

BEGA
24 904 Recessed
Ceiling Luminaire



BEGA 24 904 Recessed Ceiling Luminaire Instruction Manual

[Home](#) » [BEGA](#) » BEGA 24 904 Recessed Ceiling Luminaire Instruction Manual 

Contents

- [1 BEGA 24 904 Recessed Ceiling Luminaire](#)
- [2 Product Specifications](#)
- [3 Instructions for use](#)
- [4 Product Usage Instructions](#)
- [5 FAQ](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)
- [7 Related Posts](#)

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BEGA 24 904 Recessed Ceiling Luminaire



Product Specifications

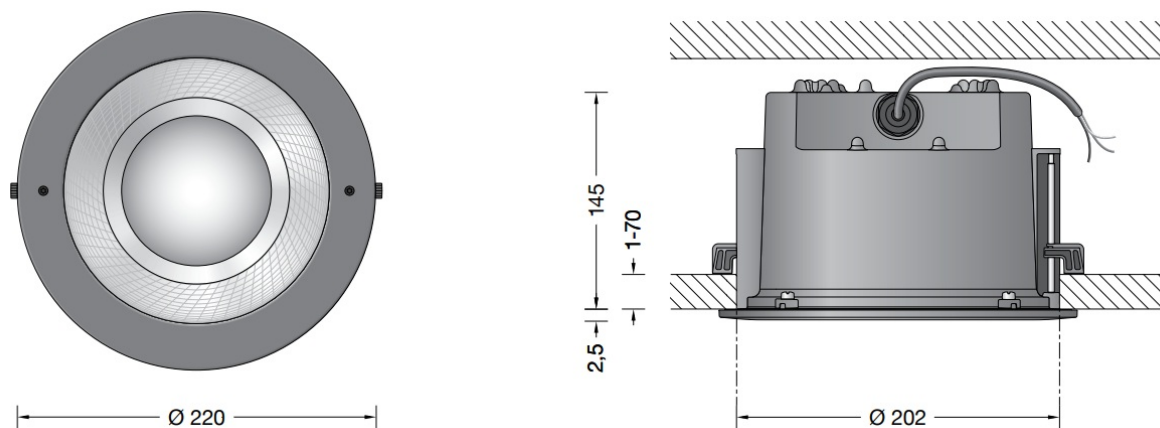
- **Application:** Recessed ceiling luminaire with attached connecting cable for installation into concrete ceilings or

suspended ceilings both indoors and out. With symmetrical wide beam light distribution.

- **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.
- **Overvoltage protection:** The electronic components installed in the luminaire are protected against overvoltage in accordance with DIN EN 61547.
- **Lamp Module connected wattage:** 11.7 W
- **Luminaire connected wattage:** 13.5 W
- **Rated temperature:** 50°C

Instructions for use

Dimension



Application

Recessed ceiling luminaire with attached connecting cable for installation into concrete ceilings or suspended ceilings both indoors and out. With symmetrical wide beam light distribution.

Product Description

- Luminaire made of aluminium alloy, aluminium and stainless steel
- BEGA Unidure® coating technology
- Colour graphite or white
- Clear safety glass
- Reflector surface made of pure aluminium
- Luminaire housing with 2 fixing claws and guide screws
- Recessed opening ø 202mm
- Required installation depth 145mm
- Connecting cable H05RN-F 3G1@ with free line ends
- Cable length 0,5m
- Complies with flicker requirements in accordance with IEEE 1789,
- DIN IEC/TR 63158, DIN IEC/TR 61547-1
- LED power supply unit
- 220-240 V x 0/50-60 Hz
- DC 170-276 V
- Safety class I

- Protection class IP 65
- Dust-tight and protection against water jets
- c – Conformity mark
- This product contains light sources of energy efficiency class(es) B

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.

Product Usage Instructions

1. **Electrical Connection:** The electrical connection of the free cable end must be carried out with matching protection class and safety class, relieved of strain, with suitable connection terminals in a suitable connection box (not included in the scope of delivery). Note correct configuration of the mains supply cable. Make mains supply connection at the black (L), blue (N) and green-yellow lead (1).
2. **Installation:** Insert luminaire housing into the recessed opening. Hand-tighten screws of the claw fastener (torx drive T15) evenly. Do not use an electric screwdriver! When tightening the screws, the fixing claws must swivel onto the inside of the suspended ceiling. The luminaire is fixed. When undoing the guide screws, the fixing claws swivel back, and the luminaire can be removed.

Overvoltage protection

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

The ideal protection of all electronic components installed in the luminaires is achieved by using bounce-free switching contacts such as an electronic relay (solid-state relay), e.g. BEGA 71320.

Lamp

- Module connected wattage 11.7 W
- Luminaire connected wattage 13.5 W
- Rated temperature $t_a=25\text{ }^{\circ}\text{C}$
- Service life criteria 50000 h/L70

24 904K3

- Module designation LED-1629/830
- Colour temperature 3000 K
- Colour rendering index CRI >80
- Module luminous flux 2415 lm
- Luminaire luminous flux * 1630 lm
- Luminaire luminous efficiency * 120,7 lm/W

24 904K4

- Module designation LED-1629/840
- Colour temperature 4000 K
- Colour rendering index CRI >80
- Module luminous flux 2480 lm
- Luminaire luminous flux * 1674 lm
- Luminaire luminous efficiency * 124 lm/W

preliminary data

Lighting technology

Half beam angle 80°

Installation

The recessed opening is covered by the frame of the luminaire housing. Fixing of the luminaire in the structure is achieved by using two adjustable wedged shaped claws. A recessed opening of ø 202 mm with a minimum depth of 145mm is required. The lateral distance between the luminaire housing and parts of the building must be at least 50mm. The claws grip behind the ceiling cladding. The minimum thickness of the ceiling cladding is 1mm.

Ensure that the suspended ceiling and wall surfaces have sufficient load-bearing capability. If the thickness is less, and if installation is to be carried out in plasterboard ceilings, the back of the ceiling cladding must be reinforced in the region of the claws. The electrical connection of the free cable end must be carried out with matching protection class and safety class, relieved of strain, with suitable connection terminals in a suitable connection box (not included in the scope of delivery). Note correct configuration of the mains supply cable. Make mains supply connection at the black (L), blue (N) and green-yellow lead (1). Insert luminaire housing into the recessed opening. Hand-tighten screws of the claw fastener (torx drive T15) evenly. Do not use an electric screwdriver! When tightening the screws, the fixing claws must swivel onto the inside of the suspended ceiling. The luminaire is fixed. When undoing the guide screws, the fixing claws swivel back and the luminaire can be removed.

Cleaning · Maintenance

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

Please note:

Do not remove the desiccant bag from the luminaire housing. It is needed to remove residual moisture.

Replacing the LED module

The designation of the LED module is noted on a separate label in the luminaire or on the underside of the specific LED module. 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 and open the luminaire. Please follow the installation instructions for the LED module. Inspect and, if necessary, replace the luminaire gaskets. Defective glass must be replaced. Close the luminaire.

Spares

- Spare glass 14 000 289
- LED power supply unit DEV-0341/350
- LED module 3000 K LED-1629/830
- LED module 4000 K LED-1629/840
- Reflector with diffuser disk 76 002 152
- Reflector 76 002 155
- Gasket 83 002 317

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FAQ


Q: What should I do if I need additional overvoltage protection?

A: For additional protection against transients, it is recommended to use separate overvoltage protection components available on our website at www.bega.com.

Q: How can I achieve ideal protection for electronic components in the luminaires?

A: The ideal protection can be achieved by using bounce-free switching contacts such as an electronic relay (solid-state relay), e.g., BEGA 71 320.

Documents / Resources

	<p>BEGA 24 904 Recessed Ceiling Luminaire [pdf] Instruction Manual 24904K3, 24904K4, 24 904 Recessed Ceiling Luminaire, 24 904, 24 904 Ceiling Luminaire, Recessed Ceiling Luminaire, Ceiling Luminaire, Recessed Luminaire, Luminaire</p>
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References

- BEGA [BEGA · Das gute Licht.](#)
- [User Manual](#)

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