

SS80

AUTONOMOUS STREET LIGHT WITH SOLAR POWER SUPPLY

SS80 IS DESIGNED FOR MAINTENANCE FREE LIGHTING OF STREETS, ROADS AND HIGHWAYS.

SS80 IS AN INNOVATIVE, HIGH-TECH PRODUCT, PROVIDING EXTREMELY EVEN LIGHTING OF THE ROAD FROM A LOW HEIGHT AND LARGE DISTANCE BETWEEN THE POLES IT IS INSTALLED ON (**THE BEST RESULT IN THE WORLD FOR THE MOMENT**).

SS80 IS A COMPACT DEVICE (ALL COMPONENTS ARE HOSED IN TWO BODIES ONLY).

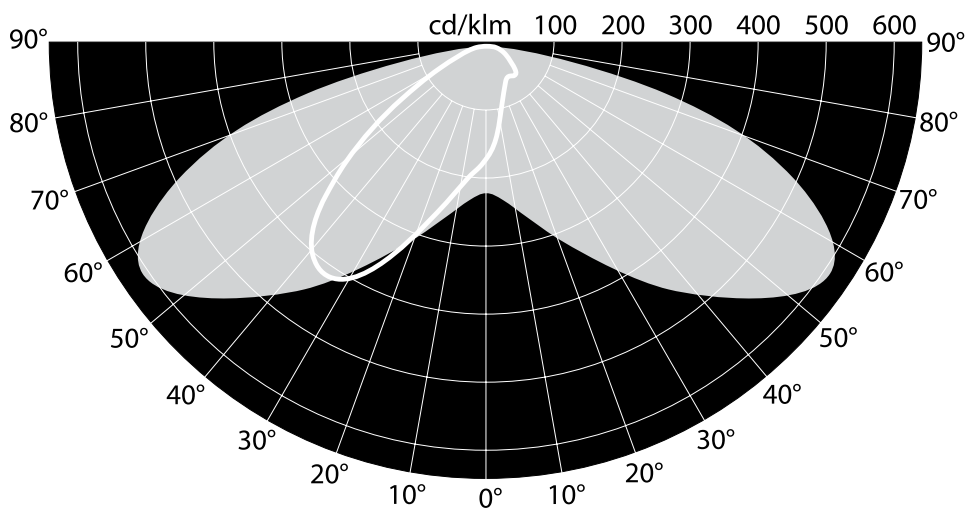
SS80 IS DELIVERED WITH ALL NECESSARY ACCESSORIES LIKE CABLES AND INSTALLATION MATERIALS, READY FOR "TURN KEY" PROJECTS.

SS80 PROVIDES FACILITIES FOR INSTALLATION ON DIFFERENT TYPES OF POLES WITH MIXED POWER SUPPLY (SOLAR + CONVENTIONAL).

SS80 HAS THE FACILITY OF FIXING THE ANGLE OF THE SOLAR PANEL ACCORDING TO THE DIFFERENT LATITUDES OF THE SITE.

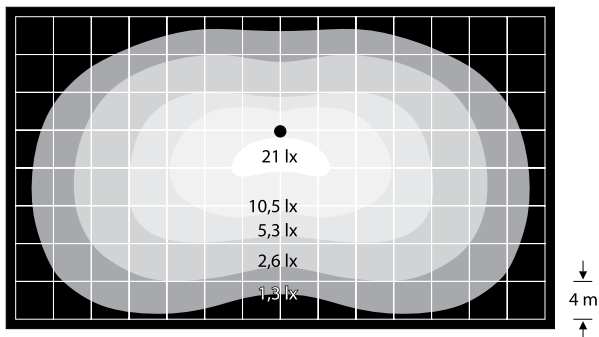


SS80 Light distribution



Street and road lighting with 0° tilt of the lighting source

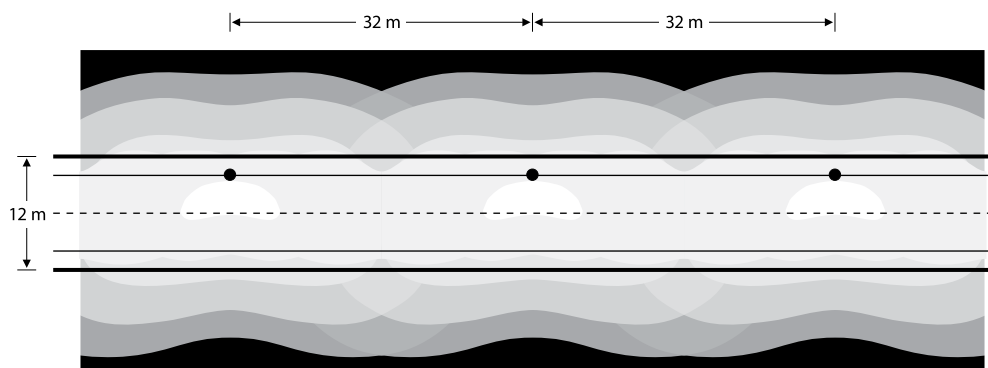
SS80 8 000 lm $h^* = 8\text{ m}$



Illuminance (E)

distance [m]	path width [m]	E_{max} [lx]	E_{min} [lx]	k^{**}
32	12	20	10	0.5
38	14	20	8	0.4

$k = 0.5$



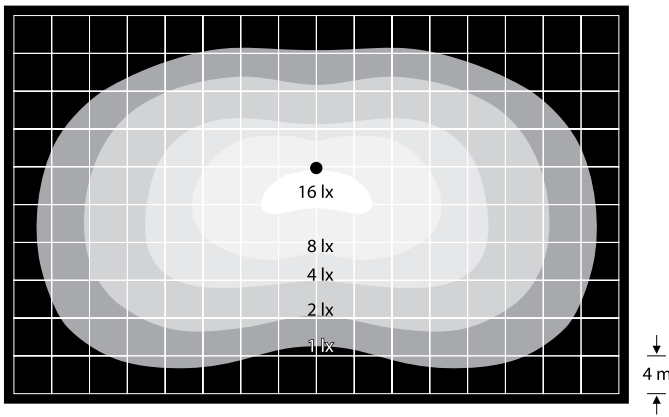
An example for lighting a street with 2 lanes with a height of the light source of 8 m

* h - light spot height
 ** k - coefficient of brightness uniformity
 ● - single lamp SS80

SS80

8 000 lm

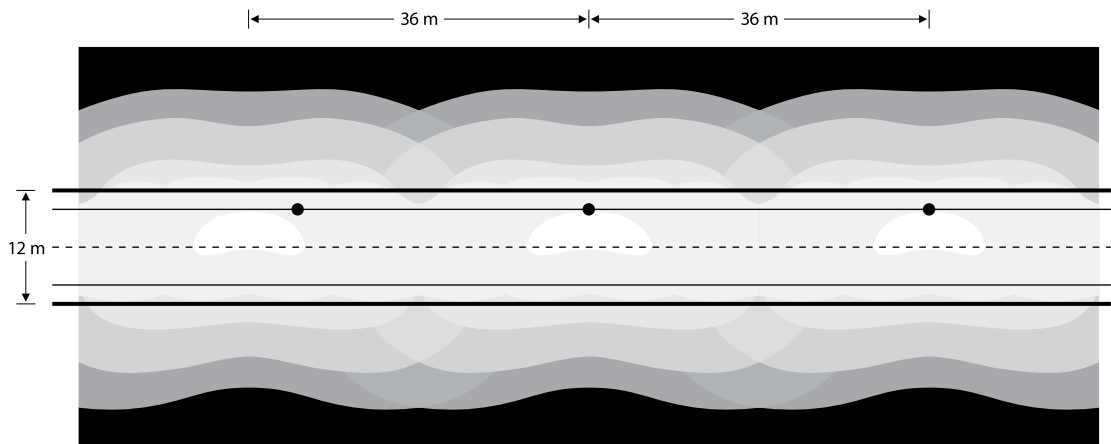
$h^* = 9\text{ m}$



Illuminance (E)

distance [m]	path with [m]	E_{max} [lx]	E_{min} [lx]	k^{**}
36	13	16	8	0.5
42	15	16	6.4	0.4

k = 0.5

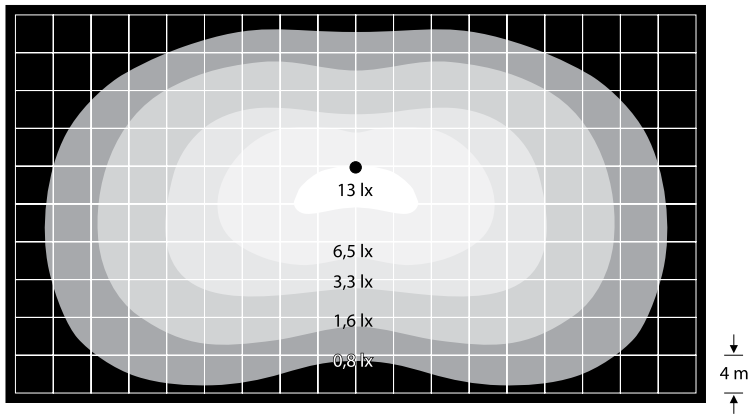


An example for lighting a street with 2 lanes with a height of the light source of 9 m

SS80

8 000 lm

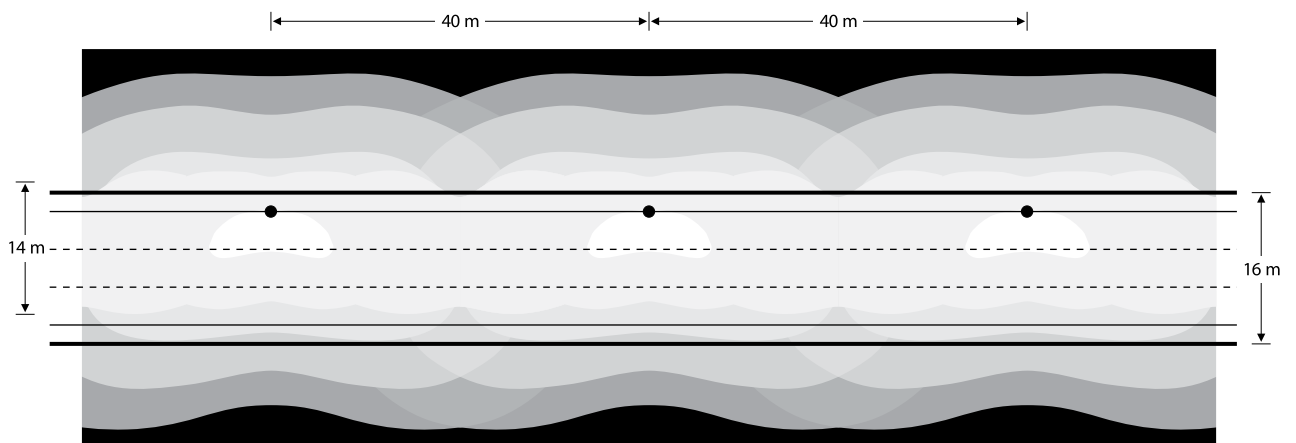
$h^* = 10\text{ m}$



Illuminance (E)

distance [m]	path with [m]	E_{max} [lx]	E_{min} [lx]	k^{**}
40	14	13	6.5	0.5
47	17	13	5	0.4

k = 0.5

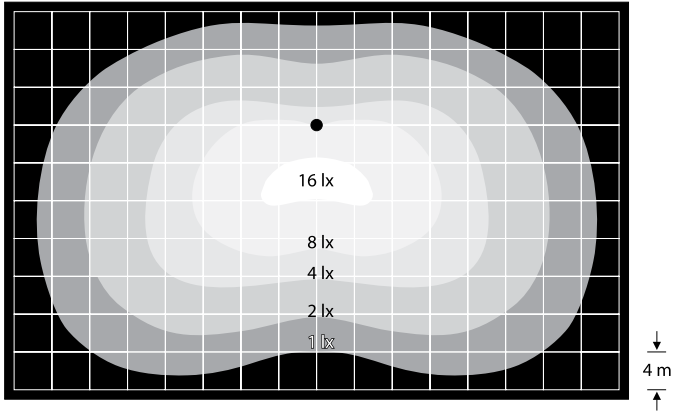


An example for lighting a street with 3 lanes with a height of the light source of 10 m

SS80 Light distribution

Road and highway lighting with 12° tilt of the lighting source

SS80 8 000 lm $h^* = 9\text{ m}$

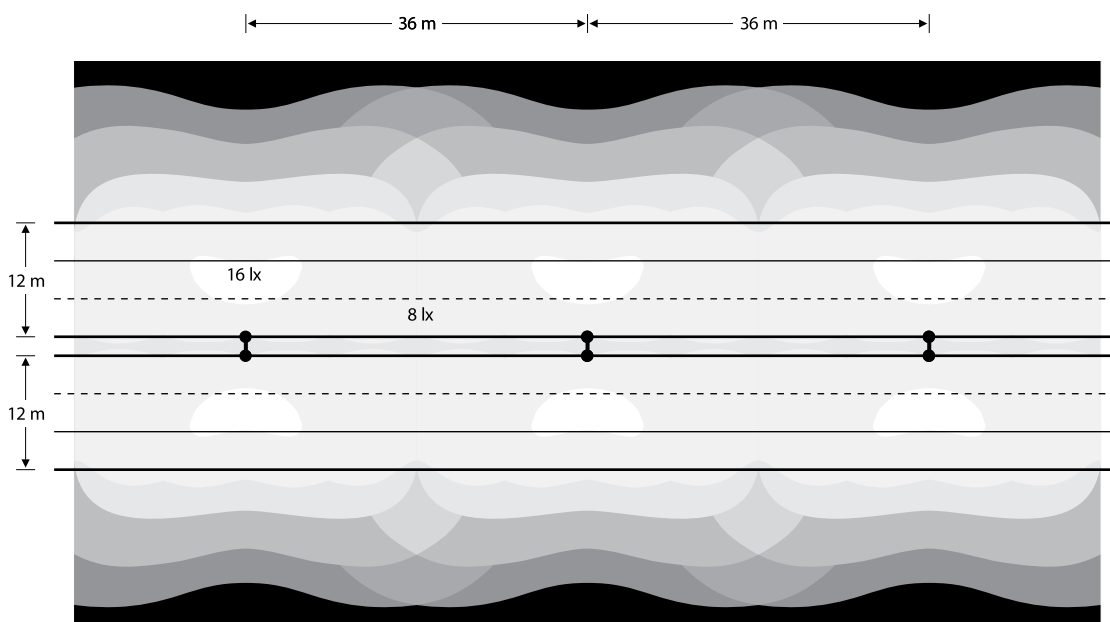
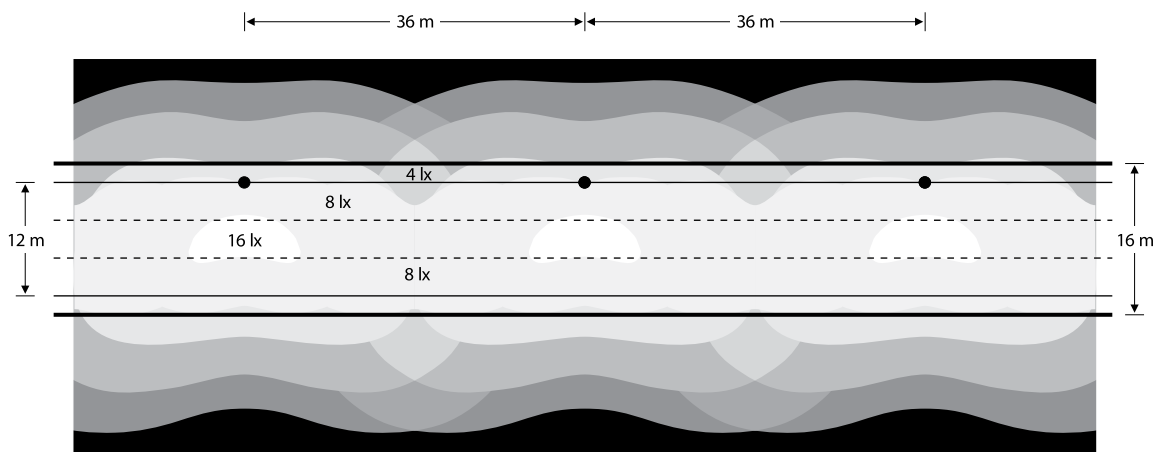


Illuminance (E)

distance [m]	path with [m]	E_{\max} [lx]	E_{\min} [lx]	k^{**}
36	13	16	8	0.5
42	15	16	6.4	0.4

$k = 0.5$

An example for lighting roads and highways

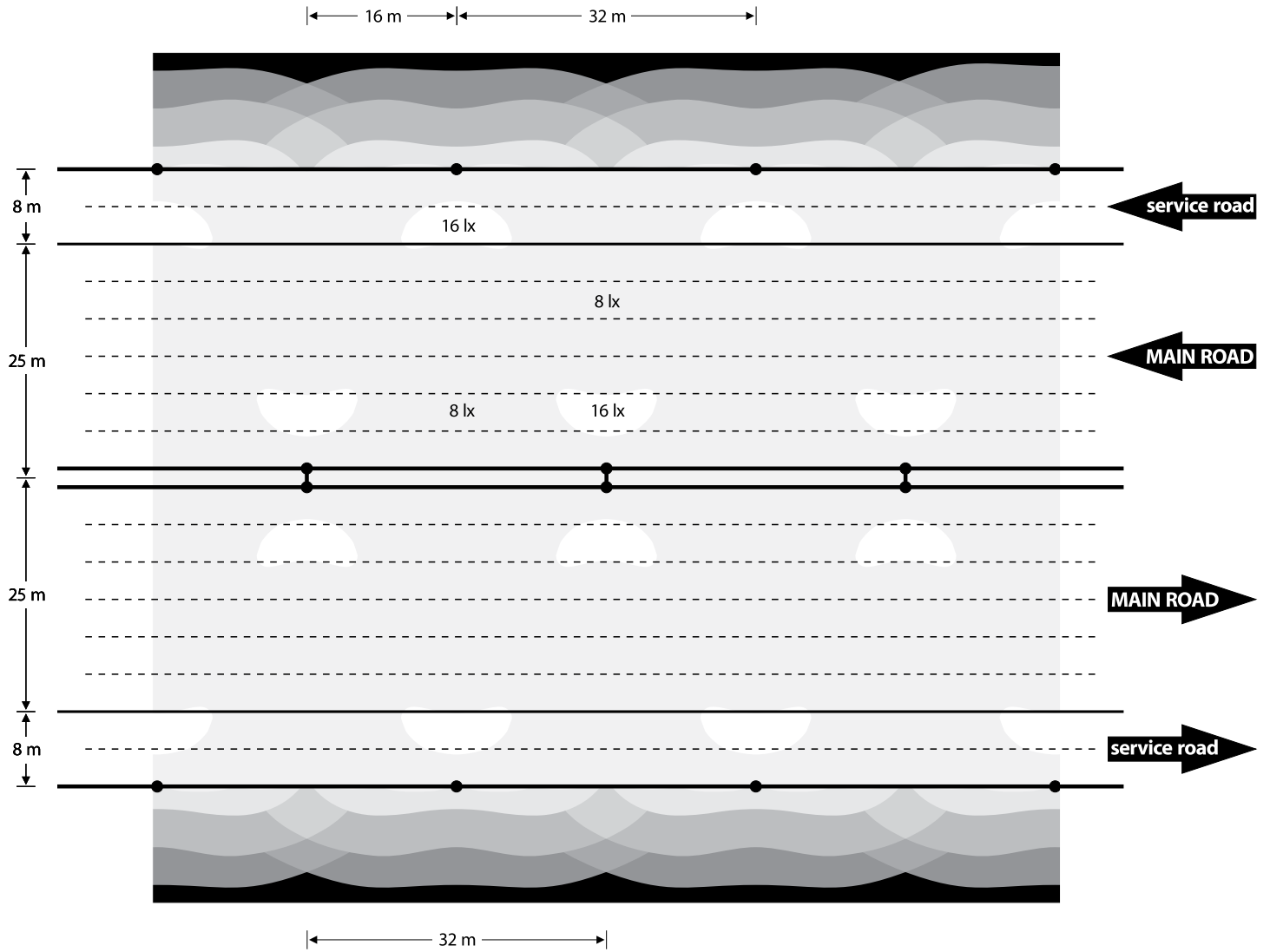


SS80

8 000 lm

$h^* = 9\text{ m}$

An example for lighting a highway with 16 lanes and a tilt of the light source of 12°



- * h - light spot height
- ** k - coefficient of brightness uniformity
- - single lamp SS80
- - double lamp SS80-2

SS80

CHARACTERISTICS

- Authonomy 52 hours without sun light (5 days)
- Control intelligent conroller
- Remote control available
- Operating temperatura from -20° up to +45°C
- Maximum air humidity 95 %
- Protection category IP65
- Warranty period 24 months

LIGHT SOURCE

Power	76 W
Luminous flux	8000 lm
Average lighting	12 lx (with 9 m. height of the light source)
LED live expectancy	22 years
Automatic compensation of the lighting power in case of faults in a LED group or driver	up to 20 %

BATTERY

Type	SLA (sealed lead-acid) - AGM technology
Capacity	184 Ah
Nominal voltage	24 V
Charging	built in intelligent regulator (MPPT)
Life time	5 years (2 000 charging cycles)

SOLAR MODUL

Type	monocrystalline
Pick power	250 Wp
Life time	25 years

PARAMETERS OF THE MECHANICAL CONSTRUCTION

Body Material	Aluminum cast alloy + stainless steel
Dimensions of the battery unit	750 x 550 x 250 mm
Diameter of the pole at the place of fixing	from ø 70 up to ø 160 mm
Weight of the solar and the lighting unit	30 kg
Weight of the battery unit	150 kg
Cables	flexible, multi wire, UV protected, heat resistive, nonflammable, isolation and cover of silicon rubber

Additional deliveries

- Zink plated metal poles height from 8 m up to 12 m
- Means of fixing the pole underground / fundament

SOLAR LIGHT SS80

