

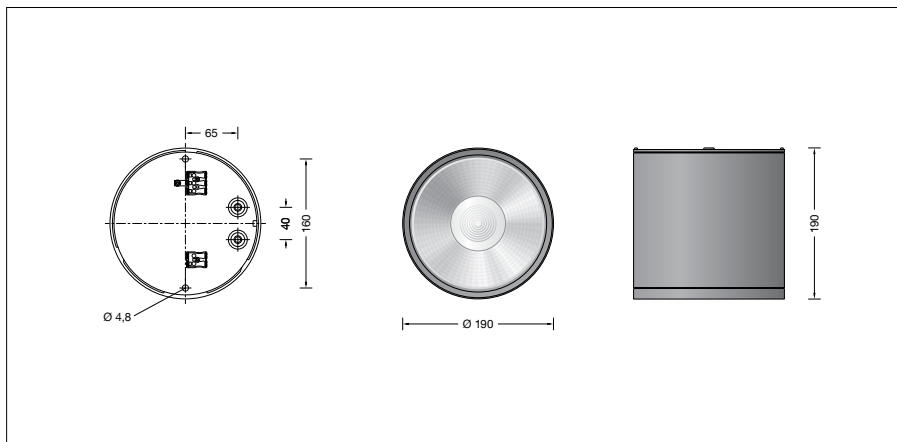
BEGA**24 421**

Ceiling mounted downlight



Project · Reference number

Date



Product data sheet

Product description

Luminaire made of aluminium alloy, aluminium and stainless steel
 BEGA Unidure® coating technology
 Colour graphite or white
 Clear safety glass
 Silicone gasket
 Reflector surface made of pure aluminium
 Optical silicone lens · BEGA Hybrid Optics®
 2 mounting holes $\varnothing$ 4.8 mm
 Distance apart 160 mm
 2 cable entries for through-wiring of mains supply cable $\varnothing$ 7-12 mm, max. 5x2,5²
 Connection terminal 2.5²
 Earth conductor connection
 BEGA Ultimate Driver®
 Complies with flicker requirements in accordance with IEEE 1789, DIN IEC/TR 63158, DIN IEC/TR 61547-1
 LED power supply unit
 220-240 V $\sim$ 0/50-60 Hz
 DC 176-280 V
 DALI-controllable
 Number of DALI addresses: 1
 Basic insulation is provided between the mains and control cables
 BEGA Thermal Control®
 Temporary thermal regulation to protect temperature-sensitive components without switching off the luminaire
 Safety class I
 Protection class IP 65
 Dust-tight and protection against water jets
 Impact strength IK08
 Protection against mechanical impacts < 5 joule
 – Safety mark
 – Conformity mark
 Weight: 2.9 kg
 This product contains light sources of energy efficiency class(es) D

Application

Compact downlight with symmetrical wide beam light distribution.

Light source

Module connected load	35.7 W
Luminaire connected load	39.7 W
Rated temperature	$t_a = 25^\circ\text{C}$
Ambient temperature	$t_{a\text{ max}} = 35^\circ\text{C}$

24 421 K3

Module designation	LED-0785/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	6010 lm
Luminaire luminous flux	4583 lm
Luminaire luminous efficiency	115,4 lm/W

24 421 K4

Module designation	LED-0785/840
Colour temperature	4000 K
Colour rendering index	CRI > 80
Module luminous flux	6165 lm
Luminaire luminous flux	4701 lm
Luminaire luminous efficiency	118,4 lm/W

Service life · Ambient temperature

Rated temperature $t_a = 25^\circ\text{C}$	
LED psu:	> 50,000 h
LED module:	200,000 h (L80 B50)
Ambient temperature max. $t_a = 35^\circ\text{C}$ (100 %)	
LED psu:	50,000 h
LED module:	165,000 h (L80 B50)

Ambient temperature max. $t_a = 50^\circ\text{C}$ (73 %)	
LED psu:	> 50,000 h
LED module:	> 50,000 h (L70 B50)

BEGA Thermal Control® protects temperature-sensitive luminaire components by temporarily limiting the nominal power at high temperatures.

Lighting technology

Half beam angle 34°
 Luminaire data for the DIALux lighting design program for outdoor lighting, street lighting and indoor lighting, as well as luminaire data in EULUMDAT and IES format are available on our website at www.bega.com.

Inrush current

Inrush current: 19.7 A / 280 μs
 Maximum number of luminaires of this type per miniature circuit breaker:
 B 10A: 11 luminaires
 B 16A: 18 luminaires
 C 10A: 18 luminaires
 C 16A: 29 luminaires

Ratio of luminous flux

Luminous flux upper half-space	0 %
Luminous flux lower half-space	100 %

BUG rating according to IES TM-15-20:
 3-0-0
 CEN Flux Code according to EN 13032-2:
 96-100-100-100-100

BEGA Hybrid Optics®

BEGA Hybrid Optics® offers complete lighting control thanks to optimized refraction and reflection. Precisely calculated reflectors with a pure aluminium surface and lenses, for example made of ultra-clear silicone or glass, capture almost every single light beam emitted by the LED modules. Maximum light efficiency is achieved via the synergy between lens and reflector technology.

Article No. 24 421

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

Colour optionally graphite or white
 Graphite – Article number
 White – Article number + **W**

Accessories

13644 Mounting frame for surface-mounted electrical installations
 The mounting frame is used for cable entry routing in surface-mounted electrical installations

A separate installation instructions can be provided upon request.

Light distribution