

BEGA
85240K4 Performance
Floodlight With
Minimal Diffuse
Light Percentage



BEGA 85240K4 Performance Floodlight With Minimal Diffuse Light Percentage Instruction Manual

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BEGA 85240K4 Performance Floodlight With Minimal Diffuse Light Percentage

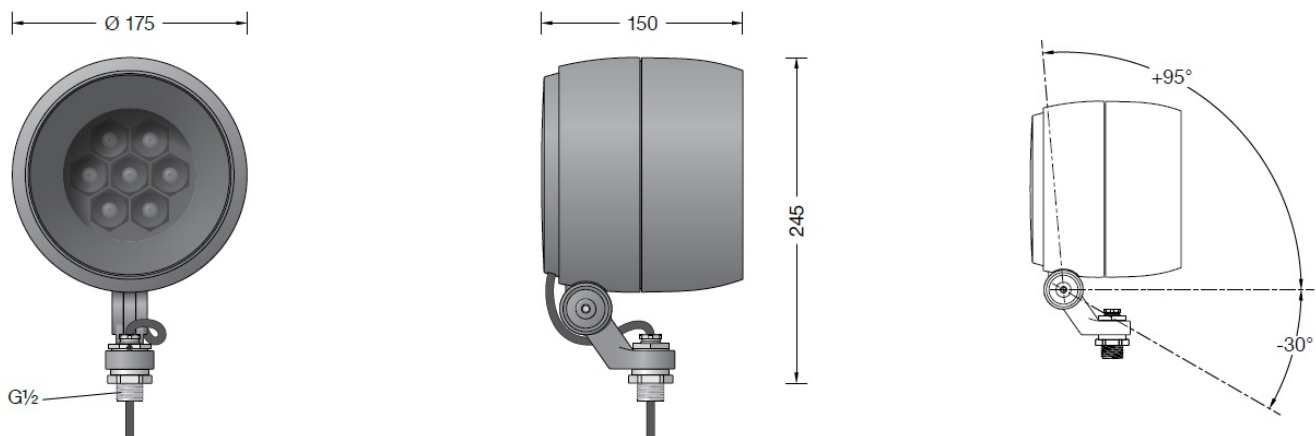


Product Information

Specifications:

- **Lamp Module connected wattage:** 25.2 W
- **Luminaire connected wattage:** 28 W
- **Rated temperature:** 25-35 °C
- **Ambient temperature:** max 35 °C
- **Color temperature:** 3000 K / 4000 K
- **Colour rendering index (CRI):** > 90
- **Module luminous flux:** 2825 lm / 3070 lm
- **Luminaire luminous flux:** 1970 lm / 2141 lm
- **Luminaire luminous efficiency:** 70.4 lm/W / 76.5 lm/W

DIMENSION



Instructions for use

Application

Performance floodlight with $G\frac{1}{2}$ mounting bush. The floodlight can be bolted together with any female thread $G\frac{1}{2}$ according to ISO 228 supplied by others or to BEGA accessories. For a variety of interior and exterior lighting applications. BEGA Ultradark Optics® offer maximum of illumination and eye comfort due to a minimized diffuse light percentage and highly efficient glare suppression.

- Product description
- Luminaire made of aluminium alloy, aluminium and stainless steel
- BEGA Unidure® coating technology
- Colour graphite or silver
- Matt safety glass
- Internal louvres and polymer lens
- BEGA Ultradark Optics®
- Louvres and interior surface of anti-glare ring with maximum light-absorbing ultra-black nano-coating
- Rotation range of floodlight 350°
- Swivel range $-30^\circ/+95^\circ$
- Mounting bracket with $G\frac{1}{2}$ threaded connection

- Thread length: 14 mm
- Connecting cable X05BQ-F 5 G 1 mm²
- Cable length 1 m
- BEGA Ultimate Driver®
- 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 $\sim$ 0/50-60 Hz
- DC 176-264 V
- 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 IK06
- Protection against mechanical impacts < 1 joule
-  — • Conformity mark
- **Wind catching area:** 0.028 m²
- This product contains light sources of energy efficiency class(es) E, F

Safety Guidelines:

The installation and operation of this luminaire must comply with national safety regulations. Only a qualified electrician should perform the installation and commissioning. The manufacturer is not liable for damages resulting from improper use or installation. For optimal protection of electronic components in the luminaire, use bounce-free switching contacts like an electronic relay (solid-state relay).

Lighting technology

Symmetrically focused wide beam light distribution with minimal diffuse light percentage.

- Half beam angle 25°

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 have overvoltage protection per DIN EN 61547. Consider additional protection against transients by using separate overvoltage protection components available on the manufacturer's website. 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.

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 71 320.

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

Screw the floodlight G $\frac{1}{2}$ threaded connection firmly into the on-site G $\frac{1}{2}$ female thread or BEGA accessory. G $\frac{1}{2}$ threaded connection torque = 40 Nm. Secure the screw connection from loosening on site (if provided with locking screw S, see fig. A). Check the earth conductor connection between the G $\frac{1}{2}$ threaded connection and the on-site G $\frac{1}{2}$ female thread.

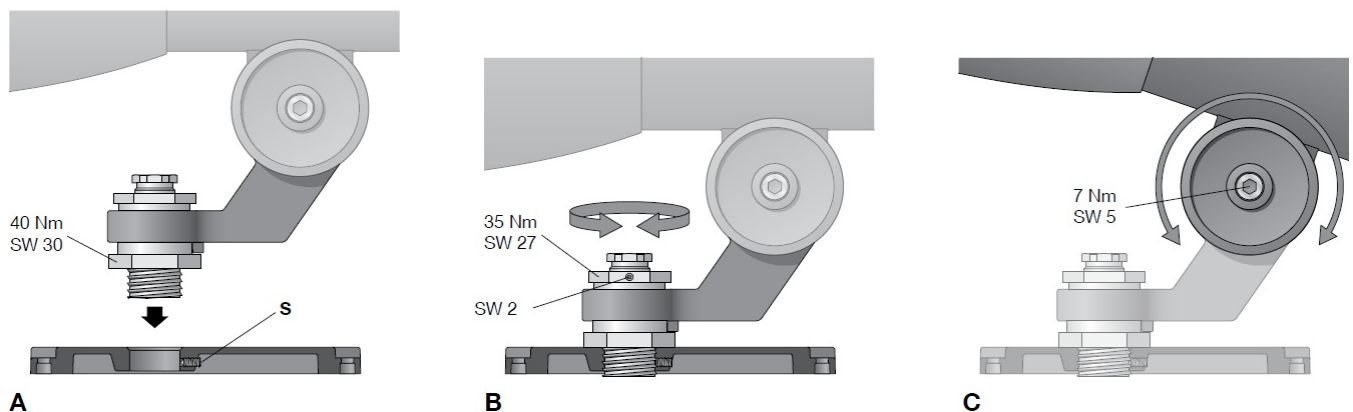
Adjust floodlight:

Undo hexagon socket screw (wrench size 5 mm) and hexagon nut (wrench size 27 mm) and set the desired beam direction (see sketch B, C).

Torque:

- Hexagon socket screw = 7 Nm
- Hexagon nut = 35 Nm

Secure bolted connection G $\frac{1}{2}$ against loosening by tightening the hexagon socket screws (wrench size 2 mm).



The electrical connection must be carried out with matching protection class and safety class, strain-relieved, with suitable connection terminals (not included in the scope of delivery) at the luminaire power supply cable. Note correct configuration of the mains supply cable. The earth conductor is connected at the green-yellow ($\oplus$), the phase to the brown (L), and the neutral conductor to the blue (N) marked wire. The connection of the control cables is achieved by means of the both leads marked with DALI. In case these leads are not used the luminaire will be operated at full light output.

Lamp

- Module connected wattage 25.2 W
- Luminaire connected wattage 28 W
- Rated temperature $t_a = 25\text{ }^{\circ}\text{C}$
- Ambient temperature $t_a \text{ max} = 35\text{ }^{\circ}\text{C}$

85 240 K3

- Module designation LED-1254/930
- Colour temperature 3000 K
- Colour rendering index CRI > 90
- Module luminous flux 2825 lm
- Luminaire luminous flux 1970 lm
- Luminaire luminous efficiency 70,4 lm / W

85 240 K4

- Module designation LED-1254/940
- Colour temperature 4000 K
- Colour rendering index CRI > 90
- Module luminous flux 3070 lm
- Luminaire luminous flux 2141 lm
- Luminaire luminous efficiency 76,5 lm / W

Cleaning · Maintenance

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

Maintenance:

Regularly check the connecting cable for external damage. Only a qualified electrician should replace the cable. Do not remove the desiccant bag from the luminaire housing as it helps remove residual moisture. The connecting cable must be checked for external damage and may only be replaced by a qualified electrician.

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 a qualified person using commercially available tools. Disconnect the system from the power supply.

Open the floodlight:

Loosen the locking pin (hexagon socket wrench SW 2.5) on the back of the floodlight housing. Remove the trim ring along with the safety glass and reflector by twisting it anti-clockwise.

Please note:

Contact with the inner surfaces of the louvres and luminaire reflector should be avoided in order to permanently protect the special stray light-minimising properties of the nano-coating. Grasp the louvres from the outside and lift them out. Loosen the three mounting screws (Torx drive T20) and lift the lens holder (with the loosely inserted lenses) upward horizontally out of the housing. Replace LED module. Please follow the installation instructions for the LED module. Install in reverse order. When installing the lens holder, make sure that the LED connecting cable is not pinched. Inspect and, if necessary, replace the luminaire gaskets. Defective glass must be replaced. Place the trim ring with glass and reflector on the floodlight housing so that the notches in the trim ring and luminaire housing sit on top of each other. Twist on the trim ring clockwise as far as the stop. Screw in the locking pin.

Accessories:

Accessories such as shields are available for this product. Separate instructions for their use can be provided upon request.

- 71 333 Shield
- 71 338 Cylindrical shield
- 70 214 Pole cap for pole ø 48 mm
- 70 248 Pole cap for pole ø 60 mm
- 70 245 Mounting box
- 70 252 General fastener
- 70 280 Tube clamp G½
- 70 283 Screw clamp
- 70 379 Cross beam G½
- 70 889 Tension belt

For the accessories a separate instructions for use can be provided upon request.

Spares

- Spare glass inside 14 001 631
- Trim ring graphite with glass 25 000 281
- Trim ring silver with glass 25 000 282
- LED power supply unit DEV-0270/1200i
- LED module 3000 K LED-1254/930
- LED module 4000 K LED-1254/940
- Gasket housing 83 001 579
- Gasket trim ring 83 002 306

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FAQ:

Q: Can I install the luminaire myself?

A: No, the installation and commissioning must be done by a qualified electrician to ensure safety and proper functioning.

Q: What should I do if the connecting cable is damaged?

A: Contact a qualified electrician to inspect and replace the connecting cable.

Q: Is it necessary to use overvoltage protection components?

A: While the luminaire has overvoltage protection, additional protection against transients is recommended for enhanced safety.

Documents / Resources



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85240K4 Performance Floodlight With Minimal Diffuse Light Percentage, 85240K4, Performance Floodlight With Minimal Diffuse Light Percentage, Floodlight With Minimal Diffuse Light Percentage, Minimal Diffuse Light Percentage, Diffuse Light Percentage, Light Percentage, Percentage

References

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

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