BEGA

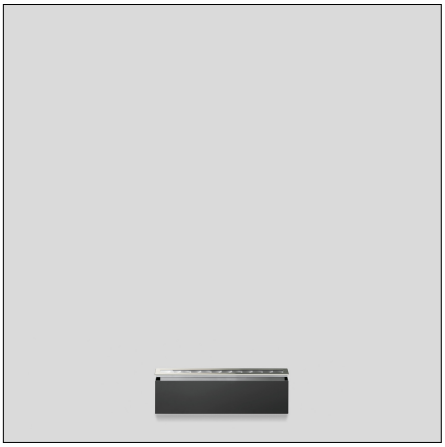
84 165

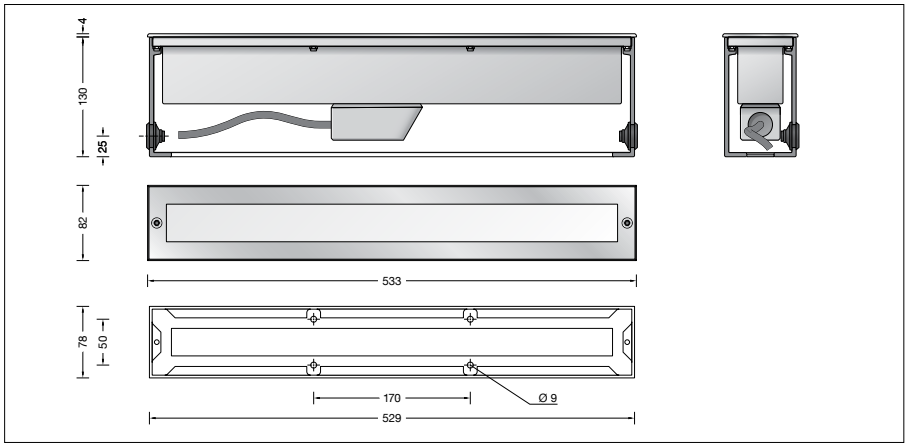
In-ground luminaire

IP 67

Project · Reference number

Date

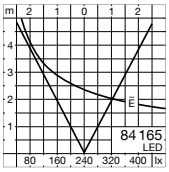




Product data sheet

Product description
Luminaire made of aluminium alloy, aluminium and stainless steel
Cover frame made of stainless steel, steel grade number 1.4301
Recess housing with cable entry for cable conduit, max ø 20 mm
Matt safety glass
BEGA Vortex Optics® .
Reflector surface made of pure aluminium
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 67
Dust-tight and protection against temporary immersion
Pressure load 1,000 kg (~10 kN)
Impact strength IK09
Protection against mechanical impacts < 10 joule
Maximum surface temperature 25 °C (measured according to EN 60598 of ta 15 °C)
CE – Conformity mark
10 – Safety mark
Weight: 5.4 kg
This product contains light sources of energy efficiency class(es) C

Light distribution



Application
Floodlight with symmetrical 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.

Lamp

Module connected wattage	15.8 W
Luminaire connected wattage	18.3 W
Rated temperature	t_a = 25 °C
Ambient temperature	$t_{a\,max}$ = 55 °C
When installed in heat-insulating material	$t_{a\,max}$ = 35 °C

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Module designation	2x LED-0771/827
Colour temperature	2700 K
Colour rendering index	CRI > 80
Module luminous flux	2860 lm
Luminaire luminous flux	1822 lm
Luminaire luminous efficiency	99,6 lm/W

84 165 K3

Module designation	2x LED-0771/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	2950 lm
Luminaire luminous flux	1879 lm
Luminaire luminous efficiency	102,7 lm/W

84 165 K4

Module designation	2x LED-0771/840
Colour temperature	4000 K
Colour rendering index	CRI > 80
Module luminous flux	3030 lm
Luminaire luminous flux	1930 lm
Luminaire luminous efficiency	105,5 lm/W

Lighting technology
Half beam angle 55°
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)
	100,000 h (L 90 B 50)

Ambient temperature max. t_a = 55 °C (100 %)

LED psu:	50,000 h
LED module:	37,000 h (L 80 B 50)
	57,000 h (L 70 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.

Inrush current
Inrush current: 5 A / 100 µs
Maximum number of luminaires of this type per miniature circuit breaker:

B 10 A:	42 luminaires
B 16 A:	68 luminaires
C 10 A:	42 luminaires
C 16 A:	68 luminaires

Article No. 84 165
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**

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