

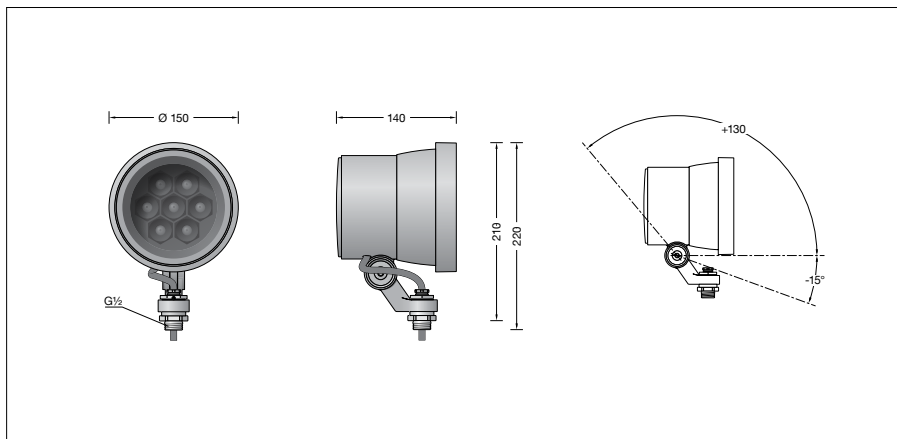
BEGA**85 111**

Compact downlight with minimal diffuse light percentage



Project · Reference number

Date



Product data sheet

Application

Compact floodlights with G $\frac{1}{2}$ connecting thread. The floodlight can be screwed on by the customer with any G $\frac{1}{2}$ 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.

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.

Lighting technology

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

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 -15°/+130°
 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 IK08
 Protection against mechanical impacts < 5 joule
 – Safety mark
 – Conformity mark
 Wind catching area: 0.02 m²
 Weight: 2.0 kg
 This product contains light sources of energy efficiency class(es) E, F

Lamp

Module connected wattage	18.3 W
Luminaire connected wattage	20.5 W
Rated temperature	t _a = 25 °C
Ambient temperature	t _{a max} = 35 °C

85 111 K3

Module designation	LED-1254/930
Colour temperature	3000 K
Colour rendering index	CRI > 90
Module luminous flux	2190 lm
Luminaire luminous flux	1098 lm
Luminaire luminous efficiency	53,6 lm/W

85 111 K4

Module designation	LED-1254/940
Colour temperature	4000 K
Colour rendering index	CRI > 90
Module luminous flux	2375 lm
Luminaire luminous flux	1190 lm
Luminaire luminous efficiency	58 lm/W

Service life · Ambient temperature

Rated temperature t _a = 25 °C	
LED psu:	> 50,000 h
LED module:	> 200,000 h (L80 B50)
	100,000 h (L90 B50)

Ambient temperature max. t_a = 35 °C (100 %)

LED psu:	50,000 h
LED module:	> 200,000 h (L80 B50)
	100,000 h (L90 B50)

Ambient temperature max. t_a = 50 °C (68 %)

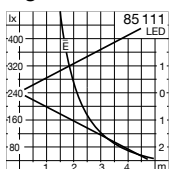
LED psu:	> 50,000 h
LED module:	> 50,000 h (L70 B50)

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

Inrush current

Inrush current: 5 A / 100 μ s
 Maximum number of luminaires of this type per miniature circuit breaker:
 B 10A: 56 luminaires
 B 16A: 90 luminaires
 C 10A: 56 luminaires
 C 16A: 90 luminaires

Light distribution



Accessories

71 280	Shield
71 285	Cylindrical shield
71 042	Adapter for installation on a pole
70 204	Earth spike
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. 85 111

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**