

# SS4s

## SOLAR LED STREET LIGHT

THE USE OF THE POWER OF THE SUN IS A GREAT CHALLENGE. THE AUTONOMOUS STREET LIGHTS OF THE SS FAMILY PROVIDE YOU WITH THIS FACILITY.

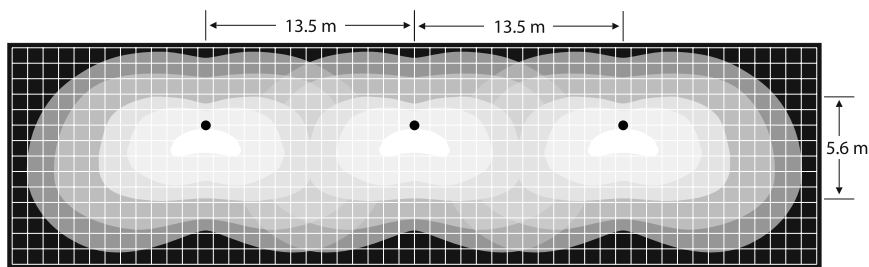
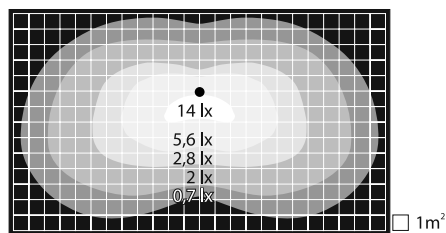
YOU MAY USE SS4s FOR LIGHTING DIFFERENT PUBLIC AND PRIVATE SITES, PARKS, ALLEYS, QUAYS, AREAS BETWEEN BUILDINGS.

MAINTENANCE FREE SYSTEM.

SS4s IS AN INNOVATIVE, HIGH-TECH PRODUCT WITH A MODERN DESIGN AND UNIVERSAL APPLICATION FOR LIGHTING DIFFERENT AREAS.



SS4As 1000 lm  $h^* = 3.4$  m

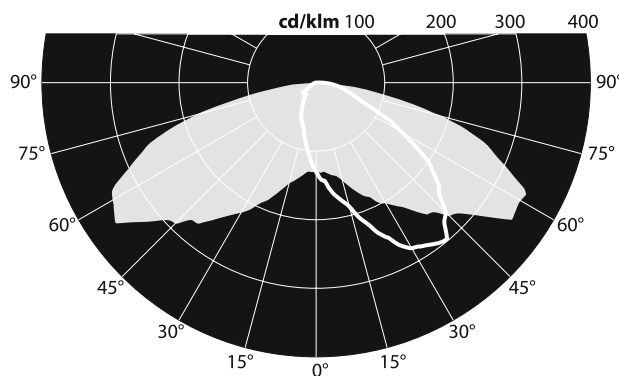


### Illuminance

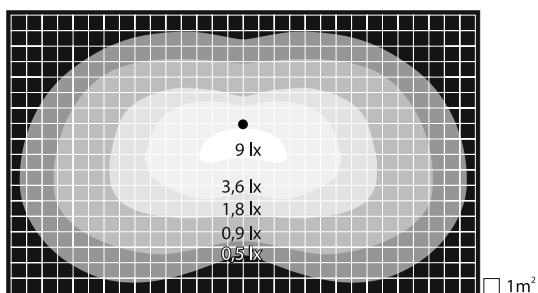
distance [ m ]	path with [ m ]	area [ m <sup>2</sup> ]	E <sub>max</sub> [ lx ]	E <sub>min</sub> [ lx ]	k <sup>**</sup>
13.5	5.6	76	14	7	0.5
15.2	6.7	102	14	5.6	0.4
16.8	7.8	131	14	4.2	0.3
20	9	180	14	0.7	-

Average illuminance measured at 1.5 m above the surface  $E_{mid} = 40$  lx

$k = 0.5$



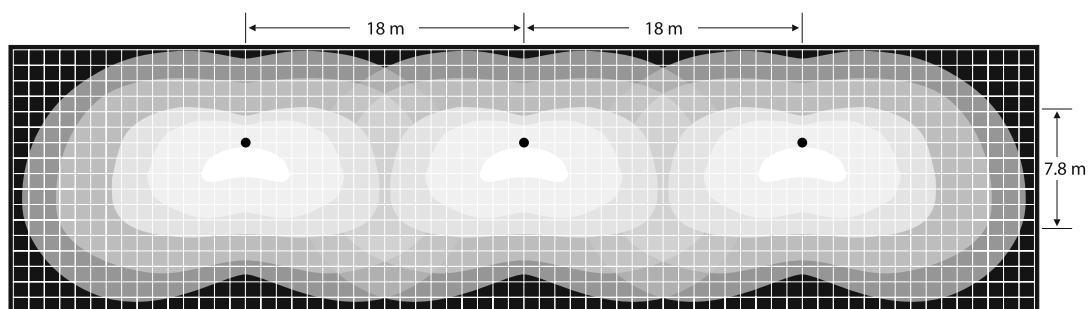
SS4As 1000 lm  $h^* = 4.5$  m



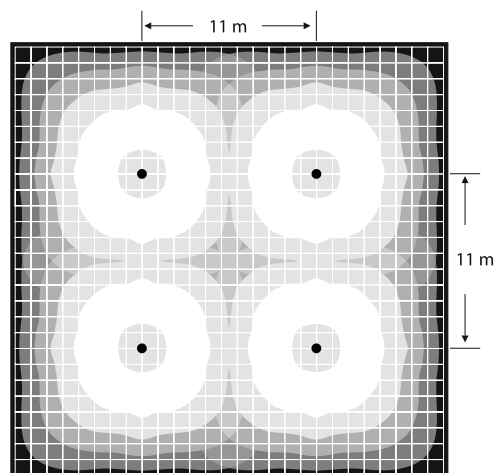
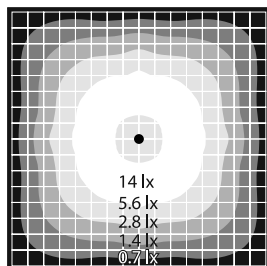
### Illuminance

distance [ m ]	path with [ m ]	area [ m <sup>2</sup> ]	E <sub>max</sub> [ lx ]	E <sub>min</sub> [ lx ]	k <sup>**</sup>
18	7.8	141	9	4.5	0.5
20	8.9	178	9	3.6	0.4
22.4	10	224	9	2.7	0.3
28	11.2	313	9	0.5	-

Average illuminance measured at 1.5 m above the surface  $E_{mid} = 34$  lx



SS4Ps 1000 lm  $h^* = 3.4$  m

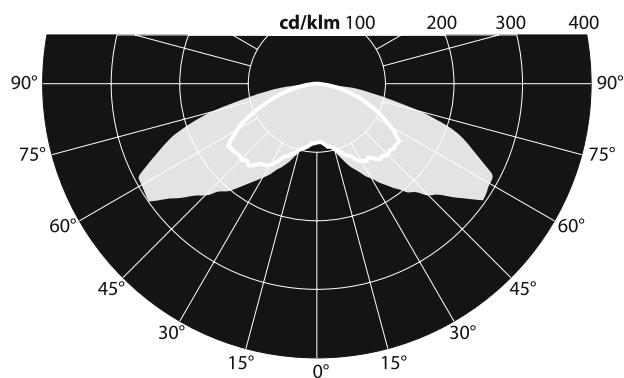


### Illuminance

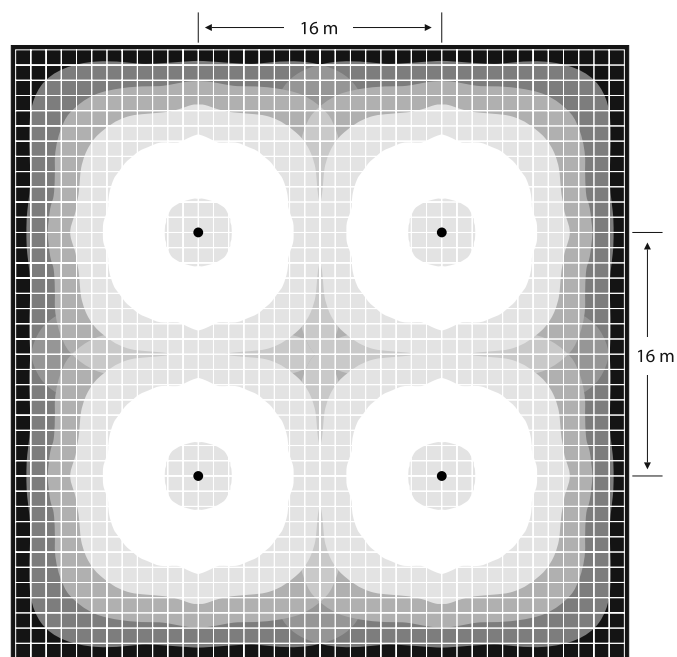
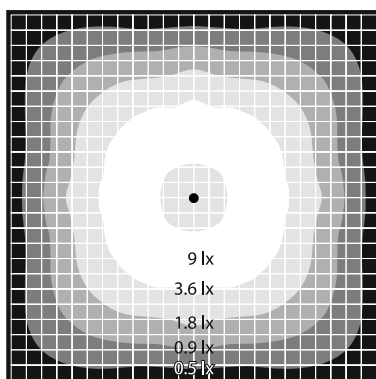
distance [m]	area [m <sup>2</sup> ]	E <sub>max</sub> [lx]	E <sub>min</sub> [lx]	k <sup>**</sup>
11	122	13	5.2	0.4
16	250	13	0.6	-

Average illuminance measured at 1.5 m above the surface  $E_{mid} = 36$  lx

$k = 0.4$



SS4Ps 1000 lm  $h^* = 4.5$  m



### Illuminance

distance [m]	area [m <sup>2</sup> ]	E <sub>max</sub> [lx]	E <sub>min</sub> [lx]	k <sup>**</sup>
16	250	7	2.8	0.4
22	480	7	0.4	-

Average illuminance measured at 1.5 m above the surface  $E_{mid} = 24$  lx

\* h - light spot height

\*\* k - coefficient of brightness uniformity

# SS4s

## FEATURES

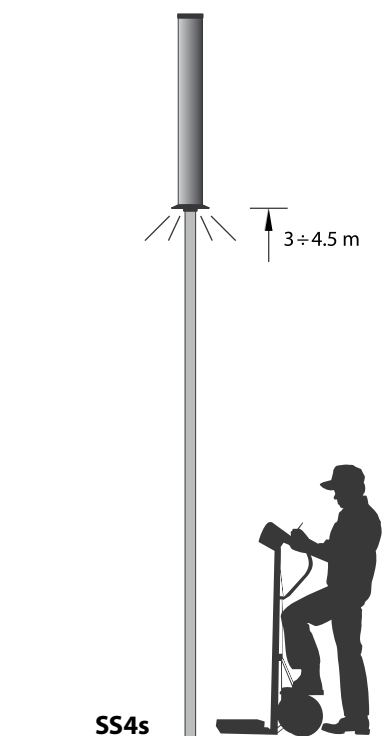
- Compact design – all components are in one common body.
- Handiness for storage and transport.
- Facility for installation on different poles and on places as per clients request.
- Facility for installation on existing poles.
- Facility for intelligent (mixed) power supply.
- Maximum efficiency in using the maximum sun lighting at the different latitudes.
- 2 different types of light spread up to 250 m<sup>2</sup>: P and A.
- Possibility for connecting of a in motion detector.
- Automatic night/day on/off & economy late night dimming.
- Autonomy in nominal mode 38 hours (3.2 nights)
- Autonomy in late night dimming mode 54 hours (4.5 nights):  
 Factory preset: 50 % illuminance decreasing after 4 hours till 1 h before dawn;  
 User specified: illuminance decreasing 20 ÷ 90 %;  
                           dimming start 2 ÷ 8 hours;  
                           dimming stop 0.5 ÷ 3 h before dawn.
- Remote control available
- Operating temperature from -35° up to +70°C
- Maximum air humidity 95 %
- Protection category IP 65

## LIGHT SOURCE

LED Power	10.5 W
Led driver Power Efficiency	96 %
Total Power	11 W
LED Light Output	139 lm/W
Current Efficiency	74 %
LED Luminous Flux	1156 lm
Junction Temperature at Ta = 25°C	55°C
Thermal Efficiency	94 %
Lens Efficiency	92 %
Real Luminaire Efficacy (LER)	89 lm/W
Color Rendering Index (CRI)	65 ÷ 80
Real Lamp Luminous Flux for:	
Cool White (4000 ÷ 6200 K)	1000 lm
Neutral White (3700 ÷ 5000 K)	937 lm
Warm White (2600 ÷ 4300 K)	787 lm
Zero Light Pollution	0 cd at 90°
Lifespan L70	120 000 h (27 years)

## BATTERY

Type	Sealed maintenance free, Flame retardant, Lithium technology
Capacity	40 Ah
Nominal voltage	10V
Charging	built in intelligent charge controller (BMS & MPPT)
Lifespan	22 years (8 000 charging cycles)



Recommended height for installation on the pole

## SOLAR CHARACTERISTICS

Solar Module Type	Monocrystalline
Peak Power	58 Wp
Life Expectancy	25 years

## PHYSICAL CHARACTERISTICS – LIGHTS

Body Material	Aluminum cast alloy + Polycarbonate UV stabilized
Height	1240 mm
Tube Diameter	ø 160 mm
Diameter	ø 276 mm
Diameter of the pole at the place of fixing	from ø 60 up to ø 76 mm
Mass	16 kg

## ORDERING SS4s

