

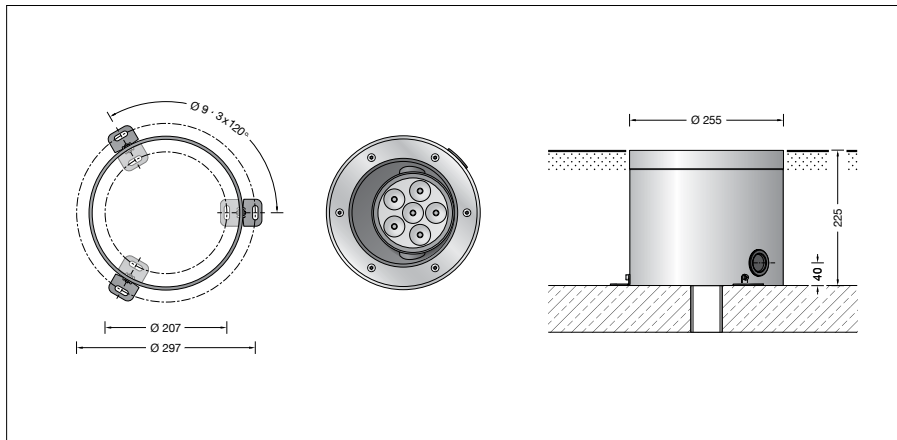
**BEGA****77 629**

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 –

For walk-through public areas, we recommend skid-blocking glass – 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 5 G.1<sup>□</sup> with implemented water stopper and 1.2 m PVC cable conduit

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<sup>®</sup>

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

Not suitable for permanent operation under water

Pressure load 5,000 kg (~50 kN)

Impact strength IK10

Protection against mechanical

impacts < 20 joule

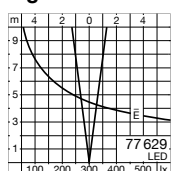
Maximum surface temperature 35 °C

(measured according to EN 60598 of  $t_a = 15$  °C)

CE – Conformity mark

– Safety mark

Weight: 11.0 kg

**Light distribution****Lamp**

Module connected wattage 11.5 W  
Luminaire connected wattage 13.8 W  
Rated temperature  $t_a = 25$  °C  
Ambient temperature  $t_{a,max} = 40$  °C  
When installed in heat-insulating material  $t_{a,max} = 30$  °C

**77 629 K4**

Module designation LED-0604/840  
Colour temperature 4000 K  
Colour rendering index CRI > 80  
Module luminous flux 2010 lm  
Luminaire luminous flux 1046 lm  
Luminaire luminous efficiency 75,8 lm/W

**77 629 R K4**

Module designation LED-0604/840  
Colour temperature 4000 K  
Colour rendering index CRI > 80  
Module luminous flux 2010 lm  
Luminaire luminous flux 840 lm  
Luminaire luminous efficiency 60,9 lm/W

**77 629 K3**

Module designation LED-0604/830  
Colour temperature 3000 K  
Colour rendering index CRI > 80  
Module luminous flux 1830 lm  
Luminaire luminous flux 952 lm  
Luminaire luminous efficiency 69 lm/W

**77 629 R K3**

Module designation LED-0604/830  
Colour temperature 3000 K  
Colour rendering index CRI > 80  
Module luminous flux 1830 lm  
Luminaire luminous flux 765 lm  
Luminaire luminous efficiency 55,4 lm/W

**Service life of the LED**

Ambient temperature  $t_a = 25$  °C  
– at 200,000h: L70 B50

max. ambient temperature  $t_a = 40$  °C  
– at 200,000h: L70 B50

Ambient temperature  $t_{a,max} = 50$  °C (90 %)

LED psu: 50,000h

LED module: 50,000h

BEGA Thermal Control<sup>®</sup> protects temperature-sensitive luminaire components by temporarily limiting the nominal power at high temperatures.

**Inrush current**

Inrush current: 5 A / 100  $\mu$ 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**

In-ground floodlight with adjustable optical system.

Optical system 0 - 30° swivel-mounted in 3° steps and  $\pm 180^\circ$  infinitely rotatable.

Narrow beam rotationally symmetrical light distribution. Half beam angle 16°

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 **70 273**

For flat beam light distribution:

Diffuser lens **70 274**

Light cone  $\pm 90^\circ$  rotatable.

**Article No. 77 629**

LED colour temperature optionally 4000K or 3000K

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**

**14000829R** 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

**70 273** Diffuser lens wide beam

**70 274** Diffuser lens flat beam

Distribution box for installation in soil

**70 730** Distribution box with 7 cable entries

Connection terminals 5 x 4<sup>□</sup>

**71 053** Distribution box with 10 cable entries

Connection terminals 6 x 16<sup>□</sup>

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