

solar light



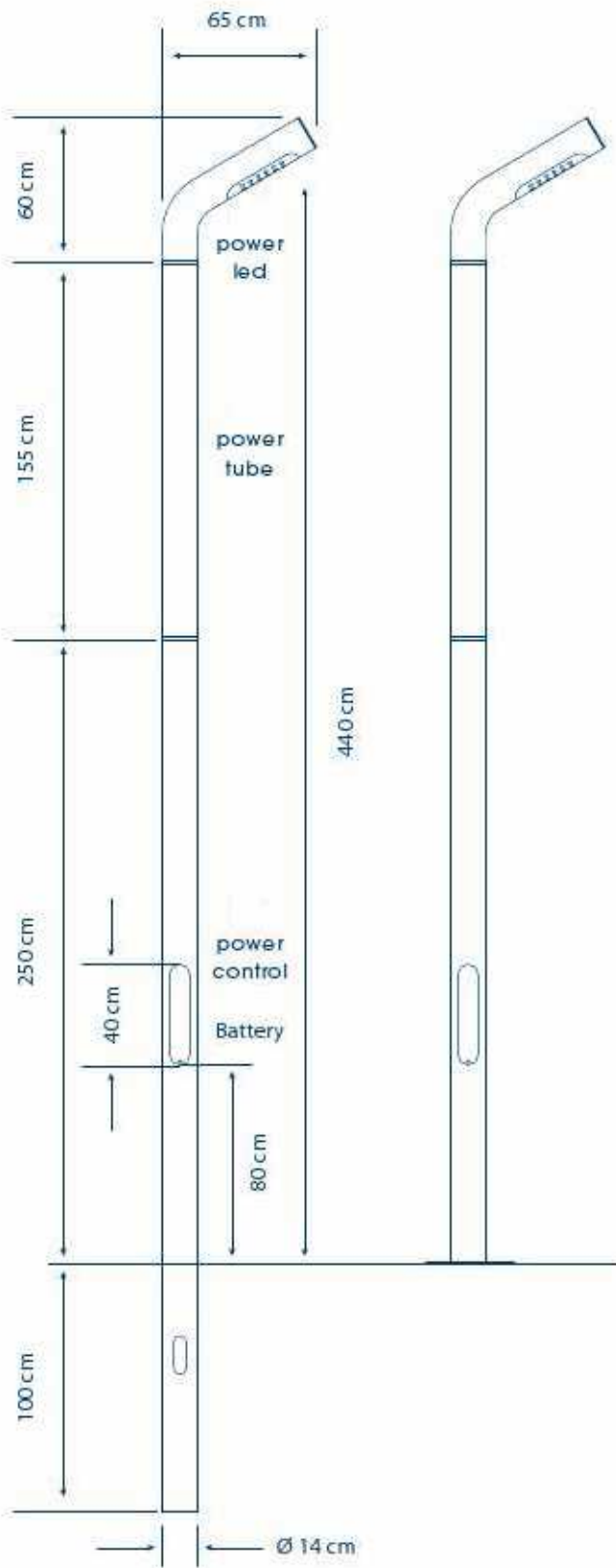
technical  
data

series 50

**blue s**

100

## dimensions



## product specification

blue s 100 is an independent and self-sufficient solar light for professional exterior lighting systems. It is equipped with a highly modern LED- and photovoltaic-technology. The solar light blue s 100 provides a lengthwise aligned light distribution, which is perfect to suit the requirements of bicycle paths and pavements. Due to the unique energy management system of solar light , blue s 100 guarantees operating reliability under all weather conditions and is also suitable for locations with moderate insolation.

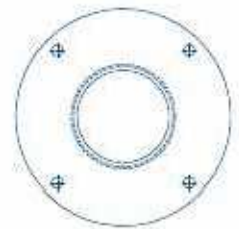
blue s 100 is available with the following additional options:

- Motion detector for customer-specific light distribution
- Part-solar version for locations with poor lighting conditions (from 2010)
- Remote maintenance and remote control (from 2010)

## light pole versions

### Round ground plate

diameter: 350 mm  
hole spacing: 215 mm



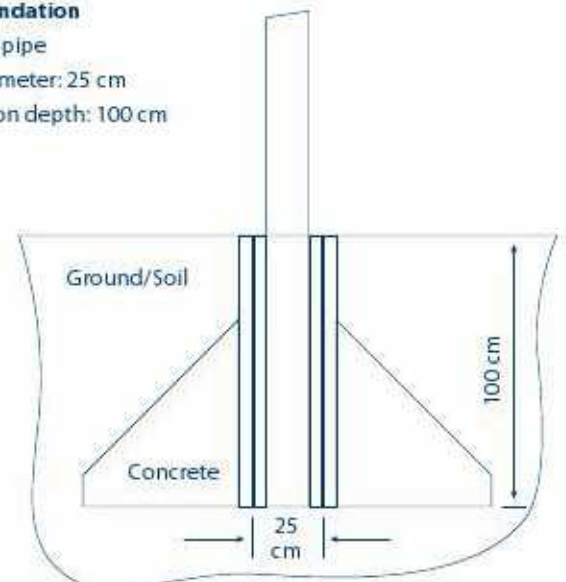
### Standard ground plate

according to EN 40-2  
dimensions: 300 x 300 x 10 mm  
hole spacing: 215 mm



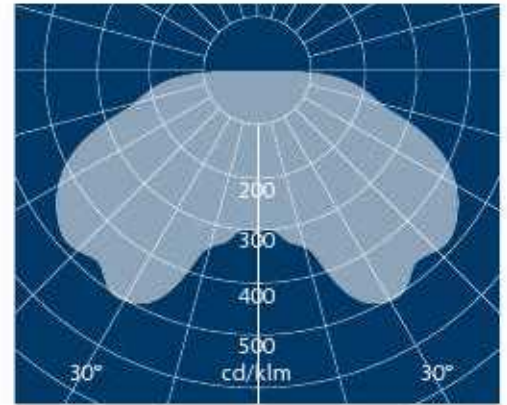
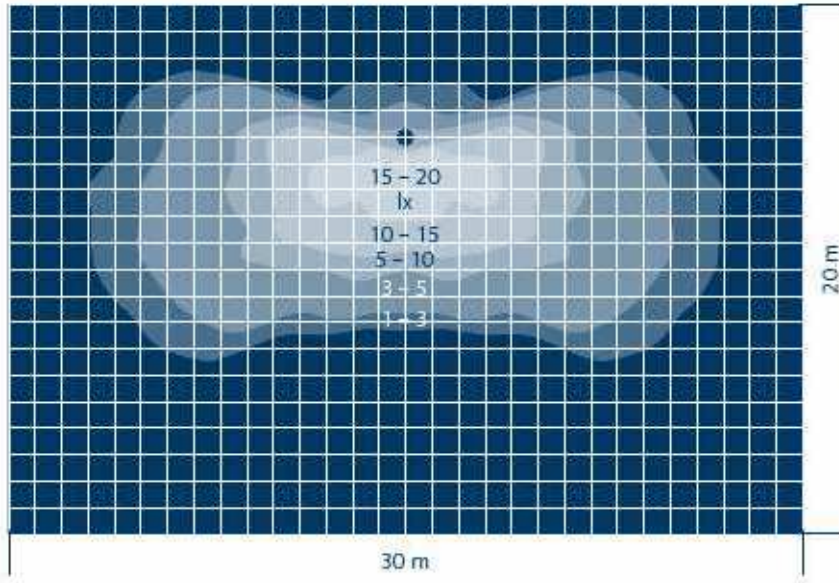
### Pipe foundation

concrete pipe  
inner diameter: 25 cm  
installation depth: 100 cm



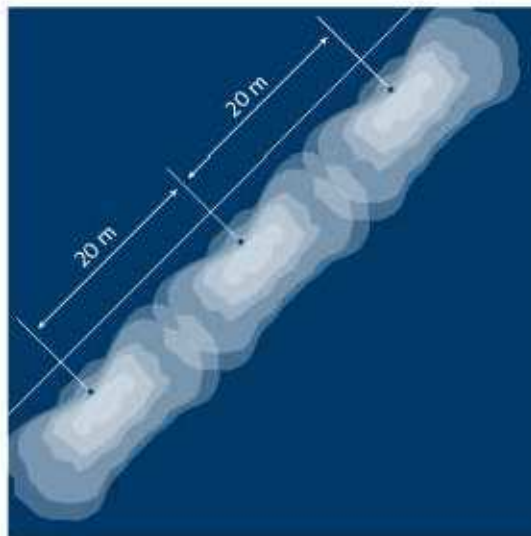
# light distribution

Light distribution: lengthwise aligned Light spot height: 4.40 m



# installation example

Distance between lights: 20 m Average illuminance: 6.2 lx



# illuminance

at full operation path-width: 4 m

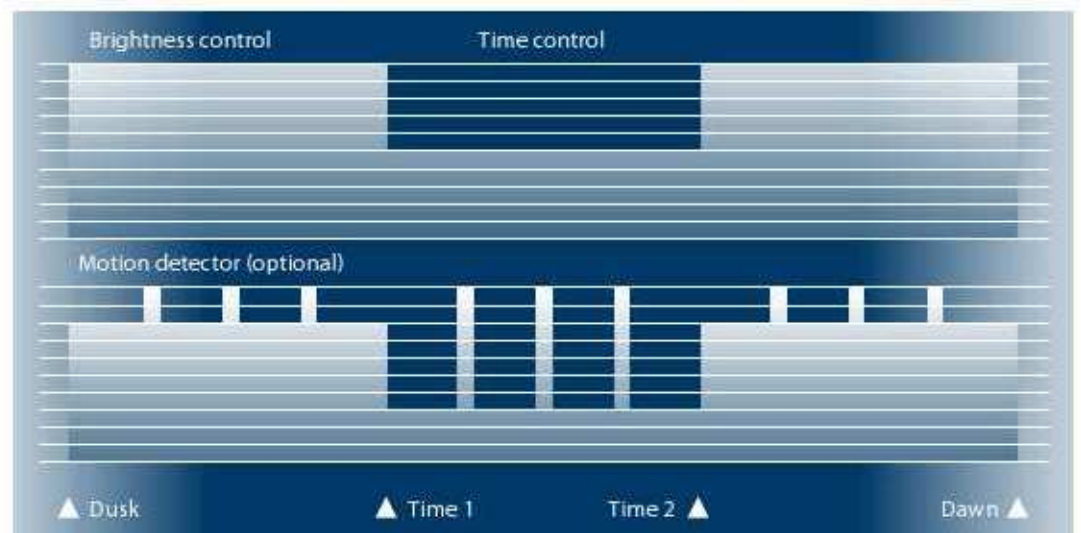
distance [m]	area [sqm]	$E_{av}$ [lx]	$E_{min}$ [lx]
10	40	12	5.2
15	60	8.2	3.9
20	80	6.2	1.8
25	100	5	1
30	120	4.2	0.5
40	160	3.1	0.2
50	200	2.5	0.1

$E_{av}$  [lx]: average illuminance

$E_{min}$  [lx]: minimum illuminance

# illumination management

Customer-specific brightness control can be set individually.



# technical data

Model / Type		blue s 100
<b>System</b>		
Installation height	4.65 m	
Light spot height	4.40 m	
Diameter of light pole	140 mm	
Light pole	steel, hot-dip galvanized, paint-coated, (stainless steel, aluminium optional)	
Light pole color	RAL 9006, white aluminium (standard)	
Light head color	RAL 9005, deep black (standard)	
Installation	foundation (ground plate optional)	
Weight	120 kg	
<b>power led</b>		
Illuminant	12 high-efficiency LEDs (18 optional)	
Light distribution	lengthwise aligned	
max. power	12 Watt (18 Watt optional)	
max. luminous flux	1,080 Lumen (up to 2,160 Lumen optional)	
Energy conversion efficiency	82 %	
LED-light temperature	cool-white, 6,500 Kelvin (standard) (neutral-white, 4,100 Kelvin; warm-white, 3,100 Kelvin optional)	
typ. service life (part load)	> 75,000 hrs	
typ. illuminance	up to 15 lx (up to 30 lx optional)	
Illumination area	typ. 60 – 150 sqm	
<b>power tube</b>		
Height PV-module	1.5 m	
Diameter PV-module	140 mm	
PV-Technology	silicium-solar cells	
Number of PV-cells	33 pcs	
Nominal power output	100 Wp	
<b>power control</b>		
Programmable microcontroller	✓	
Dynamic light profile	customer-specific	
Motion detector	optional	
Capacity of battery	12 V/32 Ah (standard)	
Technology of battery	lead-acid	
<b>Standards / Compliances</b>		
Degree of protection PV module	IK06	
Certification light pole	EN 40-5, EN 40-3-1, ISO 1461	
Certification electronics	IP43 (IP65 optional)	
EMV	EN 55015, EN 61547	
PV-standard	EN 61215 (adaptiert)	
Temperature range	- 15° C bis +50° C	
CE-certification	✓	



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