

BEGA**50 451.1**

Recessed ceiling luminaire for indoor use



Project · Reference number

Date

Product data sheet

Application

LED recessed ceiling downlight · Interior luminaire with asymmetrical light distribution for connection to an external LED power supply unit.
For surface mounted installation in suspended ceilings in interior of 5-25 mm.

Product description

LED recessed luminaire without power supply unit
Luminaire housing made of cast aluminium
Installation housing is made of glass fibre reinforced synthetic material (polyamide) with 2 fastening springs
Reflector surface made of pure aluminium
Light-diffusing silicone lens
Metal ceiling frame ring, finish white enamel
Safety glass
Recessed opening \varnothing 125 mm
Recessed depth required 95 mm
1 connecting cable with strain relief and plug connector system for BEGA power supply unit, on/off or DALI
Safety class III
CE – Conformity mark

Lighting technology

Half beam angle 45/60°
Luminaire data for the light planning program DIALux for outdoor lighting, street lighting and interior lighting as well as luminaire data in EULUMDAT and IES format are available on our website www.bega.com.

Lamp

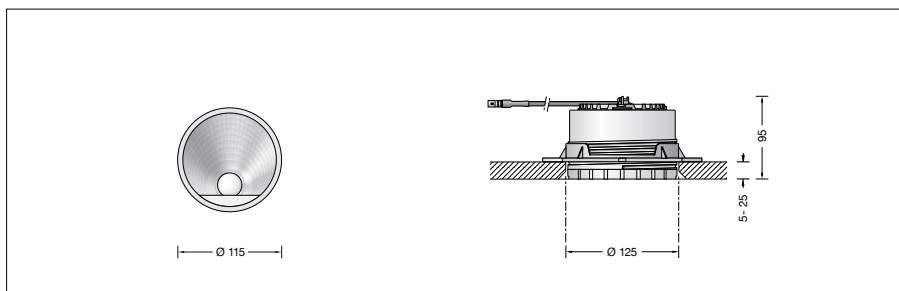
Module connected wattage	11.5 W
Luminaire connected wattage	13.5 W
Rated temperature	$t_a = 25 \text{ }^\circ\text{C}$
Ambient temperature	$t_{a \text{ max}} = 35 \text{ }^\circ\text{C}$
When installed in heat-insulating material	$t_{a \text{ max}} = 25 \text{ }^\circ\text{C}$

50 451.1 K3

Module designation	LED-800/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	2025 lm
Luminaire luminous flux	1550 lm
Luminaire luminous efficiency	114,8 lm/W

50 451.1 K4

Module designation	LED-800/840
Colour temperature	4000 K
Colour rendering index	CRI > 80
Module luminous flux	2080 lm
Luminaire luminous flux	1592 lm
Luminaire luminous efficiency	117,9 lm/W



Lifetime of the LED

Ambient temperature $t_a = 15 \text{ }^\circ\text{C}$
– at 50,000 h: L90 B50
– at 290,000 h: L70 B50

Ambient temperature $t_a = 25 \text{ }^\circ\text{C}$
– at 50,000 h: L80 B10
– at 240,000 h: L70 B50

max. ambient temperature $t_a = 35 \text{ }^\circ\text{C}$
– at 50,000 h: L80 B10
– at 240,000 h: L70 B50

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

Accessories

Power supply units for LED luminaires 220-240 V · 0/50-60 Hz with strain relief and plug connector system.

13 144 Power supply unit on/off
13 169 Power supply unit DALI

The power supply units are only suitable for the operation of one LED luminaire.

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