

# SZG510 series of led street light



## Applications:

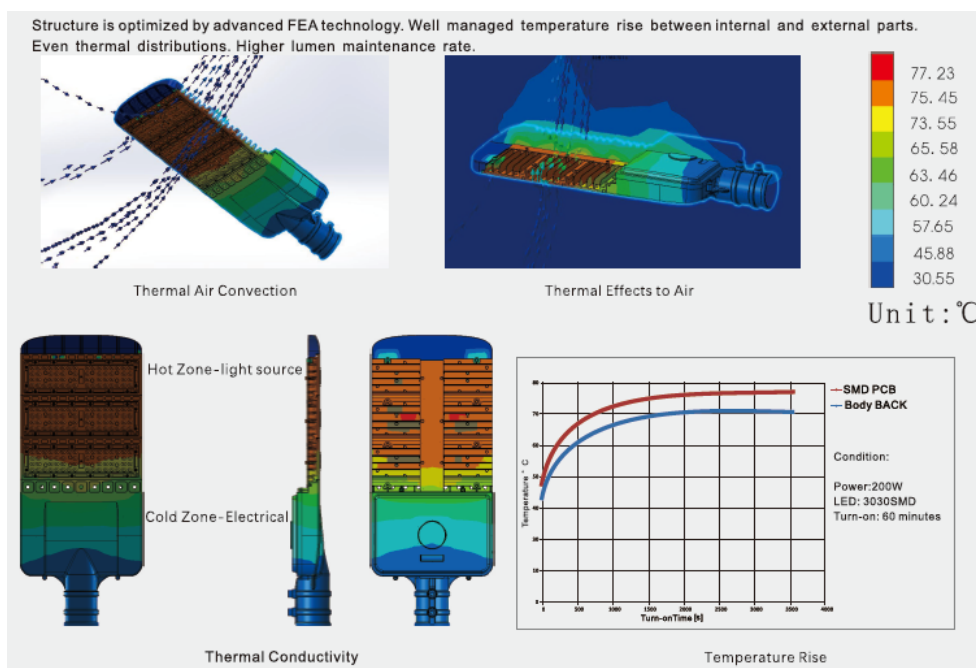
- expressway roads
- urban main roads, secondary roads
- economic development zone and high-tech park road
- industrial and mining plant road
- tourist attractions
- resort road
- park, parking roads

*Note: It can be with 2.4G Mesh slave controller and gateway to form 2.4G Mesh ADHOC wireless lighting control system.*

## Description of performances:

<b>test report</b> IEC 60598-2-3 IEC 62741 IEC 62778 LM80	<b>brand of led chip</b> PHILIPS	<b>luminous efficacy of led chip</b> 220 lm/W(5050 chips) 200 lm/W(3030 chips)	<b>luminous efficacy of luminaire</b> 165 lm/W(5050) 155 lm/W(3030)	<b>brand of led driver</b> Inventronics /Trismart Lighting	<b>power factor</b> $\geq 0.95$
<b>total harmonic distortion</b> $\leq 10\%$	<b>surge lightning protection</b> 6000 V	<b>light sensor</b> NEMA light sensor optional	<b>Opening mode of power cover</b> rear cover opening	<b>adjustable angle</b> optional	<b>IP protection</b> IP66

## Thermal management:



## Product profiles:



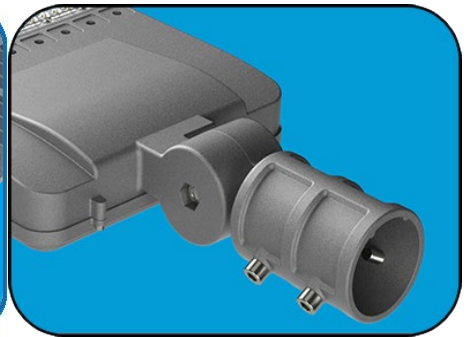
## Product details:



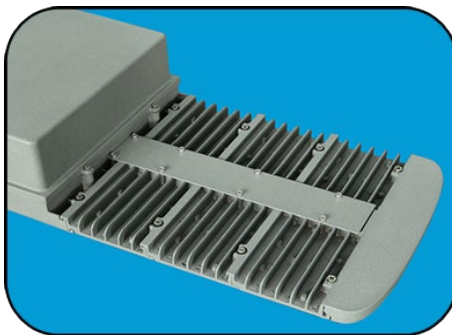
5050 led chip with 240lm/W



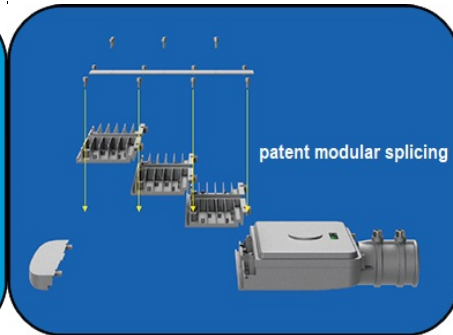
rear cover opening for easy maintenance



adjustable tilt (optional)



high-thermal conductivity die-casting aluminum heat dissipation module



patent modular splicing design



NEMA light sensor optional

## Technical parameters:

Parameter items	100W	150W	200W
Input voltage (V)	90-305Vac	90-305Vac	90-305Vac
Power efficiency	≥91%	≥91%	≥91%
Power factor	≥0.95	≥0.95	≥0.95
Surge lightning protection (V)	6000	6000	6000
Total harmonic distortion	≤10%	≤10%	≤10%
Brand of led chip	Philips	Philips	Philips
Luminous efficiency for 5050 led (lm/W)	220	220	220
Total luminous flux for 5050 led (lm)	22000±5%	33000±5%	44000±5%
Light efficacy for 5050 luminaire (lm/W)	165	165	165
Luminous efficiency for 3030 led (lm/W)	200	200	200
Total luminous flux for 3030 led (lm)	20000±5%	30000±5%	40000±5%
Light efficacy for 3030 luminaire (lm/W)	155	155	155
Correlated color temperature (K)	3000-6500	3000-6500	3000-6500
Color rendering index (Ra)	≥75	≥75	≥75
Beam angle (°)	145° *50°	145° *50°	145° *50°
LED lifespan (h)	100,000	100,000	100,000
Working temperature (°C)	-40~+55°C	-40~+55°C	-40~+55°C
2.4G mesh ADHOC wireless intelligent lighting control system	optional	optional	optional
IP protection	IP66	IP66	IP66
IK protection	IK08	IK08	IK08
Led driver	Inventronics/Trismart Lighting	Inventronics/Trismart Lighting	Inventronics/Trismart Lighting
Installation mode of led driver	built-in	built-in	built-in
Power cavity open mode	rear cover opening	rear cover opening	rear cover opening
NEMA light sensor	optional	Optional	Optional
Dimensions (mm)	540*270*90	630*270*90	720*270*90
Weight (Kg)	3.0	4.0	5.0
Installation of pipe diameter (mm)	Φ60	Φ60	Φ60
Warranty	5 year	5 year	5 year

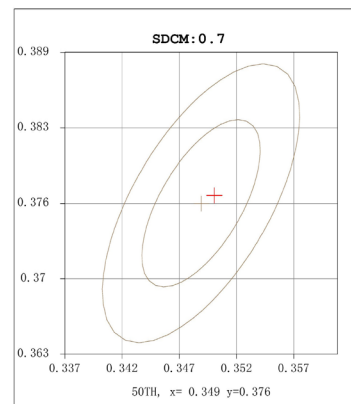
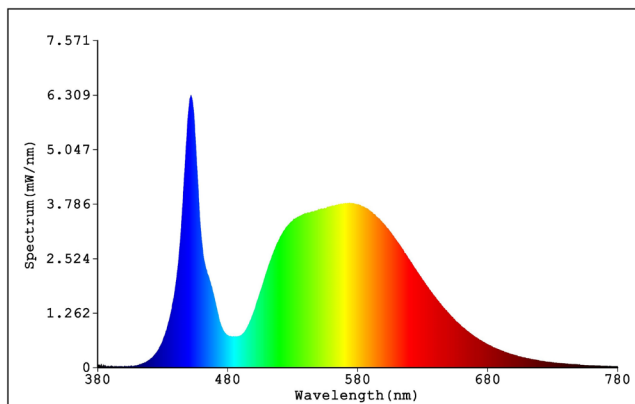


## Test report of luminous efficiency of 5050 led chip:

**EVERFINE** 远方

Test report  
EVERFINE LEDspec Test Report

### Spectrum Test Report



#### Color Parameters:

Chromaticity Coordinate (2Deg):  $x=0.3505$   $y=0.3770$  /  $u'=0.2055$   $v'=0.4973$   $duv=1.013e$   
 $Tc=4900K$  Dominant WL:  $Ld=567.6nm$  Purity=18.3%  
 Ratio: R=13.7% G=83.3% B=3.0% Peak WL:  $Ip=451.9nm$  HWL: 15.4nm  
 Render Index:  $Ra=70.8$  AvgR=58.7 Kred=8.29%  
 R1 =65.92 R2 =76.64 R3 =85.35 R4 =69.25 R5 =66.09  
 R6 =67.59 R7 =83.35 R8 =51.86 R9 =-44.77 R10=44.83  
 R11=64.47 R12=32.03 R13=68.03 R14=91.86 R15=58.30  
 TM30 Parameters:  $Rf = 75.1$ ,  $Rg:90.0$   
 TLCI Parameters: TLCI-2012 = 47

#### Photo Parameters:

Flux = 228.2 lm Eff. : 234.26 lm/W  $Fe = 642.3 mW$  Eff.=65.932%  
 $e=2.953e+000\mu mol/s$  blue ratio=3.44 fluo. eff.=5.108e-001  
 Photosynthetic (400-700nm): PPF: 2.8969  $\mu mol/s$   
 PRF: 632.77mW  
 Eff (PPF): 2.97  $\mu mol/s/W$   
 EQE (%): 632.90

#### Electrical parameters:

VF = 21.64 V IF = 45.01 mA P = 974.1 mW Ch1  
 LEVEL:\*0 [OUT] WHITE:5000K