BEGA

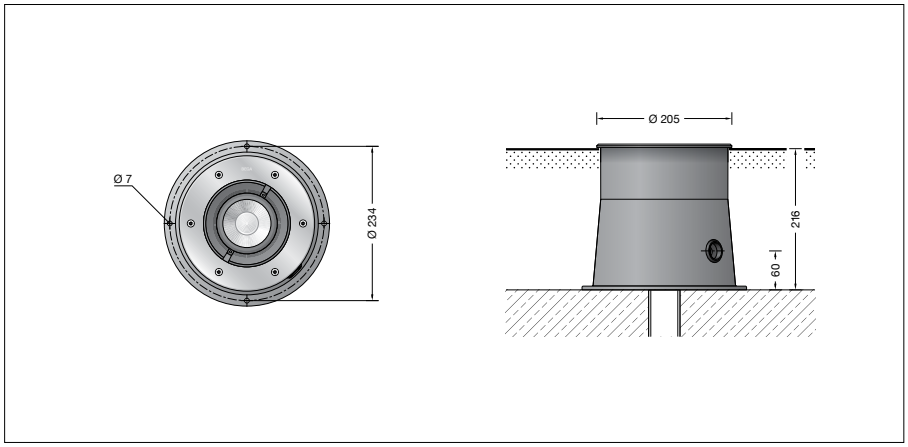
84 897

In-ground luminaire

IP 68

Project · Reference number

Date



Product data sheet

Application
Floodlight with adjustable light distribution. Adjustable tilt angle of the reflector allows optionally a symmetrical or asymmetrical light distribution.
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.
For walk-through public areas, we recommend skid-blocking glass
– see accessories.

Light technique
Recessed luminaire with adjustable optical system, 0-25° swivel-mounted and 360° infinitely rotatable.
Half beam angle 50°
Broad spread light distribution.
For special lighting applications, the symmetrical light cone can be changed to a flat beam using a diffuser lens.
Luminaire data for the light planning program DIALux for outdoor lighting, street lighting and indoor lighting, as well as luminaire data in EULUMDAT and IES format are available on the BEGA website at www.bega.com.

Inrush current
Inrush current: 5 A / 100 µs
Maximum number of luminaires of this type per miniature circuit breaker:
B 10 A: 56 luminaires
B 16 A: 90 luminaires
C 10 A: 56 luminaires
C 16 A: 90 luminaires

Product description
Luminaires and installation housings made of highly corrosion-resistant aluminium
BEGA Tricoat® coating technology
Cover ring made of stainless steel
Steel grade no. 1.4301
Ring made of glass fibre reinforced synthetic material
Clear safety glass
Reflector surface made of pure aluminium
Optical silicone lens · BEGA Hybrid Optics®
Optical system 0-25° swivel-mounted and infinitely rotatable
Recess housing with cable entry for cable conduit, max ø 20 mm
1,8 m water-resistant connecting cable 07RN8-F 5 G 1 □ with implemented water stopper and 1.2 m PVC cable conduit
BEGA Ultimate Driver®
LED power supply unit
220-240 V ∿ 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 68 10 m
Dust-tight and water pressure tight
Maximum submersion depth 10 m
Pressure load 5,000 kg (~50 kN)
Impact strength IK10
Protection against mechanical impacts < 20 joule
Maximum surface temperature 40 °C (measured according to EN 60598 of ta 15 °C)
CE – Conformity mark
IP 68 – Safety mark
Weight: 5.4 kg
This product contains light sources of energy efficiency classes C, D

Lamp

Module connected wattage	17.7 W
Luminaire connected wattage	19.7 W
Rated temperature	t_a = 25 °C
Ambient temperature	$t_{a\,max}$ = 50 °C
When installed in heat-insulating material	$t_{a\,max}$ = 30 °C

84 897 K27

Module designation	LED-1148/827
Colour temperature	2700 K
Colour rendering index	CRI > 80
Module luminous flux	2635 lm
Luminaire luminous flux	1918 lm
Luminaire luminous efficiency	97,4 lm/W

84 897 K3

Module designation	LED-1148/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	2770 lm
Luminaire luminous flux	2016 lm
Luminaire luminous efficiency	102,3 lm/W

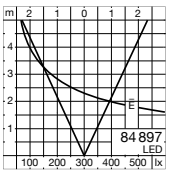
84 897 K4

Module designation	LED-1148/840
Colour temperature	4000 K
Colour rendering index	CRI > 80
Module luminous flux	2910 lm
Luminaire luminous flux	2118 lm
Luminaire luminous efficiency	107,5 lm/W

Service life · Ambient temperature
Rated temperature t_a = 25 °C
LED psu: > 50,000 h
LED module: 140,000 h (L 80 B 50)

Ambient temperature max. t_a = 50 °C (100 %)
LED psu: 50,000 h
LED module: 70,000 h (L 80 B 50)
100,000 h (L 70 B 50)

Light distribution



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 resistanc.

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.

Accessories
14001405R Skid-blocking glass
BEGA skid-blocking glass with the highest rating R 13 according to DIN 51130 can be used without restriction for all public areas. Abrasion resistance according to EN ISO 10545-7 Class 3

10 014 Exchangeable lens flat beam

Distribution box for installation in soil
70 730 Distribution box with 7 cable entries
Connection terminals 5 x 4□
71 053 Distribution box with 10 cable entries
Connection terminals 6 x 16□

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

Article No. 84 897
LED colour temperature optionally 2700 K, 3000 K or 4000 K
2700 K – Article number + **K27**
3000 K – Article number + **K3**
4000 K – Article number + **K4**

We supply this luminaire with skid-blocking glass which is denoted by **R** after the article number.