BEGA

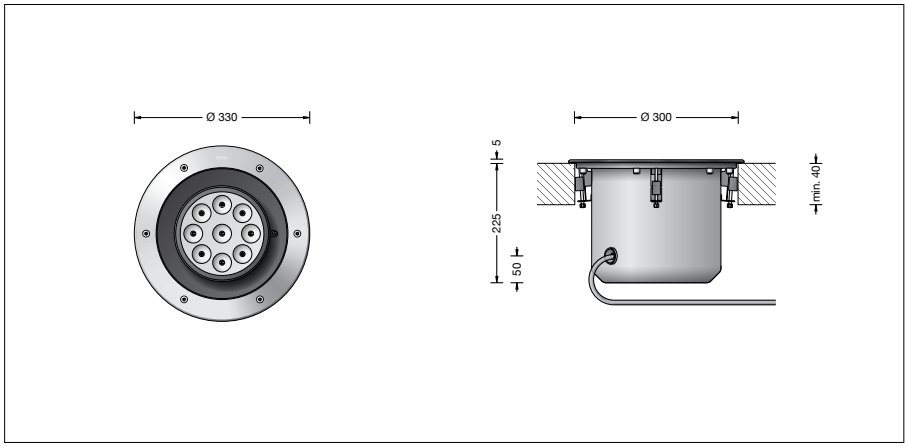
77 130

In-ground luminaire

IP 68

Project · Reference number

Date



Product data sheet

Application
In-ground floodlight with swivel-mounted and rotatable LED optical system. The adjustable tilt angle of the reflector allows optionally a symmetrical or asymmetrical light distribution. Luminaire for installation in cut-outs in floor sections. 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.

Accessories
14000233R 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

Exchangeable lenses
10 048 wide beam
10 019 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.

Product description
Luminaire made of stainless steel
Steel grade no. 1.4301
Clear safety glass
Reflector surface made of pure aluminium
Required recessed opening ø 300 mm
Minimum material thickness 40 mm
Fixing is achieved by using four wedge-shaped clamping elements
1,8 m water-resistant connecting cable 07RN8-F 5G1□ with implemented water stopper and 1.2 m PVC cable conduit
LED power supply unit
220-240 V ∿ 0/50-60 Hz
DC 176-276 V
DALI controllable
A basic isolation exists between power cable and control line
Safety class I
Protection class IP 68 10 m
Dust-tight and water pressure tight
Maximum submersion depth 10 m
Not suitable for permanent operation under water
Pressure load 2,000 kg (~20 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: 8.9 kg

Light technique
In-ground floodlight with adjustable optical system.
Optical system 0-30° swivel-mounted in 3° steps and ± 180° infinitely rotatable.
Narrow beam rotationally symmetrical light distribution. Half beam angle 13°
For special lighting tasks it is possible to change the narrow beam light cone into a wide beam or flat beam light distribution by using diffuser lenses.
For wide beam light distribution:
Diffuser lens **10 048**, half beam angle 29°
For flat beam light distribution:
Diffuser lens **10 019**, half beam angle 17°/34°
Light cone ± 90°rotatable.

Lamp

Module connected wattage	17.2 W
Luminaire connected wattage	20.5 W
Rated temperature	t_a = 25 °C
Ambient temperature	$t_{a\,max}$ = 45 °C

On request we can offer you modifications for enviroments with higher temperatures as a customized product.

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Module designation	LED-0446/840
Colour temperature	4000 K
Colour rendering index	CRI > 80
Module luminous flux	3015 lm
Luminaire luminous flux	1377 lm
Luminaire luminous efficiency	67,2 lm/W

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Module designation	LED-0446/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	2745 lm
Luminaire luminous flux	1254 lm
Luminaire luminous efficiency	61,2 lm/W

Service life · Ambient temperature
Rated temperature t_a = 25 °C
LED psu: > 50,000 h
LED module: > 200,000 h (L80 B50)
100,000 h (L90 B50)

Ambient temperature $t_{a\,max}$ = 45 °C (100 %)
LED psu: 50,000 h
LED module: > 200,000 h (L80 B50)
100,000 h (L90 B50)

Inrush current
Inrush current: 20 A / 100 µs
Maximum number of luminaires of this type per miniature circuit breaker:
B 10 A: 33 luminaires
B 16 A: 55 luminaires
C 10 A: 33 luminaires
C 16 A: 55 luminaires

Article No. 77 130
LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number + **K4**
3000 K – Article number + **K3**

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

Light distribution