

BBT
LIGHTING



ALCANO Series



IP66

EXPLODED

Easy-open back cover



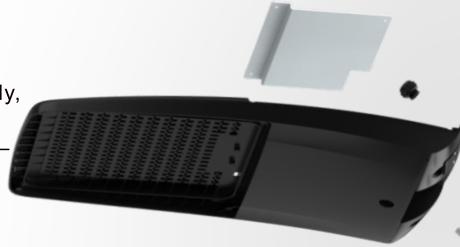
Cut-off connector, Automatic power off when back cover is opened

Waterproof silicone rubber

Famous brand waterproof LED driver

SPD up to 20KV optional

ADC12 Die-casting aluminum lamp body, thermal efficiency up 96w/m.k



Vertical and horizontal mount ways for different installation needing

Nano-plastic reflector, no yellow color change after long time using



3030 SMD LED chips, 5050 SMD LED chips optional



High efficiency aluminum PCB, Efficient heat dissipation



High temperature resistant optical lens. UV-proof design No yellow color change after long time using. Precision lighting angles



Waterproof silicone rubber



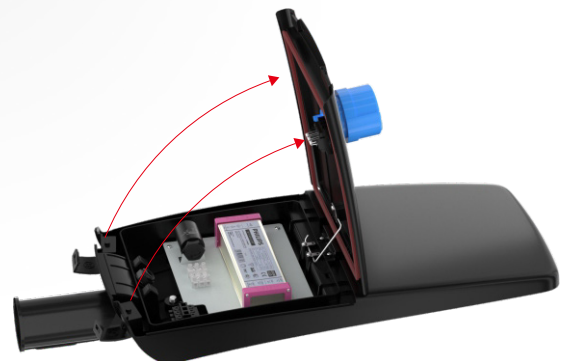
Super white toughen glass cover



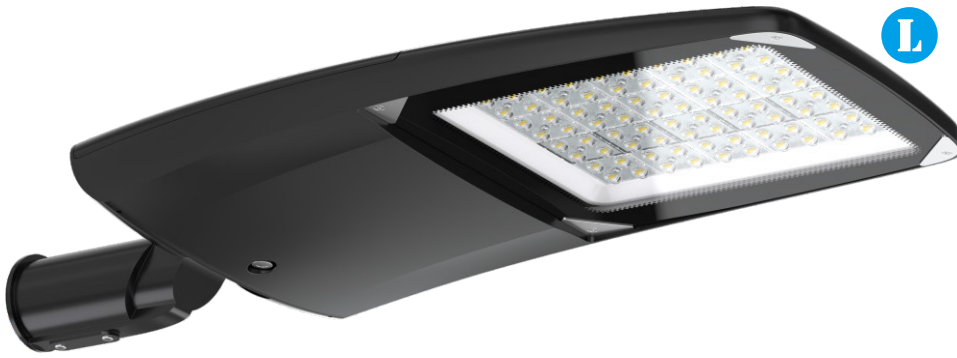
Optional with or without photocell sensor

PIR sensor control 100% lumen output when people approach 20% lumen output after person leaves

Tool-free maintenance



Large inner space for LED driver, Better heat radiation performance



ALCANO-L (180W / 200W / 210W / 240W / 250W)



ALCANO-M (100W / 110W / 120W / 150W / 160W)



ALCANO-S (20W / 30W / 40W / 50W / 60W / 80W)

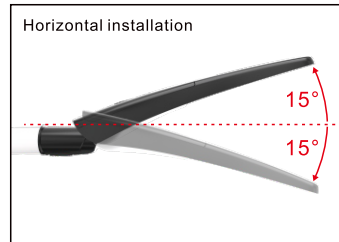
TWO INSTALLATION METHODS



Horizontal installation

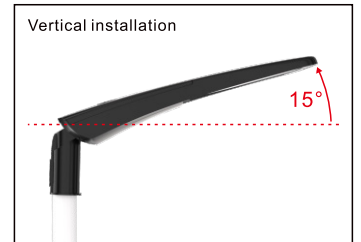


Vertical installation



Horizontal installation

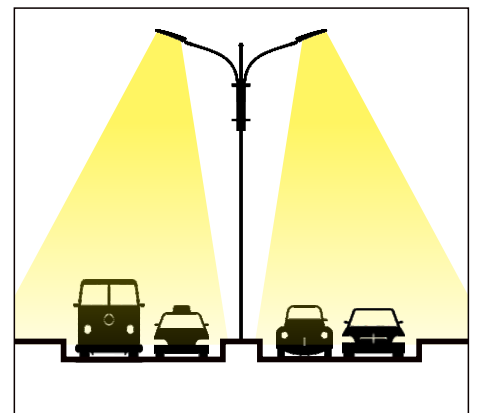
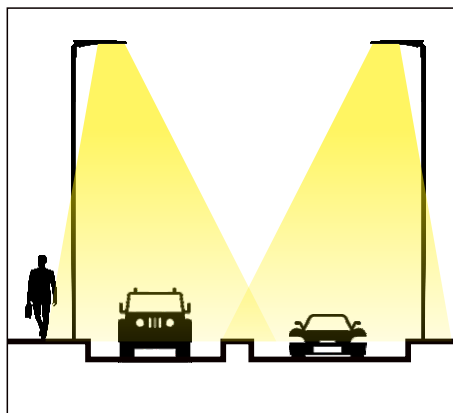
Adjustable up and down 15°



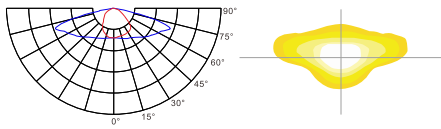
Vertical installation

Adjustable up 15°

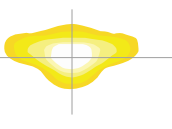
APPLICATIONS



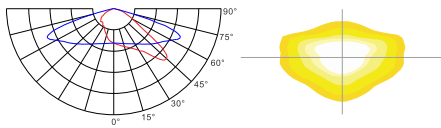
OPTICS



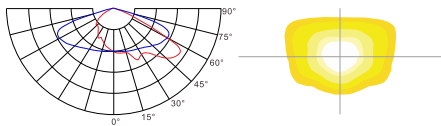
Type I



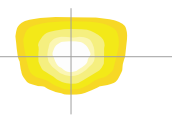
Type II



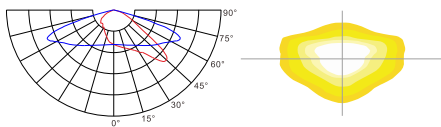
Type III



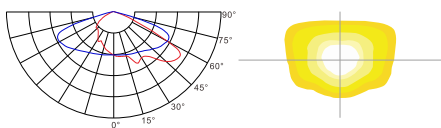
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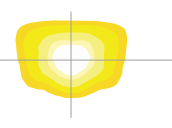
Type II



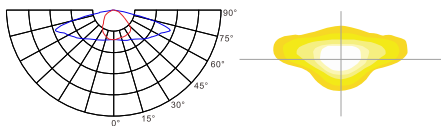
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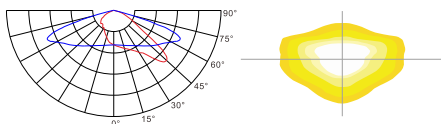
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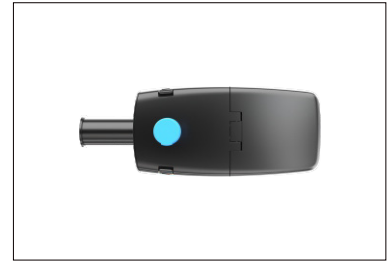
Type II



Type III

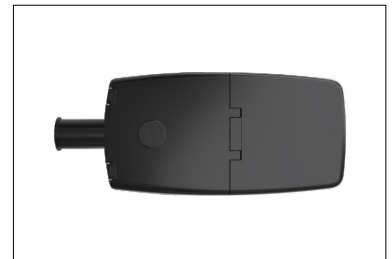
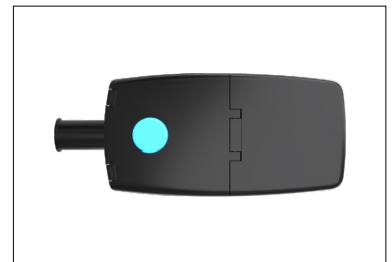


S



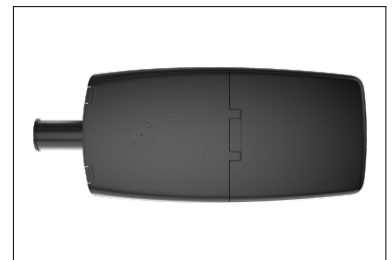
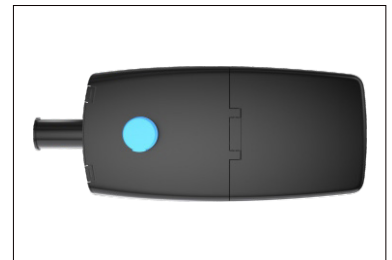
ALCANO-S (20W / 30W / 40W / 50W / 60W / 80W)

M



ALCANO-M (100W / 110W / 120W / 150W / 160W)

L



ALCANO-L (180W / 200W / 210W / 240W / 250W)

MAIN PARAMETERS



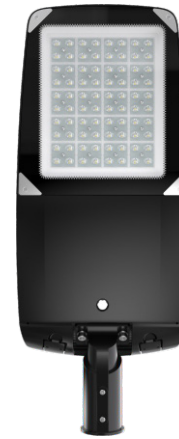
20W / 30W / 40W / 50W / 60W / 80W

ALCANO-S



100W / 110W / 120W / 150W / 160W

ALCANO-M

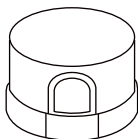


180W / 200W / 210W / 240W / 250W

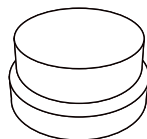
ALCANO-L

Model No.	Wattage (W)	Led Chips Qty (3030)	Luminous Flux (LM)	LED Chips Qty (5050)	Luminaire Flux (LM)	Qty per box	N.W (kg)	G.W (kg)	Packing size (MM)	20ft (pcs)	40HQ (pcs)
ALCANO -S-20	20	48	> 2600	16	> 2800	1PC/CTN	4.3	5.0	500×265×165	1270	3090
ALCANO -S-30	30	48	> 3900	16	> 4200	1PC/CTN	4.3	5.0	500×265×165	1270	3090
ALCANO -S-40	40	48	> 5000	16	> 5600	1PC/CTN	4.3	5.0	500×265×165	1270	3090
ALCANO -S-50	50	64	> 6500	24	> 7000	1PC/CTN	4.4	5.1	500×265×165	1270	3090
ALCANO -S-60	60	64	> 7800	24	> 8400	1PC/CTN	4.4	5.1	500×265×165	1270	3090
ALCANO -S-80	80	96	> 10400	36	> 11200	1PC/CTN	4.5	5.2	500×265×165	1270	3090
ALCANO -M-100	100	144	> 13000	48	> 14000	1PC/CTN	7.5	8.5	630×350×180	700	1700
ALCANO -M-110	110	144	> 14300	48	> 15400	1PC/CTN	7.5	8.5	630×350×180	700	1700
ALCANO -M-120	120	144	> 15600	48	> 16800	1PC/CTN	7.5	8.5	630×350×180	700	1700
ALCANO -M-150	150	192	> 19500	72	> 21000	1PC/CTN	7.6	8.6	630×350×180	700	1700
ALCANO -M-160	160	192	> 20800	72	> 22400	1PC/CTN	7.6	8.6	630×350×180	700	1700
ALCANO -L-180	180	240	> 23400	80	> 25200	1PC/CTN	9.5	10.5	730×375×180	565	1380
ALCANO -L-200	200	240	> 26000	80	> 28000	1PC/CTN	9.5	10.5	730×375×180	565	1380
ALCANO -L-210	210	240	> 27300	80	> 29400	1PC/CTN	9.5	10.5	730×375×180	565	1380
ALCANO -L-240	240	320	> 31200	120	> 33600	1PC/CTN	9.6	10.6	730×375×180	565	1380
ALCANO -L-250	250	320	> 32500	120	> 35000	1PC/CTN	9.6	10.6	730×375×180	565	1380

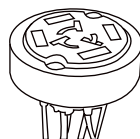
Optional Accessories



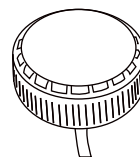
Photocell



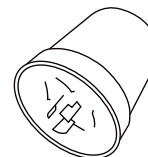
Shorting Cap



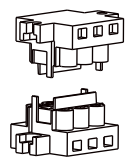
NEMA Socket (3 /5 /7pin)



Motion Sensor

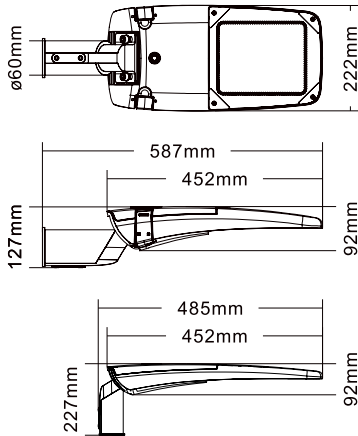


Smart Controller

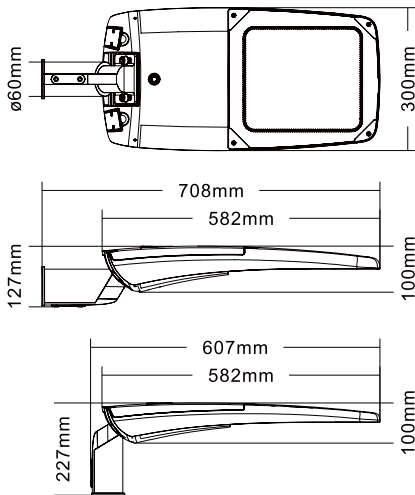


Cut-off Connector

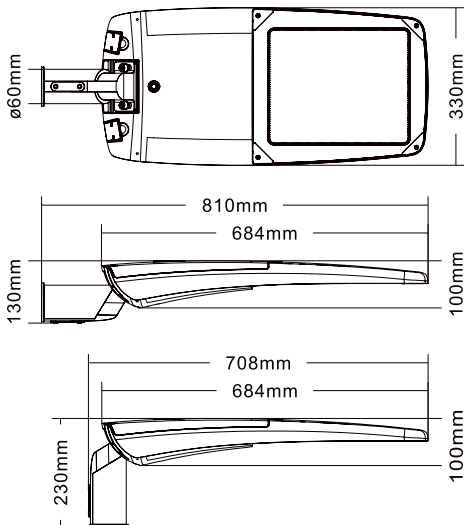
DIAGRAMS



ALCANO-S (20W / 30W / 40W / 50W / 60W / 80W)



ALCANO-M (100W / 110W / 120W / 150W / 160W)



ALCANO-L (180W / 200W / 210W / 240W / 250W)

Features

Housing	High pressure die-casting aluminium
Lens material	PC
Beam angle	Type II, Type II, Type III, More than twenty lenses can be selected
Optical compartment	Super white tempered glass
Housing color	Gray/Black(Default), Other color (Available on request)
IP rating	IP66
Impact resistance	IK09
Warranty time	5 Years

Characteristics

Electrical class	Class I (Default), Class II
Driver	Inventronics / Philips / Meanwell / MOSO / Other brands one request
Nominal voltage	120-277V - 50-60Hz, 220-240V - 50-60Hz, 90V-305V - 50-60Hz, 120V-380V - 50-60Hz
Power factor(at full load)	>0.95
Surge protection(KV)	10KV (Default) / 20KV (Available on request)
Control protocol(s)	1-10V Dimming (Default) / Time control / DALI / Buletooth sensor
Control option(s)	Photocell remote management
Available on request	NEMA socket (3/5/7 Pins, Photocell, ZHAGA socket, Short cap, 1-10V Dimming, DALI dimming, PIR, Buletooth sensor

Performance

Luminaire output flux(lm)	2600-38400LM
Power consumption(W)	20W-250W
Luminous efficacy	160LM/W

Optical information

LED	Philips lumileds/Cree
LED colour temperature(CCT)	2700K, 3000K, 3500K, 4000K, 5000K, 5700K, 6500K
Colour rendering index (CRI)	70(Default), 80
Operating temperature range(Ta)	-40°C up to +55°C

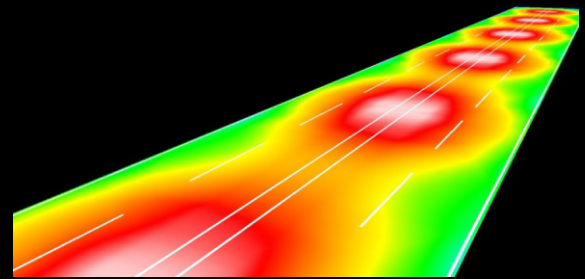
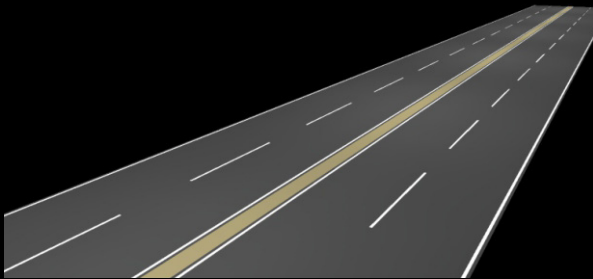
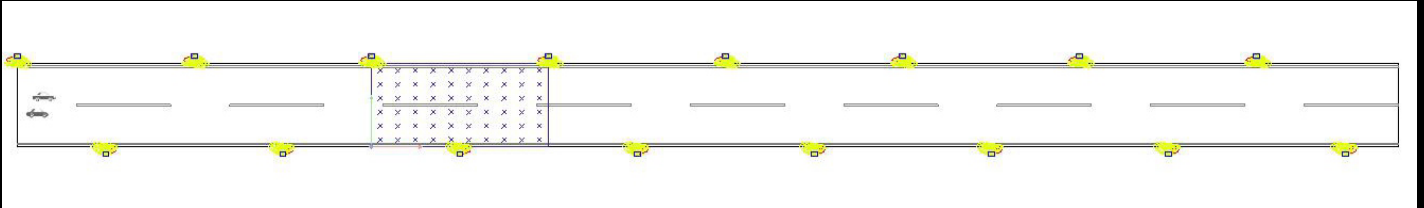
OPTICS

Tech. Support: Tell us the project/bidding length, width, height and the usage.

We have an engineer team to respond the DIALUX simulations for lights quantity calculation and effects.

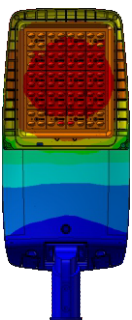
ies files are available upon request.

Example of cross installation effect on both sides of the road:

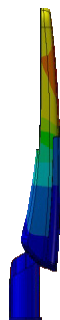
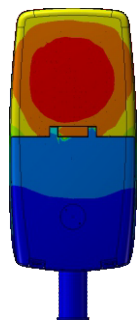


THERMAL MANAGEMENT

Structure is optimized by advanced FEA technology. Achieving longer lifespan at best cost-efficiency.



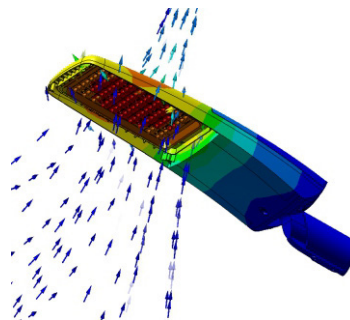
Thermal Conductivity



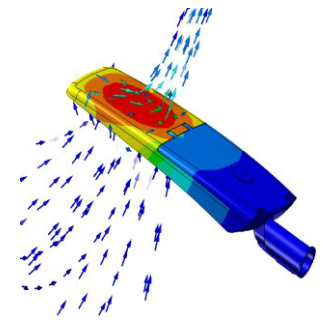
— Hot zone - Light source

— Cool zone - Electrical

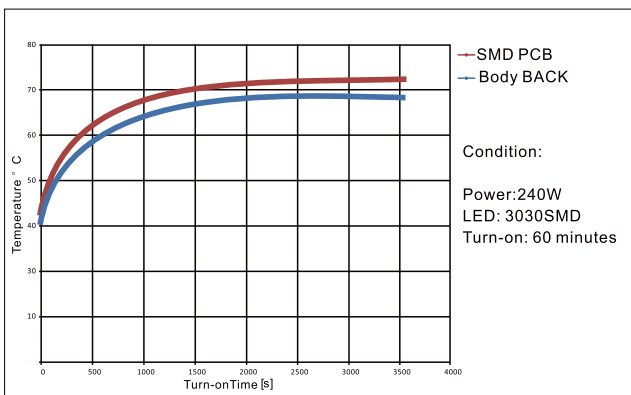
Electrothermal Separation



Thermal Air Convection



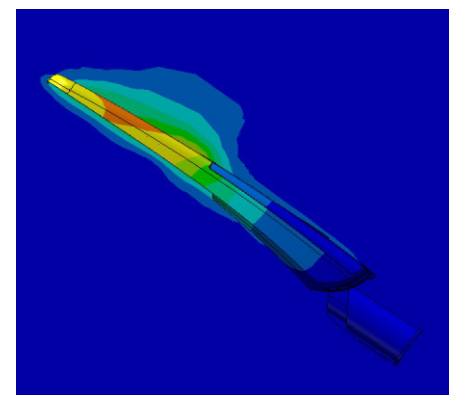
Thermal Air Convection



Temperature Rise Curve

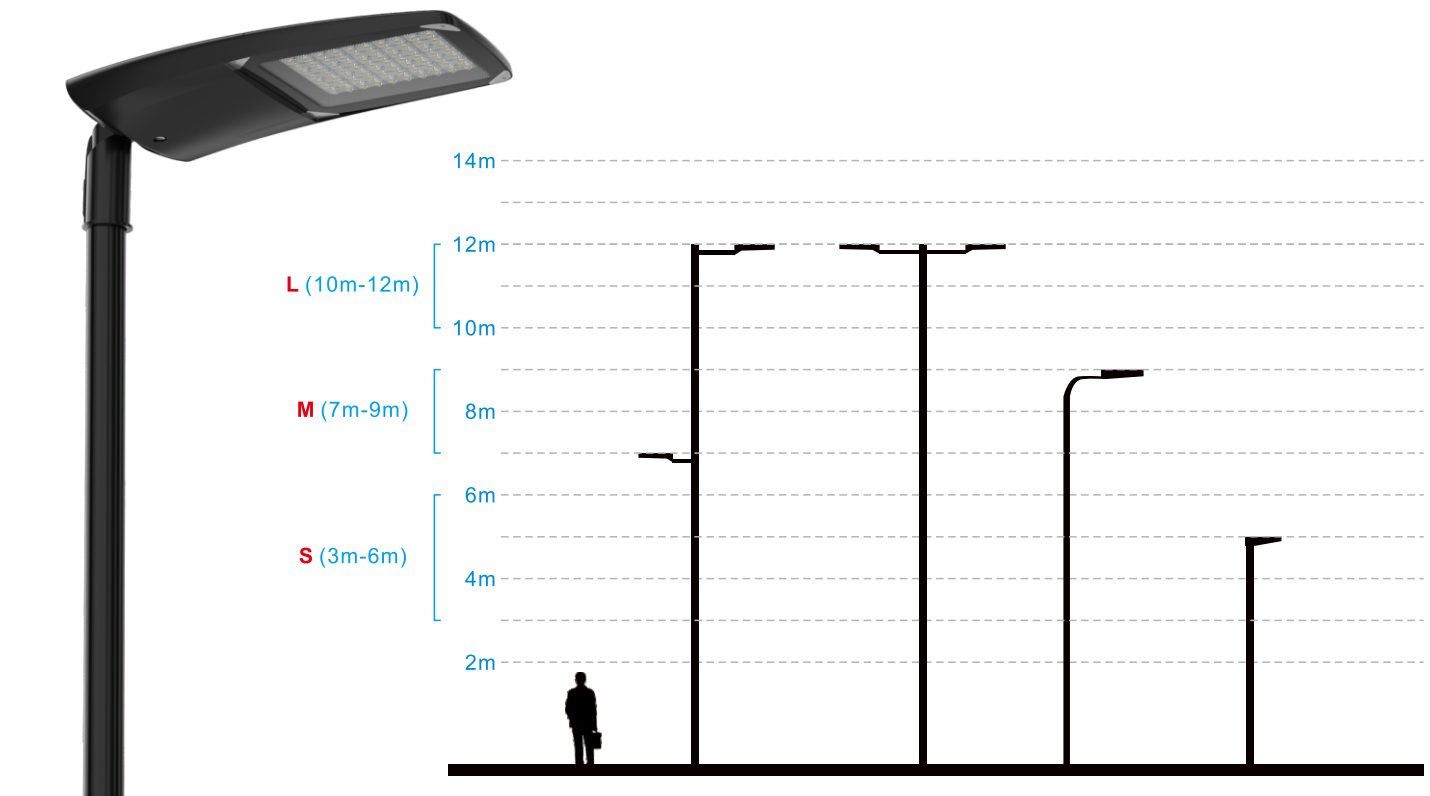


Unit : °C



Thermal Effects to Air

SUGGESTED INSTALLATION HEIGHT



CAUTIONS:

1. Installation must be done by professional electricians .
2. Do NOT take apart the product. It may be dangerous.
3. Do NOT stare at the light with naked eyes. It is harmful to eyes.
4. For outdoor lighting, waterproof measurements must be done to the cable terminals.

WARRANTY :

1. All LED Street Lights are warranted by the manufacturer to be free of defects in material and workmanship for 5 years.
2. Warranty becomes void if the product is modified, improperly installed or used, damaged by accident or neglect, or if any parts are improperly installed or replaced by the user.
3. During the period of warranty time, if some products of us fail during normal circumstances and applications or have any defects above defined, we shall at our own choice replace or repair the defective products at no charge. And the liability claims would NOT exceed the value of the product itself.

