



## Product Data Sheet

LED reflektor IP65

**ORION LED 230-240V  
20W 4200K IP65 black**

 Order number  
**253202110**

 Unit EAN13 code  
**8595209944924**


### General information

Model/Description	<b>LED reflektor</b>
Finish	<b>Průmyslový</b>
Brand/Manufacturer	<b>NBB</b>
Material	<b>Aluminium</b>
Nominal service life (h)	<b>30000 h</b>
Degree of protection (IP)	<b>IP65</b>
Dimmable	<b>Ano</b>
With light sensor	<b>Ne</b>
Suitable for suspended mounting	<b>Ne</b>
Lamp type	<b>LED</b>
Nominal voltage (V)	<b>230 - 240 V</b>
Degree of protection (IP)	<b>IP65</b>
Suitable for number of lamps	<b>1</b>
Suitable for wall mounting	<b>Ano</b>
Control gear included	<b>Ano</b>
Suitable for traverse mounting	<b>Ano</b>
Suitable for pedestal/floor mounting	<b>Ano</b>
Suitable for light-track mounting	<b>Ne</b>
Suitable for clamp-mounting	<b>Ne</b>
Suitable for ceiling mounting	<b>Ano</b>
Dimmable by conventional dimmers	<b>Ne</b>
Název položky	<b>ORION LED 230-240V 20W 4200K IP65 black</b>

### Electrical characteristics

Nominal wattage	<b>20,0 W</b>
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Rated power (W)	21,55 W
Operating voltage (V)	110 - 240 V
Type of Voltage	AC
Lowest permitted operating voltage (V)	110 V
Voltage type	AC
Nominal current (A)	0,130 A
System power	20 W

### Working conditions

Average lifetime of the ballast (h)	30000 h
Integrated driver	Ano
Light source is part of the fixture	Ano
Working temperature of the ballast body -Tc max	95 °C
Type of cooler	Aluminium
Installation height (m)	2 - 3 m
Application	Všeobecné osvětlování
Suitable for through-wiring	Ne
With movement sensor	Ne
Type of control gear	Elektronický nestmívatelný
Suitable for frequent switching	Ano
Ambient temperature	-30/+45 °C
Fire resistance "D"	Ano
Type of dimming	Nestmívatelné

### Mounting methods/application

Mounting method	Přisazená
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### Physical characteristics

Numbers of ballasts	1
Number of couplings	1
Type of chip	SMD2835
Dimensions (mm)	198 x 157 x 60 mm
Packing method	1 - 4
Weight gross	1240 g
Width	157 mm
Reflector	Matný
Colour housing	Černá
Weight netto	1125 g
Length	198 mm
Height/depth (mm)	60 mm
Material housing	Aluminium
Impact strength	IK10
Type of surface	Matný
Number of LEDs	40
Adjustability	Vertikálně

### EuP Parameters

Average Lifetime B50 (h)	30000 h
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Luminescence Life maintenance factor	70,0 %
Factor of functional reliability (LSF) after nom. life	50,0 %
Number of maximal switching cycles	>50000
The rate of premature failures	0,01 %
Colour difference	0,9 %
Rated service life	30000 h
Energy consumption (AGGR)	22,0 kWh/1000h
Turn-on time	<0,3 s

#### Additional information

With lamp	Ano
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#### Lighting characteristics

Color rendering	2B
Light Colour	chladná bílá
Wavelength range	380 - 780 nm
Dominant wavelength	453 nm
Luminous flux	2200 lm
Colour temperature	4200 K
Colour rendering index CRI	85 Ra
Colour of light	840
Light sharing	Symetrické
Radiation angle	Široký úhel
Colour temperature	4000 - 4200 K
Effective luminous flux	2200 lm
Colour	Bílá
Beam angle Degrees (°)	120 °
Chromaticity coordinates x	0,360
Chromaticity coordinates y	0,320

#### Safety information

Safety instructions	<a href="http://www.nbb.cz">www.nbb.cz</a>
Protection class	Ochranným vodičem

#### Environmental characteristics

Mercury content	0,00 mg
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#### Energetic characteristics

Lamp Power factor (PF)	0,72
Rated efficiency after 100h	99,99 %
Lamp efficacy	110 lm/W

#### Exclusion of liability

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#### Notice

Under the scope of Act 185/2001 Coll. as amended, this product is included in waste group 5 (light sources and luminaires). In

view of the harmful effects of mercury on the environment and on human health, the creators of group 5 waste (consumers) are obliged to dispose of used light sources for recycling. Do not throw this product into mixed waste after use. Take it to the nearest store, collection yard, or other designated location for free recycling. You can also dispose of the used products for recycling in our sales outlets or in collection points of collective recycling systems or municipal collection yards. Ecological recycling of waste electrical and electronic equipment is ensured through the RETELA collective system ([www.retela.cz](http://www.retela.cz)).

#### **Notice (LVD)**

LED light sources ranks among electrotechnical products powered by mains 230-240V. For safety reasons, it is recommended that the assembly, connection or disassembly be carried out by a person with an appropriate electrotechnical qualification. When installing or disassembling, it is advisable to disconnect the power supply otherwise there may be a risk of electric shock. 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 damages resulting from mechanical damage to the 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.

#### **Notice**

Single LED chip failure, luminous flux deviation +/- 10% as well as chromaticity deviation +/- 150K are in compliance with applicable standards and are not a reason for complaint.

#### **Popis**

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