

BEGA 85 241 Performance Floodlight



BEGA 85 241 Performance Floodlight Instruction Manual

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BEGA

BEGA 85 241 Performance Floodlight



Specifications

- Lampe: LED-1254/930
- Colour Temperature: 3000 K
- Colour Rendering Index (CRI): > 90
- Module Luminous Flux: 2825 lm
- Luminaire Luminous Flux: 1426 lm
- Luminaire Luminous Efficiency: 50.9 lm / W
- Connected Wattage: 25.2 W
- Rated Temperature: 25 – 35 °C

Safety

The installation and operation of this luminaire must adhere to national safety regulations. Only a qualified electrician should perform the installation and commissioning. The manufacturer is not liable for damage due to improper use or installation. Any modifications made to the luminaire should be done by a responsible person.

Overvoltage Protection

The electronic components in the luminaire are protected against overvoltage as per DIN EN 61547. For additional protection against transients, it is recommended to use separate overvoltage protection components available on the manufacturer's website.

Maintenance

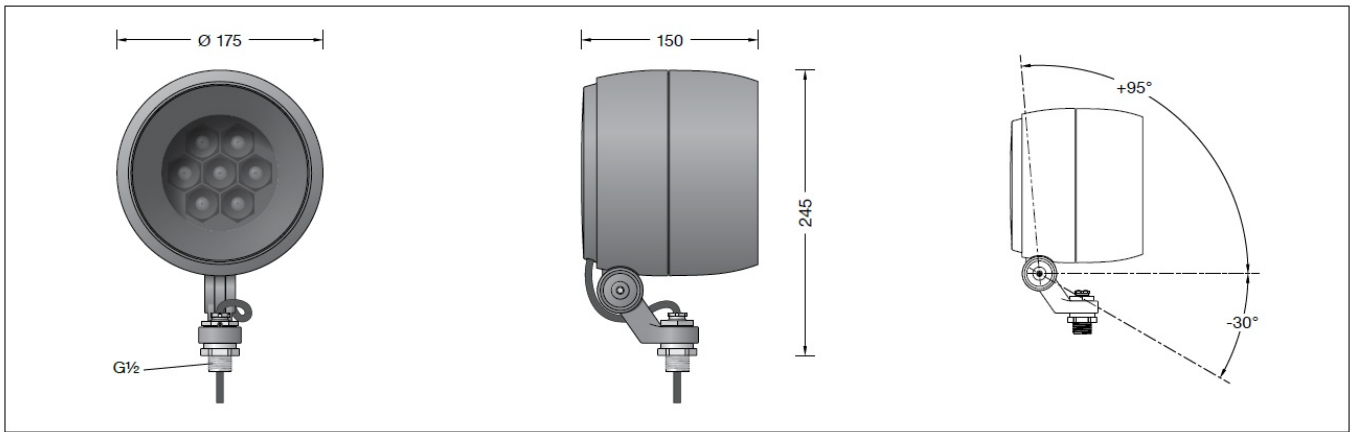
The connecting cable should be regularly checked for external damage and replaced only by a qualified electrician. Do not remove the desiccant bag from the luminaire housing as it helps remove residual moisture.

FAQ:

Q: Can I install this luminaire myself?

A: No, installation and commissioning should only be carried out by a qualified electrician to ensure safety and proper functioning.

Performance floodlight with minimal diffuse light percentage





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 a maximum of illumination and eye comfort due to a minimised 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 the 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  x 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

Lighting technology

Symmetrically focused broad spread light distribution with minimal diffuse light percentage.
Half beam angle 56°

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 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 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

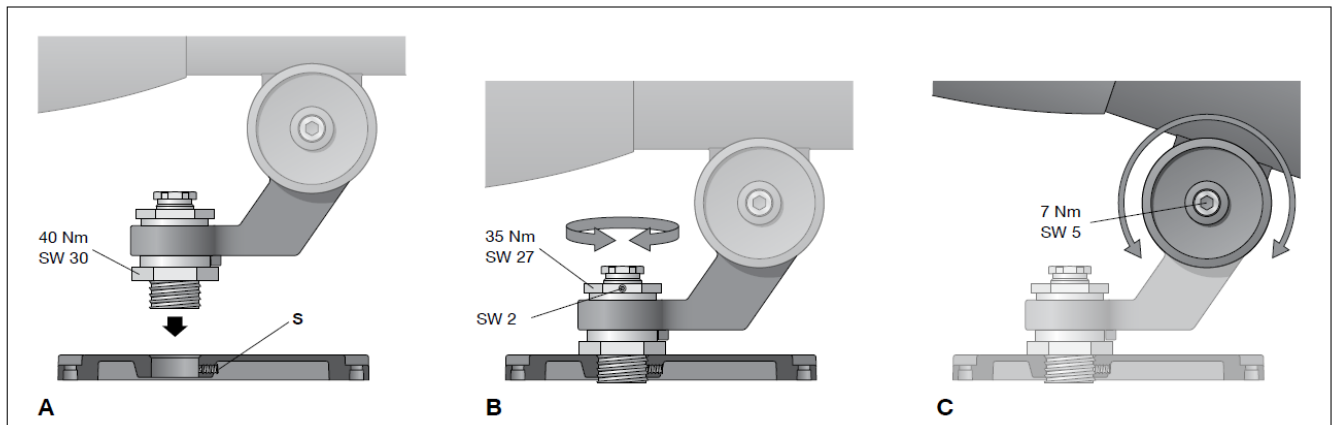
- Screw the floodlight G½ threaded connection firmly into the on-site G½ female thread or BEGA accessory.
- G½ threaded connection torque = 40 Nm. Secure the screw connection from loosening on site (if provided with locking screw S, see fig. A).
- Check the earth conductor connection between the G½ threaded connection and the on-site G½ 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 Gß 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 (⚡), 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 $t_a = 25\text{ °C}$
- Ambient temperature $t_a \text{ max} = 35\text{ °C}$

85 241 K3

- Module designation LED-1254/930
- Colour temperature 3000 K
- Colour rendering index CRI > 90
- Module luminous flux 2825 lm
- Luminaire luminous flux 1426 lm
- Luminaire luminous efficiency 50,9 lm / W

85 241 K4

- Module designation LED-1254/940
- Colour temperature 4000 K
- Colour rendering index CRI > 90
- Module luminous flux 3070 lm
- Luminaire luminous flux 1550 lm
- Luminaire luminous efficiency 55,4 lm / W

Cleaning · Maintenance

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

Maintenance

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

- 71 333 Shield
- 71 337 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 G $\frac{1}{2}$
- 70 283 Screw clamp
- 70 379 Cross beam G $\frac{1}{2}$
- 70 889 Tension belt

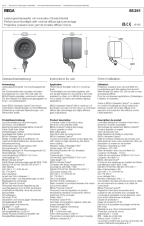
For the accessories a separate instructions for use can be provided upon request.

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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Documents / Resources

	<p>BEGA 85 241 Performance Floodlight [pdf] Instruction Manual 85 241 Performance Floodlight, 85 241, Performance Floodlight, Floodlight</p>
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References

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

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