

SM90 LED STREET LIGHT

WORLDWIDE POWERED

ACTIVE POWER FACTOR CORRECTION (PFC)

ADAPTIVE ROTATION INSTALLATION FRAME, RETROFIT WISE

LEDs – 160 LM/W

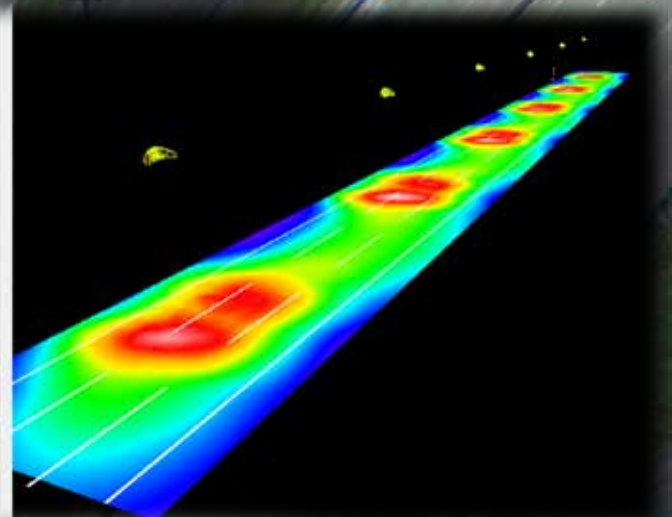
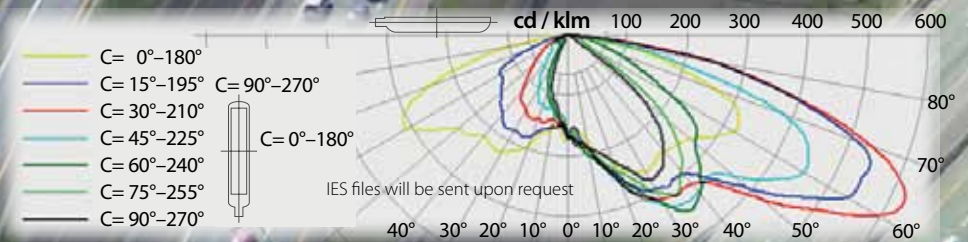
EXTREMELY WIDE ASYMMETRIC LENSES

ZERO LIGHT POLLUTION

AUTOMATIC ECONOMY LATE NIGHT DIMMING *

SM90

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



SM90



SPECIFICATIONS

| | |
|-----------------------------------|----------------|
| AC Input Voltage | 90 ÷ 305 V AC |
| DC Input Voltage | 127 ÷ 431 V DC |
| Mains Frequency | 47 ÷ 63 Hz |
| Power Factor (PF) at 230V | min 95 % |
| Power Factor (PF) at 115V | min 98 % |
| LED Power Dissipation | 87.1 W |
| Power Efficiency | 89 % |
| Total Power Dissipation | 97.5 W |
| LED Light Output | 160 lm/W |
| Current Efficiency | 80 % |
| LED Luminous Flux | 11 216 lm |
| Junction Temperature at Ta = 25°C | 70°C |
| Thermal Efficiency | 91 % |
| Lens Efficiency | 92 % |
| Real Luminaire Efficacy (LER) | 96 lm/W |
| Color Rendering Index (CRI) | 65 ÷ 80 |
| Real Lamp Luminous Flux for: | |
| Cool White (CRI 65) | 9 390 lm |
| Neutral White (CRI 75) | 8 710 lm |
| Warm White (CRI 80) | 7 370 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 | 750 x 180 x 80 mm |
| Weight | 5,5 kg |

Additional deliveries

- Zink plated metal poles height: 9 m ÷ 11 m
- 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.

SM90 Application According EU Standards

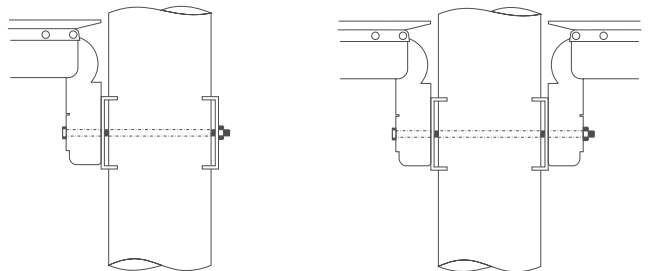
3 lanes x 3,5 m ME4a streets L = 33 m; H = 9,5 m; Oh = 0,5 m or b = 5°
(more than 60 km/h)

3 lanes x 3,5 m ME5 streets L = 50 m; H = 9,0 m
(less than 60 km/h)

SM90 Application According US Standards

3 lanes x 3,5 m streets L = 40 m; H = 9,0 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 9001:2000; AQAP 2110



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