

BEGA**50 166.1**

Ceiling mounted downlight for indoor use



Project · Reference number

Date

Product data sheet

Application

Compact LED downlight · indoor luminaire with symmetrical wide beam light distribution. The used LED technique offers durability and optimal light output with low power consumption at the same time.

Product description

Die-cast aluminium and aluminium housing, finish white enamel
 Safety glass with optical structure
 Silicone gasket
 Reflector surface made of pure aluminium
 2 fixing holes \varnothing 4.8 mm
 70 mm spacing
 1 cable entry for mains supply cable up to \varnothing 10,5 mm max. $3 \times 1,5^{\square}$
 Connecting terminal 2.5^{\square}
 Earth conductor connection
 LED power supply unit
 220-240 V \sim 0/50-60 Hz
 Safety class I
 Protection class IP 65
 Dust-tight and protection against water jets
 Impact strength IK06
 Protection against mechanical impacts < 1 joule
 – Safety mark
 – Conformity mark
 Weight: 0.85 kg

Inrush current

Inrush current: 20 A / 170 μ s
 Maximum number of luminaires of this type per miniature circuit breaker:

B 10A: 31 luminaires
 B 16A: 50 luminaires
 C 10A: 52 luminaires
 C 16A: 85 luminaires

Lamp

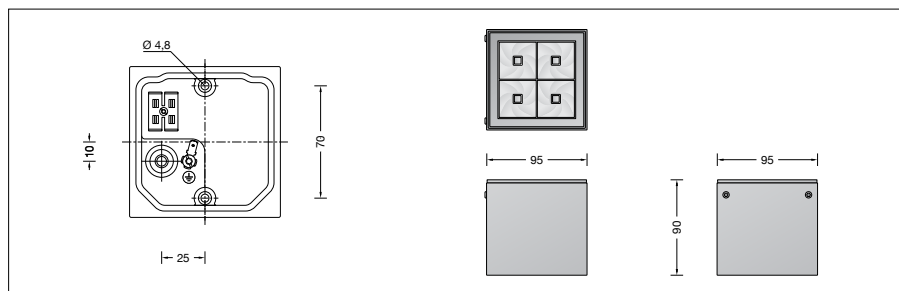
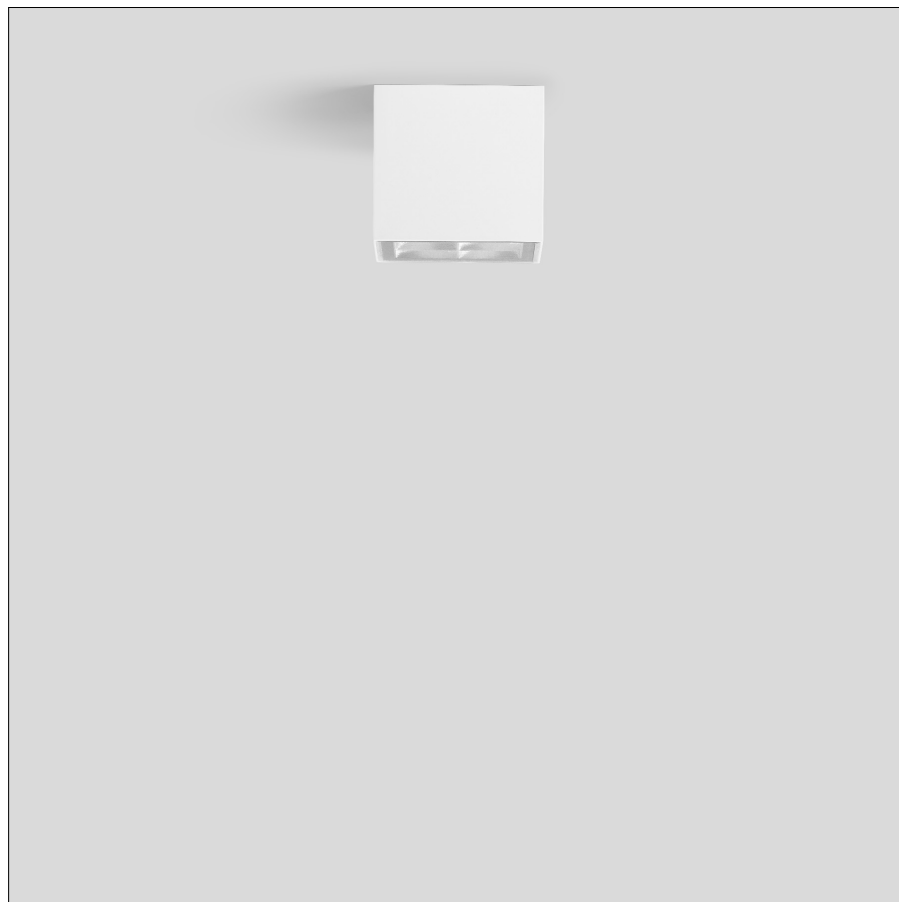
Module connected wattage 4.2 W
 Luminaire connected wattage 5.8 W
 Rated temperature $t_a = 25^{\circ}\text{C}$
 Ambient temperature $t_{a \text{ max}} = 45^{\circ}\text{C}$

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Module designation LED-0591/830
 Colour temperature 3000 K
 Colour rendering index $R_a > 80$
 Module luminous flux 490 lm
 Luminaire luminous flux 399 lm
 Luminaire luminous efficiency 68,8 lm/W

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Module designation LED-0591/840
 Colour temperature 4000 K
 Colour rendering index $R_a > 80$
 Module luminous flux 525 lm
 Luminaire luminous flux 427 lm
 Luminaire luminous efficiency 73,6 lm/W



Lifetime of the LED

Ambient temperature $t_a = 15^{\circ}\text{C}$
 – at 50,000 h: L90 B10
 – at > 500,000 h: L70 B50
 Ambient temperature $t_a = 25^{\circ}\text{C}$
 – at 50,000 h: L90 B10
 – at > 500,000 h: L70 B50

max. ambient temperature $t_a = 45^{\circ}\text{C}$
 – at 50,000 h: L90 B10
 – at 330,000 h: L70 B50

Lighting technology

Half beam angle 38° .
 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 the BEGA website www.bega.com.

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