

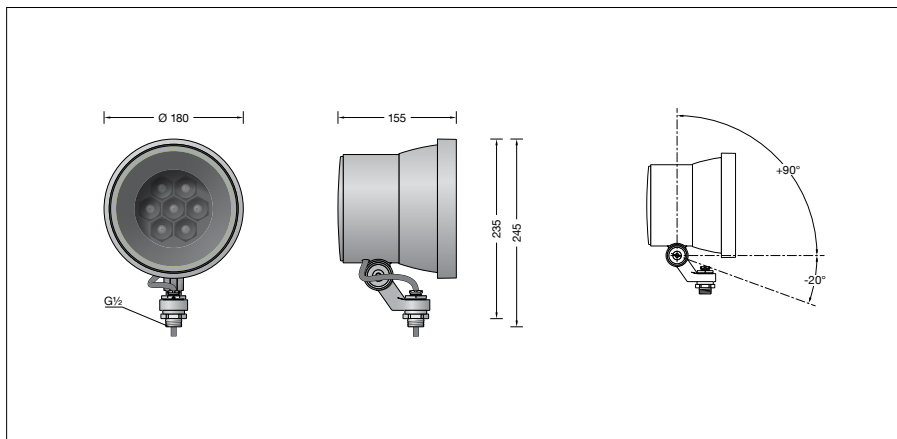
BEGA**85 085**

Compact downlight with minimal diffuse light percentage



Project · Reference number

Date



Product data sheet

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 -20°/+90°
 Mounting bracket with G½ 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 ~ 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 IK07
 Protection against mechanical impacts < 2 joule
 – Safety mark
 – Conformity mark
 Weight: 2.6 kg
 This product contains light sources of energy efficiency class(es) E, F

Application

Compact floodlights with G½ connecting thread. The floodlight can be screwed on by the customer with any G½ female thread according to ISO 228 or with BEGA accessories.

BEGA Ultradark Optics® offer a maximum of illumination and eye comfort due to a minimised diffuse light percentage and highly efficient glare suppression.

Lamp

Module connected wattage	25.2 W
Luminaire connected wattage	28 W
Rated temperature	t _a = 25 °C
Ambient temperature	t _{a max} = 35 °C

85 085 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

85 085 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

Service life · Ambient temperature

Rated temperature t _a = 25 °C	
LED psu:	> 50,000 h
LED module:	> 200,000 h (L 80 B 50)
	100,000 h (L 90 B 50)
Ambient temperature max. t _a = 35 °C (100 %)	
LED psu:	50,000 h
LED module:	> 200,000 h (L 80 B 50)
	100,000 h (L 90 B 50)

Ambient temperature max. t _a = 50 °C (85 %)	
LED psu:	> 50,000 h
LED module:	> 50,000 h (L 70 B 50)

BEGA Thermal Control® protects temperature-sensitive luminaire components by temporarily limiting the nominal power at high temperatures.

Lighting technology

Symmetrically focused wide beam light distribution with minimal diffuse light percentage. Half beam angle 25°

BEGA Ultradark Optics®

BEGA Ultradark Optics® offer a maximum of illumination and eye comfort due to a minimised diffuse light percentage and highly efficient glare suppression. The precise synergy of highly efficient components in the optical system and luminaire body ensures impressive illumination results: bespoke, ultra-thick optical lenses enable exceptional glare suppression of the LED light. Inside louvres as well as a luminaire body with an ultra-black nano coating with maximum light absorption further enhance the effect. Any other possible stray light is additionally absorbed by the high structure of the luminaire body and its nano coating.

Inrush current

Inrush current: 5 A / 100 μs
 Maximum number of luminaires of this type per miniature circuit breaker:
 B 10A: 28 luminaires
 B 16A: 45 luminaires
 C 10A: 28 luminaires
 C 16A: 48 luminaires

Accessories

71 281	Shield
71 286	Cylindrical shield
71 042	Adapter for installation on a pole
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.

Article No. 85 085

LED colour temperature optionally 3000 K or 4000 K
 3000 K – Article number + **K3**
 4000 K – Article number + **K4**

Colour graphite or silver
 graphite – article number
 silver – article number + **A**

Light distribution

