

# SZG507 series of led street light



## Applications:

- Urban main roads and secondary trunk roads and auxiliary street lamps
- county, township and town roads
- high-tech park street lamp
- economic development zone
- factory street lamps
- park, parking roads
- residential district road

## Description of performances:

brand of led chip	luminous efficacy of led chip	luminous efficacy of luminaire	brand of led driver	wide input voltage
PHILIPS	210 lm/W	155-160 lm/W	Inventronics /Sosen	90~305 Vac
power factor	total harmonic distortion	surge lightning protection	heat dissipation of power cavity	IP protection
≥0.95	≤10%	6000 KV	ventilation design to enhance heat dissipation	IP66



## Technical parameters:

Parameter items	100W	150W	200W	250W
Input voltage (V)	90-305Vac	90-305Vac	90-305Vac	90-305Vac
Power efficiency	91%	91%	91%	91%
Power factor	0.98	0.98	0.98	0.98
Surge lightning protection (V)	6000	6000	6000	6000
Total harmonic distortion	≤10%	≤10%	≤10%	≤10%
Quantity of led chip (pcs)	112	168	224	280
Luminous efficiency for led (lm/W)	210	210	210	210
Total luminous flux (lm)	21000±5%	31500±5%	42000±5%	52500±5%
Light efficiency for luminaire (lm/W)	155-160	155-160	155-160	155-160
Correlated color temperature (K)	3000-6500	3000-6500	3000-6500	3000-6500
Color rendering index (Ra)	≥75	≥75	≥75	≥75
Beam angle (°)	140° *70°	140° *70°	140° *70°	140° *70°
LED lifespan (h)	100,000	100,000	100,000	100,000
Working temperature (°C)	-40~+55°C	-40~+55°C	-40~+55°C	-40~+55°C
IP protection	IP66	IP66	IP66	IP66
IK protection	IK08	IK08	IK08	IK08
Installation mode of led driver	built-in	built-in	built-in	built-in
Modular quantity	2	3	4	5
Dimensions (mm)	490*300*85	570*300*85	645*300*85	725*300*85
Weight (Kg)	5.2	6.1	7.1	8.1
Installation of pipe diameter (mm)	Φ60 mm	Φ60 mm	Φ60 mm	Φ60 mm
Warranty	5 year	5 year	5 year	5 year



## Test report of luminous efficiency of led chip:

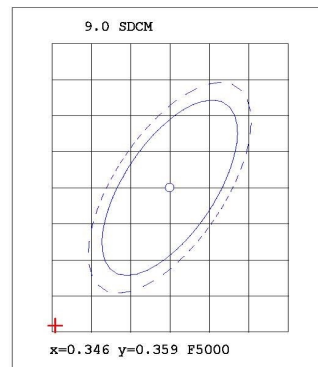
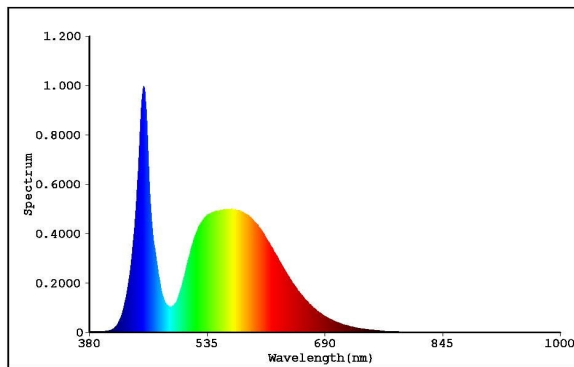
**EVERFINE** 远方

Test report

EVERFINE LEDspec Test Report

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### Spectrum Test Report



#### Color Parameters:

Chromaticity Coordinate(2Deg): $x=0.3314$   $y=0.3399$ / $u'=0.2066$   $v'=0.4768$   $duv=-1.324e-004$

Tc=5545K Dominant WL:Ld=536.9nm Purity=1.5%

Ratio:R=14.1% G=82.3% B=3.7% Peak WL:Lp=451.4nm HWL:19.7nm

Render Index:Ra=75.7

R1 =74.64      R2 =79.78      R3 =80.99      R4 =76.68      R5 =74.83

R6 =71.19      R7 =83.59      R8 =63.76      R9 =-11.12      R10=49.49

R11=73.52      R12=44.41      R13=75.32      R14=89.03      R15=71.15

TM30 Parameters: Rf = 72.8, Rg:94.9

#### Photo Parameters:

Flux = 143.7 lm    Eff. : 208.44 lm/W    Fe = 440.0 mW

#### Electrical parameters:

VF = 5.750 V    IF = 119.9 mA    P = 689.4 mW Ch1

LEVEL:\*\*[OUT]      WHITE:ANSI\_5700K

Status: T=140.00ms Ip=47130 (72%) [ HAAS1200\_V1\_USB ] V2.00.288

Model:120MA  
 Tester:D.U.01.0151 24V  
 Temperature:25.3Deg  
 Manufactory:EVERFINE  
 Assessor:damin  
 System:WY + HAAS1200\_V1\_USB

Number:3  
 Date:2021-06-05 16-40  
 Humidity:65.0%  
 Remarks:---