate the water far better.

The "yellow" light of the 50 watt halogen note current draw of 4.1 amps @ 12 volts.
You can run 9 AQUALUMA lights with that power drain!!

THE LUX MEASUREMENTS

This demonstrates how the how the measurements were taken. Note the tape for consistent distance of meter from lights

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The AQUALUMA WHITE LIGHT

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The AQUALUMA BLUE LIGHT

The 50watt HALOGEN

Some colour temperature information

The wavelength of light that transmits through water with the least attenuation is between 450 and 550 nm, it is by no accident that the light produced by the AQUALUMA BLUE is 460-495nm and the AQUALUMA GREEN is 495-510nm.
Light attenuation is the decrease in light intensity with depth in the water column due to absorption by water molecules.
The wavelength of least attenuation, as determined by the US NAVY is 460nm.

An example of this is sunlight entering the ocean waters the red wavelengths are all absorbed by the 10 metre mark the blue wavelength's are visible down to 100 metre's..

Add to this information the facts of

1. VERY LOW HEAT EMISSON
2. NO LENS SEAL TO LEAK
3. CAN BE OPERATED OUT OF WATER- RUN WITH THEM ON
4. LONG LIFE HIGH OUTPUT LED LIGHT ENGINE
5. HIGH IMPACT RESITANT POLYCARBONATE HOUSING
6. NO BONDING TO ANODES REQUIRED (HOUSING CANNOT CORRODE)
7. 12 OR 24 VOLT DC POWER SOURCE
8. SERVICEABLE FROM INSIDE THE BOAT
9. AVAILABLE IN WHITE, BLUE OR GREEN
10. AUSTRALIAN DESIGNED AND MANUFACTURED
11. EASY INSTALL = LOW INSTALLATION COST
12. 2 YEAR WARRANTY

All of the above is great technical information but seeing is believing .. Install a set and join the hundreds of manufacturers and owners around the world that have installed or UPGRADED to AQUALUMA and make the comment of
“WOW HOW GOOD ARE THESE”

IF YOU WANT TO LIGHT UP THE OCEAN AND BE SEEN BY THE FISH YOU NEED TO BE RUNNING WITH “AQUALUMA”