

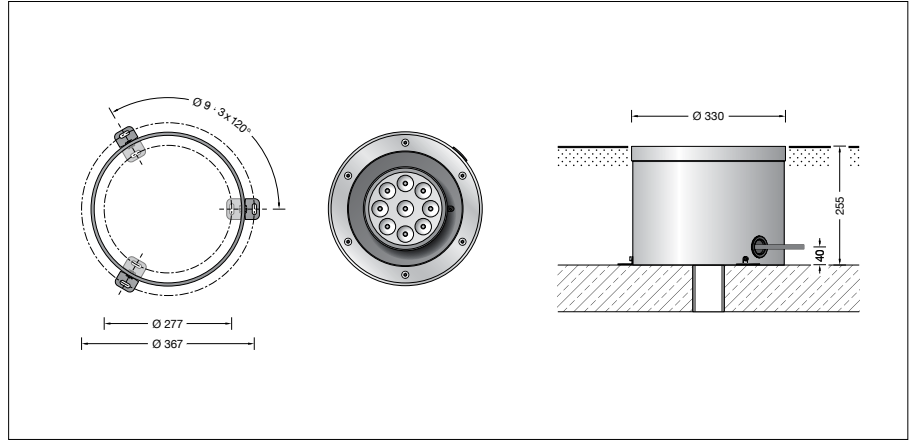
BEGA**77 852**

In-ground luminaire



Project · Reference number

Date



Product data sheet

Application

Heavy-duty in-ground LED floodlight with adjustable light distribution for flush-mounting installation in compacted surfaces, paths and open areas. Drive-over luminaire for vehicles with pneumatic tyres.

Luminaire made of stainless steel and cast stainless steel, characterised by extremely high pressure load of 5,000 kg (50 kN).

– BEGA patent EP 2418419 –

We recommend skid-blocking glass for walk-over public areas – see accessories.

Product description

Luminaire made of cast stainless steel and stainless steel

Steel grade number 1.4301

Clear safety glass

Reflector surface made of pure aluminium

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

Pressure load 5,000 kg (50 kN)

Impact strength IK10

Protection against mechanical impacts < 20 joule

Maximum surface temperature 45 °C

(measured according to EN 60598 of $t_a = 15\text{ °C}$)

CE – Conformity mark

– Safety mark

Weight: 17.0 kg

Lamp

Module connected wattage 17.2 W

Luminaire connected wattage 20.5 W

Rated temperature $t_a = 25\text{ °C}$

Ambient temperature $t_{a,max} = 45\text{ °C}$

When installed in heat-insulating material $t_{a,max} = 25\text{ °C}$

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

77 852 K4

Module designation LED-0446/840

Colour temperature 4000 K

Colour rendering index CRI > 80

Module luminous flux 3015 lm

Luminaire luminous flux 1347 lm

Luminaire luminous efficiency 65,7 lm/W

77 852 K3

Module designation LED-0446/830

Colour temperature 3000 K

Colour rendering index CRI > 80

Module luminous flux 2745 lm

Luminaire luminous flux 1226 lm

Luminaire luminous efficiency 59,8 lm/W

Service life of the LED

Ambient temperature $t_a = 25\text{ °C}$

– at 200,000h: L70B50

max. ambient temperature $t_a = 45\text{ °C}$

– at 200,000h: L70B50

Inrush current

Inrush current: 20 A / 100 μs

Maximum number of luminaires of this

type per miniature circuit breaker:

B 10A: 33 luminaires

B 16A: 55 luminaires

C 10A: 33 luminaires

C 16A: 55 luminaires

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 15°

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 **10048**

For flat beam light distribution:

Diffuser lens **10019**

Light cone ± 90° rotatable.

Article No. 77 852

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.

Accessories

14000841R 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

10048 Diffuser lens wide beam

10019 Diffuser lens flat beam

Distribution box for installation in soil

70730 Distribution box with 7 cable entries

Connection terminals 5 x 4[□]

71053 Distribution box with 10 cable entries

Connection terminals 6 x 16[□]

For the accessories a separate instructions

for use can be provided upon request.

Light distribution

