



SUNMASTER

LED STREET LIGHT

COBRA SERIES

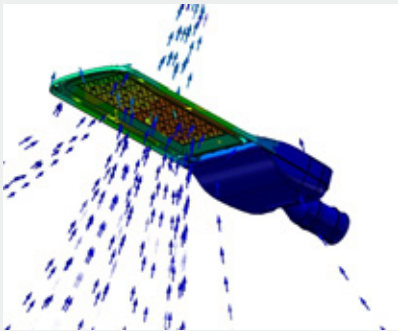


OVERVIEW

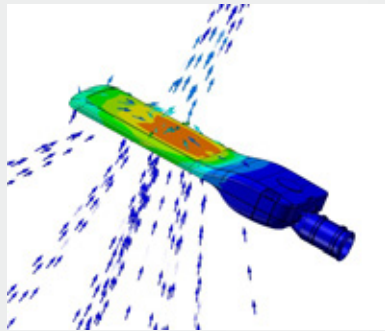


Thermal Management

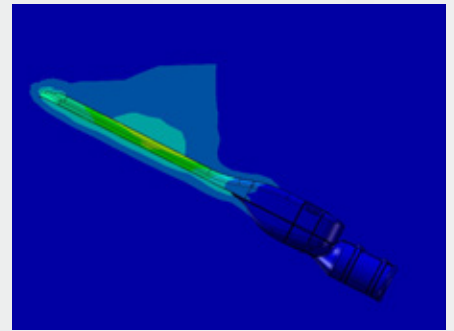
Structure is optimized by advanced FEA technology. Well managed temperature rise between internal and external parts. Even thermal distributions. Higher lumen maintenance rate.



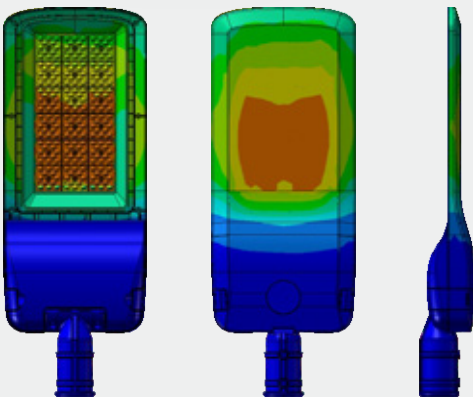
Thermal Air Convection



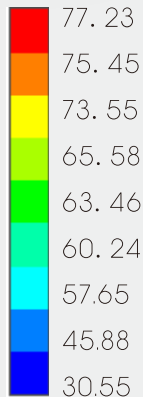
Thermal Air Convection



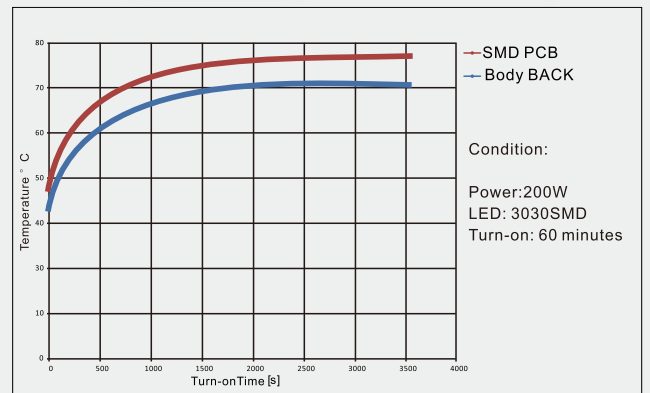
Thermal Effects to Air



Thermal Conductivity



Unit: °C



Temperature Rise

EXPLODED

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

Twist Photocell Control

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



Regular Style



Frame Style



Open the cover and power off

Electrical, Cold Zone

Light source, Hot Zone

Large space for LED driver

Electrothermal separation structure

APPLICATIONS

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

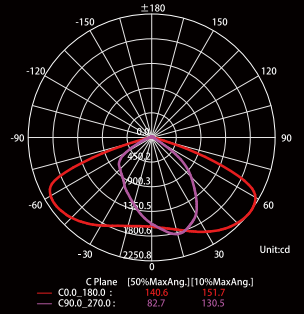
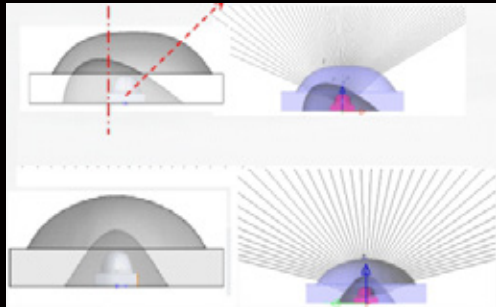
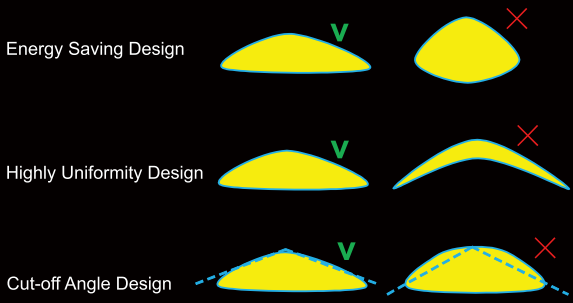


Streamline Shape
Wind-proof Design

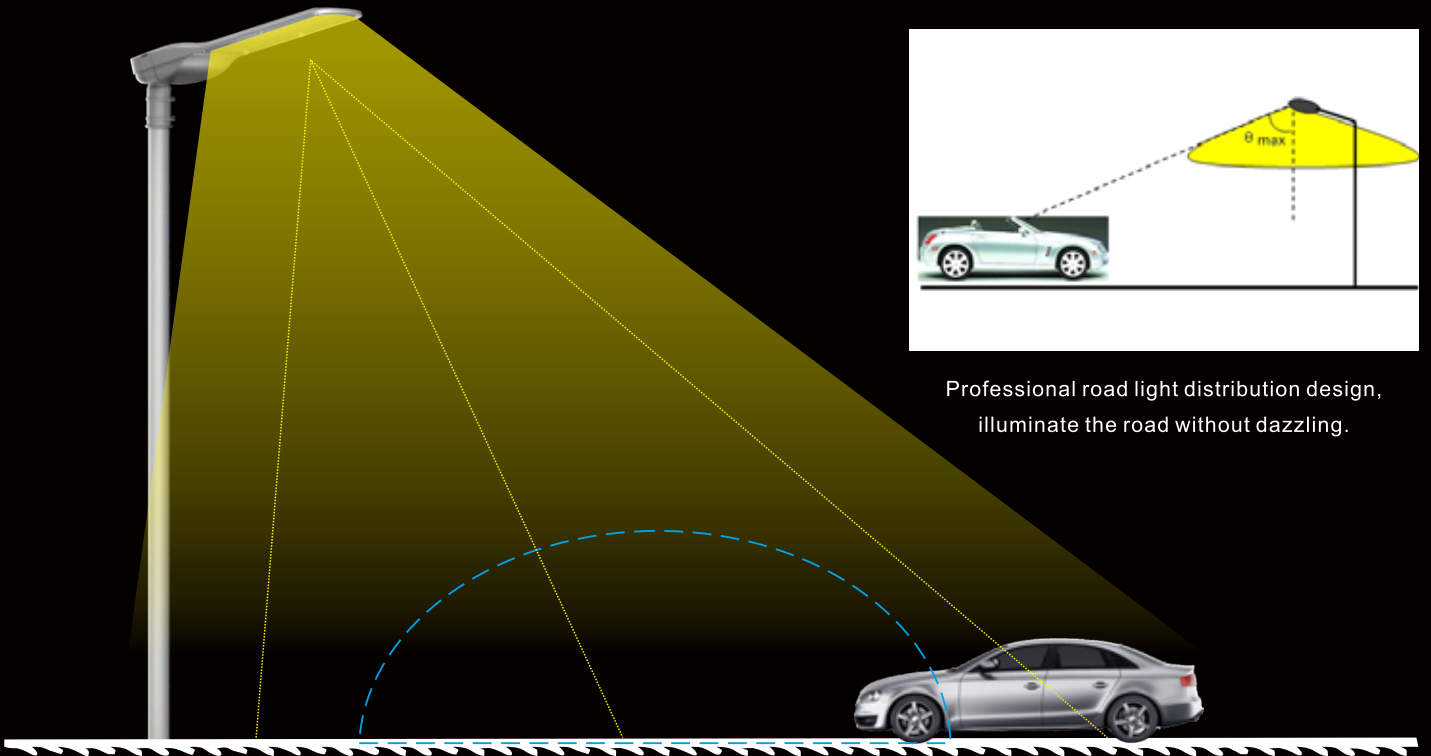
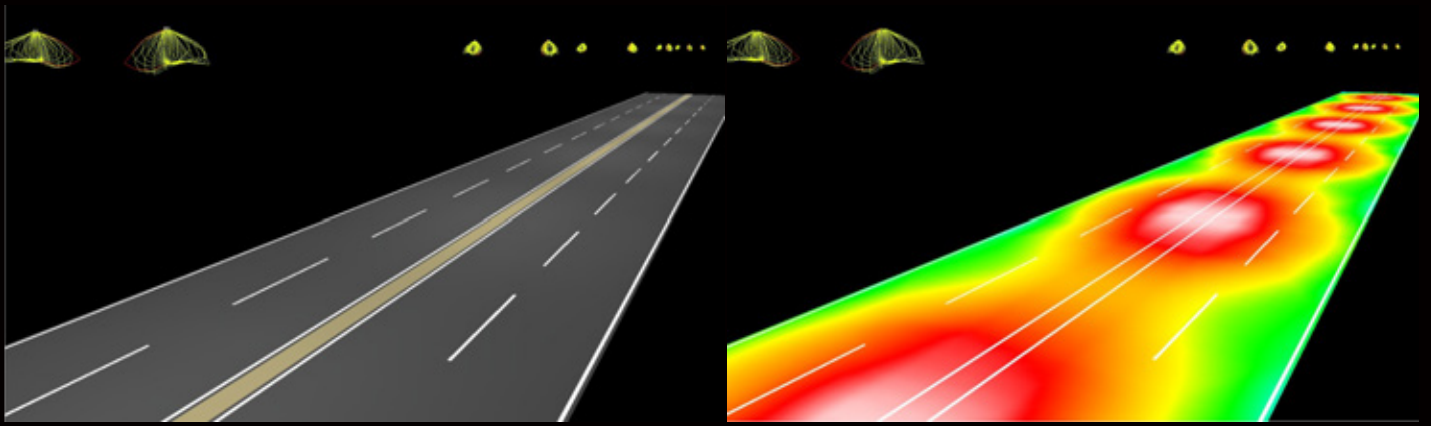
OPTICS

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.



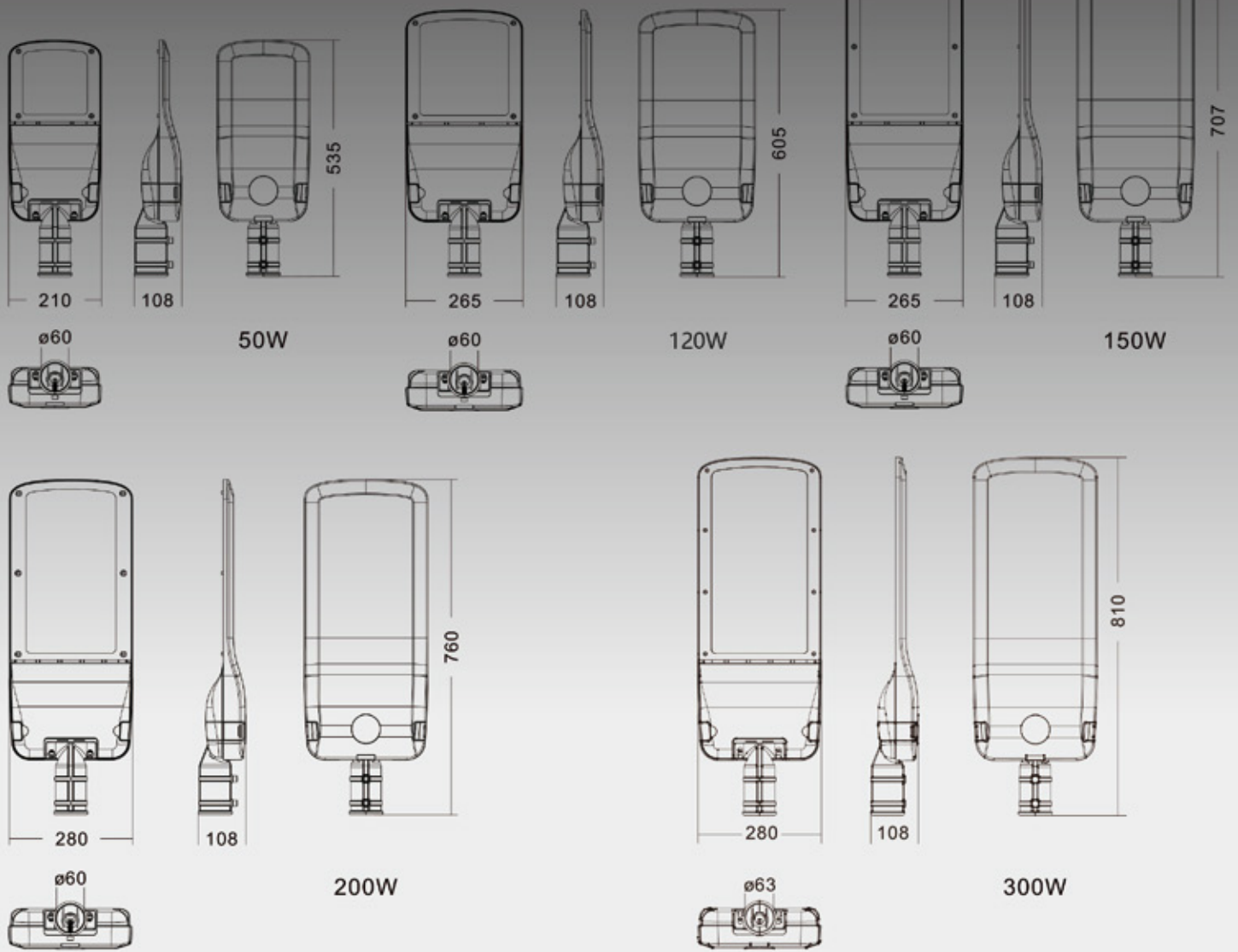
C plane lighting distributions



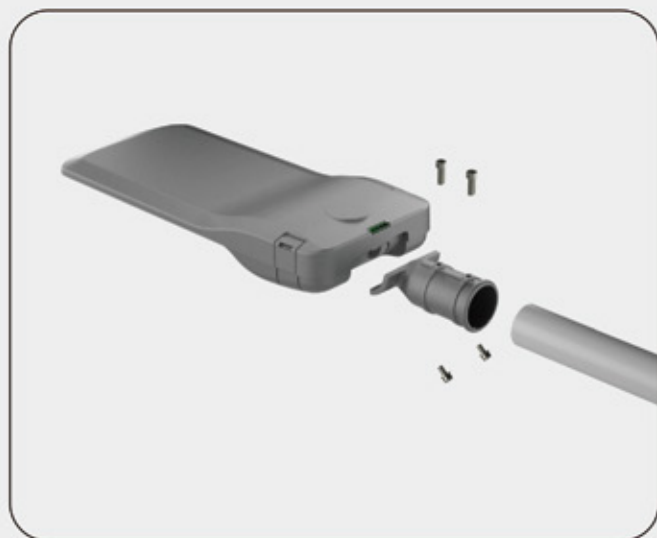
Professional road light distribution design, illuminate the road without dazzling.

DIAGRAMS

Unit: mm



INSTALLATION



Horizontal installation



Vertical installation

SPECIFICATIONS

| Product | SLD50-50W | SLD50-100W | SLD50-120W | SLD50-150W | SLD50-200W |
|------------------------|--|------------|------------|------------|------------|
| Nominal Wattage | 50W | 100W | 120W | 150W | 200W |
| LED Working Current | 1140 mA | 2270 mA | 2730 mA | 3400 mA | 4500 mA |
| Number of Modules | 1 | 1 | 1 | 1 | 1 |
| Input Voltage | 100-240V /277V AC 50 /60Hz | | | | |
| Dimming | 0-5V, 0-10V, PWM, Timer | | | | |
| LED Brand | Philips Lumileds 3030 | | | | |
| Driver Brand | Inventronics Driver or Meanwell Driver | | | | |
| Max. Current @ 120V | 0.42A | 0.84A | 1.0A | 1.5A | 1.67A |
| Max. Current @208V | 0.24A | 0.48A | 0.57A | 0.72A | 0.96A |
| Max. Current @240V | 0.21A | 0.42A | 0.50A | 0.63A | 0.83A |
| Max.Current @277V | 0.90A | 0.36A | 0.44A | 0.54A | 0.72A |
| Operating Temperature | -40°C to +50°C | | | | |
| Power Factor (PF) | >0.95 | | | | |
| THD | <20% | | | | |
| Lumen Output (+/- 5%) | 8000 lm | 16000 lm | 19200 lm | 24000 lm | 32000 lm |
| Luminaire efficacy | >160 lm /w | >160 lm /w | >160 lm /w | >160 lm /w | >160 lm /w |
| Optic | Type I; Type II; Type III; Typev, Short | | | | |
| CRI | >70 | | | | |
| CCT | 3000K (Warm White), 4000K (Nature White), 5000K (Pure White), 5700K (Cool White) | | | | |
| Rating | IP66, IK10 | | | | |
| Material | Housing: Die-cast aluminum; Heat sink: Stretched Aluminium Alloy; Lens: PC | | | | |
| Installation | Horizontal and vertical installation for optional; Adjustable tilt angle: 0-10-15° | | | | |
| Accessories (Optional) | Photocell; Surge Protection Device(GKv /10KV); Adapter for 40 /42mm pole mounting (Normal mounting Ø60 mm) | | | | |
| Shell Color | Silver (RAL9022) or Black (RAL9005), other RAL colors available on request | | | | |
| Lumen Maintenance | >75,000 hours-Lx at 25°C | | | | |
| Certifications | UL,CE,RoHS,ISO9001 | | | | |
| Packaging Type | 1 unit /ctn. | | | | |

PRODUCT PARAMETERS

| Power | Light Source(Quantity) | Regular Style Size | Frame Style Size |
|-------|------------------------|--------------------|------------------|
| 50W | 3030/5050/10B5C | 535*210*108mm | 535*210*108mm |
| 100W | 3030/5050/22B5C | 605*265*108mm | 605*265*108mm |
| 120W | 3030/5050/22B5C | 605*265*108mm | 605*265*108mm |
| 150W | 3030/5050/36B5C | 710*265*108mm | 710*265*108mm |
| 200W | 3030/5050/43B5C | 760*280*108mm | 760*280*108mm |

PACKING INFORMATION

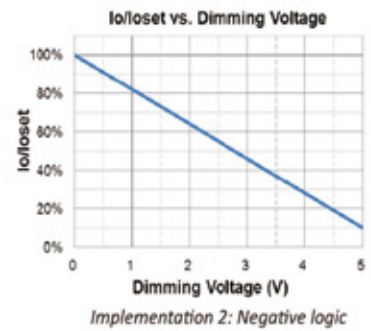
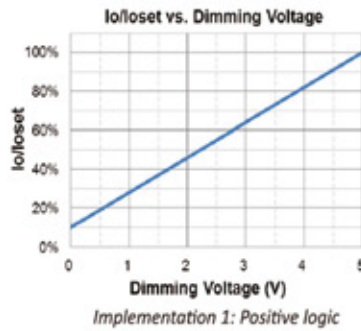
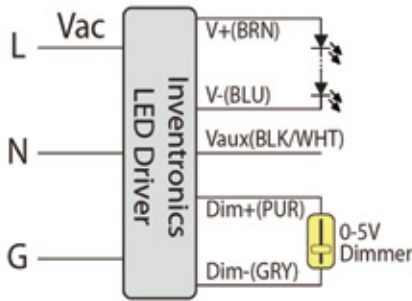
| Power | Packaging Size | Qty/CTN | 20'GP | 40'GP | 20'GP |
|-------|----------------|---------|----------|----------|----------|
| 50W | 570*270*155mm | 1PC/CTN | 1,174PCS | 2,431PCS | 2,851PCS |
| 100W | 640*320*155mm | 1PC/CTN | 882PCS | 1,827PCS | 2,142PCS |
| 120W | 640*320*155mm | 1PC/CTN | 882PCS | 1,827PCS | 2,142PCS |
| 150W | 740*320*155mm | 1PC/CTN | 763PCS | 1,580PCS | 1,853PCS |
| 200W | 790*320*155mm | 1PC/CTN | 715PCS | 1,480PCS | 1,735PCS |

Dimming

Multiple dimming functions are integrated (0-5V DC or 0-10V DC or PWM Signal or Timer).

† 0-5V Dimming

The recommended implementation of the dimming control is provided below.

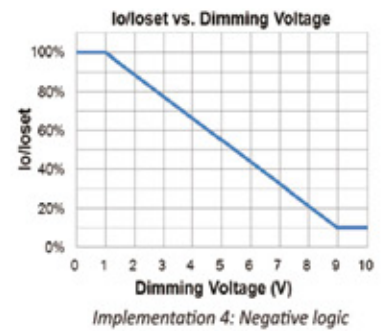
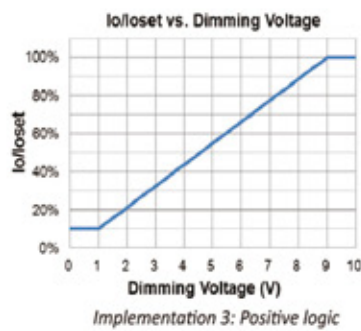
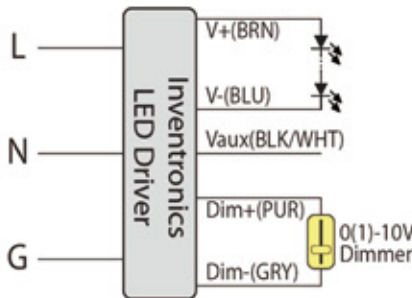


Notes:

1. The dimmer can also be replaced by an active 0-5V voltage source signal or passive components like resistors and zener.
2. Do NOT connect Dim- to the output V- or V+, otherwise the driver will not work properly.
3. If 0-5V dimming is not used, Dim + should be open.
4. When 0-5V negative logic dimming mode and Dim+ is open, the driver will output maximum current.

† 0-10V Dimming

The recommended implementation of the dimming control is provided below.

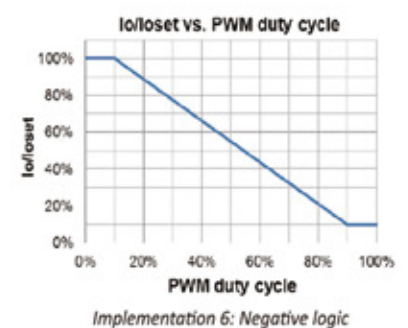
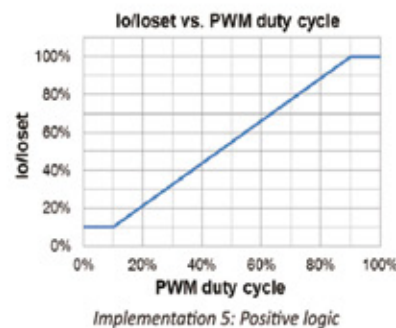
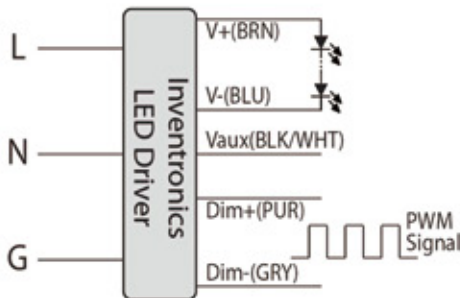


Notes:

1. The dimmer can also be replaced by an active 0-10V voltage source signal or passive components like resistors and zener.
2. Do NOT connect Dim- to the output V- or V+, otherwise the driver will not work properly.
3. If 0-10V dimming is not used, Dim + should be open.
4. When 0-10V negative logic dimming mode and Dim+ is open, the driver will output maximum current.

† PWM Dimming

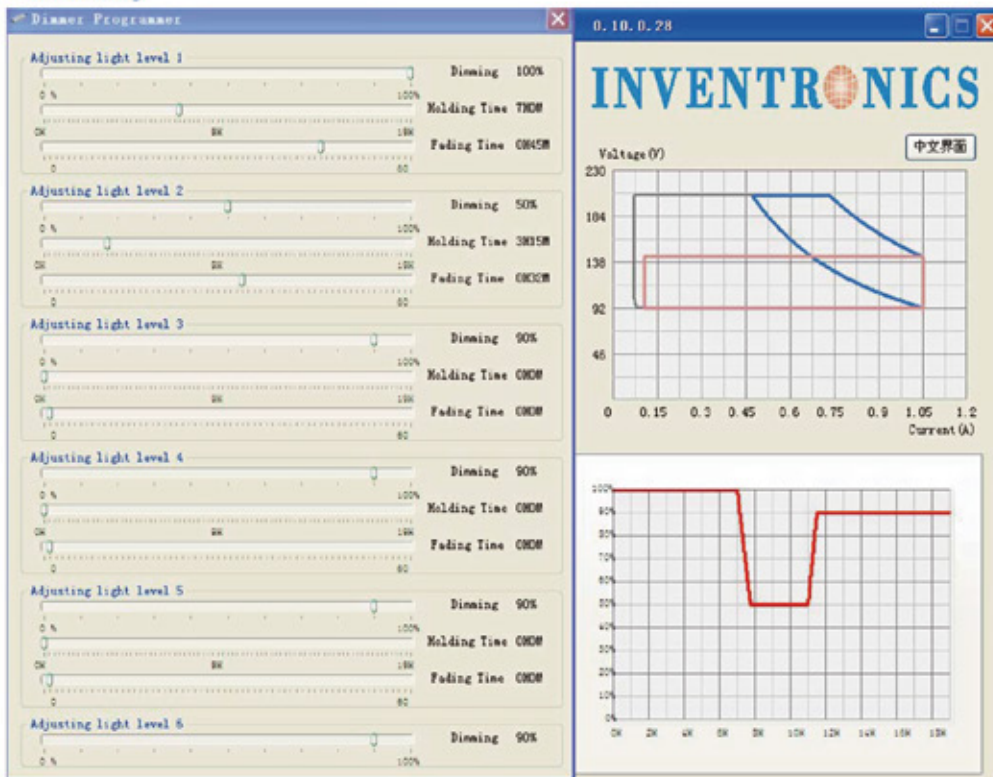
The recommended implementation of the dimming control is provided below.



Notes:

1. Do NOT connect Dim- to the output V- or V+, otherwise the driver will not work properly.
2. If PWM dimming is not used, Dim + should be open.
3. When PWM negative logic dimming mode and Dim+ is open, the driver will output maximum current.

† Time Dimming



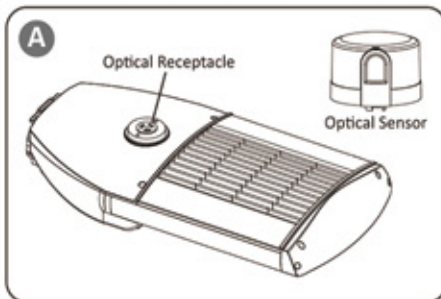
(Setting Window)

Notes:

1. Time Dimming is required to program by computer (Microsoft Windows).
2. Set the timing curve by pulling the sliders.

Optical Control

Optical control function is supported by optional



If the fixture with OPTICAL CONTROL function, the Optical Receptacle will be installed on the cover of fixture. See **A**. Fit the pins of Optical Sensor to Optical Receptacle, firmly insert and rotate Optical Sensor to proper position.



Optical Sensor

AFTER-SALE SERVICE

Hangzhou KULON Electronics Co., Ltd ("KULON") warrants this KULON-branded hardware product against defects in materials and workmanship under normal use for a period of FIVE (5) YEAR from the date of purchase. KULON provides free repair or replacement within warranty period. KULON shall charge against defeats by abnormal storage, usage, connection or change the structure or any components of the product.

*Damage by thunder stroke over 6KV(L,N to FG) /4KV(L to N) will not covered by warranty based on IEC61000-4-5.

The product (LED lighting equipment, electrical, electronic equipment) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

- Features and specifications are subject to change without notice.
- The product color may be different with actual due to discrepancy of camera or screen settings.
- KULON (**Kulon**) is a trademark of KULON Tech. All other trademarks are trademarks of their respective owners.

Safely fulfilling requirements

Whether for narrow paths, wide roads or other traffic zones – six light distribution patterns and a variety of lumen levels make the Streetlight 20 LED highly flexible.

Standard-compliant light for all lighting classes

The Streetlight 20 LED is highly flexible in use. The luminaire emits light complying with appropriate standards for all lighting classes and represents a luminaire system for most typical road lighting applications. With lumen levels to 30,000 lm, the luminaire is designed for mounting heights from 3 to 14 metres.

Simple planning with clear nomenclature

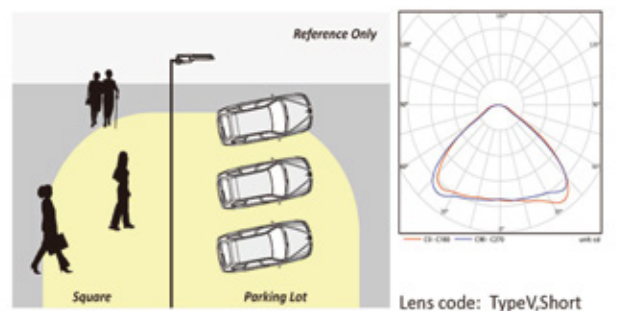
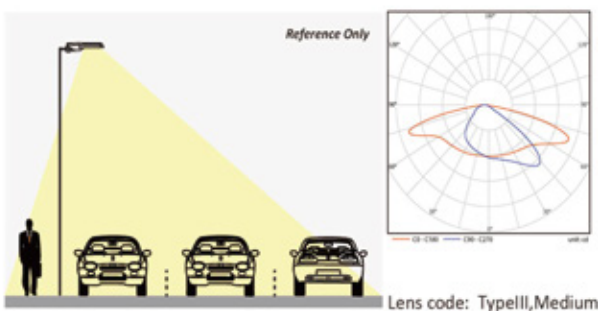
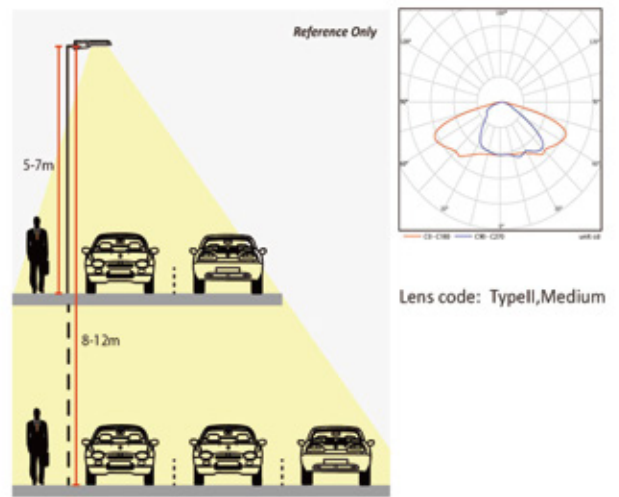
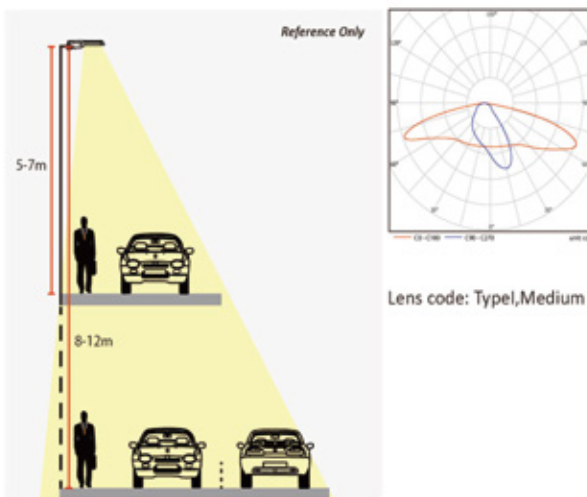
Only a wide range of optics with matched beam distribution characteristics for a variety of needs is able to achieve good photometric results. It's here that the innovative LED lens technology of the Streetlight 20 LED with its precise light control offers lighting designers genuine added value. The five light distribution patterns of this system meet all typical needs for technical road lighting.

A further plus is provided by simple and clear nomenclature indicating specific light distributions, thus simplifying planning. Individually calculating a system is however indispensable – only this can confirm selection of the suitable optic.

Uniform quality of light due to platform concept

While application possibilities for the Streetlight 20 LED are extremely diverse, the characteristic of the lighting result remains uniform thanks to the luminaire's platform concept. This enables situations with various mounting heights, e.g. with the transitions from collection roads to residential streets, to be harmoniously illuminated with a uniform quality of light.

Asymmetric light distribution characteristics



More
+ Power
Less Expense

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