

**BEGA****50 477.5**

Ceiling luminaire · downlight for indoor use



Project · Reference number


Date

## Product data sheet

### Application

Ceiling luminaire downlight · Indoor luminaire with symmetrical very wide beam light distribution. With BEGA Hybrid Optics® : Highly efficient and low-loss light distribution, thanks to reflector and optical lens.

### Product description

Ceiling luminaire downlight »GENIUS«  
Die-cast aluminium housing,  
Colour velvet black finish  
Trim ring · Chrome finish  
Clear safety glass  
Optical silicone lens · BEGA Hybrid Optics®  
Reflector surface made of pure aluminium  
2 mounting holes  $\varnothing$  4.5 mm  
Distance apart 96 mm  
Connecting terminals 2.5<sup>2</sup>  
Earth conductor connection  
LED power supply unit  
220-240 V  $\sim$  0/50-60 Hz  
DC 176-280 V  
DALI-controllable  
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 IK07  
Protection against mechanical impacts < 2 joule  
 – Safety mark  
**CE** – Conformity mark  
Weight: 0.95 kg  
This product contains light sources of energy efficiency class(es) E

### Inrush current

Inrush current: 5 A / 50  $\mu$ s  
Maximum number of luminaires of this type per miniature circuit breaker:  
B 10 A: 31 luminaires  
B 16 A: 50 luminaires  
C 10 A: 52 luminaires  
C 16 A: 85 luminaires

### Lighting technology

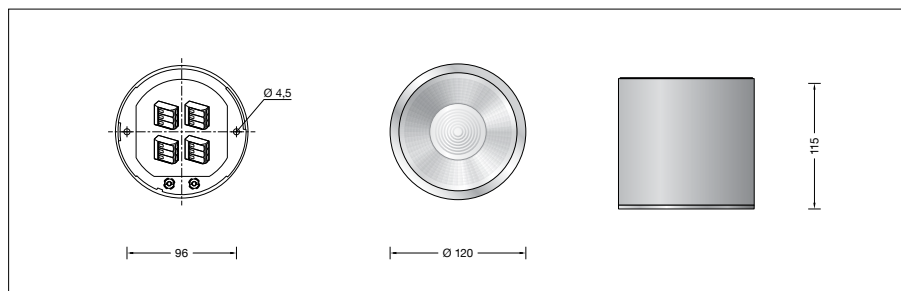
Symmetrical wide beam light distribution  
Half beam angle 74°  
Luminaire data for the light planning program DIALux for outdoor lighting, street lighting and indoor lighting, as well as luminaire data in EULUMDAT and IES format are available on the BEGA website at [www.bega.com](http://www.bega.com).

### Lamp

Module connected wattage	8.1 W
Luminaire connected wattage	9.8 W
Rated temperature	$t_a = 25^\circ\text{C}$
Ambient temperature	$t_{a\text{ max}} = 30^\circ\text{C}$

### 50 477.5 K3

Module designation	LED-0800/930
Colour temperature	3000 K
Colour rendering index	CRI > 90
Module luminous flux	1255 lm
Luminaire luminous flux	1072 lm
Luminaire luminous efficiency	109,4 lm/W



### Service life · Ambient temperature

Rated temperature $t_a = 25^\circ\text{C}$	
LED psu:	> 50,000 h
LED module:	> 200,000 h (L 80 B 50)
	50,000 h (L 90 B 50)
Ambient temperature max. $t_a = 30^\circ\text{C}$ (100 %)	
LED psu:	50,000 h
LED module:	> 200,000 h (L 80 B 50)
	50,000 h (L 90 B 50)

### BEGA Hybrid Optics®

BEGA Hybrid Optics® offers complete lighting control thanks to optimum refraction and reflection. Precisely calculated reflectors with a surface made of pure aluminium and lenses made of ultra-clear silicone or glass capture nearly every beam of light from the LED modules. The interplay between lens and reflector technologies achieves maximum application efficiency.

### Article No. 50 477.5

Optional finishes

- Velvet white
- Velvet black

Code number .1  
Code number .5