

SS5

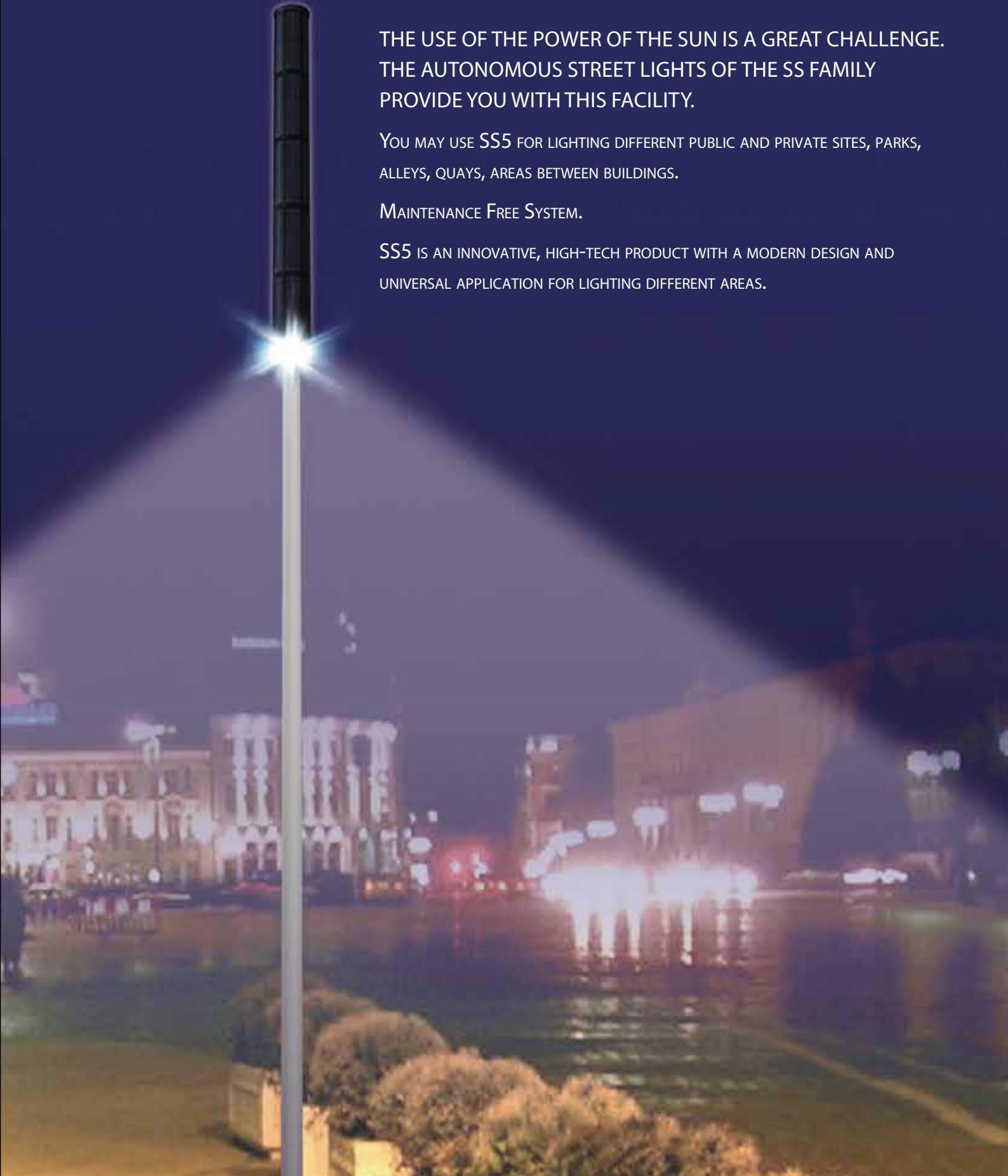
SOLAR LED STREET LIGHT

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.

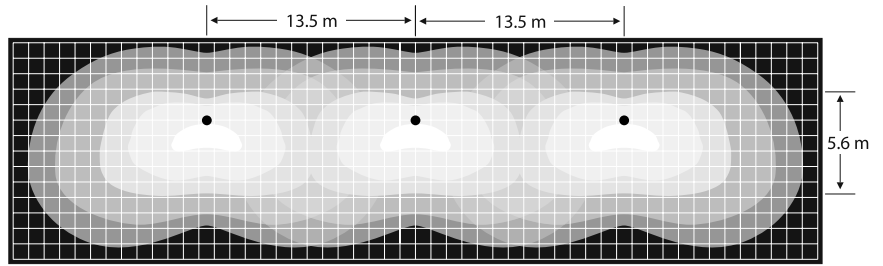
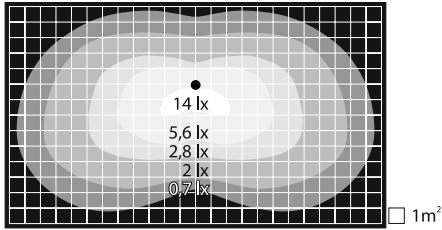
YOU MAY USE SS5 FOR LIGHTING DIFFERENT PUBLIC AND PRIVATE SITES, PARKS, ALLEYS, QUAYS, AREAS BETWEEN BUILDINGS.

MAINTENANCE FREE SYSTEM.

SS5 IS AN INNOVATIVE, HIGH-TECH PRODUCT WITH A MODERN DESIGN AND UNIVERSAL APPLICATION FOR LIGHTING DIFFERENT AREAS.



SS5A 1000 lm h* = 3.4 m

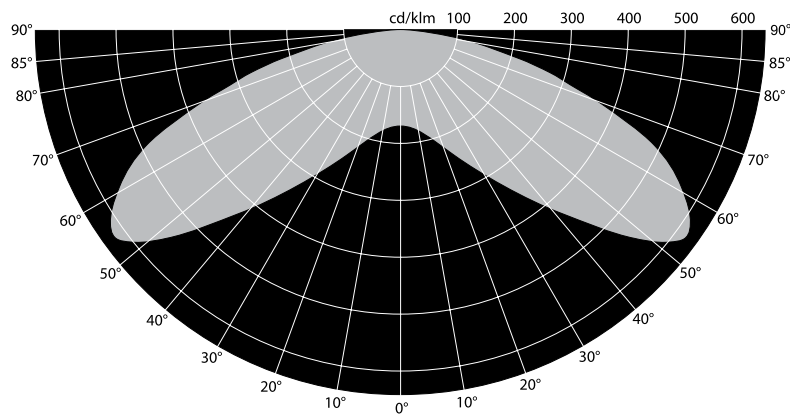


Illuminance

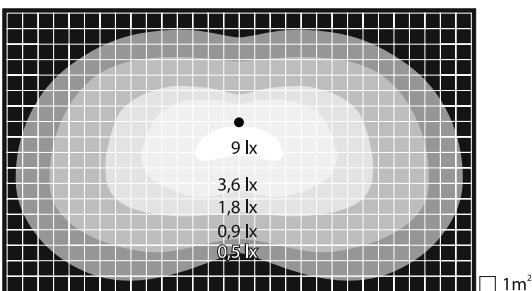
| distance [m] | path with [m] | area [m ²] | E _{max} [lx] | E _{min} [lx] | k ^{**} |
|----------------|-----------------|-------------------------|-------------------------|-------------------------|-----------------|
| 13.5 | 5.6 | 76 | 14 | 7 | 0.5 |
| 15.2 | 6.7 | 102 | 14 | 5.6 | 0.4 |
| 16.8 | 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



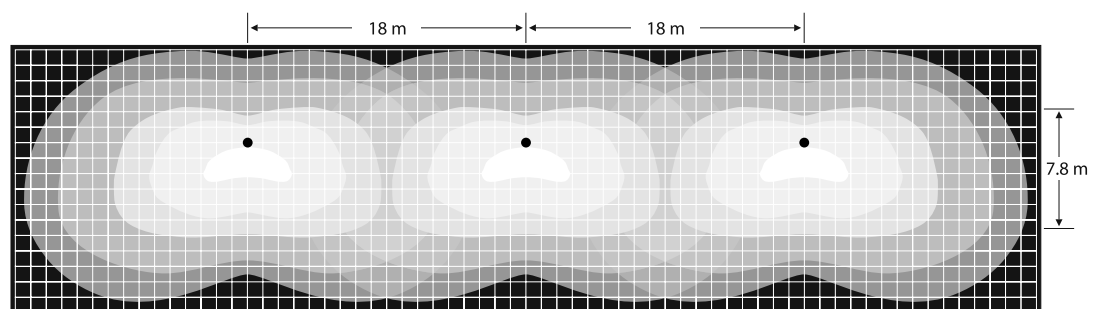
SS5A 1000 lm h* = 4.5 m



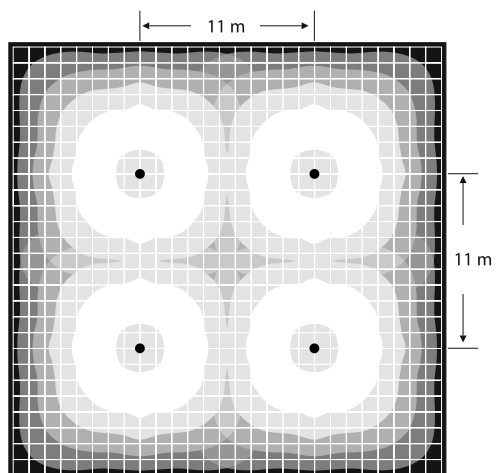
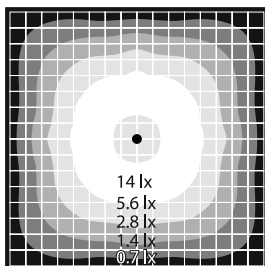
Illuminance

| distance [m] | path with [m] | area [m ²] | E _{max} [lx] | E _{min} [lx] | k ^{**} |
|----------------|-----------------|-------------------------|-------------------------|-------------------------|-----------------|
| 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



SS5P 1000 lm $h^*=3.4\text{ m}$

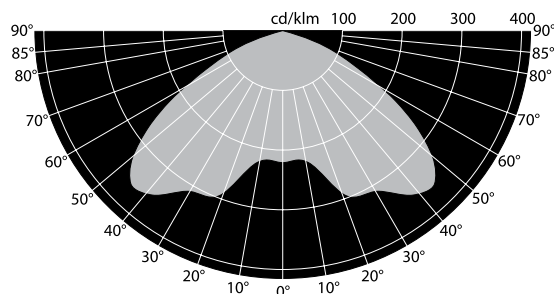


Illuminance

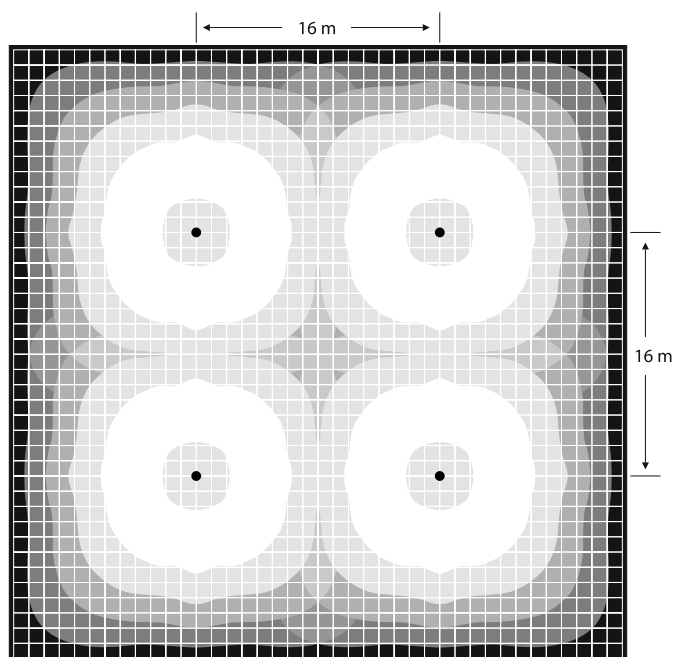
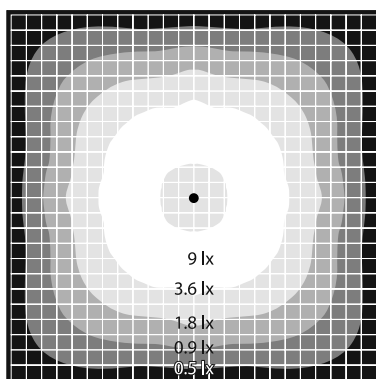
| distance [m] | area [m ²] | E _{max} [lx] | E _{min} [lx] | k ^{**} |
|--------------|------------------------|-----------------------|-----------------------|-----------------|
| 11 | 122 | 13 | 5.2 | 0.4 |
| 16 | 250 | 13 | 0.6 | - |

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

$k = 0.4$



SS5P 1000 lm $h^*=4.5\text{ m}$



Illuminance

| distance [m] | area [m ²] | E _{max} [lx] | E _{min} [lx] | k ^{**} |
|--------------|------------------------|-----------------------|-----------------------|-----------------|
| 16 | 250 | 7 | 2.8 | 0.4 |
| 22 | 480 | 7 | 0.4 | - |

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

* h - light spot height

** k - coefficient of brightness uniformity

SS5

FEATURES

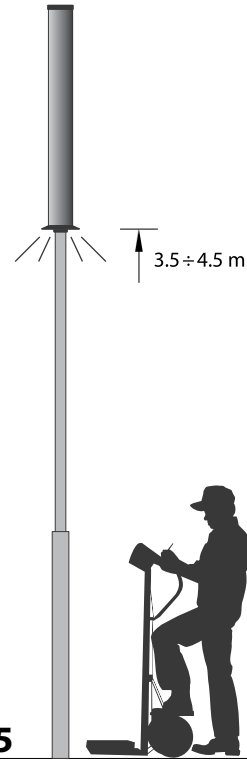
- Compact design – all components are in one common body.
- Handiness for storage and transport.
- Facility for installation on different poles and on places as per clients request.
- Facility for installation on existing poles.
- Facility for intelligent (mixed) power supply.
- Maximum efficiency in using the maximum sun lighting at the different latitudes.
- 2 different type of light spread up to 250 m²: P end A.
- Possibility for connecting of a in motion detector.
- Automatic night/day on/off & economy late night dimming.
- Authonomy in nominal mode 38 hours (3.2 nights)
- Authonomy 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 Dissipation | 10.5 W |
| Led driver Power Efficiency | 96 % |
| Total Power Dissipation | 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 (CRI = 65) | 1000 lm |
| Neutral White (CRI = 75) | 937 lm |
| Warm White (CRI = 80) | 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

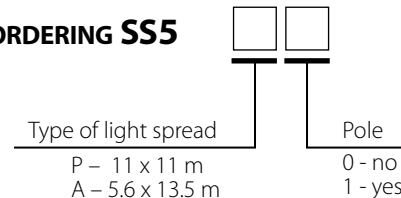
SOLAR CHARACTERISTICS

| | |
|-------------------|-----------------|
| Solar Module Type | Monocrystalline |
| Peak Power | 72 Wp |
| Life Expectancy | 25 years |

PHYSICAL CHARACTERISTICS – LIGHTS

| | |
|---|--|
| Body Material | Aluminum cast alloy + Polycarbonate UV stabilized |
| Height | 1525 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 | 21 kg |

ORDERING SS5



C E EN61000-6-3:1997, EN61000-6-1:1997
 Quality Assurance ISO 9001:2000; AQAP 2110



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