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

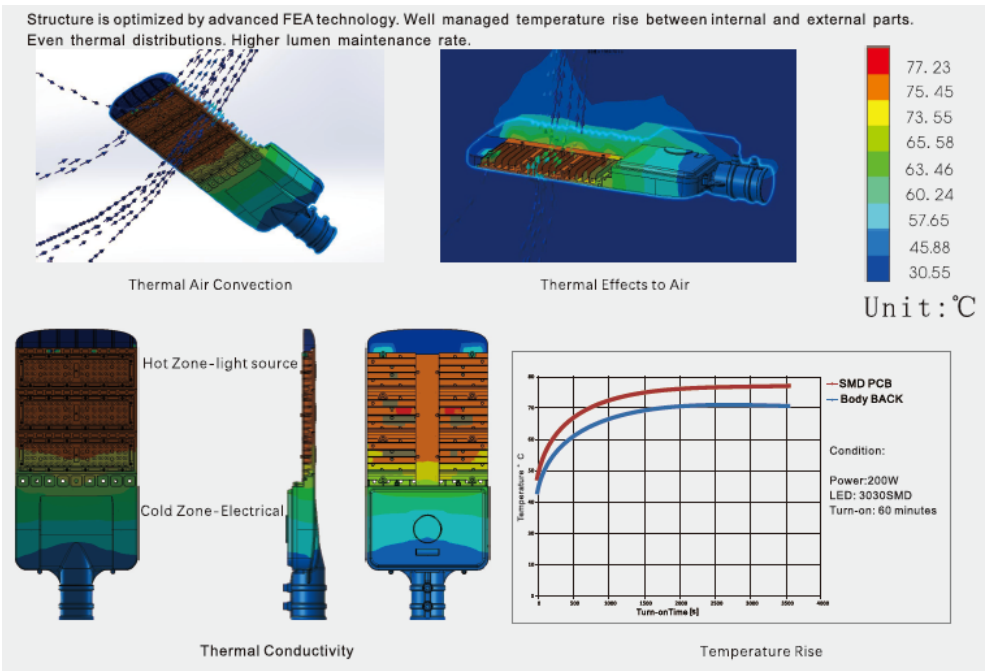
Note: *It can be with 2.4G Mesh slave controller and gateway to form 2.4G Mesh ADHOC wireless lighting control system.*

Description of performances:

test report	brand od led chip	luminous efficacy of led chip	luminous efficacy of luminaire	brand of led driver	power factor
IEC 60598-2-3 IEC 62741 IEC 62778 LM80	PHILIPS	240lm/W(5050 chips) 210lm/W(3030 chips)	175lm/W(5050) 160lm/W(3030)	Inventronics /Sosen	≥0.95

total harmonic distortion	surge lightning protection	light sensor	Opening mode of power cover	adjustable angle	IP protection
≤10%	6000 KV	NEMA light sensor optional	rear cover opening	optional	IP66

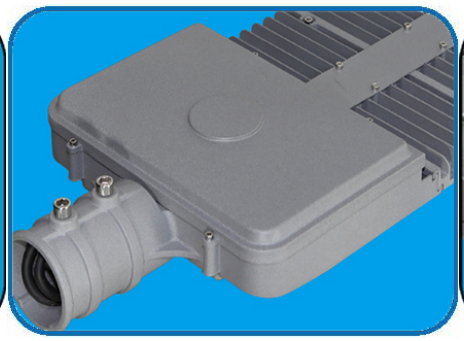
Thermal management:



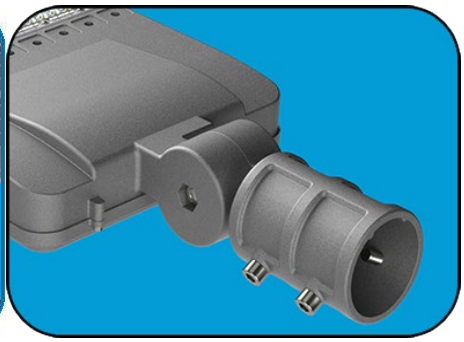
Product profiles:

Product details:

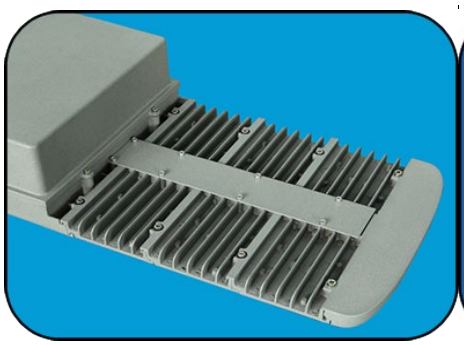
5050 led chip with 240lm/W



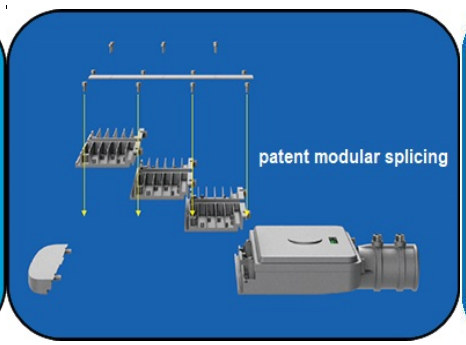
rear cover opening for easy maintenance



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	250W
Input voltage（V）	90-305Vac	90-305Vac	90-305Vac	90-305Vac
Power efficiency	91%	91%	91%	91%
Power factor	≥0.95	≥0.95	≥0.95	≥0.95
Surge lightning protection（V）	6000	6000	6000	6000
Total harmonic distortion	≤10%	≤10%	≤10%	≤10%
Brand of led chip	Philips	Philips	Philips	Philips
Luminous efficiency for 5050 led（lm/W）	240	240	240	240
Total luminous flux for 5050 led（lm）	24000±5%	36000±5%	48000±5%	60000±5%
Light efficiency for 5050 luminaire（lm/W）	175	175	175	175
Luminous efficiency for 3030 led（lm/W）	200	200	200	200
Total luminous flux for 3030 led（lm）	21000±5%	31000±5%	42000±5%	52000±5%
Light efficiency for 3030 luminaire（lm/W）	160	160	160	160
Correlated color temperature（K）	3000-6500	3000-6500	3000-6500	3000-6500
Color rendering index（Ra）	≥75	≥75	≥75	≥75
Beam angle（°）	145° *50°	145° *50°	145° *50°	145° *50°
LED lifespan（h）	100,000	100,000	100,000	100,000
Working temperature（℃）	-40～+55℃	-40～+55℃	-40～+55℃	-40～+55℃
2.4G mesh ADHOC wireless intelligent lighting control system	optional	optional	optional	optional
IP protection	IP66	IP66	IP66	IP66
IK protection	IK08	IK08	IK08	IK08
Led driver	Inventronics led driver	Inventronics led driver	Inventronics led driver	Inventronics led driver
Installation mode of led driver	built-in	built-in	built-in	built-in
Power cavity open mode	rear cover opening	rear cover opening	rear cover opening	rear cover opening
NEMA light sensor	optional	Optional	Optional	optional
Dimensions（mm）	540*270*90	630*270*90	720*270*90	810*270*90
Weight（Kg）	3.0	4.0	5.0	6.0
Installation of pipe diameter（mm）	Φ60	Φ60	Φ60	Φ60
Warranty	5 year	5 year	5 year	5 year

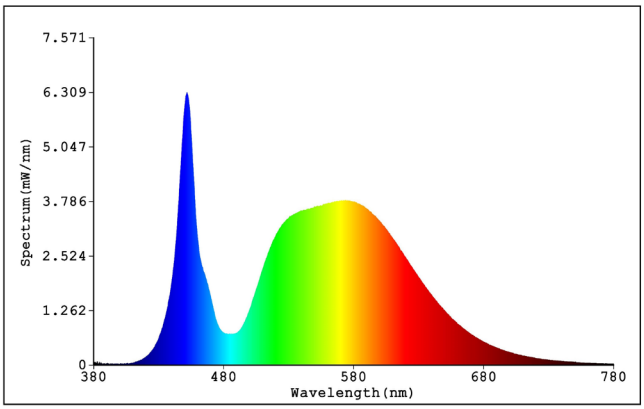
Test report of luminous efficiency of 5050 led chip:

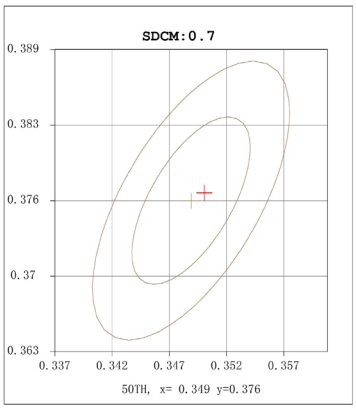
EVERFINE 远方

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:Lp=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+000umol/s blue ratio=3.44 fluo. eff.=5.108e-001

Photosynthetic(400-700nm):PPF:2.8969μmol/s

PRF:632.77mW

Eff(PPF):2.97μmol/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