

BEGA**50 450.1**

Recessed ceiling luminaire for indoor use



Project · Reference number

Date

Product data sheet

Application

Recessed LED-ceiling luminaire · indoor luminaire with symmetrical wide beam light distribution for connection to external LED power supply unit. For flush installation in indoor suspended ceilings of 5-25 mm thickness.

Product description

LED recessed luminaire without power supply unit
Luminaire housing made of cast aluminium
The recessed housing is made of glass fibre reinforced synthetic material (polyamide).
Centre-plate made of rigid polystyrene foam
Reflector surface made of pure aluminium
Optical silicone lens
Metal ceiling frame ring, finish white enamel
Safety glass
Recessed opening \varnothing 184 mm
Recessed depth required 130 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 58°
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

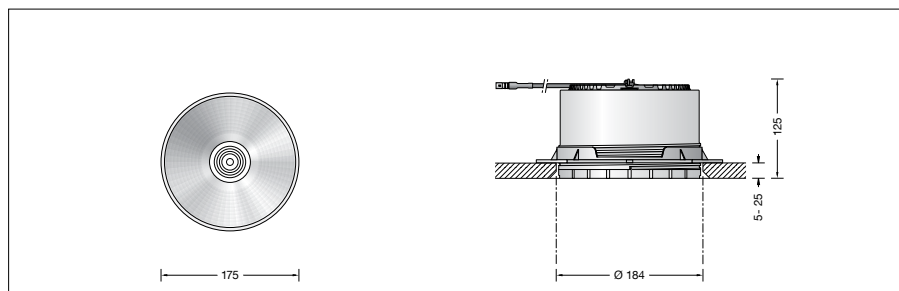
Module connected wattage	25 W
Luminaire connected wattage	29 W
Rated temperature	$t_a = 25 \text{ }^\circ\text{C}$
Ambient temperature	$t_{a \text{ max}} = 45 \text{ }^\circ\text{C}$
When installed in heat-insulating material	$t_{a \text{ max}} = 25 \text{ }^\circ\text{C}$

50 450.1 K3

Module designation	LED-0785/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	4365 lm
Luminaire luminous flux	3727 lm
Luminaire luminous efficiency	128,5 lm/W

50 450.1 K4

Module designation	LED-0785/840
Colour temperature	4000 K
Colour rendering index	CRI > 80
Module luminous flux	4480 lm
Luminaire luminous flux	3825 lm
Luminaire luminous efficiency	131,9 lm/W



Lifetime of the LED

Ambient temperature $t_a = 15 \text{ }^\circ\text{C}$
– at 50,000 h: L 80 B 10
– at 240,000 h: L 70 B 50

Ambient temperature $t_a = 25 \text{ }^\circ\text{C}$
– at 50,000 h: L 80 B 10
– at 190,000 h: L 70 B 50
max. ambient temperature $t_a = 45 \text{ }^\circ\text{C}$
– at 50,000 h: L 80 B 10
– at 190,000 h: L 70 B 50

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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.

13 145 Power supply unit on/off
13 171 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.