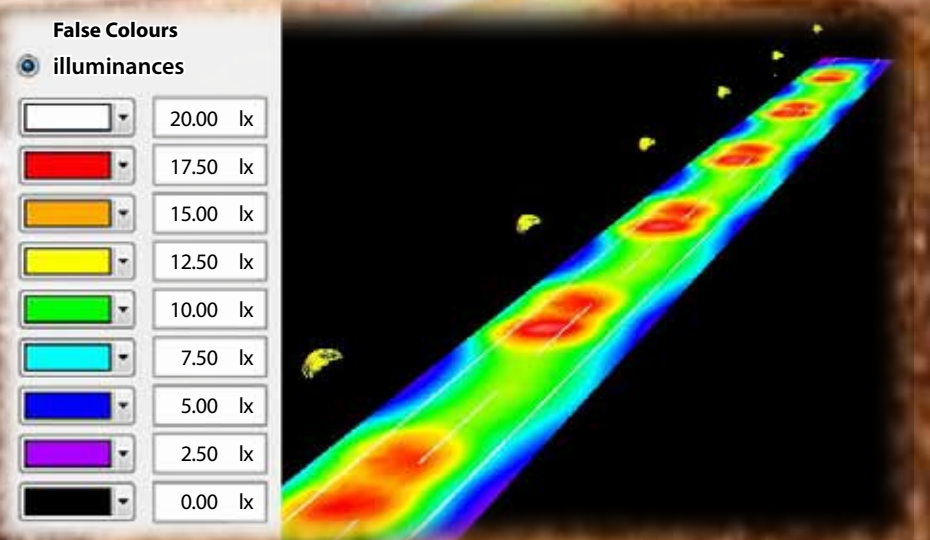
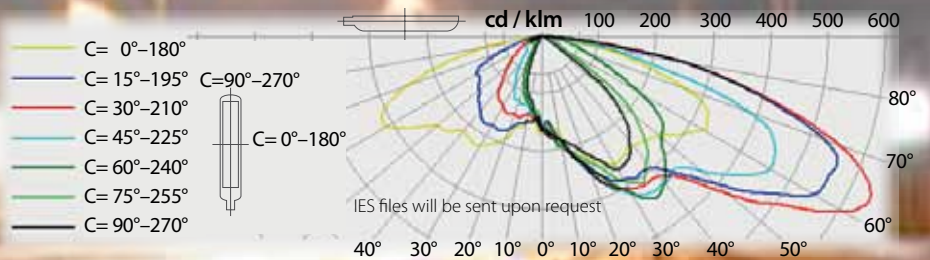
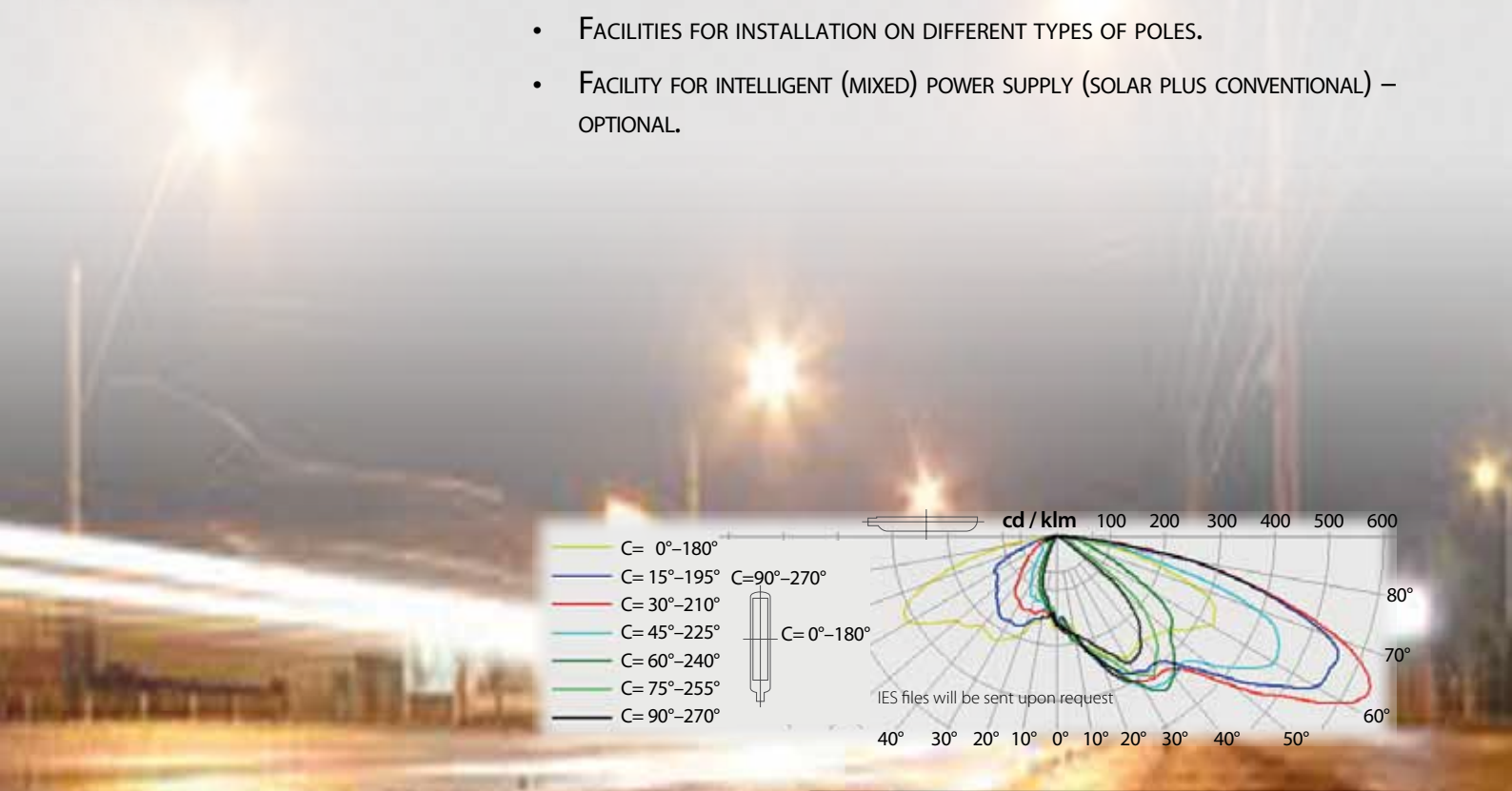


SS45 SOLAR LED STREET LIGHT



- DESIGNED FOR MAINTENANCE FREE LIGHTING DIFFERENT PUBLIC AND PRIVATE SITES, PARKS, GARDENS, ALLEYS, OPEN AREAS, STREETS, ROADS, QUAYS AND OTHER AREAS.
- INNOVATIVE, HIGH-TECH PRODUCT, PROVIDING EXTREMELY EVEN LIGHTING OF THE ROAD LANE FROM A LOW HEIGHT AND LARGE DISTANCE BETWEEN THE POLES.
- EXTREMELY LONG LIFESPAN, MAINTENANCE FREE, NO NEED OF BATTERY REPLACEMENT.
- INSTALLATION FRIENDLY (UPON UNPACKING YOU NEED TO FIX THE EQUIPMENT TO THE POLE ONLY).
- FACILITY OF FIXING THE ANGLE OF THE SOLAR PANEL ACCORDING TO THE DIFFERENT LATITUDES OF THE SITE.
- FACILITIES FOR INSTALLATION ON DIFFERENT TYPES OF POLES.
- FACILITY FOR INTELLIGENT (MIXED) POWER SUPPLY (SOLAR PLUS CONVENTIONAL) – OPTIONAL.



SS45

CHARACTERISTICS

- Automatic night/day on/off & economy late night dimming
- Autonomy in nominal mode 49 hours (4 days)
- Autonomy in Late night dimming mode 69 hours (5.7 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 %
- Ingress protection rating IP 65

LIGHT SOURCE

LED Power Dissipation	40 W
Led driver Power Efficiency	95 %
Total Power Dissipation	42.3 W
LED Light Output	160 lm/W
Current Efficiency	83 %
LED Luminous Flux	5 317 lm
Junction Temperature at Ta = 25°C	65°C
Thermal Efficiency	92 %
Lens Efficiency	92 %
Real Luminaire Efficacy (LER)	106 lm/W
Color Rendering Index (CRI)	65 ÷ 80
Real Lamp Luminous Flux for:	
Cool White (CRI = 65)	4 500 lm
Neutral White (CRI = 75)	4 188 lm
Warm White (CRI = 80)	3 536 lm
Zero Light Pollution	0 cd at 90°
Lifespan L70	160 000 h (36 years)

BATTERY

Type	Sealed maintenance free, Flame retardant, Lithium technology
Capacity	160 Ah
Nominal voltage	13 V
Charging	built in intelligent charge controller (BMS & MPPT)
Lifespan	22 years (8 000 charging cycles)

SOLAR MODULE

Type	Monocrystalline, Advanced EVA encapsulation system with triple-layer back sheet
Peak power	155 Wp
Lifespan	25 years

PARAMETERS OF THE MECHANICAL CONSTRUCTION

Realization	Monoblock structure Aluminum cast alloy + stainless steel
Dimensions (folded)	1500 x 670 x 400 mm
Diameter of the pole at the place of fixing	from ø 70 up to ø 160 mm
Weight	52 kg

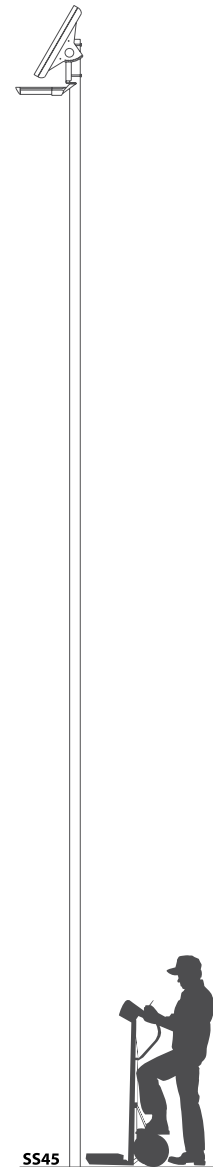
Additional deliveries

- Zink plated metal poles
- Means of fixing the pole underground / fundament

SS45 Application According EU Standards

3 lanes x 3.5 m ME4a streets (more than 60 km/h)	L = 15 m ; H = 9 m
3 lanes x 3.5 m ME5 streets (less than 60 km/h)	L = 23 m ; H = 9 m
2 lanes x 3.5 m ME4a streets (more than 60 km/h)	L = 23 m ; H = 6.5 m
2 lanes x 3.5 m ME5 streets (less than 60 km/h)	L = 34 m ; H = 7 m

L – Distance between the light sources (poles)
 H – Height of the light source above the ground



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



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