



**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 20000K White G23



Order number

**221014000**

Unit EAN13 code

**8595209920904**

#### 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>Ano</b>
Dimmable by conventional dimmers	<b>Ne</b>
Název položky	<b>LD 11W/20K Oceanic natural daylight 20K 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>
Lamp operating current	<b>0,15 A</b>
Direct connection to the mains	<b>Ne</b>
Lamp power	<b>11 W</b>
Ignitor	<b>SINGLE Glow starter</b>

#### Working conditions

Operating frequency	<b>50 - 60 Hz</b>
Burning position	<b>Libovolná</b>

Suitable for domestic use.	Ano
Application	Pro mořská a sladkovodní akvária
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	50,0 %
Number of maximal switching cycles	> 20.000 warm start
The rate of premature failures	<1 %
Rated service life	10000 h
Energy consumption (AGGR)	13,81 kWh/1000h

#### Lighting characteristics

Type of spectrum	Třípásmové
Color rendering	1B
Light Colour	natural daylight
Wavelength range	380 - 780 nm
Dominant wavelength	545 nm
Luminous flux	520 lm
Colour temperature	20000 K
Colour rendering index CRI	81 Ra
Colour of light acc. EN 12464-1	Cool >5300 K
Chromaticity coordinates x	0,268
Chromaticity coordinates y	0,277

#### Radiation in the UV range

UVA radiation	0,085 µW/cm2 mW/klm
UVB radiation	0,000 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	1,4 mg
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### Energetic characteristics

Lamp Power factor (PF)	0,843
Rated efficiency after 100h	99,99 %
Lamp efficacy	47,27 lm/W

### Lamp survival factor (LSF)

LSF after 2.000 hrs	98,2 %
LSF after 4.000 hrs	96,3 %
LSF after 6.000 hrs	91,3 %
LSF after 8.000 hrs	87,0 %
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.

Color temperature 20,000 K.

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