

## HiSmooth

- High performance design with Nichia Chip
- Luminous flux up to 18,750lm (150W)
- Luminous Efficacy up to 130lm/W
- Electricity: 100-240Vac/100-277Vac, 50/60Hz, PF ≥ 0.93
- LED Lifespan > 50,000 hours (Ta=30°C@L70)
- Energy saving up to 90%
- CCT: 4000K (3000K & 5000K optional)
- CRI > Ra70 (CRI>Ra80 optional)
- Superior uniformity
- Superior temperature stability
- Temperature test at toughest conditions
- Meanwell, Inventronics, Sosen driver
- No external reflectors required
- PC cover : Safe for industrial applications
- Operating temp: -30~+50°C
- Body: Aluminum alloy
- Stainless steel screws
- IP66 protection rating
- 5 years warranty



## HiCloud Product Range HiSmooth Product Range



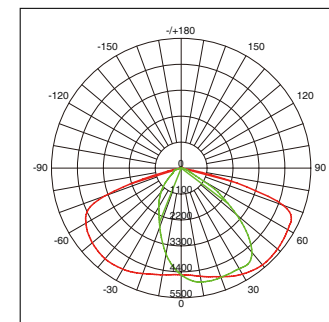
Part Number	ST03-030	ST03-050	ST03-070	ST03-090	ST03-120	ST03-150	ST08-030	ST08-050	ST08-070	ST08-090
Lumen Output	3,900lm	6,500lm	9,100lm	11,700lm	15,600lm	18,750lm	3,600lm	6,000lm	8,400lm	10,800lm
Wattage	30W	50W	70W	90W	120W	150W	30W	50W	70W	90W
Luminous Efficacy	130lm/W	130lm/W	130lm/W	130lm/W	130lm/W	125lm/W	120lm/W	120lm/W	120lm/W	120lm/W
Product Size	763x352x225mm						680x282x159mm			
CCT	4000K, 3000K, 5000K									
CRI	>Ra70, >Ra80									
Beam Angle	R17601, R17602						R09603, R09602, R09601			
Input Voltage	100-240Vac/100-277Vac 50-60hz PF ≥ 0.93									
IP Rating	IP66									
LED Driver	Meanwell, Inventronics						Sosen, Inventronics			
HID Equivalent	100W	120W	120W-180W	250W	300W-400W	400W-600W	100W	120W	120W-180W	250W
Certification	CE, RoHS									
Certification Pending	CB, SAA, DLC, UL, EMC									

## Control Options

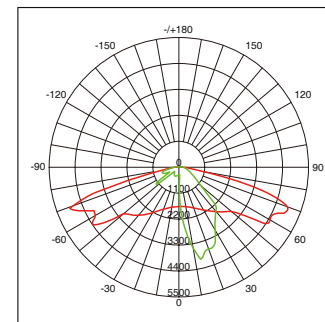
Part number indicates which type of control it is.

Daylight Sensor Control	1-10V Dimming Control	Timing Control	Solar Control	DALI Control
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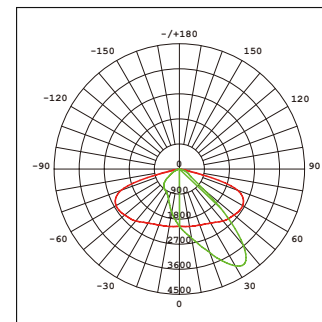
## Photometric Diagrams



(Type II) R17601, R09603

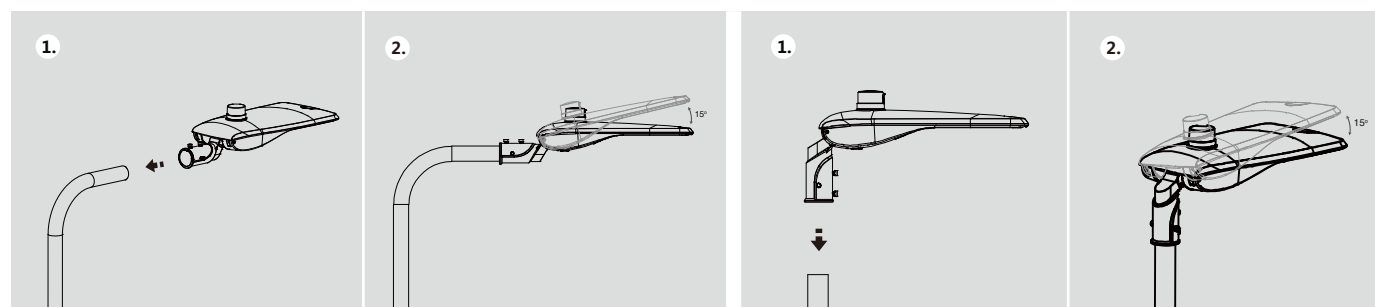


(Type II) R09602



(Type II) R17602, R09601

## Mounting Options



# HiSmooth

## Professional Roadway Lighting



# HiSmooth, A Professional Outdoor Lighting Product

## Luminous Efficacy 120lm/W

Current light distribution type of HiSmooth is Type II Medium, which is suitable for wide range of road applications (such as fast-speed, medium-speed, and low-speed roads), and complies with many lighting level and standards.

Lighting classes	ME1	ME2	ME3	ME4	ME5	ME6	S1	S2	S3	S4	S5	S6
120W												
150W												

- \* For main roads, collecting roads, roundabouts
- \* Mounting heights: 8 to 12m
- \* Street coating: R1, R2, R3, R4
- \* Mast spacing: up to 50m
- \* Color temperature: 4000K, 3000K and 5000K
- \* Variants from 10900lumens to a power variant 21000lumens
- \* Covering the whole roadway without any Dark Spots
- \* Compliance with CIE, EN and IESNA Lighting Standards

### Smooth Design

- Smooth body would not accumulate dust, sand, or other solid material, and would minimize environment impact for fixture performance.

### Surface Treatment

- Anti-static and anti-UV outdoor using powder coating



### Easy Maintenance

- Buckle for fixing heat sink could be opened without tools.
- There is a supporting bracket to hold upper and lower parts of fixture body, when electricians open for maintaining.



### Easy Replacement for LED Driver

- The LED driver is fixed by buckles, can be installed or removed easily.

### Warm or Cold Multiple CCT Options

- 4000K, 3000K and 5000K could be offered for HiSmooth. And 3000K and 4000K are highly in line with Euro style constructions, and complies with EU photo-biological standard.



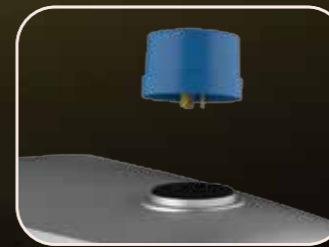
### Power-off Protection

- Power would automatically be off once the fixture body opened.



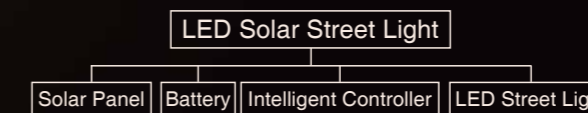
### Surge Protection

- Inventronics LED Driver integrated with SPD (surge protection device)

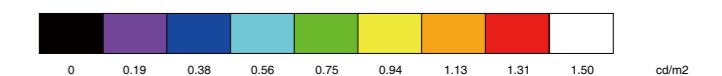
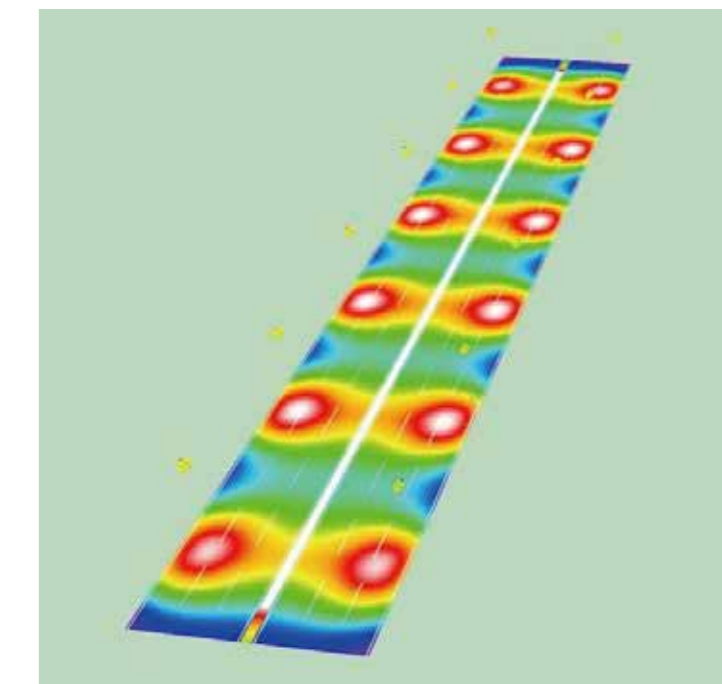
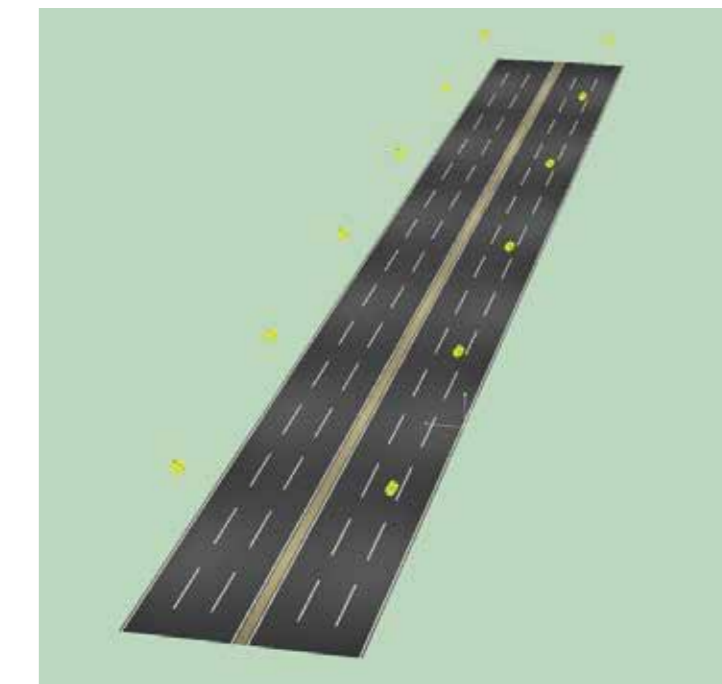


### Intelligent Control

- Daylight Sensor
- Timming Control
- Solar Control



## HiSmooth Dialux Simulation



ST03 R17601(Type II) 4000K Ra70

### Calculation Field List

Roadway 1  
 Valuation Field Roadway 2  
 Grid: 12 x 9 Points  
 Length: 34.000 m, Width: 10.500 m  
 Accompanying Street Elements: Roadway 2.  
 tarmac: R3, q0: 0.070  
 Selected Lighting Class: ME2 (All lighting performance requirements are met.)

	L <sub>av</sub> [cd/m²]	U0	UI	TI [%]	SR
Calculated values:	1.51	0.72	0.86	8	0.75
Required values according to class:	≥ 1.50	≥ 0.40	≥ 0.70	≤ 10	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓