



# BEGA 24 751 Compact Downlight with Minimal Diffuse Light Percentage Instruction Manual

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# BEGA

**BEGA 24 751 Compact Downlight with Minimal Diffuse Light Percentage**



## Product Information

This product is a luminaire that provides wide-beam light distribution. It is designed for installation and operation according to national safety regulations. The luminaire has electronic components that are protected against overvoltage in accordance with DIN EN 61547. It has a lamp module connected wattage of 21.7 W and a luminaire connected wattage of 26 W. The rated temperature is 25°C and the maximum ambient temperature is 40°C. The luminaire is available in two module designations: K3 and K4. The K3 module has a colour temperature of 3000 K, a colour rendering index (CRI) of >80, a module luminous flux of 3235 lm, a luminaire luminous flux of 2403 lm, and a luminaire luminous efficiency of 92.4 lm/W. The K4 module has a colour temperature of 4000 K, a CRI of >80, a module luminous flux of 3330 lm, a luminaire luminous flux of 2473 lm, and a luminaire luminous efficiency of 95.1 lm/W.

## Product Usage Instructions

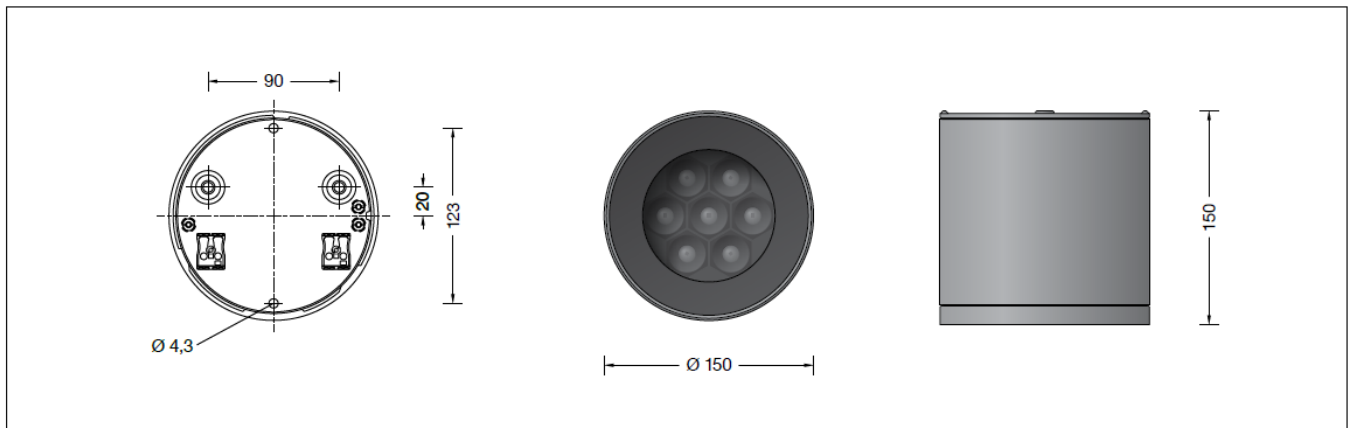
1. Ensure that the installation and operation of the luminaire comply with national safety regulations.
2. Installation and commissioning should only be carried out by a qualified electrician.
3. Avoid contact with the inner surface of the luminaire reflector to protect the special stray light-minimizing properties of the nano-coating.
4. Pass the power connecting cable through the cable entry in the mounting plate.
5. Fix the mounting plate onto the mounting surface using the provided fixing material and gasket rings.
6. Make the earth conductor connection and the electrical connection.
7. If digital control is required, use the connecting terminal DA, DA.
8. If not using the connecting terminal, the luminaire will operate at full light output.
9. To ensure the maximum service life of the electrical components, place the enclosed desiccant pouch in the luminaire.
10. Remove the desiccant pouch from the foil packaging and place it in the designated position before closing the luminaire.

## Instructions for use

### Application

- Compact downlight with symmetrically focused wide beam light distribution.
- BEGA Ultradark Optics® offer maximum of illumination and eye comfort due to a minimised diffuse light percentage and highly efficient glare suppression.

## DIMENSION



## Product Description

- Luminaire made of aluminium alloy, aluminium and stainless steel
- BEGA Unidure® coating technology
- Colour graphite or white
- Safety glass with optical structure
- Internal louvres and polymer lens
- BEGA Ultradark Optics®
- Louvres and the interior surface of the anti-glare ring with maximum light-absorbing ultra-black nano-coating
- 2 mounting holes  $\varnothing$  4.3 mm
- Distance apart 123 mm
- 2 cable entries for through-wiring of mains supply cable  $\varnothing$  7-12 mm, max. 5 x 2,5@
- Connection terminal 2.5@
- Earth conductor connection
- LED power supply unit
- 220-240 V x 0/50-60 Hz
- DC 176-276 V
- During DC operation the LED power is reduced to 15 %
- DALI-controllable
- Number of DALI addresses: 1
- Basic insulation is provided between the mains and control cables
- BEGA Thermal Control®
- Temporary thermal regulation to protect temperature-sensitive components without switching off the luminaire
- Safety class I
- Protection class IP 65
- Dust-tight and protection against water jets
- Impact strength IK07
- Protection against mechanical impacts < 2 joule
- Safety mark

- Conformity mark
- Weight: 1.7 kg
- This product contains light sources of energy efficiency class(es) D

## **Safety**

- The installation and operation of this luminaire are subject to national safety regulations.
- Installation and commissioning may only be carried out by a qualified electrician.
- The manufacturer accepts no liability for damage caused by improper use or installation.
- If subsequent modifications are made to the luminaire, the person responsible for these modifications shall be considered the manufacturer

## **Overvoltage protection**

- The electronic components installed in the luminaire are protected against overvoltage in accordance with DIN EN 61547.
- To achieve additional protection against e. g. transients, etc. we recommend separate overvoltage protection components.
- You can find them on our website at [www.bega.com](http://www.bega.com).

## **FEATURES**

### **Lamp**

- Module connected wattage 21.7 W
- Luminaire connected wattage 26 W
- Rated temperature  $t_a = 25\text{ °C}$
- Ambient temperature  $t_a \text{ max} = 40\text{ °C}$

### **24 751 K3**

- Module designation LED-1254/830
- Colour temperature 3000 K
- Colour rendering index CRI > 80
- Module luminous flux 3235 lm
- Luminaire luminous flux 2403 lm
- Luminaire luminous efficiency 92,4 lm / W

### **24 751 K4**

- Module designation LED-1254/840
- Colour temperature 4000 K
- Colour rendering index CRI > 80
- Module luminous flux 3330 lm

- Luminaire luminous flux 2473 lm
- Luminaire luminous efficiency 95,1 lm / W

## **Lighting technology**

- Half beam angle 25°

### **Please note:**

Contact with the inner surface of the luminaire reflector should be avoided in order to permanently protect the special stray light-minimising properties of the nano-coating.

## **Installation**

- Pass the power connecting cable through the cable entry in the mounting plate.
- Fix the mounting plate with enclosed or any other suitable fixing material onto the mounting surface.
- Be sure to use the gasket rings supplied.
- Make the earth conductor connection and the electrical connection.
- For digital control please use the connecting terminal DA, DA.
- In case this terminal is not used the luminaire will be operated at full light output
- In order to guarantee the maximum service life of the electrical components, the enclosed desiccant pouch must be placed in the luminaire.
- Remove the desiccant pouch from the foil packaging and place it in the position marked by the red information label immediately before finally closing the luminaire
- Make earth conductor connection between luminaire housing and mounting plate.
- Push the plug into the coupler as far as it will go.
- Make sure that gasket is positioned correctly.
- Insert the luminaire housing into the mounting plate and turn it as far as it will go

## **Cleaning Maintenance**

- Clean the luminaire regularly with solvent-free cleansers from dirt and deposits.
- Do not use high-pressure cleaners

## **Replacing the LED module**

- The designation of the LED module is noted on a label in the luminaire.
- The light colour and light output of BEGA replacement modules correspond to those of the modules originally fitted.
- The module can be replaced by qualified persons using standard tools.
- Disconnect the system.
- LED are high-quality electronic components!
- Please avoid touching the light output opening of the LED directly during relamping.
- Remove the luminaire housing from the mounting plate by turning it counter-clockwise.
- Disconnect the plug-in devices.
- Undo the retaining screw (wrench size 2.5 mm) in the luminaire housing. Remove the trim ring along with the

glass and reflector from the luminaire housing by turning it counterclockwise.

- Replace the LED module. Please follow the installation instructions for the LED module.
- Screw the trim ring along with the glass and reflector into the luminaire housing by turning it clockwise. Tighten retaining screw in the luminaire housing firmly.
- Make earth conductor connection between luminaire housing and mounting plate.
- Push plug into the coupler as far as it will go.
- Make sure that gasket is positioned correctly.
- Insert the luminaire housing into the mounting plate and turn it as far as it will go

## Spares

- LED power supply unit DEV-0144/1050i
- LED module 3000 K LED-1254/830
- LED module 4000 K LED-1254/840
- Gasket trim ring 83 001 146
- Gasket Montageplatte 83 002 047

BEGA Gantenbrink-Leuchten KG · Postfach 31 60 · 58689 Menden

[info@bega.com](mailto:info@bega.com)

[www.bega.com](http://www.bega.com)

## Documents / Resources

	<p><a href="#">BEGA 24 751 Compact Downlight with Minimal Diffuse Light Percentage</a> [pdf] Instruction Manual</p> <p>24751K3, 24751K4, 24 751 Compact Downlight with Minimal Diffuse Light Percentage, 24 751 Compact Downlight, Compact Downlight, Downlight, Compact Downlight with Minimal Diffuse Light Percentage</p>
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## References

- BEGA [BEGA · Das gute Licht.](#)