

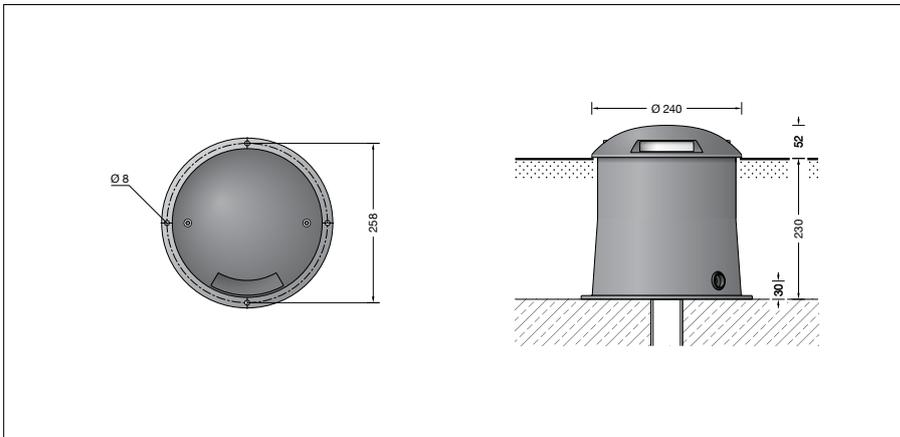
**BEGA****84 268**

In-ground luminaire



Project · Reference number

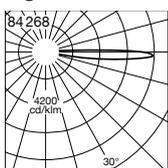
Date



## Product data sheet

**Product description**

Luminaires and installation housings made of highly corrosion-resistant aluminium  
 BEGA Tricoat® coating technology  
 Ring made of glass fibre reinforced synthetic material  
 Borosilicate glass  
 Reflector surface made of pure aluminium  
 Optical silicone lens · BEGA Hybrid Optics®  
 Recess housing with cable entries for cable conduit, max  $\varnothing$  20 mm  
 1,8 m water-resistant connecting cable 07RN8-F 5 G 1,5<sup>2</sup> with implemented water stopper and 1.2 m PVC cable conduit  
 BEGA Ultimate Driver®  
 LED power supply unit  
 220-240 V  $\sim$  0/50-60 Hz  
 DC 176-264 V  
 DALI controllable  
 A basic isolation exists between power cable and control line  
 BEGA Thermal Control®  
 Temporary thermal regulation to protect temperature-sensitive components without switching off the luminaire  
 Safety class I  
 Protection class IP 67  
 Dust-tight and protection against temporary immersion  
 Pressure load 4,000 kg (~40 kN)  
 Impact strength IK10  
 Protection against mechanical impacts < 20 joule  
 CE – Conformity mark  
 – Safety mark  
 Weight: 5.9 kg

**Light distribution****Application**

In-ground luminaire with single-sided light sector. For recessed mounting in compacted surfaces, paths and places.  
 An orientation and indication luminaire also for marking danger points.  
 Drive-over luminaire for vehicles with pneumatic tyres.

**Please note:**

Luminaire must not be used for installation in road lanes, where the fixture is exposed to a horizontal strain due to braking, acceleration and change of direction.

**Lamp**

Module connected wattage	8 W
Luminaire connected wattage	10.5 W
Rated temperature	$t_a = 25\text{ }^\circ\text{C}$
Ambient temperature	$t_{a\text{ max}} = 55\text{ }^\circ\text{C}$
When installed in heat-insulating material	$t_{a\text{ max}} = 50\text{ }^\circ\text{C}$

**84 268 K3**

Module designation	LED-1009/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	1150 lm
Luminaire luminous flux	135 lm
Luminaire luminous efficiency	12,9 lm/W

**84 268 K4**

Module designation	LED-1009/840
Colour temperature	4000 K
Colour rendering index	CRI > 80
Module luminous flux	1240 lm
Luminaire luminous flux	146 lm
Luminaire luminous efficiency	13,9 lm/W

**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.

**Inrush current**

Inrush current: 5 A / 100  $\mu\text{s}$   
 Maximum number of luminaires of this type per miniature circuit breaker:  
 B 10A: 56 luminaires  
 B 16A: 90 luminaires  
 C 10A: 56 luminaires  
 C 16A: 90 luminaires

**Light technique**

The optical system of the luminaire directs the light in a concentrated way horizontally to the lamp axis.  
 This results in a glare free illumination of the surface from lowest height.  
 The angle of reflected beam is 60°.

**Service life · Ambient temperature**

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

Ambient temperature  $t_{a\text{ max}} = 55\text{ }^\circ\text{C}$  (100 %)

LED psu:	50,000 h
LED module:	> 200,000 h (L.80 B 50) 100,000 h (L.90 B 50)

**BEGA Tricoat®**

BEGA Tricoat® is a protected trademark for a technology that we use in order to achieve optimal corrosion resistance. These carefully coordinated inorganic and organic coating processes applied to extremely resistant alloys ensure the best possible surface protection and outstanding corrosion resistance.

**Article No. 84 268**

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

**Accessories**

Distribution box for installation in soil  
**70 730** Distribution box with 7 cable entries  
 Connection terminals 5 x 4<sup>2</sup>  
**71 053** Distribution box with 10 cable entries  
 Connection terminals 6 x 16<sup>2</sup>