

# Led lighting for aquarium with your own hands

BioNotes Biology and journey On the home uncategorized Led lighting for aquarium with your own hands Quite often, before the question arises aquarists aquarium lighting, especially if it is homemade or if you keep plants which is clearly not enough regular lighting. It is not always clear what type of what capacity is and what the temperature of the glow lamp to choose. In this article I will describe my implementation and calculation led aquarium lighting with his own hands and will also share additional information which I came across on this issue. Actually my vivariums. The bottom of the aquarium 120 gallons with live plants gastromyzon glass fish Tetra koridorai and African dwarf frogs on top of another 3 of the same volume under the terrarium. As you can see the locations for placement of aquarium lighting is frankly not enough. Initially in the design of aquarium as the lighting was put 2 fluorescent lamp-tube power 8 watts each. Visually it seemed that the aquarium is illuminated enough. But after a time plants began to protest by all available means. It was decided to change the lighting to a more powerful. I decided to put the increasingly popular led strip. The most important reason to make the led illuminated aquarium in my case was the extreme compactness of this lighting. As additional advantages of led aquarium lighting, energy saving long lifetime and operation of LEDs from low voltage water around well you never know. A few words about the spectra of emission and absorption. Plants are interested in the visible part of the spectrum. Light trap plants use chlorophyll which absorbs light from the blue and red part of the spectrum. Green plants reflect light and so we see green. So visible to the human eye white light contains all the plants need in the spectrum of blue and red and even more unused plants is the green part of the spectrum. Therefore, any source of white light perfect for lighting a standard aquarium. We just need to properly calculate how much light is needed in your case. Calculation of aquarium lighting by LEDs is different from the calculation of lighting other light sources. In most of the sources found in the notorious formula 05 08 Watts per liter. In principle, the scheme is working but for different light sources can be large errors for example, on my 120 liters really need 43 watts led strip if I thought the Watts would come out a completely different number. I recommend to consider the needs of the aquarium lighting in the suites. Lux the unit of illumination is essentially

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