



**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 Colormax (PG Red) G23



Order number

**221012000**

Unit EAN13 code

**8595209908810**

### 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>
Energy efficiency class (canceled regulation!)	<b>B</b>
Amalgam technology	<b>Ne</b>
Dimmable by conventional dimmers	<b>Ne</b>
Název položky	<b>LD 11W/AQUARIUM COLOUR G23</b>

### Electrical characteristics

Nominal wattage	<b>11 W</b>
Rated power (W)	<b>10,8 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>
Ignitor	<b>SINGLE Glow starter</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.	Ne
Application	Pro akvarijní rostliny
Integrated starter	Ano
Suitable for electronic ballast	Ano
Ambient temperature	25 - 35 °C
Number of lighting tubes	2
Special application	Sladkovodní akvária

#### Physical characteristics

Dimensions (mm)	30 x 18 x 238 mm
Packing method	50 - 1
Weight gross	70 g
Weight netto	50 g
Total lenght	238 mm
Diameter	18 mm

#### EuP Parameters

Average Lifetime B50 (h)	10000 h
Luminescence Life maintenance factor	70,0 %
The rate of premature failures	< 1 %
Rated service life	10000 h
Energy consumption (AGGR)	14,36 kWh/1000h

#### Lighting characteristics

Type of spectrum	červeno-modré
Color rendering	2A
Light Colour	PLANT RED
Wavelength range	380 - 780 nm
Dominant wavelength	435 nm
Luminous flux	250 lm
Colour rendering index CRI	50 Ra
Chromaticity coordinates x	0,294
Chromaticity coordinates y	0,243

#### Radiation in the UV range

UVA radiation	0,693 μW/cm2 mW/klm
UVC radiation	0,000 μW/cm2 mW/klm
UVC radiation	0,000 μW/cm2 mW/klm

#### Safety information

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

Mercury content	3,50 mg
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#### Energetic characteristics

Lamp Power factor (PF)	0,839
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Rated efficiency after 100h	<b>99,99 %</b>
Lamp efficacy	<b>22,97 lm/W</b>

#### Lamp survival factor (LSF)

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

#### Lamp lumen maintenance factor (LLMF)

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

#### Exclusion of liability

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#### 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.

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