SM150 LED STREET LIGHT

WORLDWIDE POWERED

ACTIVE POWER FACTOR CORRECTION (PFC)

ADAPTIVE ROTATION INSTALLATION FRAME, RETROFIT WISE

LEDS – 160 LM/W

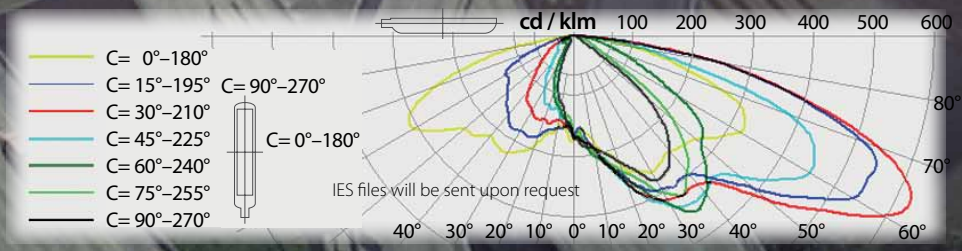
EXTREMELY WIDE ASYMMETRIC LENSES

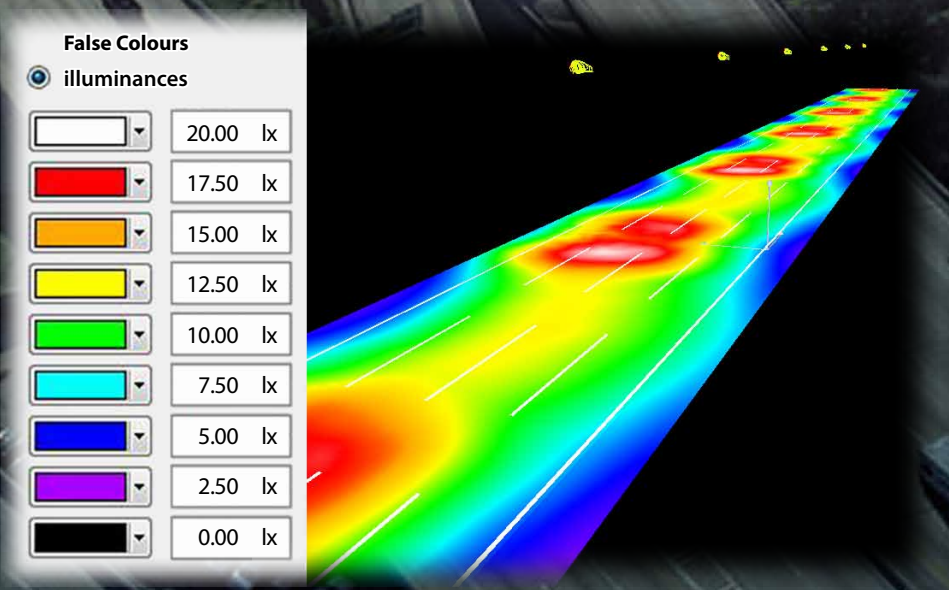
ZERO LIGHT POLLUTION

AUTOMATIC ECONOMY LATE NIGHT DIMMING *

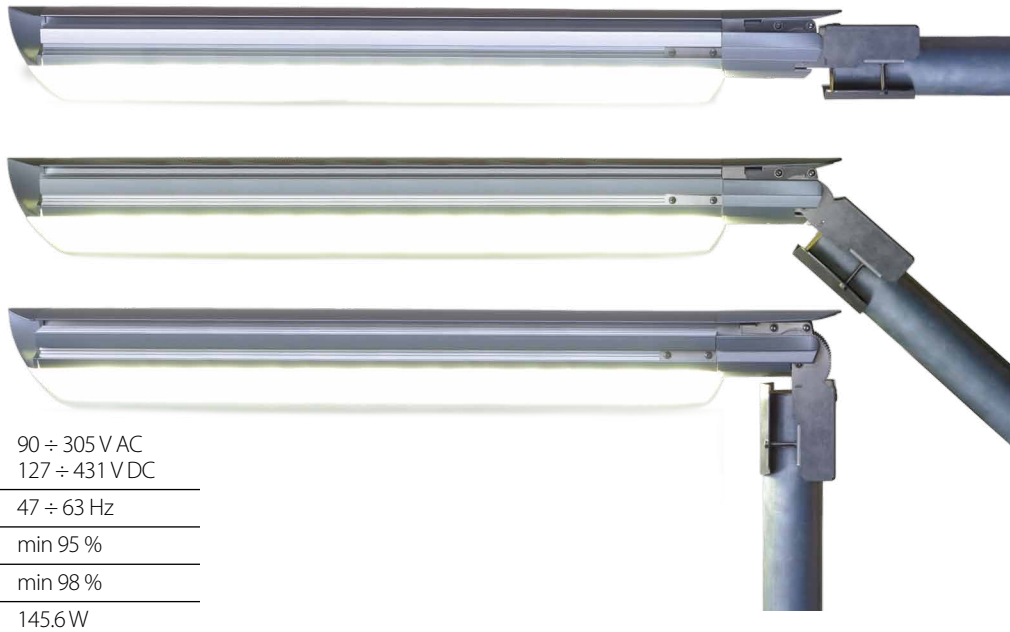
SM150

- HIGH ENERGY EFFICIENCY
- NO MAINTENANCE COSTS
- LONG LIFECYCLE
- HIGH QUALITY AREA ILLUMINATION
- ERGONOMICAL – CLOSE TO NATURAL LIGHT
- ECOLOGICAL – MERCURY AND LEAD FREE





SM150



SPECIFICATIONS

AC Input Voltage DC Input Voltage	90 ÷ 305 V AC 127 ÷ 431 V DC
Mains Frequency	47 ÷ 63 Hz
Power Factor (PF) at 230 V	min 95 %
Power Factor (PF) at 115 V	min 98 %
LED Power	145.6 W
Power Efficiency	90 %
Total Power	160.5 W
Average power in late night dimming mode*	113.7 W
LED Light Output	160 lm/W
Current Efficiency	81 %
LED Luminous Flux	18 610 lm
Junction Temperature at Ta = 25°C	70°C
Thermal Efficiency	91 %
Lens Efficiency	92 %
Real Luminaire Efficacy (LER)	98 lm/W
Color Rendering Index (CRI)	65 ÷ 80
Real Lamp Luminous Flux for: Cool White (CRI 65) Neutral White (CRI 75) Warm White (CRI 80)	 15 580 lm 14 450 lm 12 230 lm
Zero Light Pollution	0 cd at 90°
Operating Temperature	- 40°÷ +45°C
Operating Humidity	10 ÷ 95 % RH
Lifespan L70	> 160 000 h
Ingress protection rating	IP 65
Electrical Safety Class	Class II
Polycarbonate optical cover	optional

MECHANICAL CONSTRUCTION

Marine Grade Aluminium Alloy Body	
Stainless Steel Rotation Mechanism	115° (- 90° ÷ +15°)
Installation Diameter	ø 42 ÷ ø 76 mm
Dimensions	1053 x 180 x 80 mm
Weight	8 kg

Additional deliveries

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

* Late night dimming:
50 % illuminance decreasing after 4 hours till 1 h before dawn;
Optional illuminance decreasing – 20 ÷ 90 %;
Optional dimming start – 2 ÷ 8 hours;
Optional dimming stop – 0.5 ÷ 3 h before dawn.

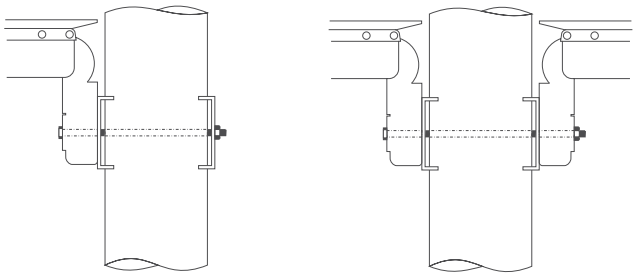
SM150 Application According EU Standards

4 lanes x 3.5 m ME4a streets (more than 60 km/h)	L = 39 m; H = 12 m; Oh = 1.5 m or b = 5°
4 lanes x 3.5 m ME5 streets (less than 60 km/h)	L = 59 m; H = 12 m; Oh = 1.5 m or b = 5°
3 lanes x 3.5 m ME4a streets (more than 60 km/h)	L = 48 m; H = 10.5 m; Oh = 0.5 m
3 lanes x 3.5 m ME5 streets (less than 60 km/h)	L = 68 m; H = 11.5 m; Oh = 1 m

SM150 Application According US Standards

4 lanes x 3.5 m streets	L = 43.5 m; H = 12 m; Oh = 0.5 m or b = 5°
3 lanes x 3.5 m streets	L = 53 m; H = 10 m; Oh = 1 m

L – Distance between the light sources (poles)
H – Height of the light source above the ground
Oh – Luminaire overhang arm
b – Luminaire tilt angle



Optional kit for mounting one or two lamps sideways to the pole ø 70 ÷ 200 mm

C E	EN61000-6-3:1997, EN61000-6-1:1997	
Quality Assurance	ISO 9001:2008;	AQAP 2110