BEGA

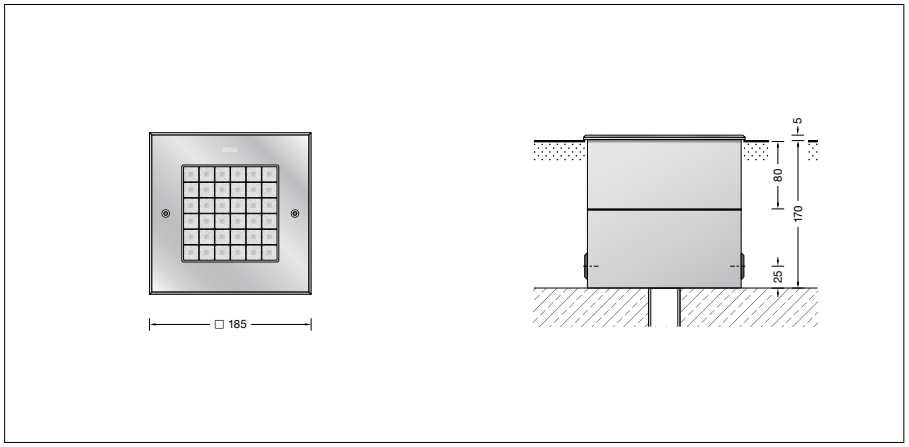
84 280

In-ground luminaire

IP 68

Project · Reference number

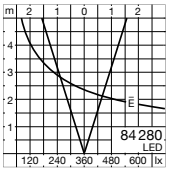
Date



Product data sheet

Product description
Luminaires and installation housings made of highly corrosion-resistant aluminium
BEGA Tricoat® coating technology
Frame made of glass fibre reinforced synthetic material
Cover frame made of stainless steel, steel grade number 1.4301
Recess housing with cable entry for cable conduit, max ø 20 mm
Clear safety glass
Reflector surface made of pure aluminium
BEGA Vortex Optics® .
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 35 °C (measured according to EN 60598 of ta 15 °C)
CE – Conformity mark
IK10 – Safety mark
Weight: 5.4 kg
This product contains light sources of energy efficiency class(es) C, D

Light distribution



Application
Floodlight with symmetrical narrow beam light distribution. For recessed mounting in compacted surfaces, paths and places.
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.
For walk-through public areas, we recommend skid-blocking glass
– see accessories.

Lamp

Module connected wattage	16.7 W
Luminaire connected wattage	18.7 W
Rated temperature	t_a = 25 °C
Ambient temperature	$t_{a\,max}$ = 50 °C
When installed in heat-insulating material	$t_{a\,max}$ = 25 °C

84 280 K27

Module designation	LED-0998/827
Colour temperature	2700 K
Colour rendering index	CRI > 80
Module luminous flux	2960 lm
Luminaire luminous flux	1263 lm
Luminaire luminous efficiency	67,5 lm/W

84 280 K3

Module designation	LED-0998/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	3090 lm
Luminaire luminous flux	1319 lm
Luminaire luminous efficiency	70,5 lm/W

84 280 K4

Module designation	LED-0998/840
Colour temperature	4000 K
Colour rendering index	CRI > 80
Module luminous flux	3265 lm
Luminaire luminous flux	1394 lm
Luminaire luminous efficiency	74,5 lm/W

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

Lighting technology
Half beam angle 24°
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.

Service life · Ambient temperature
Rated temperature t_a = 25 °C
LED psu: > 50,000 h
LED module: > 200,000 h (L 80 B 50)

Ambient temperature max. t_a = 50 °C (100 %)
LED psu: 50,000 h
LED module: 180,000 h (L 80 B 50)

BEGA Vortex Optics®
BEGA Vortex Optics® features newly developed twisted reflectors with a surface made of pure aluminium.
The more intense concentration of the light enables perfect light deflection.
This makes it possible to achieve optimal light distribution without artefacts.
Thanks to excellent glare control, BEGA Vortex Optics® offers outstanding visual comfort.
The interaction with the LED modules produces extraordinary lighting results.

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.

Accessories

14001410R Skid-blocking glass
in accordance with EN ISO 51130 R13
Surface abrasion in accordance with
EN ISO 10545-7: Category II
Anti-slip protection in accordance with
DIN 51097 Class C

70 730 Distribution box for installation in soil
with 7 cable entries
Connection terminals 5 x 4□

A separate instructions for use can be provided upon request.

Article No. 84 280
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.