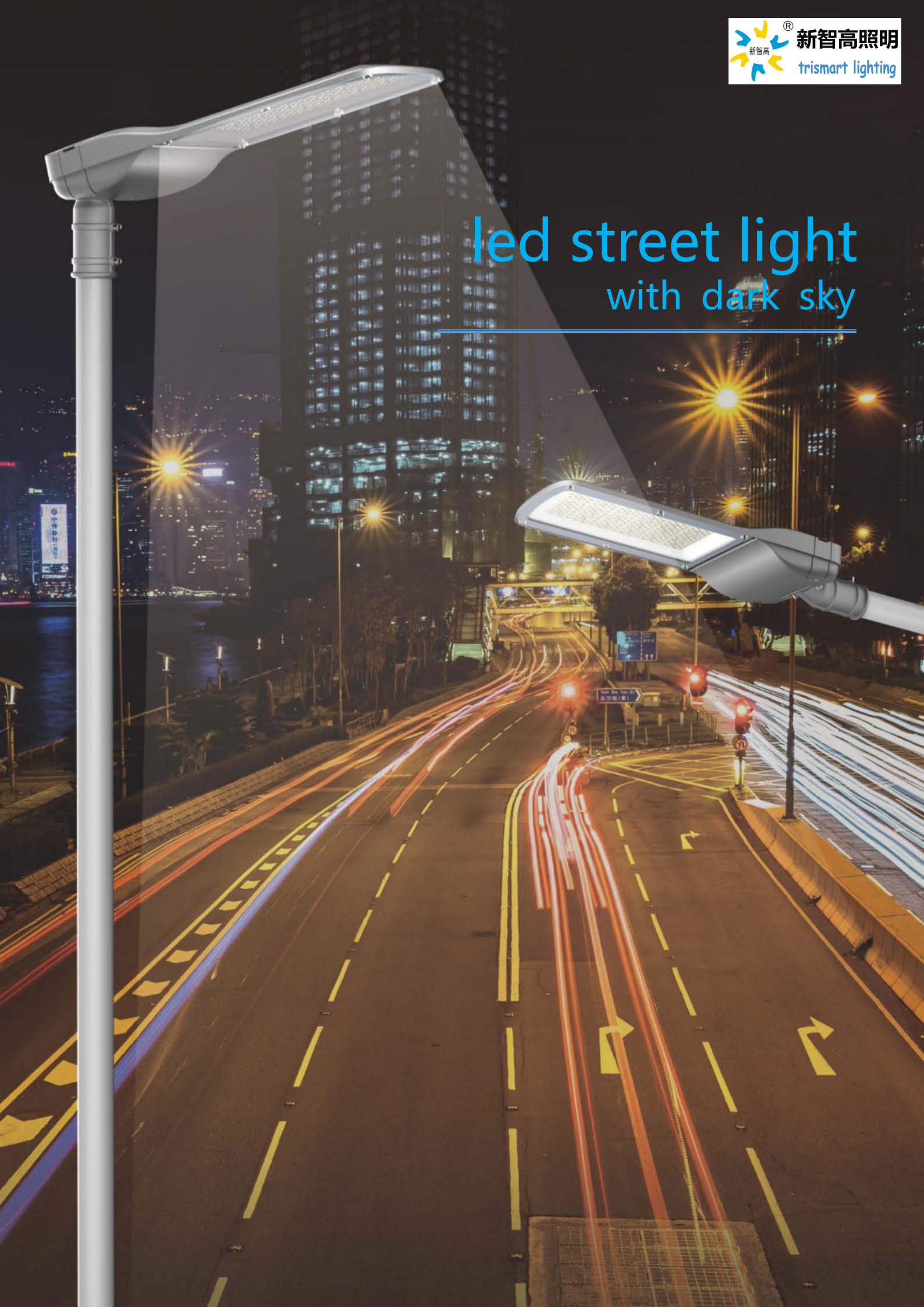


# led street light with dark sky

---

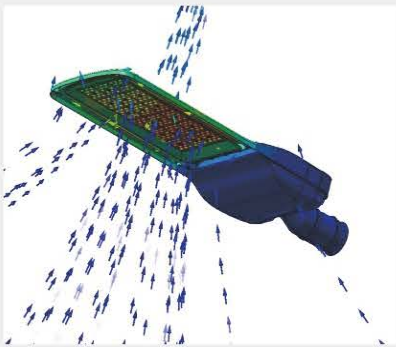


# OVERVIEW

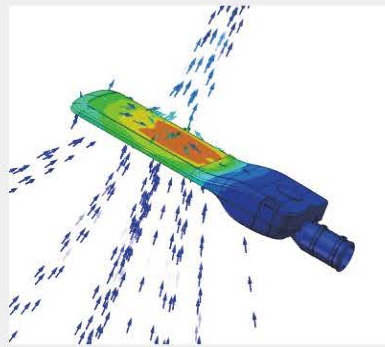


## Thermal Management

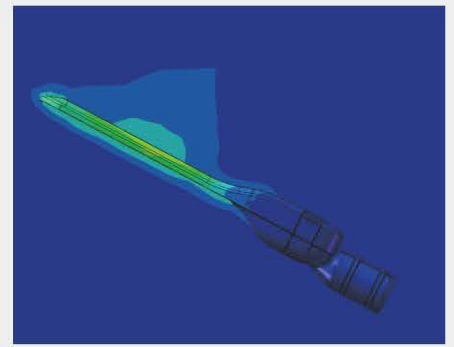
Structure is optimized by advanced FEA technology. Well managed temperature rise between internal and external parts. Even thermal distributions. Higher lumen maintenance rate.



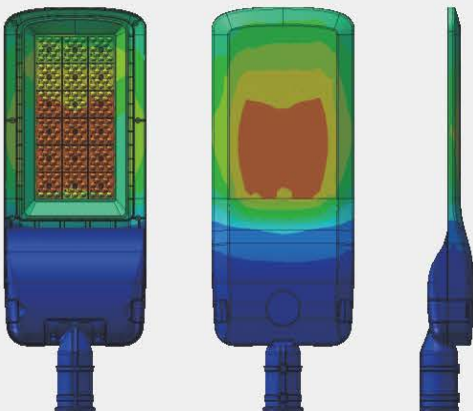
Thermal Air Convection



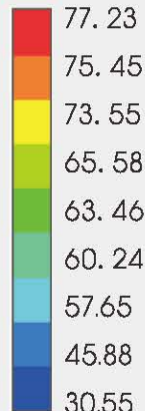
Thermal Air Convection



Thermal Effects to Air



Thermal Conductivity



Unit: °C



Temperature Rise

Condition:  
Power: 200W  
LED: 3030SMD  
Turn-on: 60 minutes

## APPLICATIONS

Widely applicable to road, expressways, parks, plazas and villas, etc.



Streamline Shape  
Wind-proof Design

# EXPLODED

ADC12 Die-casting Aluminum Body,  
Thermal Efficiency up to 96W/M.K

Optional With Sensor

Famous Brand Waterproof LED Driver

Sturdy Mounting  
Lamp Holder

Waterproof Silicone Gel

Highly Thermal Conductive Aluminum PCB

3030 SMD Light Source, Lighting Efficacy up to 150 LM/W

Uv-proof Optical Lens,  
Precision Road Lighting Distributions

High Temperature and UV Resistant Nano-reflectors

Waterproof Silicone Gel

Strong Tempered Glass

## *Two Styles Available*



Electrothermal separation structure



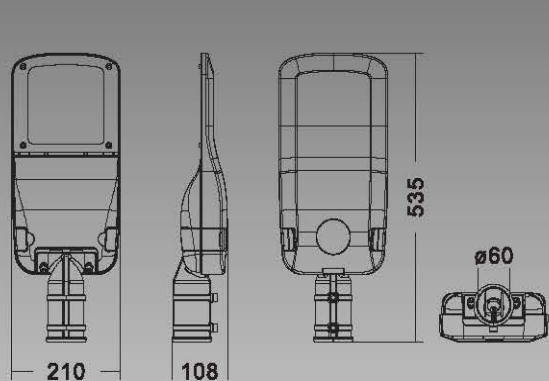
Regular Style



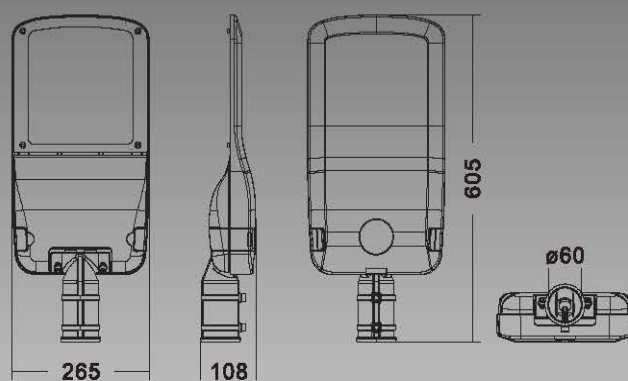
Frame Style

## DIAGRAMS

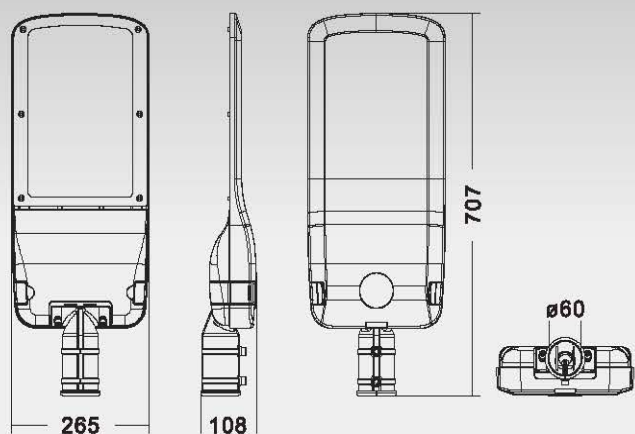
Unit:mm



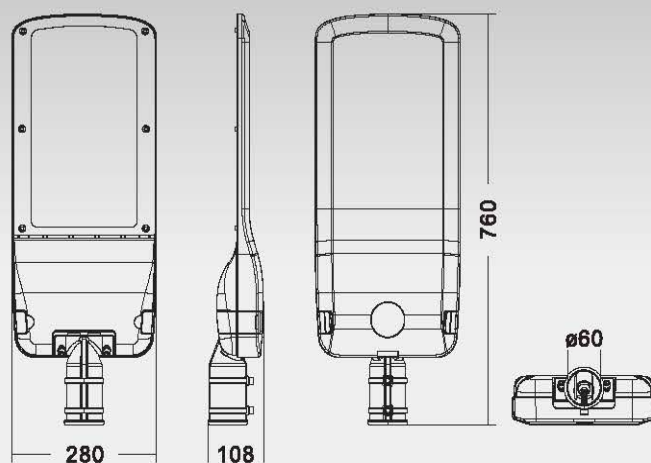
50W



100W

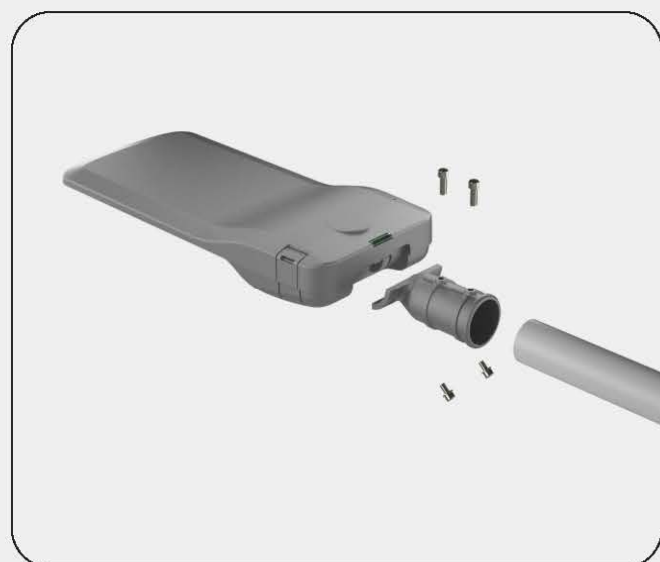


150W



200W

## INSTALLATION



Horizontal installation

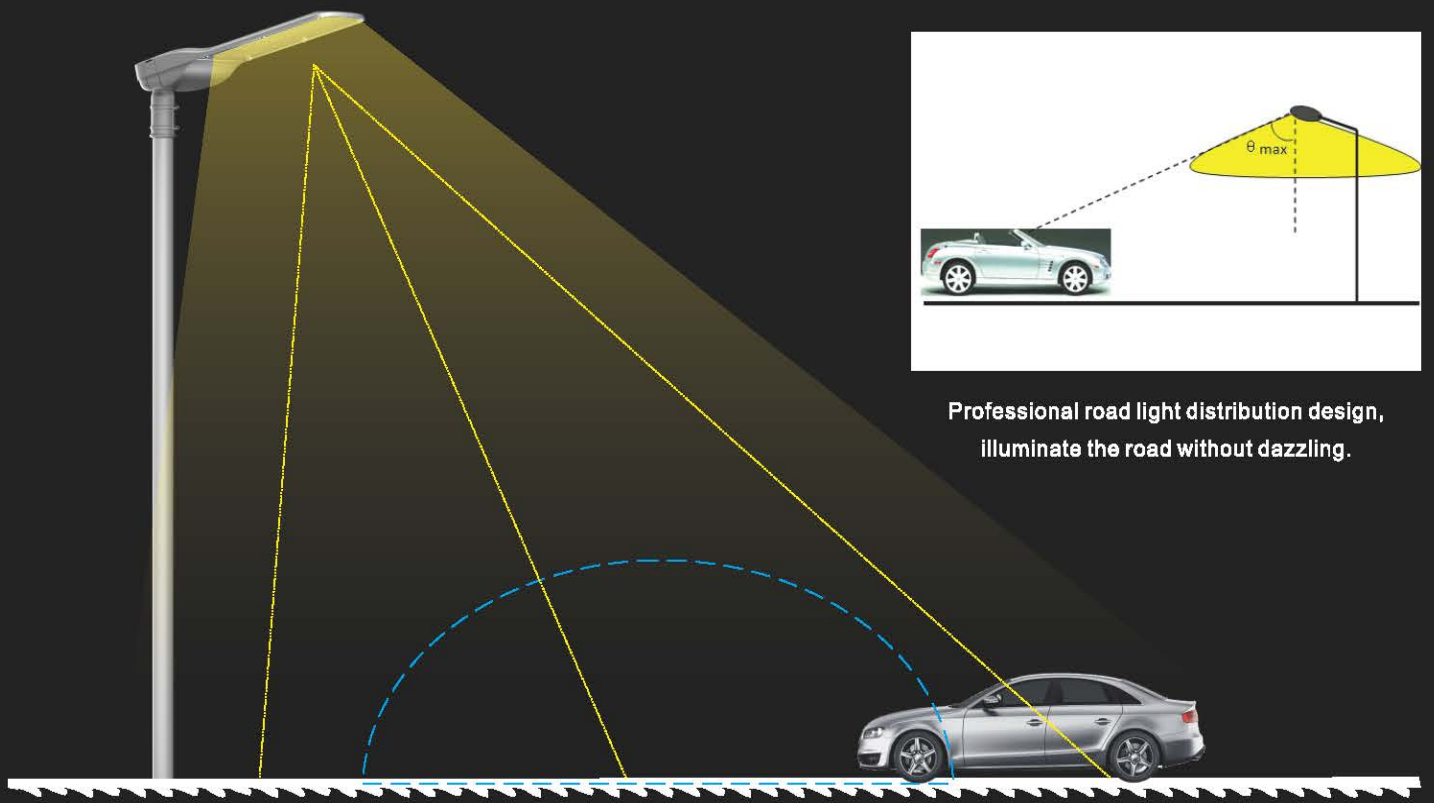
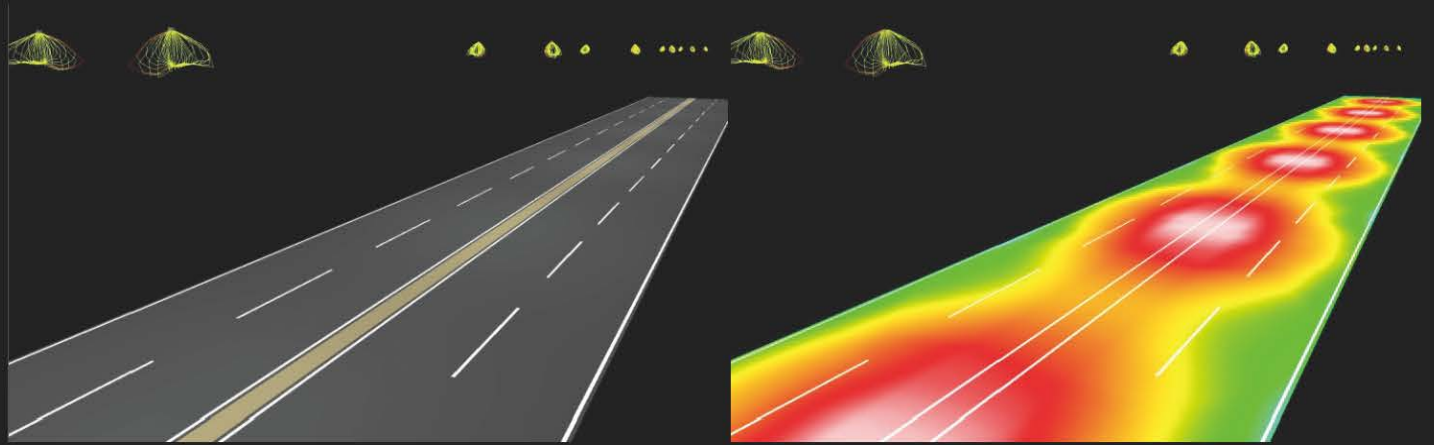
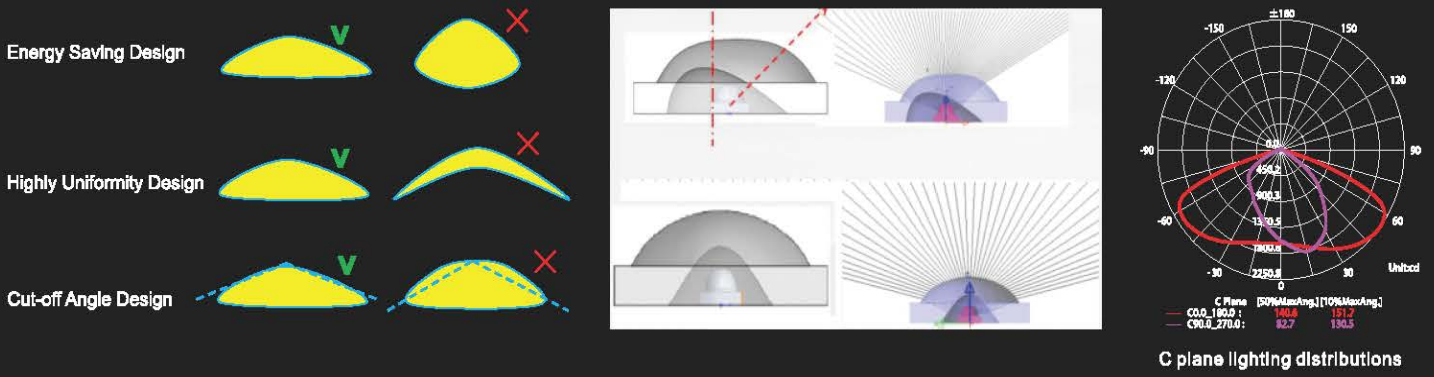


Vertical installation

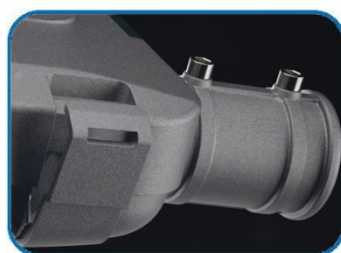
# OPTICS

Tech. Support: Tell us the room length, width, height and the usage.

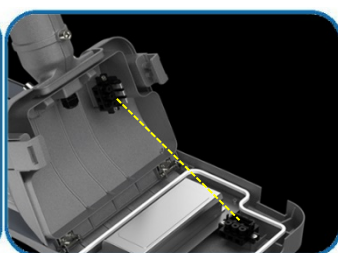
We have an engineer team to respond the DIALUX simulations for lights quantity calculation and effects. ies files are available upon request.



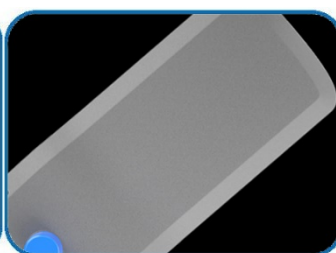
## Product details



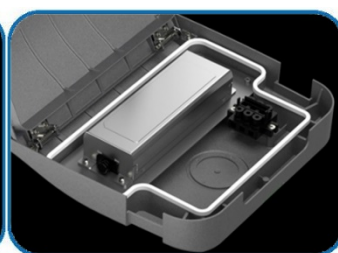
quick flip opening for easy maintenance



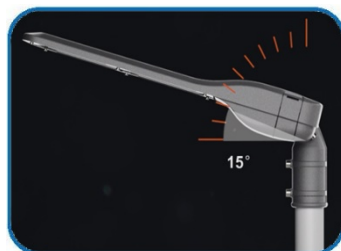
cover opening and power-off device



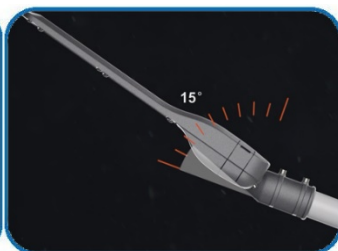
streamline shell without dust accumulation



weathering and anti-corrosion Si-seal ring



lamp angle adjustable (vertical mounting)



lamp angle adjustable (horizontal mounting)



NEMA light sensor optional



dark sky design without light pollution

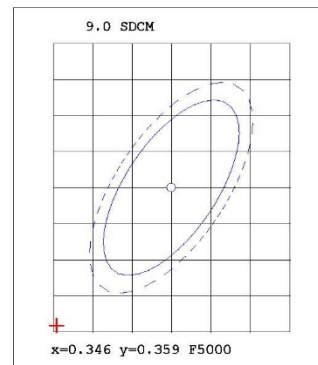
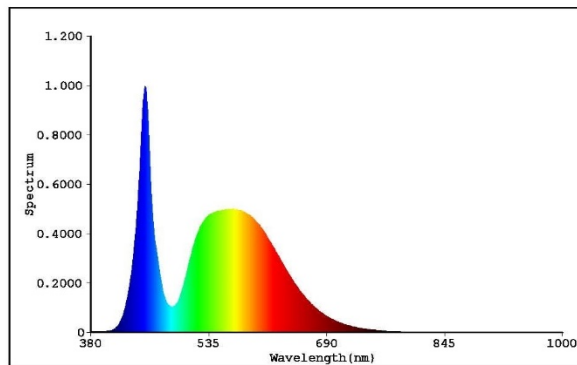
## Main technical parameters

| Parameter items                         | SZG508A-50W           | SZG508A-100W          | SZG508A-150W          | SZG508A-200W          |
|---|-----------------------|-----------------------|-----------------------|-----------------------|
| 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%                  |
| Luminous efficiency for led chip (lm/W) | 200                   | 200                   | 200                   | 200                   |
| Total luminous flux for led chip (lm)   | 10000±5%              | 20000±5%              | 30000±5%              | 40000±5%              |
| Light efficacy for luminaire (lm/W)     | 155                   | 155                   | 155                   | 155                   |
| Correlated color temperature (K)        | 3000-6500             | 3000-6500             | 3000-6500             | 3000-6500             |
| Color rendering index (Ra)              | ≥75                   | ≥75                   | ≥75                   | ≥75                   |
| Beam angle (°)                          | 150°*80°              | 150°*80°              | 150°*80°              | 150°*80°              |
| LED lifespan (h)                        | 100,000               | 100,000               | 100,000               | 100,000               |
| Material of housing                     | die-casting aluminum  | die-casting aluminum  | die-casting aluminum  | die-casting aluminum  |
| Brand of led driver                     | Inventronics/Trismart | Inventronics/Trismart | Inventronics/Trismart | Inventronics/Trismart |
| Opening mode for power cavity           | quick flip opening    | quick flip opening    | quick flip opening    | quick flip opening    |
| Cover opening and power-off device      | optional              | optional              | optional              | optional              |
| Dark sky requirement                    | meet                  | meet                  | meet                  | meet                  |
| Working temperature (°C)                | -40~+55°C             | -40~+55°C             | -40~+55°C             | -40~+55°C             |
| IP protection                           | IP66                  | IP66                  | IP66                  | IP66                  |
| Dimensions (mm)                         | 535*210*108           | 605*265*108           | 710*265*108           | 760*280*108           |
| Weight (Kg)                             | 3.8                   | 5.0                   | 6.0                   | 7.0                   |
| Installation of pipe diameter (mm)      | Φ60                   | Φ60                   | Φ60                   | Φ60                   |
| Warranty                                | 5 years               | 5 years               | 5 years               | 5 years               |

# Test report of luminous efficiency of led chip



## 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:---