

Ceiling luminaire · downlight for indoor use



Project · Reference number

Date

Product data sheet

Application

Ceiling luminaire downlight · Indoor luminaire with asymmetrical light distribution.

Product description

Ceiling luminaire downlight »GENIUS«
 Die-cast aluminium housing,
 Colour velvet black finish
 Trim ring · Chrome finish
 Matt safety glass
 Optical silicone lens · BEGA Constant Optics®
 Reflector surface made of pure aluminium
 2 mounting holes ø 4.5 mm
 Distance apart 153 mm
 Connecting terminals 2.5°
 Earth conductor connection
 LED power supply unit
 220-240 V ~ 0/50-60 Hz
 DC 170-276 V
 DALI-controllable
 Number of DALI addresses: 1
 Basic insulation is provided between the mains and control cables
 BEGA Thermal Switch®
 Temporary thermal shutdown to protect temperature-sensitive components
 Safety class I
 Impact strength IK08
 Protection against mechanical impacts < 5 joule
 – Safety mark
 – Conformity mark
 Weight: 2.2 kg
 This product contains light sources of energy efficiency class(es) D

Inrush current

Inrush current: 10 A / 200 µs
 Maximum number of luminaires of this type per miniature circuit breaker:

B10A: 18 luminaires
 B16A: 30 luminaires
 C10A: 31 luminaires
 C16A: 51 luminaires

Light technique

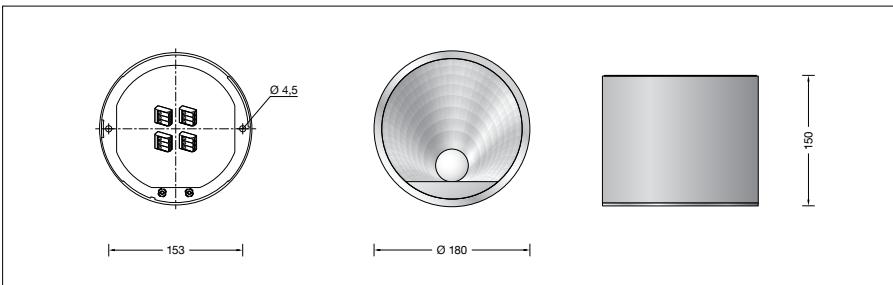
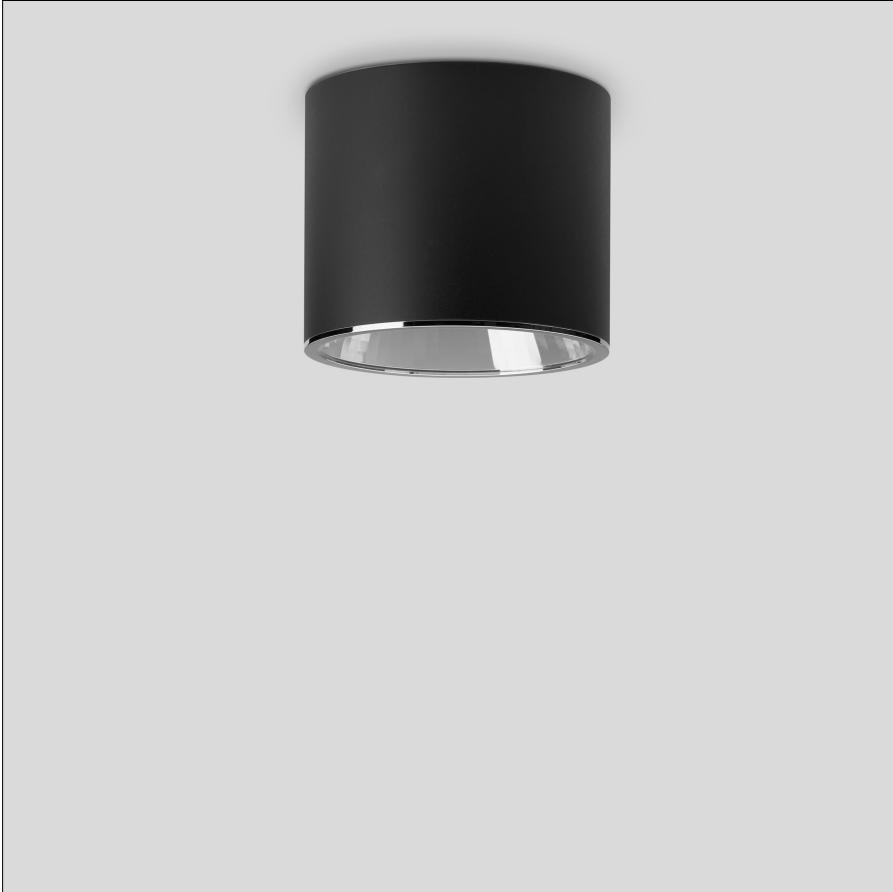
Asymmetrical wide beam light distribution
 Half beam angle 65/68°
 Luminaire data for the light planning program DIALux for outdoor lighting, street lighting and indoor lighting, as well as luminaire data in EULUMDAT and IES format are available on the BEGA website at www.bega.com.

Lamp

Module connected wattage	25 W
Luminaire connected wattage	27.8 W
Rated temperature	$t_a = 25^\circ\text{C}$
Ambient temperature	$t_{a\ max} = 45^\circ\text{C}$

50 494.5 K3

Module designation	LED-0785/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	4365 lm
Luminaire luminous flux	3339 lm
Luminaire luminous efficiency	120,1 lm/W

**Service life · Ambient temperature**

Rated temperature $t_a = 25^\circ\text{C}$
 LED psu: > 50,000h
 LED module: 190,000h (L80B50)
 50,000h (L90B50)

Ambient temperature max. $t_a = 45^\circ\text{C}$ (100 %)

LED psu: 50,000h
 LED module: 130,000h (L80B50)

BEGA Constant Optics®

BEGA Constant Optics® is an efficient optical system that is virtually impervious to wear and tear. The durable materials used, including glass, pure aluminium and silicone, show no effects of ageing, even under extreme conditions like high temperatures and UV radiation.

Article No. 50 494.5

Optional finishes
 • Velvet white
 • Velvet black

Code number .1
 Code number .5