



**NBB Bohemia s.r.o.**

Výroba a prodej osvětlovací techniky, Sídliště 693, 407 22 Benešov nad Ploučnicí

## Product Data Sheet

Kompaktní zářivka AQUA

**PL-S 11W Aquarium  
50/50 (Actinic 03/PG  
Red) G23**

Order number

**221017000**

Unit EAN13 code

**8595209920935**



### General information

Model/Description	<b>Kompaktní zářivka</b>
Finish	<b>Single</b>
Brand/Manufacturer	<b>NBB</b>
Nominal service life (h)	<b>10000 h</b>
Colour	<b>Ostatní</b>
Socket	<b>G23 (2-pins)</b>
Dimmable	<b>Ne</b>
Amalgam technology	<b>Ne</b>
Nominal voltage (V)	<b>91 V</b>
Dimmable by conventional dimmers	<b>Ne</b>
Název položky	<b>LD 11W/ACTINIC 03 + AQ. COLOUR G23</b>

### Electrical characteristics

Nominal wattage	<b>11 W</b>
Rated power (W)	<b>11,0 W</b>
Operating voltage (V)	<b>91 V</b>
Type of Voltage	<b>AC</b>
Direct connection to the mains	<b>Ne</b>
Lamp power	<b>11 W</b>
Nominal current (A)	<b>0,12 A</b>

### Working conditions

Operating frequency	<b>50 - 60 Hz</b>
Burning position	<b>Libovolná</b>
Suitable for domestic use.	<b>Ne</b>

Application	<b>Pro mořská akvária</b>
Integrated starter	<b>Ano</b>
Suitable for electronic ballast	<b>Ano</b>
Ambient temperature	<b>25 °C</b>
Number of lighting tubes	<b>1</b>
Special application	<b>Mořská akvária</b>

#### Physical characteristics

Dimensions (mm)	<b>30 x 18 x 238 mm</b>
Packing method	<b>50 - 1</b>
Weight gross	<b>70 g</b>
Weight netto	<b>50 g</b>
Total length	<b>238 mm</b>
Diameter	<b>30 mm</b>

#### EuP Parameters

Average Lifetime B50 (h)	<b>10000 h</b>
Luminescence Life maintenance factor	<b>70,0 %</b>
Number of maximal switching cycles	<b>&gt;20.000</b>
The rate of premature failures	<b>&lt;1 %</b>
Rated service life	<b>10000 h</b>
Energy consumption (AGGR)	<b>15 kWh/1000h</b>

#### Lighting characteristics

Type of spectrum	<b>Kombinované</b>
Light Colour	<b>Actinic 03 + OC. colour</b>
Dominant wavelength	<b>435 nm</b>
Chromaticity coordinates x	<b>0,199</b>
Chromaticity coordinates y	<b>0,200</b>

#### Radiation in the UV range

UVA radiation	<b>0,494 µW/cm2 mW/klm</b>
UVB radiation	<b>0,000 µW/cm2 mW/klm</b>
UVC radiation	<b>0,001 µW/cm2 mW/klm</b>
UVC radiation	<b>0,000 µW/cm2 mW/klm</b>

#### Safety information

Safety instructions	<b><a href="http://www.nbb.cz">www.nbb.cz</a></b>
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#### Environmental characteristics

Mercury content	<b>3,5 mg</b>
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#### Energetic characteristics

Lamp Power factor (PF)	<b>0,837</b>
Rated efficiency after 100h	<b>99,99 %</b>

### Lamp survival factor (LSF)

LSF after 2.000 hrs	98,2 %
LSF after 4.000 hrs	96,3 %
LSF after 6.000 hrs	87,0 %
LSF after 8.000 hrs	50,0 %
LSF after 10.000 hrs	50,0 %

### Lamp lumen maintenance factor (LLMF)

LLMF after 2.000 hrs	85,0 %
LLMF after 4.000 hrs	78,0 %
LLMF after 6.000 hrs	75,0 %
LLMF after 8.000 hrs	73,0 %
LLMF after 10.000 hrs	70,0 %

### Exclusion of liability

Changes to data are subject to prior notice. NBB Bohemia s.r.o. accepts no responsibility for damages caused by inaccurate interpretation of the content on this site.

### Safety instructions

When replacing a fluorescent tube, first disconnect the luminaire from the electrical current supply. First remove the fluorescent lamp from the fixture and then install a new one. Take care to ensure that the product is not broken. Install the new fluorescent lamp by gently inserting it and turning it into the sides of the luminaire to any side. Only use the product in the luminaires designed for this type of light source. The manufacturer can not be held responsible for damages resulting from inappropriate connection, connection to an unsuitable distribution system, or damage resulting from the use of an unsuitable light source. Observe the operating values on the product. Do not expose the product to inappropriate weathering or high temperatures unless it is expressly stated that the product is intended to be operated under these conditions. When installing, wiring or disassembling, follow the generally accepted safety precautions. After installing a new fluorescent lamp, close the enclosure with original covers - to prevent possible electric shock. Only then connect the luminaire to the electrical circuit.

### Popis

Compact fluorescent lamps for lighting of aquarium plants and animals. Colours combined.

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