

BEGA 85 171 Performance Floodlight



BEGA 85 171 Performance Floodlight Instruction Manual

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BEGA

BEGA 85 171 Performance Floodlight



Specifications:

- Luminaire made of aluminum alloy
- **LED power supply unit:** 220-240 V at 50/60 Hz
- **Safety class:** I
- **Protection class:** IP 65
- **Impact strength:** IK07
- **Energy efficiency class:** D

Product Usage Instructions

Connection and Setup:

1. Ensure to order a separate mains plug for connecting the floodlight to the mains.
2. Use the connection adapter with various accessories for mounting on trees, pipes, or wooden structures.

Safety Information:

Follow national safety regulations for installation and operation of the luminaire. The manufacturer is not liable for damage due to improper use or installation.

Overvoltage Protection:

The luminaire's electronic components have overvoltage protection according to DIN EN 61547. Consider additional protection components against transients available on the manufacturer's website.

Total Load:

Ensure that the total power consumption does not exceed 6 A when configuring your lighting system. The power consumption of Model 85 171 is 0.05 A.

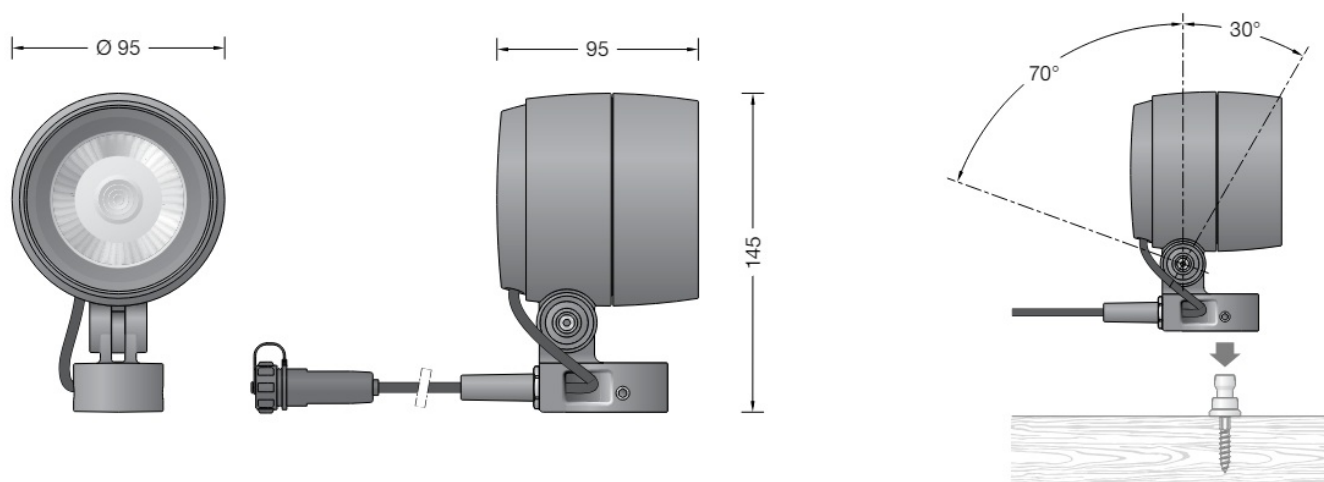
Lamp Specifications:

| Module Designation | Color Temperature | Colour Rendering Index | Module Luminous Flux | Luminaire Luminous Flux | Luminaire Efficiency |
|--------------------|-------------------|------------------------|----------------------|-------------------------|----------------------|
| LED-1269/930 | 3000 K | CRI > 90 | 1265 lm | 918 lm | 95.6 lm/W |

FAQ

- **Q: What should I do if the luminaire is not working after installation?**
 - **A:** Check the power connection, ensure proper setup according to the manual, and verify that the mains plug is correctly connected.
- **Q: Can I use extension cables with this luminaire?**
 - **A:** Yes, extension cables are available as accessories for connecting the floodlight to the mains.

DIMENSIONS



Instructions for use





Application

Performance floodlight BEGA UniLink® with connection adapter for use in combination with various accessories, e.g. for mounting on trees, pipes or wooden structures.

A separate mains plug must be ordered in order to connect the floodlight to the mains. The various country-specific mains plug with 0.5 m connecting cable, as well as extension cables and five-way distribution boxes are available as accessories.

Product Description

- Luminaire made of aluminum alloy, aluminum, and stainless steel
- BEGA Unidure® coating technology

- Color graphite or silver
- Clear safety glass
- Silicone gasket
- Reflector surface made of pure aluminium Optical silicone lens · BEGA Hybrid Optics® Rotation range of floodlight 360°
- Swivel range -30°/+70°
- 5 m mains supply cable
- X05RN-F FEP 2 × 1  + 1G2,5  with
- BEGA UniLink® plug-in connector
- 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  50/60 Hz
- Safety class I
- Protection class IP 65
- Dust-tight and protection against water jets Impact strength IK07
- Protection against mechanical
- impacts < 2 joule
-  – Conformity mark
- **Weight:** 1.3 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. 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.

Total load

When configuring your lighting system, please ensure that the maximum power consumption of 6 A is not exceeded. Information on power consumption can be found in the instructions for use and data sheets for all BEGA UniLink® luminaires.

Power consumption of 85 171: 0,05 A

Lamp

- **Module connected wattage:** 8.4 W
- **Luminaire connected wattage:** 9.6 W
- **Rated temperature:** $t_a = 25\text{ °C}$
- **Ambient temperature:** $t_a \text{ max} = 50\text{ °C}$

85 171 K3

- **Module designation:** LED-1269/930
- **Color temperature:** 3000 K
- **Color rendering index:** CRI > 90
- **Module luminous flux:** 1265 lm
- **Luminaire luminous flux:** 918 lm
- **Luminaire luminous efficiency:** 95,6 lm / W

85 171 K4

- **Module designation:** LED-1269/940
- **Color temperature:** 4000 K
- **Color rendering index:** CRI > 90
- **Module luminous flux :** 1330 lm
- **Luminaire luminous flux:** 965 lm
- **Luminaire luminous efficiency:** 100,5 lm / W

Lighting technology

- Symmetrical wide beam light distribution
- Half beam angle 48°
- For special lighting applications, the symmetrical light cone can be changed to a flat beam using an additional diffuser lens.

Caution:

The BEGA UniLink® plug connectors may only be connected and disconnected in a voltage-free state.

Installation

Unscrew the hexagon socket screws (wrench size 3 mm) on the sides of the connection adapter and screw the corresponding accessory to the floodlight.

Torque = 5 Nm.

Plug the floodlight's connecting cable into the plug contact of the connecting cable with the country-specific mains plug, or into the distribution box or extension cable.

To ensure a sufficiently low protective conductor resistance (loop resistance), the connecting cable of each

luminaire in the system must not exceed a length of 50 m from the entry point.

Adjustment of beam direction

Undo the joint screw (hexagon socket head wrench size 3 mm) and set the desired beam direction.

Tighten the joint screw.

Torque = 2.5 Nm.

Cleaning / Maintenance

Clean the 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 color and light output of BEGA replacement modules correspond to those of the modules originally fitted.

The replacement can be carried out by a qualified person using standard tools.

Disconnect the system from the power supply.

Open the floodlight:

Remove the trim ring along with the safety glass and reflector by twisting it anti-clockwise.

Replace the LED module.

Please follow the installation instructions for the LED module.

Inspect and, if necessary, replace the luminaire gaskets.

The 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.

Accessories

The following combination options are available for fitting to floodlights with connection adapter

- **71 223:** Screw clamp with connection adapter
- **71 224:** Tube clamp with connection adapter
- **71 225:** Lashing straps with connection adapter
- **71 226:** General fasteners with connection adapter

- **71 227:** G½ mount with connection adapter

Shields and diffuser lenses that alter the light distribution are available as accessories for these floodlights.

- **71 288:** Exchangeable lens flat beam
- **71 330:** Shield
- **71 335:** Cylindrical shield

Country-specific mains plug with 0.5 m connecting cable

- **71 180 Plug type F / E:** system common in Germany and Europe
- **71 181 Plug type G:** system used in Great Britain ("Commonwealth plug")
- **71 182 Plug type J:** system common in Switzerland and Liechtenstein
- **71 183 Plug type L:** system common in Italy and Greece
- **71 184 Plug type K:** system common in Denmark and Greenland

BEGA UniLink® extension cables with socket and plug

- **71 186:** BEGA UniLink® Extension cable 5 m
- **71 187:** BEGA UniLink® Extension cable 10 m
- **71 188:** BEGA UniLink® Extension cable 20 m

BEGA UniLink® connecting cables with a plug connector and one free cable end to connect to e.g. a conventional connection box

- **71 247:** Connecting cable 5 m with free line ends
- **71 256:** Connecting cable 0.5 m with free line ends
- BEGA UniLink® distribution box with five connection sockets for the connection of BEGA UniLink® luminaires, extension cables or additional five-way distribution boxes
- **71 189:** BEGA UniLink® Five-way distribution box

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


Spares

- **Trim ring graphite with glass:** 25 000 271
- **Trim ring silver with glass:** 25 000 272
- **LED power supply unit:** DEV-0447/250
- **LED module 3000 K:** LED-1269/930
- **LED module 4000 K:** LED-1269/940
- **Reflector:** 75 005 133
- **Gasket housing:** 83 002 045

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Documents / Resources

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|  | <p>BEGA 85 171 Performance Floodlight [pdf] Instruction Manual 85171K3, 85171K4, 85 171 Performance Floodlight, 85 171, Performance Floodlight, Floodlight</p> |
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References

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

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