

# Operating Manual

## LED DOWNLIGHT

Model number: NNxx-DBFx-IBN350x



English	Italiano
Deutsch	Polski
Français	Nederlands
Español	Svenska

Thank you for choosing Scandinavian home products.

**If you have any questions, please contact our customer service, we are happy to help: [contact@home-scandinavian.de](mailto:contact@home-scandinavian.de)**

Please read the following information carefully before installation. Keep the instructions for future reference.

### Intended use

The luminaires are intended exclusively for operation on mains voltage (220-240 V AC, 50-60 Hz). Connection material such as junction boxes and connection terminals are not included.

Operate the luminaires indoors only and avoid the influence of high humidity, dust, vibrations - for more information, refer to the section 'Installation in the bathroom'. Avoid also exposure to heat or cold (greater than 50°C or less than -20°C). During operation, an ambient temperature of 40°C should not be exceeded.

The luminaires are intended exclusively for mounting in ceilings. The luminaires are not dimmable.

The light source or the LED in the luminaires are not replaceable by the end user.

Any use other than that described in this manual may result in personal injury, property damage or damage to the luminaires.

### Installation in the bathroom

Installation regulations vary by region. Please contact your local electricity authority and make yourself familiar with the local regulations in your region.

The luminaires are classified as IP20.

Luminaires must be installed by a qualified electrician, who should know what is permissible.

### Safety instructions and disclaimer

No liability is accepted for damage caused by improper use or non-observance of these instructions. In this case, there is also no claim for warranty.

Connection to mains voltage must be carried out by a qualified electrician.

The applicable accident prevention regulations must be complied with.

The basic rules are to be observed:

- Disconnect the circuit (switch off the circuit breaker and secure it against accidental reconnection, e.g. by placing a strip of adhesive tape over the circuit breaker)
- Determine the absence of voltage at all connections (using a suitable measuring device, check it for correct function beforehand)
- Grounding and short-circuiting
- Cover adjacent parts that are under voltage

Check the luminaires and connecting wire for possible damage before installation.

Never connect the luminaire immediately if it has previously been moved from a cold to a warm room. The resulting condensation can possibly destroy the luminaire. Allow the luminaire to come to room temperature before connecting it. This may take several hours.

The insulation of the luminaires corresponds to protection class II. Devices of protection class II must not be connected to the grounding conductor.

Store the luminaires only in a dry place. Even after installation, the luminaires must not get wet under any circumstances. Otherwise there is a risk of electric shock.

The luminaires must never be operated in environments with flammable gasses, vapours or dusts. There is a risk of fire and explosion.

During operation, the light source may heat up strongly and should therefore not be touched.

Do not open the luminaires, they do not contain any user-serviceable parts. Opening the luminaires poses a risk of electric shock.

If a luminaire should be defective, please contact our customer service. We will be happy to help.

Never look directly into the switched-on luminaires. The high light intensity may cause eye damage.

In commercial facilities, the accident prevention regulations must be complied with.

### Assembly

#### ATTENTION

Observe the safety instructions and the instructions for proper use!

The minimum distance between the luminaires and all other materials (ceiling structure, insulating material, steam barrier foil) must not be less than 20 mm, otherwise there is a risk of overheating and fire.

The luminaires are not dimmable and must not be operated with a dimmer, otherwise luminaires and dimmers can be damaged.

1. The ceiling cut-out should be 60 mm to 70 mm (ideally 65 mm) (luminaire outer diameter is 75 mm).
2. The blue connecting wire should be connected to the neutral conductor (N).
3. The brown connecting wire should be connected to the line conductor (L).

## ATTENTION

During installation, the connecting wires must not be damaged under any circumstances. Check this before you start up the unit.

Connection terminals (e.g. Wago 221-413) are to be accommodated in an additional connection box with IP20 or higher, which must be equipped with strain relief for the connecting wire.

4. Lift the springs to the back and insert the luminaire into the ceiling cut-out. Push the luminaire further into the ceiling cut-out until it is even with the ceiling. Caution! The retaining springs can suddenly flip over and pull the luminaire against the ceiling. Therefore, do not grasp between the luminaire and the ceiling when inserting it. Danger of trapping!

5. Check that the luminaire is firmly fixed.

When using Wago clamps 221-413, two clamps are required for the connection of one luminaire. These clamps have the advantage that they are suitable for the flexible connecting wire of the luminaire and for rigid copper wire (cross-section 0.2 - 4 mm<sup>2</sup>, strip 11 mm). The third connector can be used to connect another luminaire if necessary.

## Cleaning and maintenance

### ATTENTION

Before starting work, disconnect the luminaires from power (switch off the circuit breaker) and allow them to cool down.

Clean the surface only with a soft dry or damp cloth.

Do not use solvents or abrasive cleaners.

## Disposal notice

Do not dispose of the luminaires in household waste.



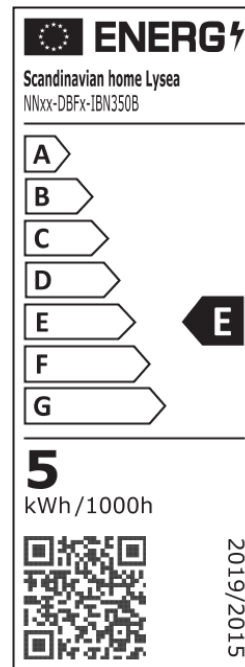
Electronic equipment must be disposed of in accordance with local environmental regulations for waste disposal via the local collection points for electrical equipment.

## CE mark

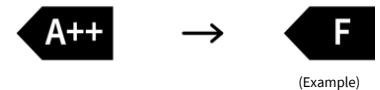
By applying the CE mark, the manufacturer confirms compliance with all requirements of the applicable directives. The CE mark is intended exclusively for the authorities and does not guarantee any performance characteristics.

## Technical specifications

Dimmable	No
Pivoting	No
Wattage	4,5 W
Voltage	230 V~ 50 Hz
Colour Temperature	3000 K
Luminous Flux (360° Sphere)	500 lm
Luminous Flux (90° Cone)	n.a.
Colour Rendering Index	CRI ≥ 90
Beam Angle	110°
Lifespan	25000 h
Outer Diameter	75 mm
Hole Diameter	60 - 70 mm
Installation Depth	26 mm
Ambient Temperature	max. ta = 40 °C
Distance to Insulation	min. 20 mm
Ingress Protection	IP20
Protection Class	II
Material	Die-Cast Zinc



## Note on the new EU energy label



The new EU energy label applies from September 1, 2021. The previous plus classes have been abolished and changed to a classification from A-G. In addition, the measurement and evaluation procedure has been changed to make the label future-proof and future technologies comparable.

It may happen, for example, that a product that achieved class A++ according to the old energy label is now only classified as F. However, the product is still energy efficient since only the evaluation procedure has changed and not the product itself.

To compare reliably between the old and new energy labels even in the transition phase, we recommend comparing the power consumption (watts) and luminous flux (lumens).

Further information on the subject of energy efficiency can be found at: [home-scandinavian.de/en/energy](http://home-scandinavian.de/en/energy)



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