



## Product Data Sheet

Svítidlo Ø 400 mm SKLO + plech.montura

**KAROLINA LED 240V  
24W/840 OPÁL EM1h  
100% IP44**



Order number

**908070185**

Unit EAN13 code

**8595209935519**

### General information

Model/Description	<b>Glass Fixture</b>
Finish	<b>Přisazené/Wall mounted</b>
Brand/Manufacturer	<b>NBB</b>
Lamp type	<b>LED</b>
Nominal service life (h)	<b>25000 h</b>
Time of emergency operation	<b>1 h</b>
Degree of protection (IP)	<b>IP44</b>
Dimmable	<b>Ne</b>
Autonomy	<b>1 h</b>
Labelling type	<b>Trvalý</b>
Lamp type	<b>LED</b>
Type of luminaire	<b>Svítidlo s krytem</b>
Nominal voltage (V)	<b>230 - 240 V</b>
Degree of protection (IP)	<b>IP20</b>
Suitable for number of lamps	<b>1</b>
Suitable for wall mounting	<b>Ano</b>
Dimmable by conventional dimmers	<b>Ne</b>
Název položky	<b>KAROLINA LED 240V 24W/840 OPÁL EM1h 100% IP44</b>
Typ nouzového provozu	<b>Trvalý</b>

### Electrical characteristics

Nominal wattage	<b>24 W</b>
Operating voltage (V)	<b>200 - 240 V</b>
Voltage battery	<b>12 V</b>
Nominal current	<b>218 mA</b>

Lamp power	24 W
Circuit	Paralelně-kompenzační
Power	24 W
Voltage type	AC
Frequency	50 - 60 Hz
Nominal current (A)	0,11 A
Total power (W) (light fitting)	24 W

### Working conditions

Brand of the light source	ELT
Charging time	24 h
Operating frequency	50 - 60 Hz
Dimmable range	%
Battery type	NiCD
charging control	Ano
Battery capacity	mAh
Light source is part of the fixture	Ano
Maximum permitted storage temperature	80 °C
Burning position	Libovolná
Installation height (m)	2 - 4 m
Application	Všeobecné osvětlování
Suitable for through-wiring	Ano
Type of control gear	Elektronický nestmívatelný
Ambient temperature	-20/+40 °C
Suitable for emergency lighting	Ano
Fire resistance "F"	Ano
Fit for monitor workplace	Ano
Driver included	Ano

### Physical characteristics

Dimensions (mm)	Ø400 x 125 mm
Packing method	1
Outer diameter	400 mm
Reflector	Bílý
Colour housing	Bílá
Weight netto	1600 g
Height/depth (mm)	130 mm
Material housing	Ocelový plech
Colour cover	Bílá
Material cover	Opálové sklo
Impact strength	IK05
Number of LEDs	

### EuP Parameters

Average lifetime of the light source (h)	25000 h
Luminescence Life maintenance factor	80 %
Factor of functional reliability (LSF) after nom. life	50 %

The rate of premature failures	>1 %
Colour difference	%
The light source is designed for outdoor and industrial use	
Rated service life	25000 h
Energy consumption (AGGR)	27,50 kWh/1000h
Equivalent linear fluorescent	30 W
GLS replacement	139 W

#### Additional information

With lamp	Ano
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#### Lighting characteristics

Color rendering	1B
Light Colour	chladná bílá
Wavelength range	410 - 760 nm
Dominant wavelength	595 nm
Luminous flux	2354 lm
Colour temperature	4000 K
Colour rendering index CRI	83 Ra
Colour of light	840
Anti-glare limiting UGR lengthwise	20
Anti-glare limiting UGR crosswise	20
Direct-/indirect proportion separately controllable	Ano
Light outlet	Přímé
Light sharing	Symetrické
Colour temperature	3800 - 4200 K
Effective luminous flux	2354 lm
Chromaticity coordinates x	0,386
Chromaticity coordinates y	0,378

#### Safety information

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

#### Energetic characteristics

Lamp Power factor (PF)	>0,95
Lamp efficacy	98,08 lm/W

#### 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.

#### 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.

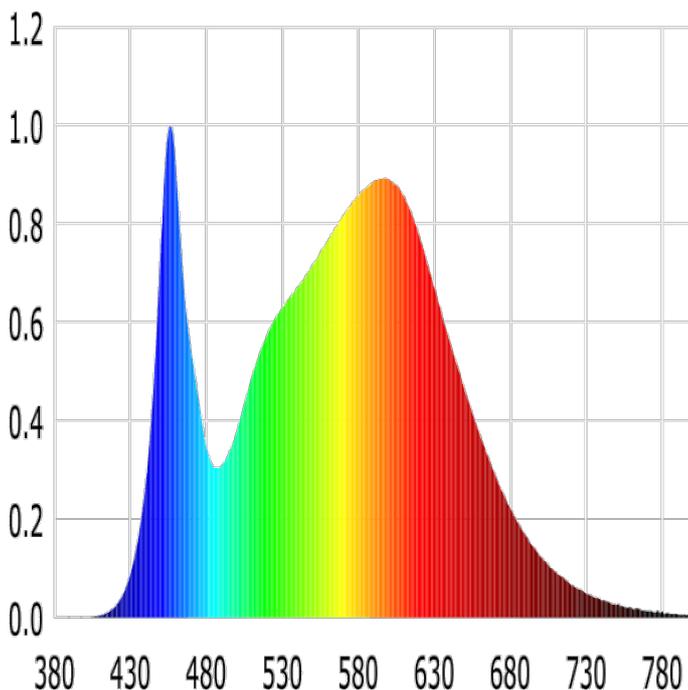
## If the luminaire contains batteries

If the luminaire contains rechargeable rechargeable batteries for emergency operation, we provide a 6 months warranty for these batteries from the date of commissioning. This warranty period is valid for both B2C and B2B customers.

## Popis

LED luminaire with glass opal diffuser Ø 380 mm. Equipped with a unique emergency pack, which ensures 100% light output for lamps during a power outage. The fixture has a metal base for mounting on a wall or ceiling. IP44 rating, suitable for use in households, hallways, waiting rooms etc. The color temperature of 4000K (coolwhite). Effective luminous flux of 2350 lm.

## Technical drawing



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