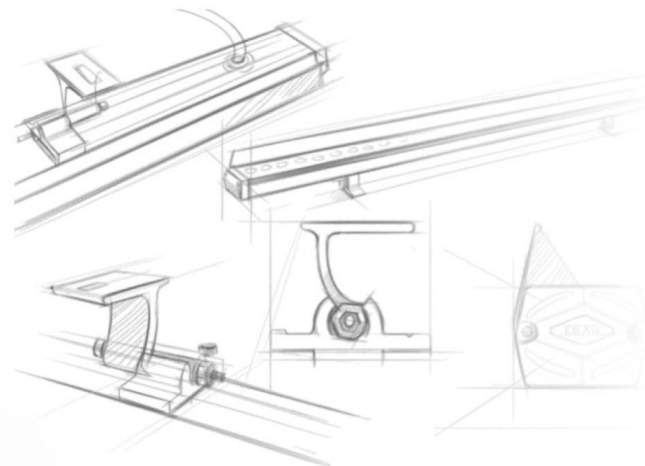
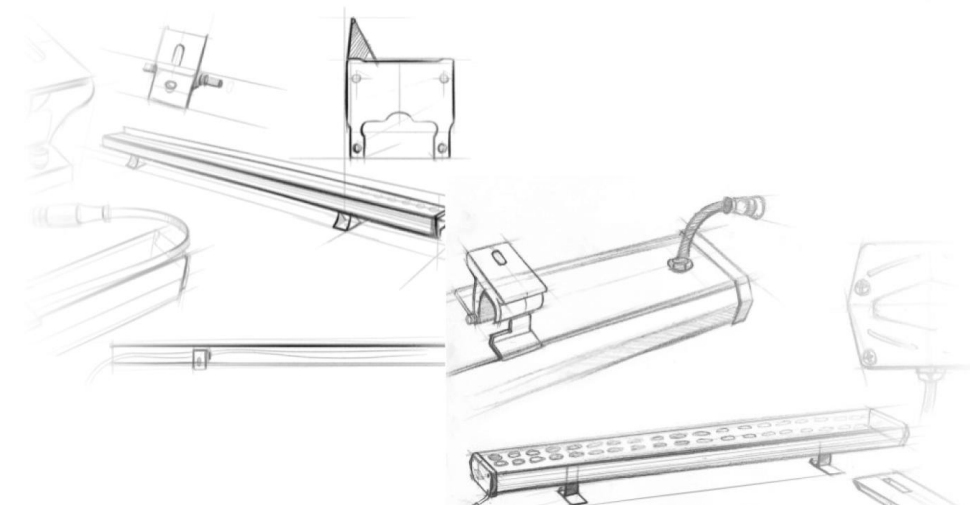
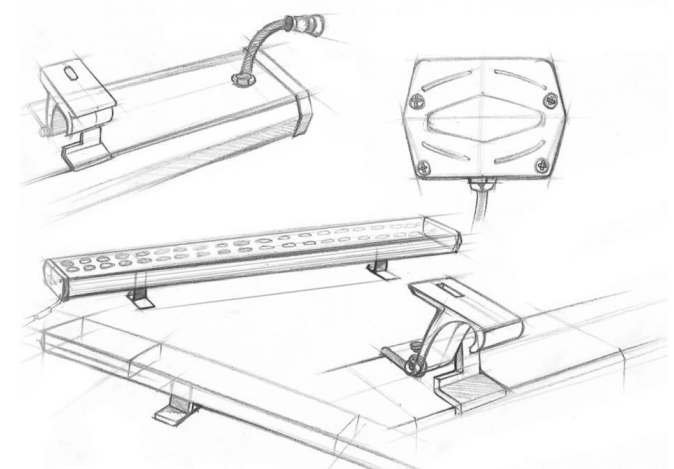


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bestart Lighting
Bestart Focus on Lighting Solutions



www.bestart-lighting.com
Shenzhen Bestart Creativity Technology Co.,Ltd

About Us

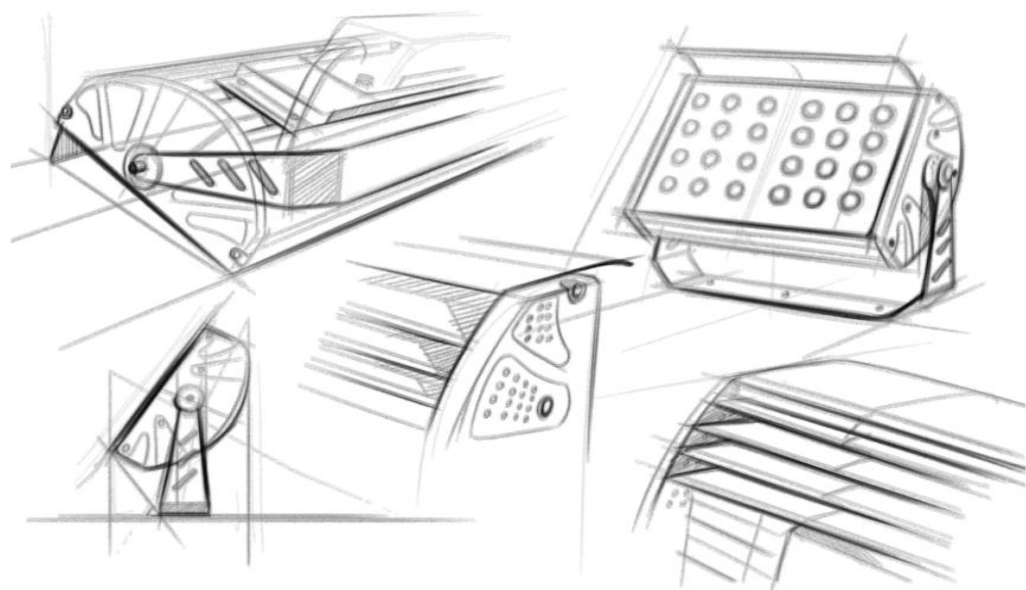
Shenzhen Bestart Creativity Technology Co.,Ltd specializes in architectural and landscape lighting products and solutions. We are committed to deliver eco-friendly modern solutions that enhances buildings and spaces.

Bestart lighting's team, a knowledgeable and confident multidisciplinary team, with more of 10 years experience. We are dedicated to providing creative designs and match lighting projects requirements fitting each budget, guaranteeing durable quality with up to 5 years warranty and full range service 24/7.

Above all, we have a complete supply chain, from design to production, which results in innovative design and better and unique projects.

We welcome enquiries from old and new customers aswell. Just let us know your needs and ideas, and we will make it happen.

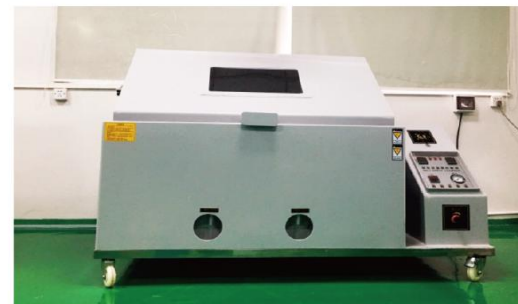
We are Bestart Lighting — your first choice for custom architectural and landscape lighting solutions.



High and low temperature detection



SMD workshop



Salt spray test machine



Wire Bonding Machine



Production workshop



Aging workshop



Integrating sphere



Needle Flame Testing Machine

Product catalog



Spot light



Wall Washer



Pixel Dot



Linear Light



Underwater Lamp



Neon and Strip



Underground light



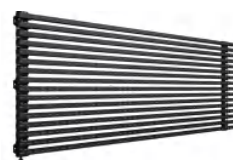
Window Light



Star light



Tunnel Lamp



Transparent Screen



Wall Lamp

Product catalog



Street light



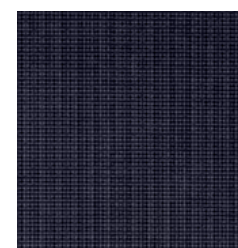
Garden light



Solar light



LED Brick Light



Led display screen

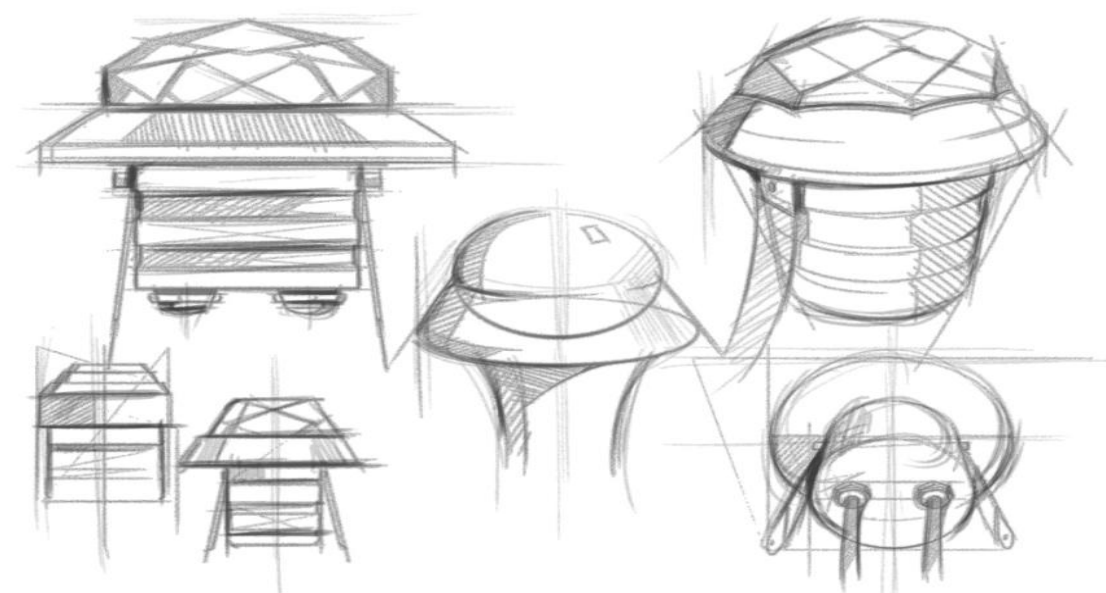


Meanwell Driver



Dmx controller

Meanwell Driver



Pixel dot light Feature

Application:

Application range: low power point light source, LED light strip, supporting aluminum light trough, each pixel can be controlled as a single point, low power consumption. Support for a variety of customizations including: pixel pitch, lens, LED color (RGB, RGBW or monochrome). IP65 protection grade, UV resistance, V0 flame retardant grade, Class III electrical safety class, can effectively ensure the stability of the lamp in the outdoor environment for all weather conditions. Flexible mounting performance for a variety of irregular curtain wall configurations for a variety of media solutions (curtain walls, large screens, finishes, 3D shapes, etc.)

Lighting Performance:

RGBW, RGB, monochrome and other light source combinations to meet any required mode; customizable lenses to adjust to different applications and scenarios. Color resolution of 16 bits, effects are more stylish and smooth; built-in electronic drive, with over-temperature and overload protection.

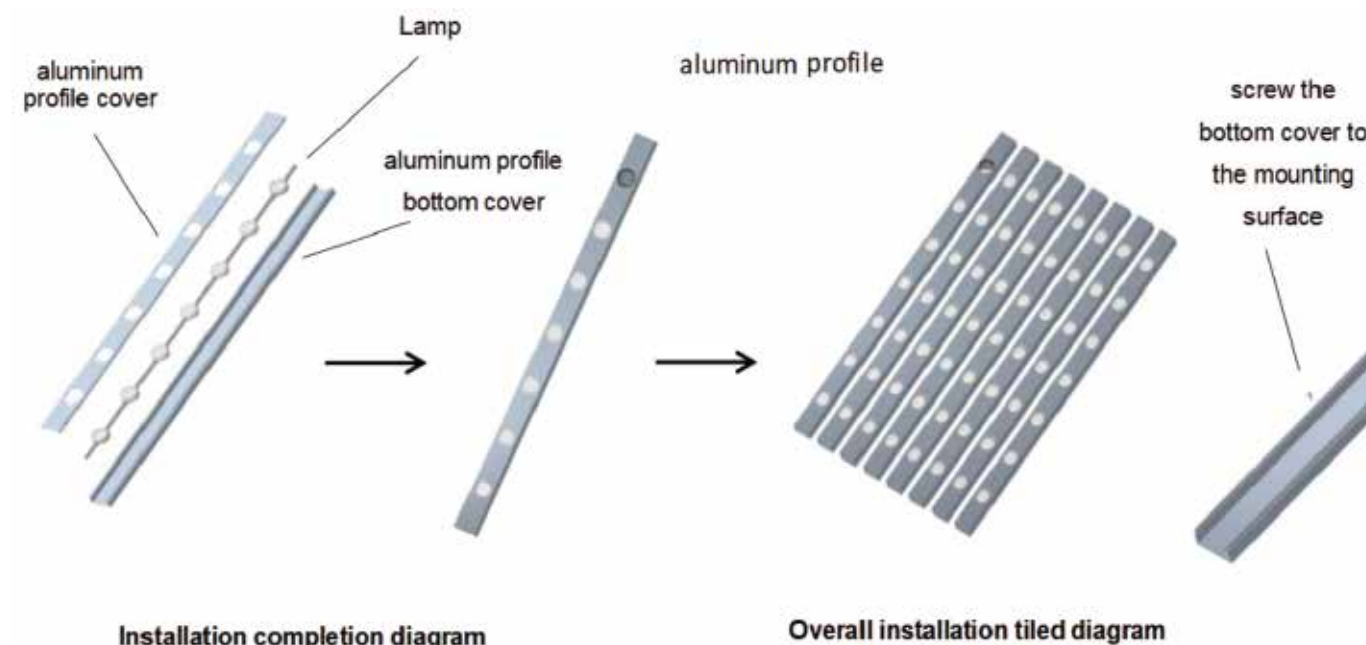
Structure:

UV-resistant PC housing and die-cast aluminum housing are optional, light weight, the lampshade is made with UV-resistant PC, strong impact resistance, long life, not easy to age nor yellowing; die-cast aluminum shell surface anodized or by background color spray treatment; the installation structure is simple, the power and signal lines are hidden in the line slot, and the aluminum alloy line slot can also.

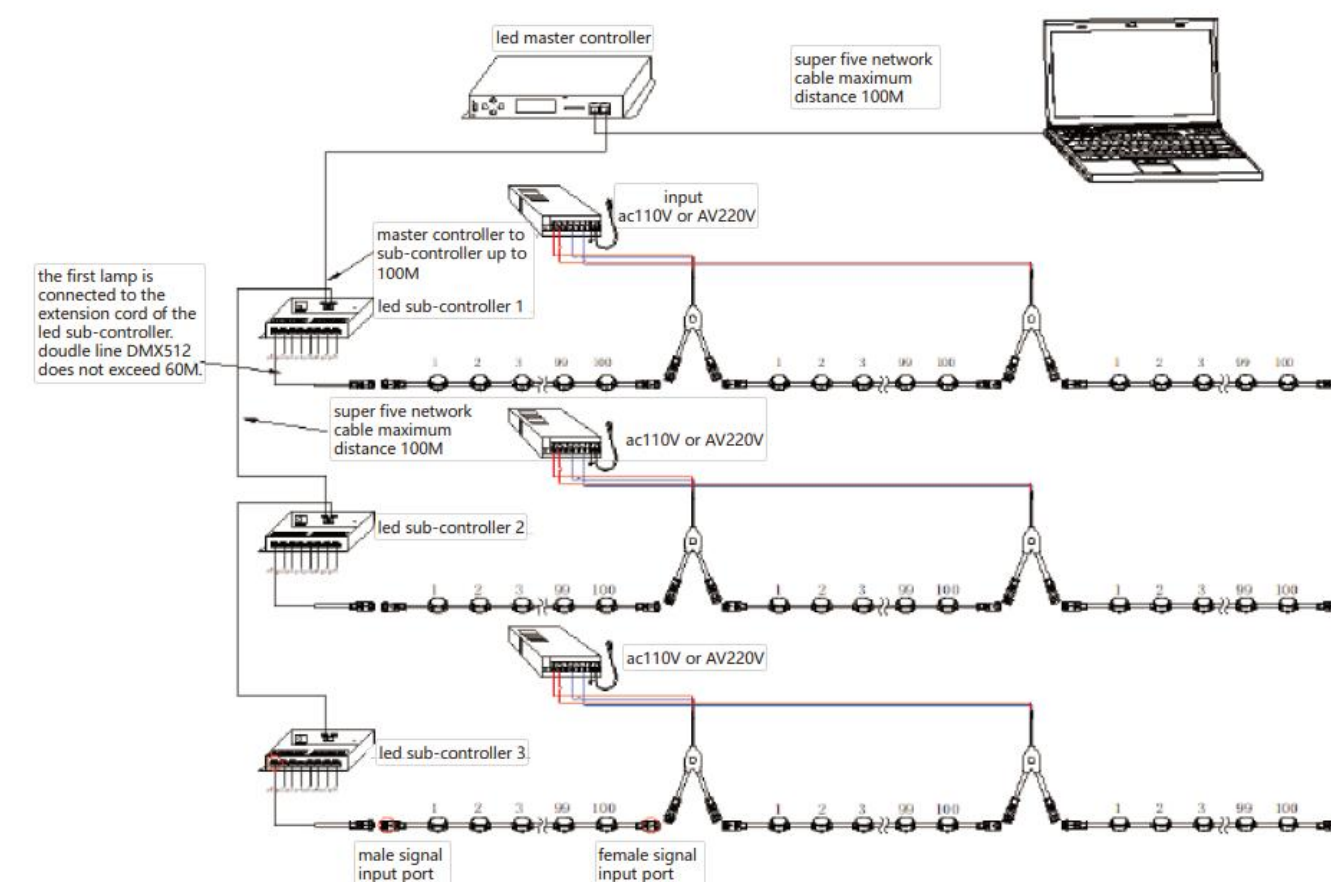
Control:

The luminaire can have DMX or monochrome control optionally, single point controllable, 8 output ports per controller, each output port can control up to 340 full color pixels.

Installation



System Drawing

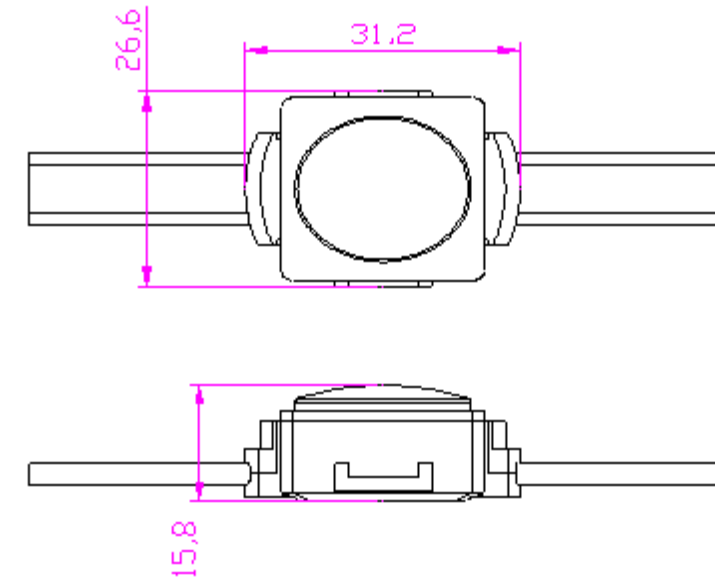




Tech Specifications

Model	BC-C26-1	BC-C26-2
Voltage	DC5V	DC12V
Power	0.3 W / pixel	0.5 W / pixel
Pitch	From P50 to P300mm	From P50 to P500mm
Led Brand	Epistar/Osram/Cree	Epistar/Osram/Cree
Color Resolution	8 bit /16 bit	8 bit /16 bit
Light Source	1 SMD	2 SMD
Weight	12 G	12 G
Control	DMX/TTL	DMX/TTL
Housing	PC	PC
Housing Color	Transparent / Black / White /Grey	
IP	IP65	IP65
Operating Temp	-35° ~ 60°	-35° ~ 60°
Storage Temp	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours
Warranty	3 years	3 years

Dimension



Project

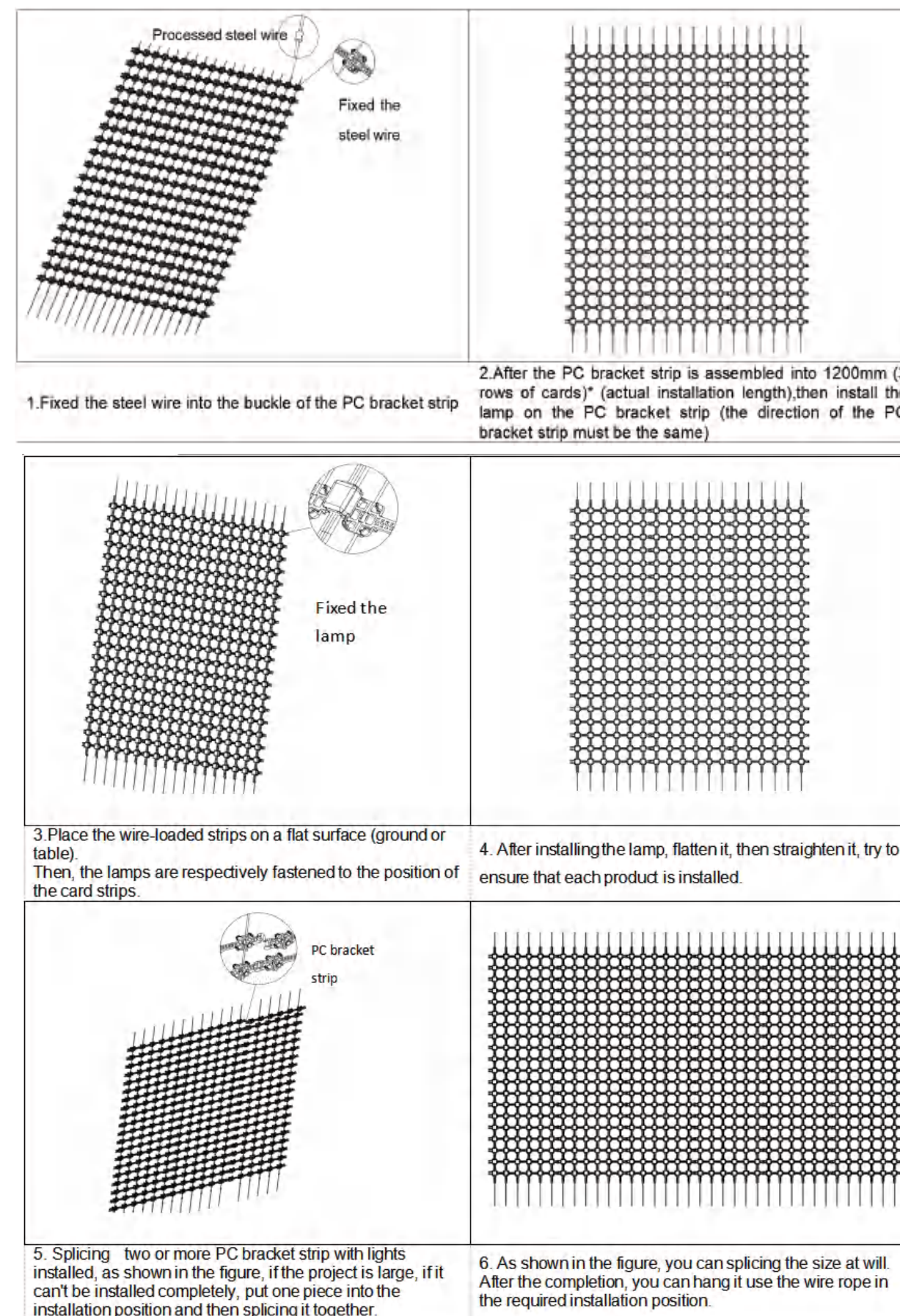




Tech Specifications

Model	BC-C26-1-Mesh	BC-C26-2-Mesh
Voltage	DC5V	DC12V
Power	0.3 W / pixel	0.5 W / pixel
Pitch	P50mm, P70mm, P83mm, P100mm, P125mm	
Led Brand	Epistar/Osram/Cree	Epistar/Osram/Cree
Color Resolution	8 bit /16 bit	8 bit /16 bit
Light Source	1 SMD	2 SMD
Weight	12 G	12 G
Control	DMX/TTL	DMX/TTL
Housing	PC	PC
Housing Color	Transparent / Black / White /Grey	
IP	IP65	IP65
Operating Temp	-35° ~ 60°	-35° ~ 60°
Storage Temp	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours
Warranty	3 years	3 years

Installation Diagram

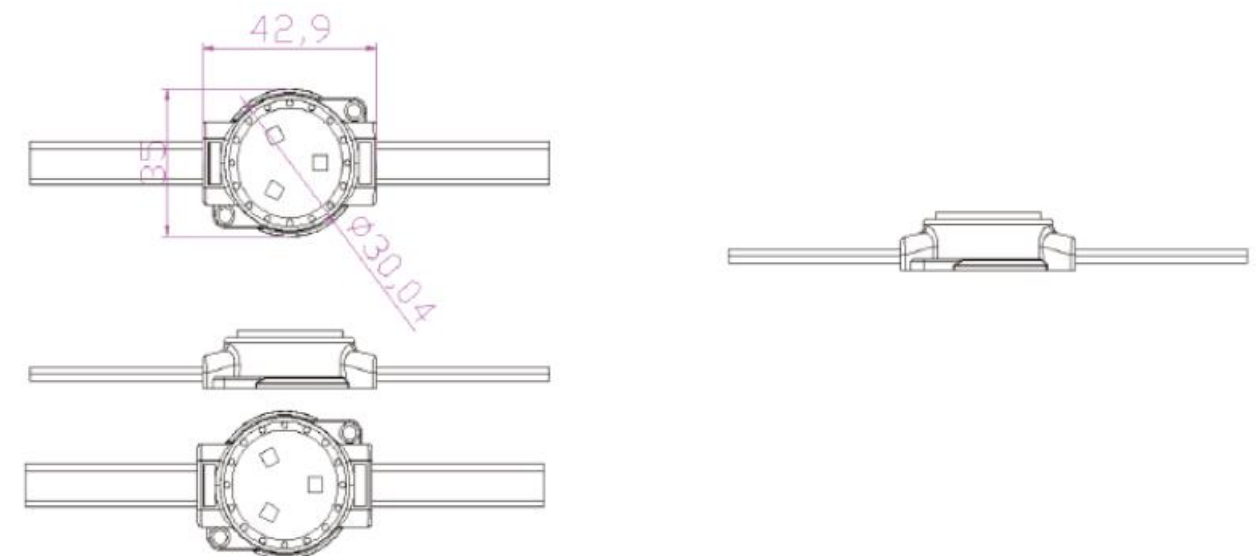




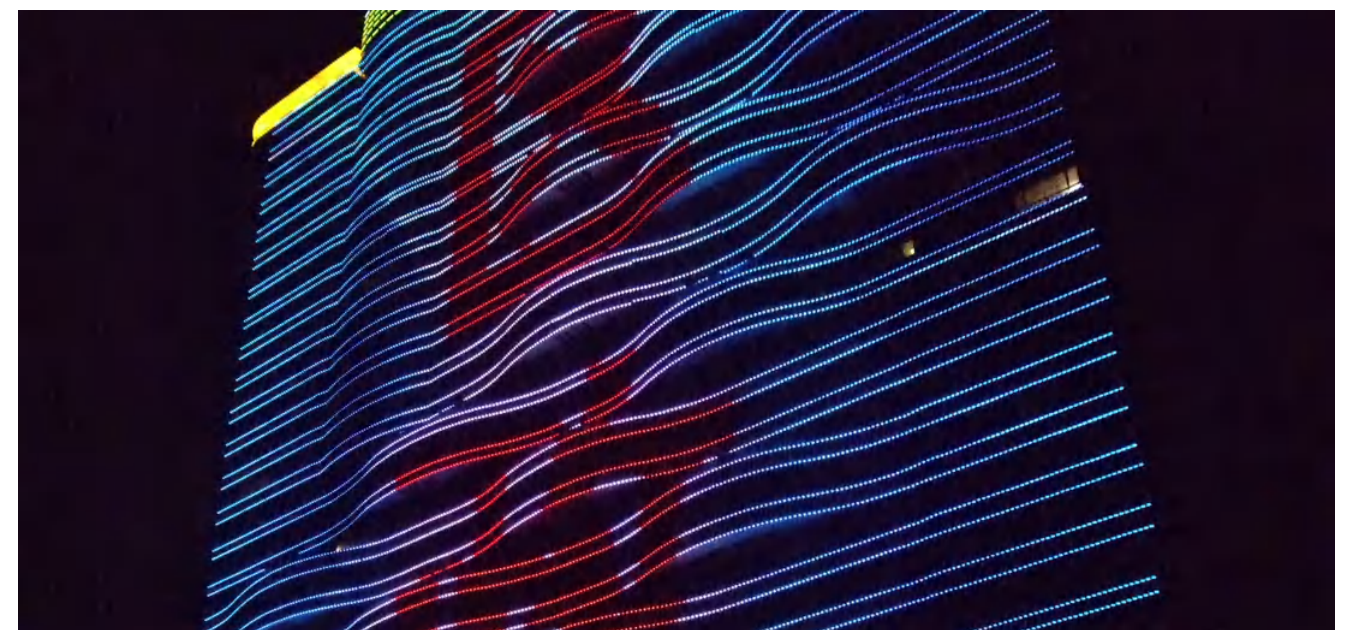
Tech Specifications

Model	BC-C30-3-RGB	BC-C30-4-RGBW
Voltage	DC12V	DC12V
Power	0.72 W / pixel	1 W / pixel
Pitch	From 50MM to 5000MM	
Led Brand	Epistar/Osram/Cree	Epistar/Osram/Cree
Color Resolution	8 bit /16 bit	8 bit /16 bit
Light Source	3 SMD	4 SMD
Weight	14.2 G	14.2 G
Control	DMX/TTL	DMX/TTL
Housing	PC	PC
Housing Color	Black / White /Grey	
IP	IP65	IP65
Operating Temp	-35° ~ 60°	-35° ~ 60°
Storage Temp	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours
Warranty	3 years	3 years

Dimension



Project

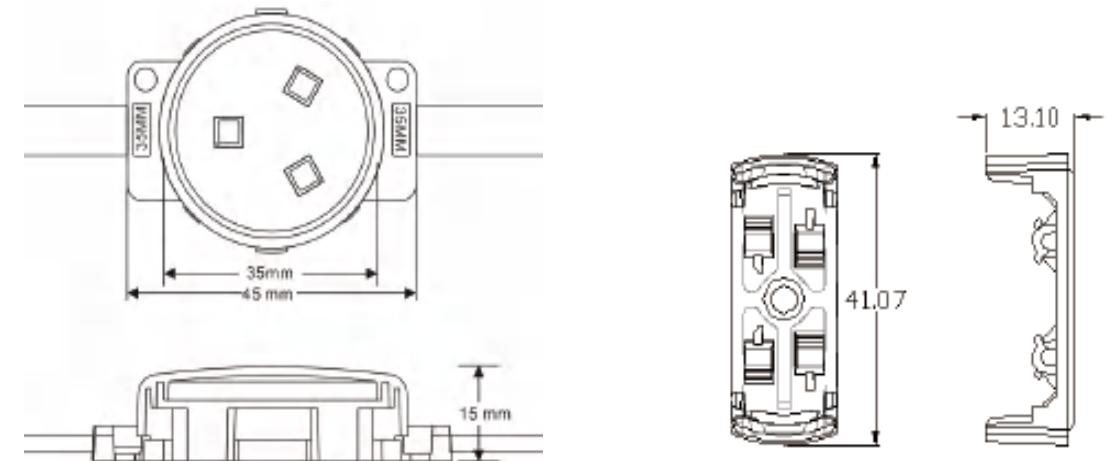




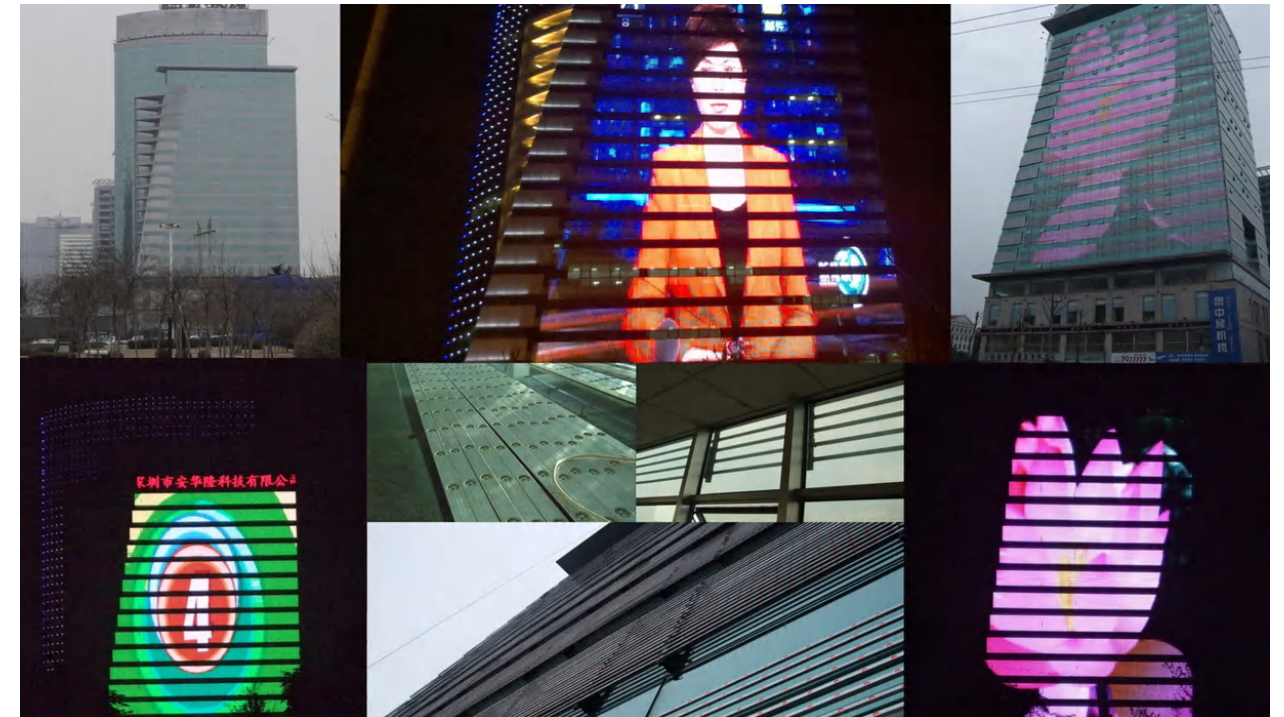
Tech Specifications

Model	BC-C35-3-RGB	BC-C35-4-RGBW	BC-C35-6-RGB
Voltage	DC12V	DC12V	DC24V
Power	0.72 W	1 W	1.44 W
Pitch	From 80mm to 5000mm		
Led Brand	Epistar /Osram/CREE	Epistar	Epistar /Osram/CREE
Color Resolution	8 bit /16 bit	8 bit /16 bit	8 bit /16 bit
Light Source	3 SMD	(3 RGB + 1W) SMD	6 SMD
Weight	14.2 G	14.2 G	14.2 G
Control	DMX/TTL	DMX/TTL	DMX/TTL
Housing	PC	PC	PC
Housing Color	Black / White / Grey	Black / White / Grey	Black / White / Grey
IP	IP65	IP65	IP65
Operating Temp	-35° ~ 60°	-35° ~ 60°	-35° ~ 60°
Storage Temp	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3 years	3 years	3 years

Dimension



Project

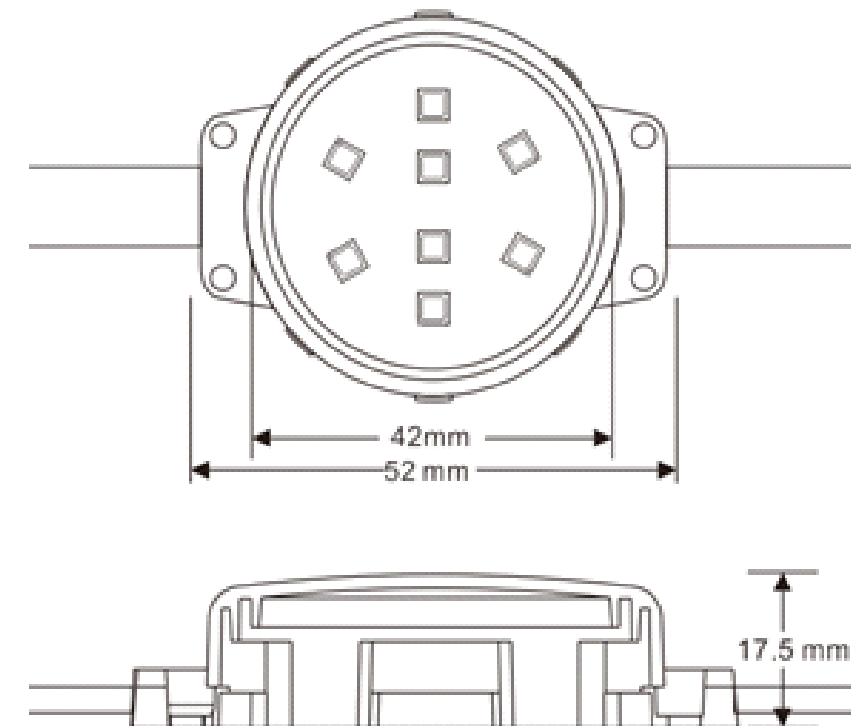




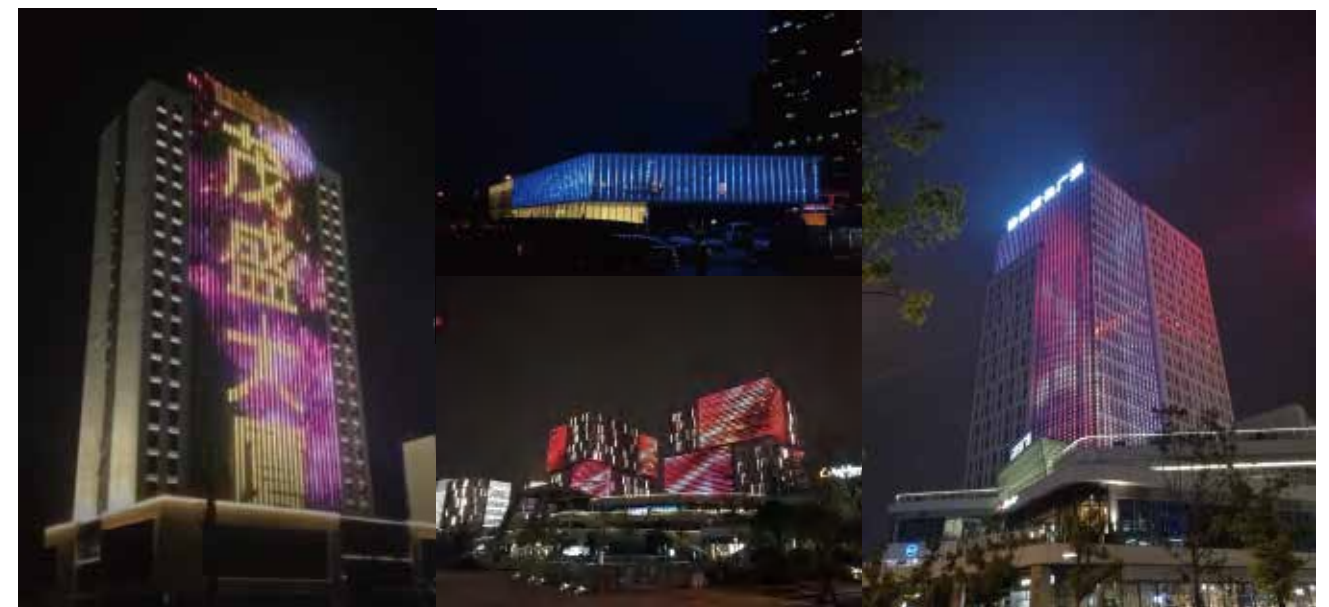
Tech Specifications

Model	BC-C42-3-RGB	BC-C42-6-RGB	BC-C42-8-RGBW
Voltage	DC12V	DC24V	DC24V
Power	0.72 W	1.44 W	1.8 W
Pitch	From 80mm to 5000mm		
Led Brand	Epistar /Osram/CREE	Epistar	Epistar /Osram/CREE
Color Resolution	8 bit /16 bit	8 bit /16 bit	8 bit /16 bit
Light Source	3 SMD	6 SMD	(6 RGB + 2W) SMD
Weight	18 G	18 G	18 G
Control	DMX/TTL	DMX/TTL	DMX/TTL
Housing	PC	PC	PC
Housing Color	Black / White / Grey	Black / White / Grey	Black / White / Grey
IP	IP65	IP65	IP65
Operating Temp	-35° ~ 60°	-35° ~ 60°	-35° ~ 60°
Storage Temp	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3 years	3 years	3 years

Dimension



Project

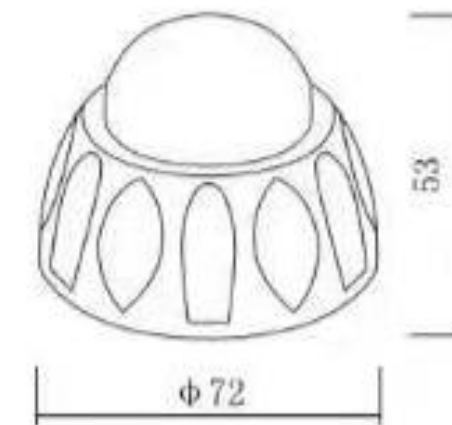




Tech Specifications

Model	BC-C72-6-RGB	BC-C72-6-RGBW	BC-C72-6-W
Voltage	DC24V	DC24V	DC24V
Power	3 W	3 W	3W
Pitch	From 120mm to 5000mm		
Led Brand	Epistar /Osram/CREE	Epistar	Epistar /Osram/CREE
Color Resolution	8 bit /16 bit	8 bit /16 bit	8 bit /16 bit
Light Source	6 SMD	6 SMD	6 SMD
Weight	125 G	125 G	125 G
Control	DMX/TTL	DMX/TTL	DMX/TTL
Housing	Aluminum	Aluminum	Aluminum
Housing Color	Grey	Grey	Grey
IP	IP65	IP65	IP65
Operating Temp	-35° ~ 60°	-35° ~ 60°	-35° ~ 60°
Storage Temp	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3 years	3 years	3 years

Dimension



Project

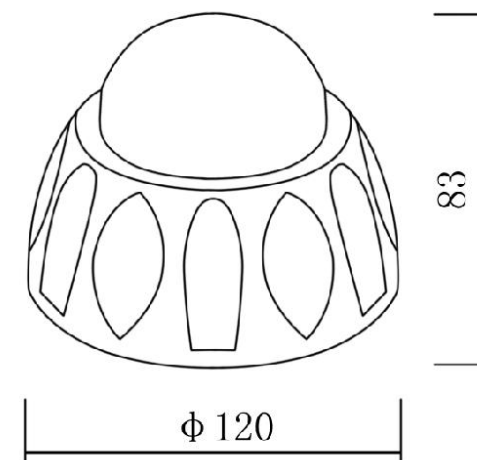




Tech Specifications

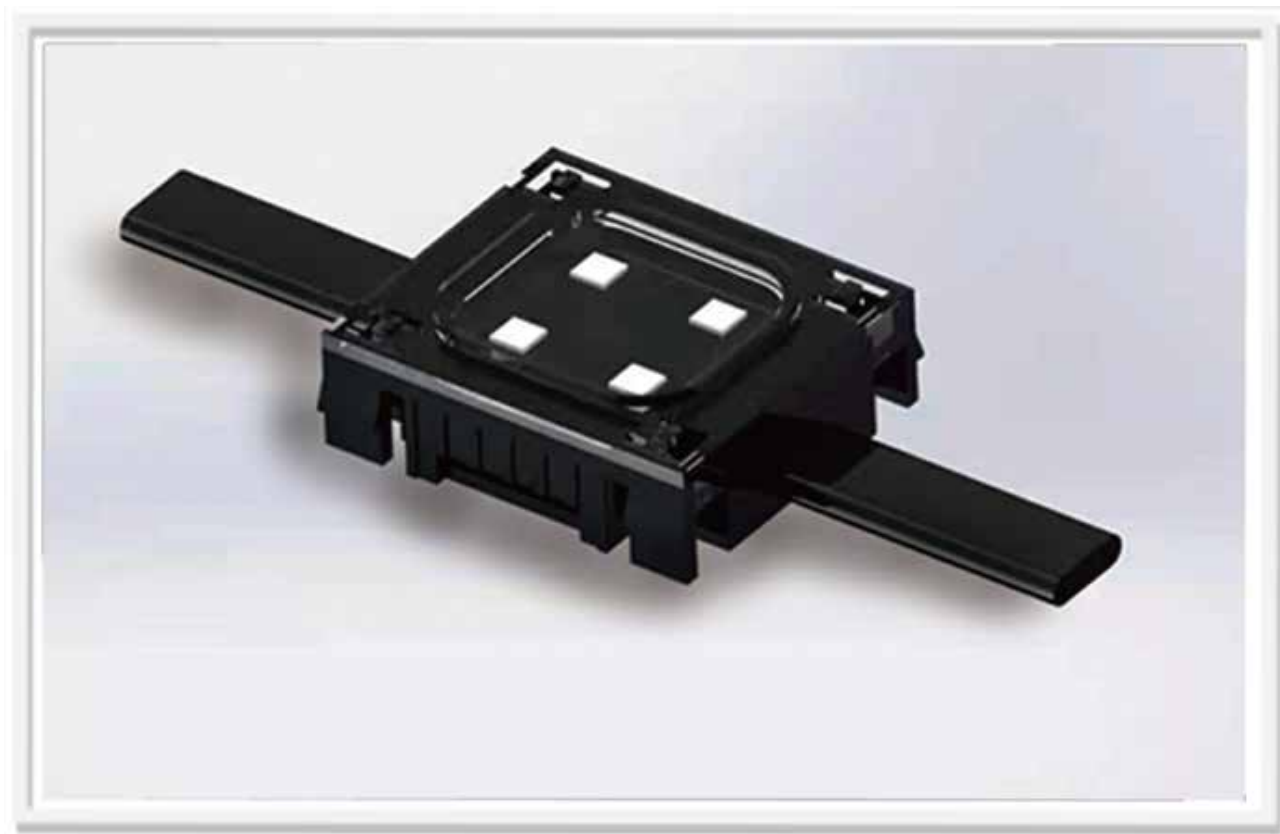
Model	BC-C120-RGB	BC-C120-RGBW	BC-C120-W
Voltage	DC24V	DC24V	DC24V
Power	Max 14W	Max 14W	Max12W
Pitch	From 200mm to 5000mm		
Led Brand	Epistar /Osram/CREE	Epistar	Epistar /Osram/CREE
Color Resolution	8 bit /16 bit	8 bit /16 bit	8 bit /16 bit
Light Source	6 SMD	6 SMD	24 SMD
Weight	350G	350G	350G
Control	DMX/TTL	DMX/TTL	DMX/TTL/No control
Housing	Aluminum	Aluminum	Aluminum
Housing Color	Grey	Grey	Grey
IP	IP65	IP65	IP65
Operating Temp	-35° ~ 60°	-35° ~ 60°	-35° ~ 60°
Storage Temp	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3 years	3 years	3 years

Dimension



Project

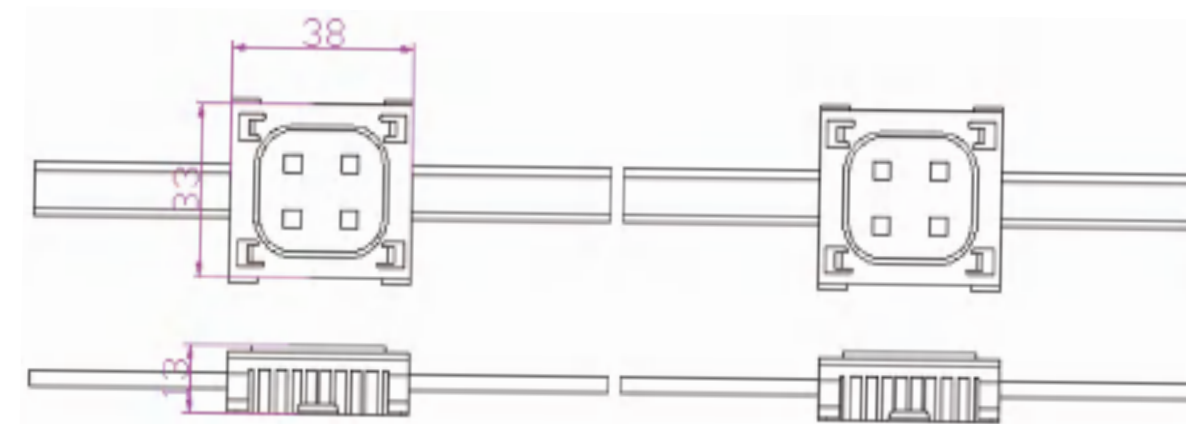




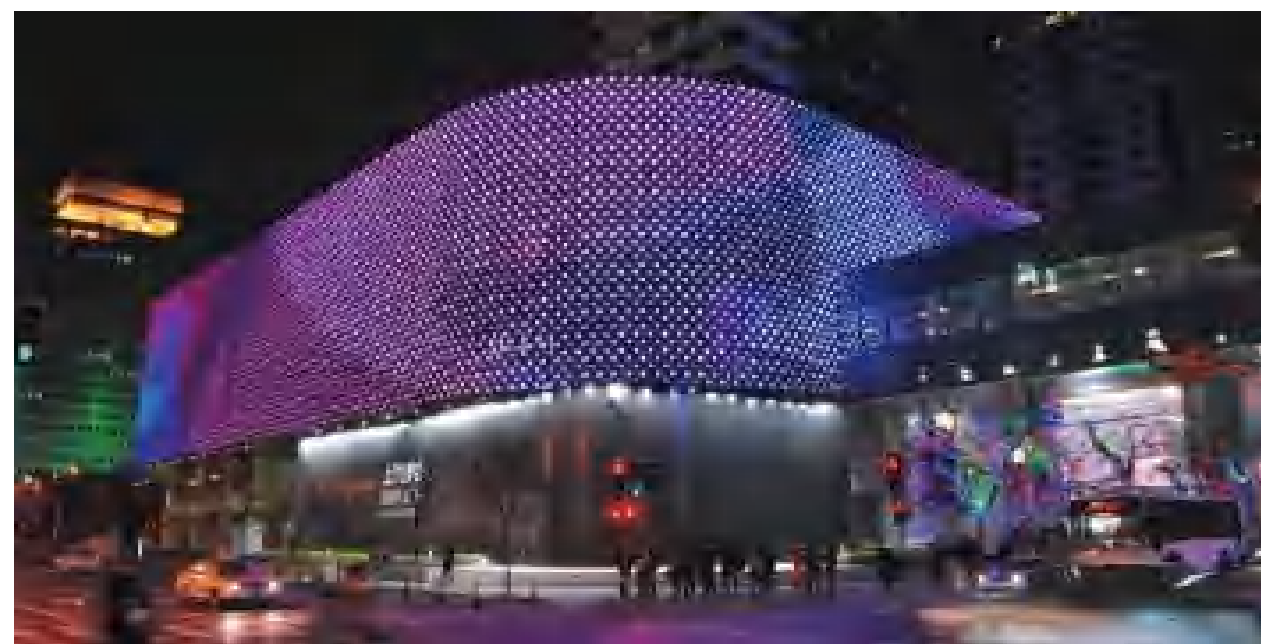
Tech Specifications

Model	BC-P38-4-RGB	BC-P38-3-RGB
Voltage	DC12V	DC12V
Power	1 W / pixel	0.72 W / pixel
Pitch	From P80 to P5000mm	From P80 to P5000mm
Led Brand	Epistar/Osram/Cree	Epistar/Osram/Cree
Color Resolution	8 bit /16 bit	8 bit /16 bit
Light Source	4SMD	3 SMD
Weight	16 G	16 G
Control	DMX/TTL	DMX/TTL
Housing	PC	PC
Housing Color	Black / White /Grey	
IP	IP65	IP65
Operating Temp	-35° ~ 60°	-35° ~ 60°
Storage Temp	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours
Warranty	3 years	3 years

Dimension



Project

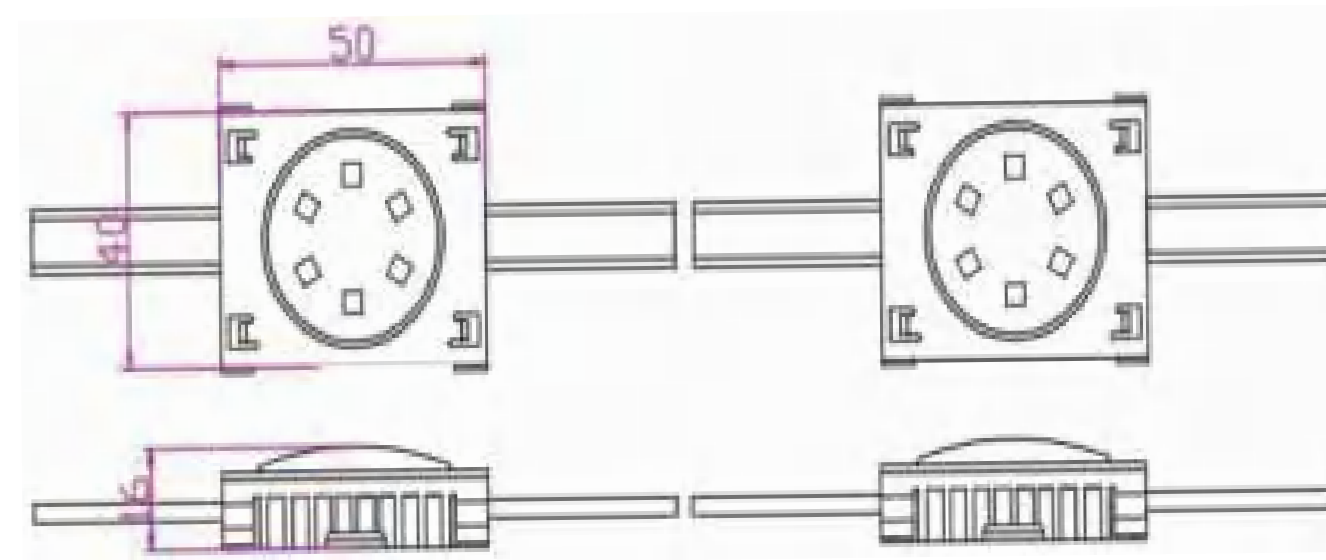




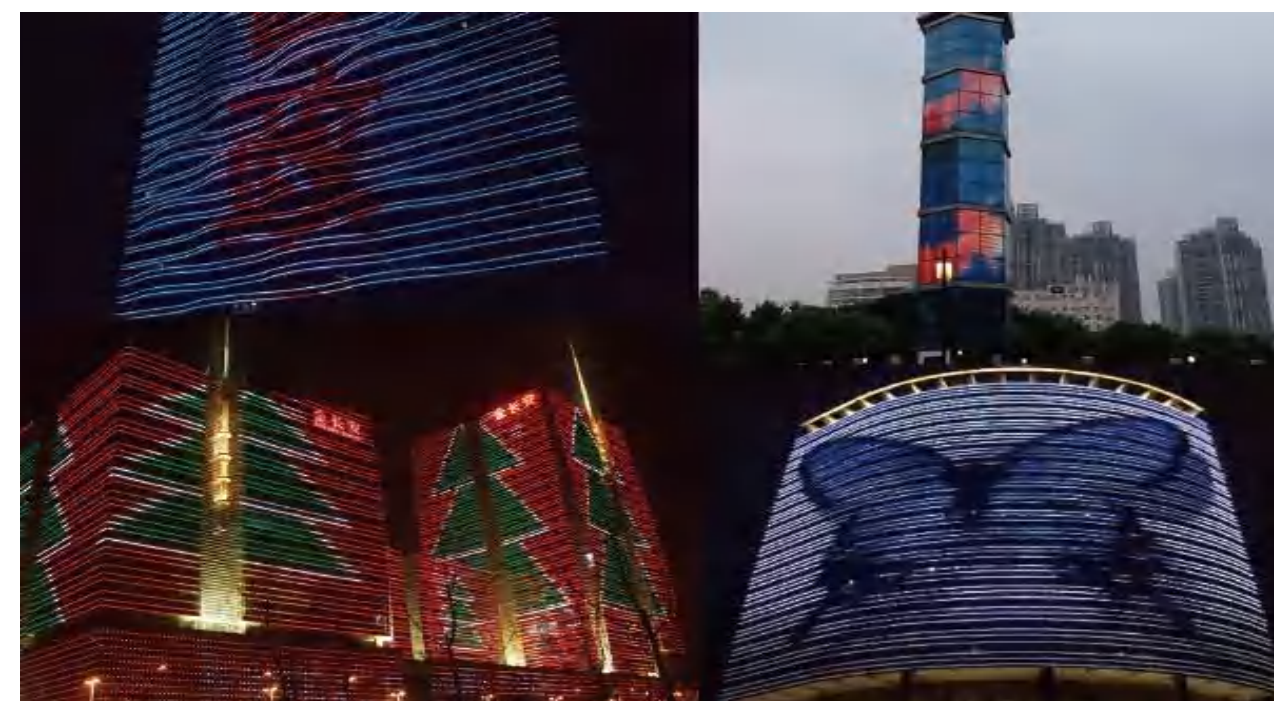
Tech Specifications

Model	BC-P50-6-RGB	BC-P50-8-RGBW
Voltage	DC12V	DC12V
Power	0.72 W / pixel	1 W / pixel
Pitch	From 50MM to 5000MM	
Led Brand	Epistar/Osram/Cree	Epistar/Osram/Cree
Color Resolution	8 bit /16 bit	8 bit /16 bit
Light Source	3 SMD	4 SMD
Weight	14.2 G	14.2 G
Control	DMX/TTL	DMX/TTL
Housing	PC	PC
Housing Color	Black / White /Grey	
IP	IP65	IP65
Operating Temp	-35° ~ 60°	-35° ~ 60°
Storage Temp	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours
Warranty	3 years	3 years

Dimension



Project

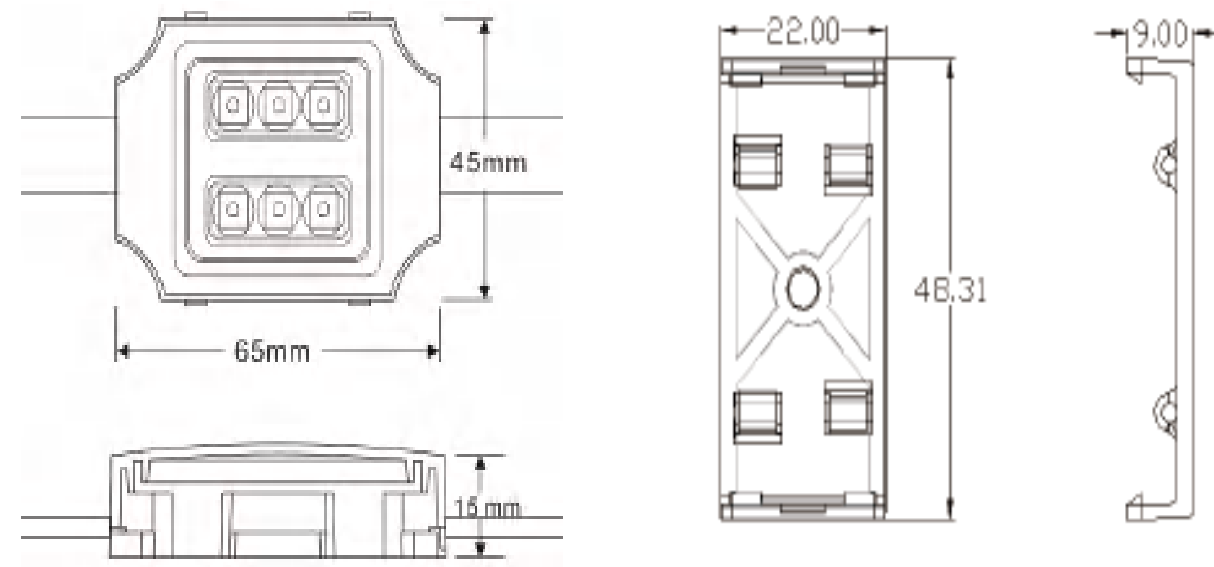




Tech Specifications

Model	BC-P65-6-RGB	BC-P65-6-RGBW
Voltage	DC12V	DC24V
Power	1.44 W / pixel	1.44 W / pixel
Pitch	From P100 to P5000mm	From P100 to P5000mm
Led Brand	Epistar/Osram/Cree	Epistar/Osram/Cree
Color Resolution	8 bit /16 bit	8 bit /16 bit
Light Source	4SMD	(4RGB+2W) SMD
Weight	45 G	45 G
Control	DMX/TTL	DMX/TTL
Housing	PC	PC
Housing Color	Black / White /Grey	
IP	IP65	IP65
Operating Temp	-35° ~ 60°	-35° ~ 60°
Storage Temp	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours
Warranty	3 years	3 years

Dimension



Project

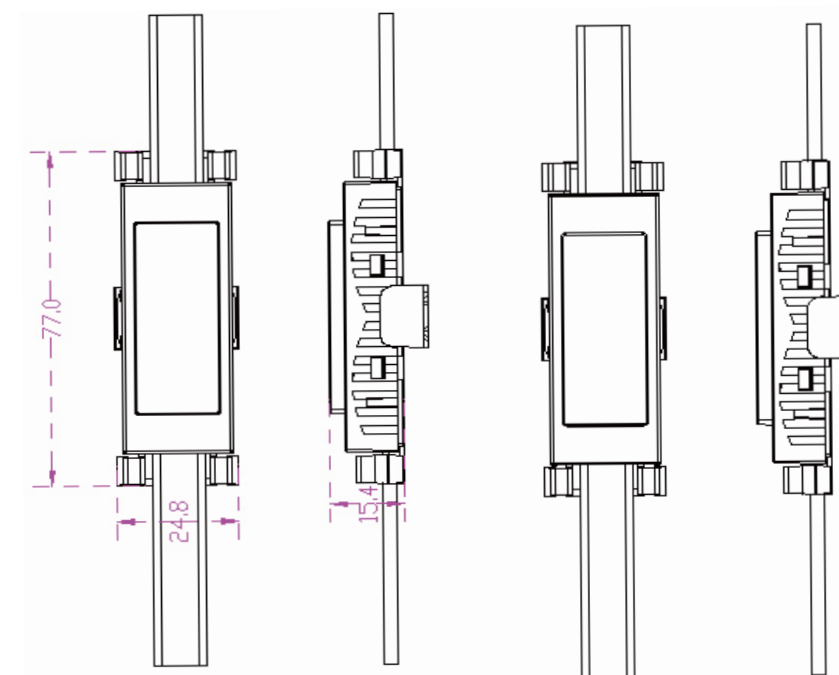




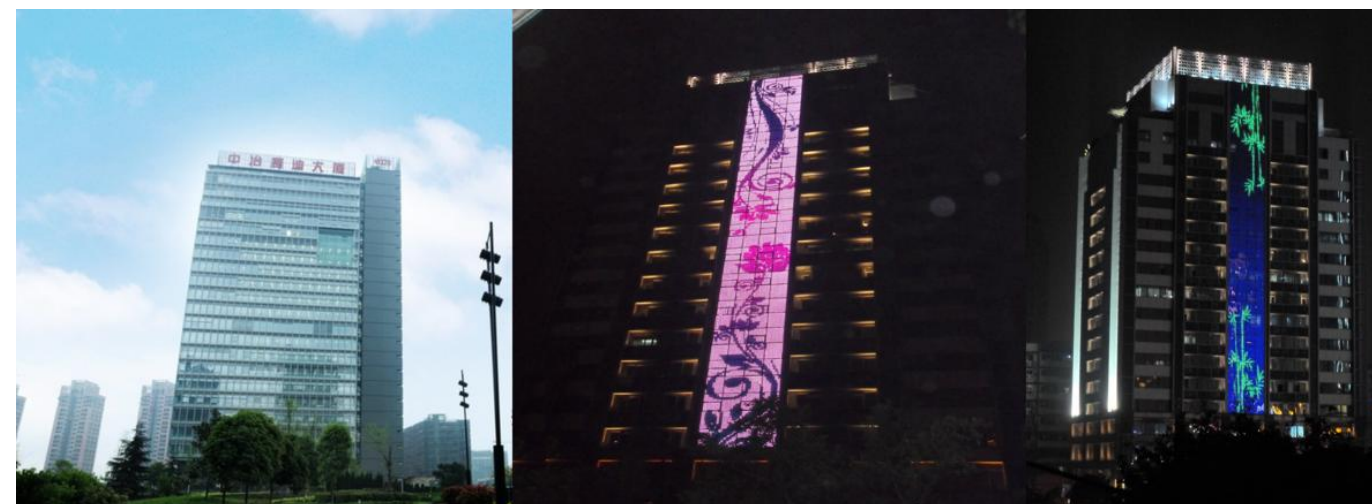
Tech Specifications

Model	BC-P77-6-RGB	BC-P77-6-RGBW
Voltage	DC24V	DC24V
Power	1.44 W / pixel	1.44 W / pixel
Pitch	From 100MM to 5000MM	
Led Brand	Epistar/Osram/Cree	Epistar/Osram/Cree
Color Resolution	8 bit /16 bit	8 bit /16 bit
Light Source	6 SMD	(4RGB+1W) SMD
Weight	16 G	16 G
Control	DMX/TTL	DMX/TTL
Housing	PC	PC
Housing Color	Black / White /Grey	
IP	IP65	IP65
Operating Temp	-35° ~ 60°	-35° ~ 60°
Storage Temp	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours
Warranty	3 years	3 years

Dimension



Project

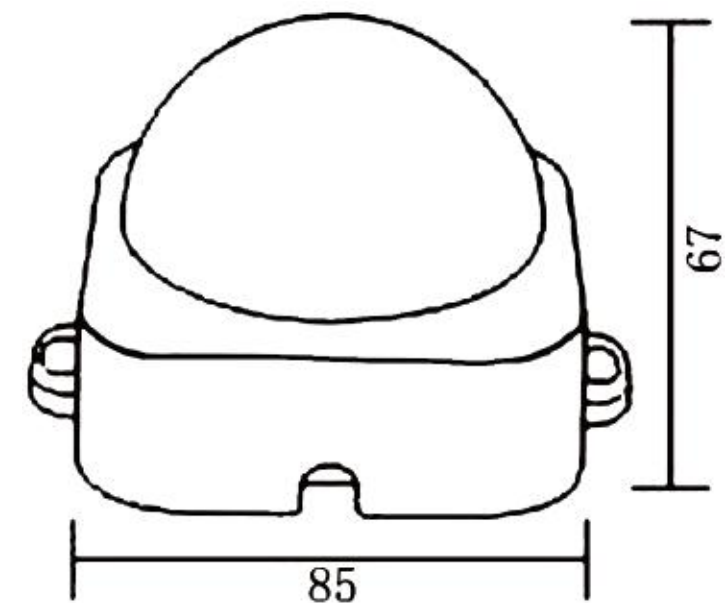




Tech Specifications

Model	BC-P85-12-RGB	BC-P85-12-RGBW	BC-P85-12-W
Voltage	DC24V	DC24V	DC24V
Power	3 W	3.2 W	3W
Pitch	From 150mm to 5000mm		
Led Brand	Epistar /Osram/CREE	Epistar	Epistar /Osram/CREE
Color Resolution	8 bit /16 bit	8 bit /16 bit	8 bit /16 bit
Light Source	12 SMD	12 SMD	12 SMD
Weight	120 G	120 G	120 G
Control	DMX/TTL	DMX/TTL	DMX/TTL/No control
Housing	Aluminum	Aluminum	Aluminum
Housing Color	Grey	Grey	Grey
IP	IP65	IP65	IP65
Operating Temp	-35° ~ 60°	-35° ~ 60°	-35° ~ 60°
Storage Temp	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3 years	3 years	3 years

Dimension



Project



Spot light Features

Material:

Smaller and Medium power spot light. Supports a variety of customizations: aluminum color, lens, LED color (RGB, RGBW or monochrome). Protection grade IP66, UV resistance, flame retardant V0, electrical safety Class III, can effectively ensure the stability of the LED outdoor for all weather condition. The installation method is quick and convenient, and the angle can be adjusted by.

Lighting Performance:

RGBW, RGB, monochrome and other light source combinations to meet more requirements; minimize visible light-emitting surface and increase visual comfort; customizable lenses, different angle lenses, uniform light mixing, suitable for projection of many different heights building cleaning project; smoother grayscale changes; built-in electronic drive with over-temperature overload protection

Structure:

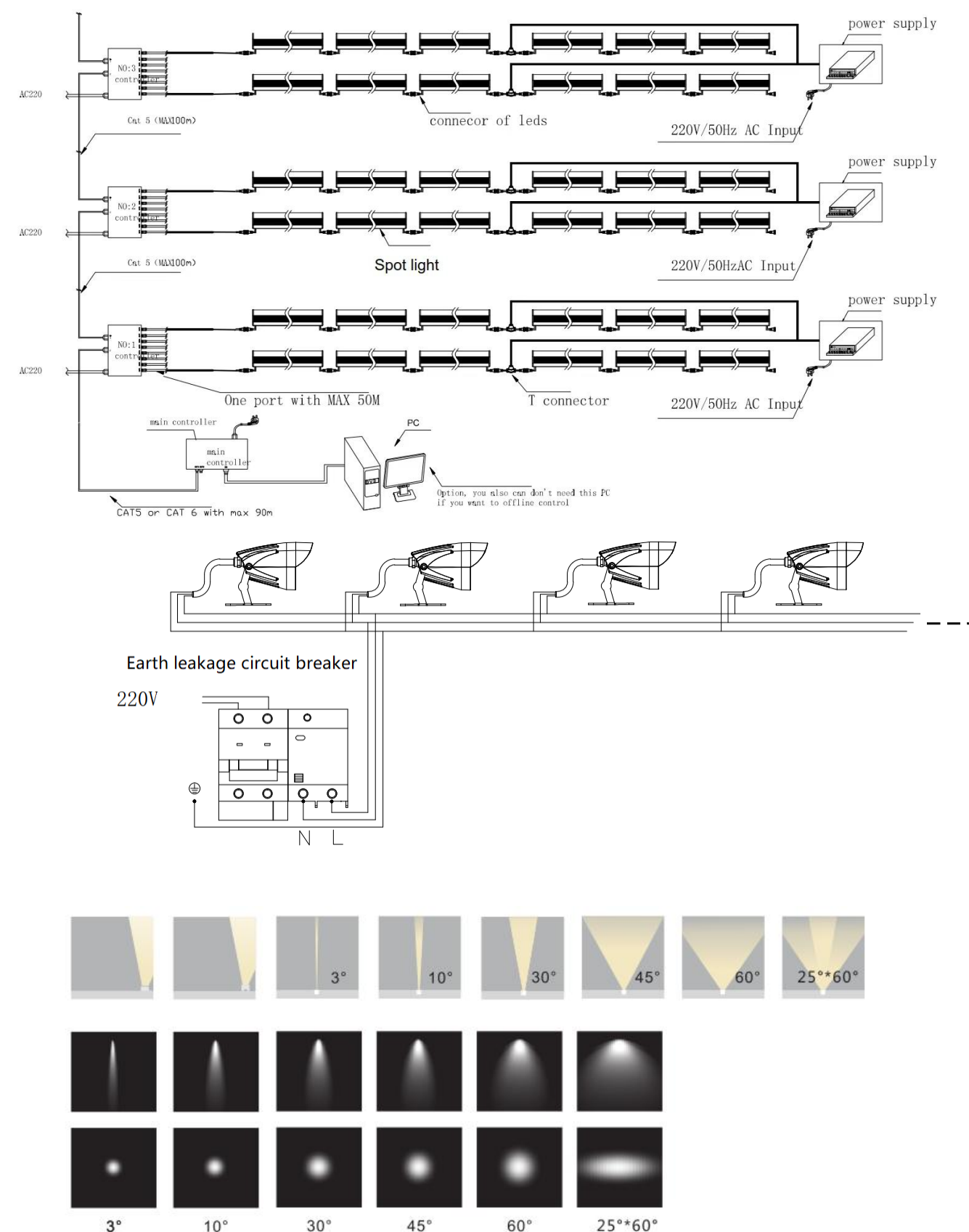
Light body design is small in size, integrated and compact design, with decorative panel, overall beautiful and simple and practical; extruded aluminum lamp body and tempered glass resistant to ultraviolet and salt spray, optical grade PC lens, LED body color customized according to the building; installation structure reasonable and convenient, to adjust the angle of the lamp.

Control :

The Linear used standard DMX protocol, multi-pixel or monochrome optional; with the standard control system, can achieve a variety of scene changes; high gray level high refresh frequency, to ensure that the picture is smooth.

System drawing

DMAX512 system drawing

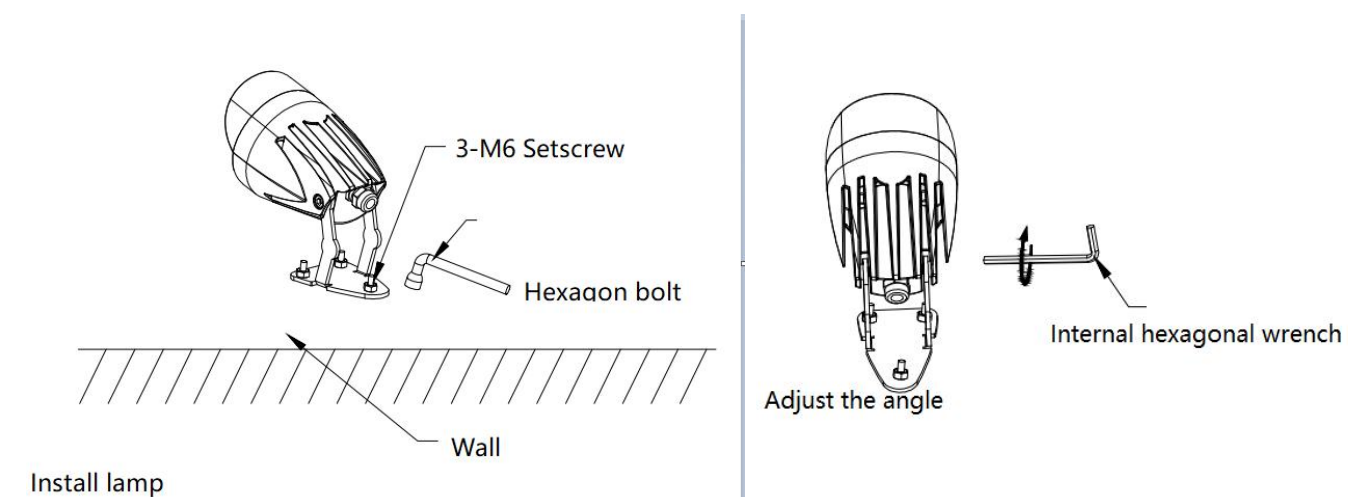




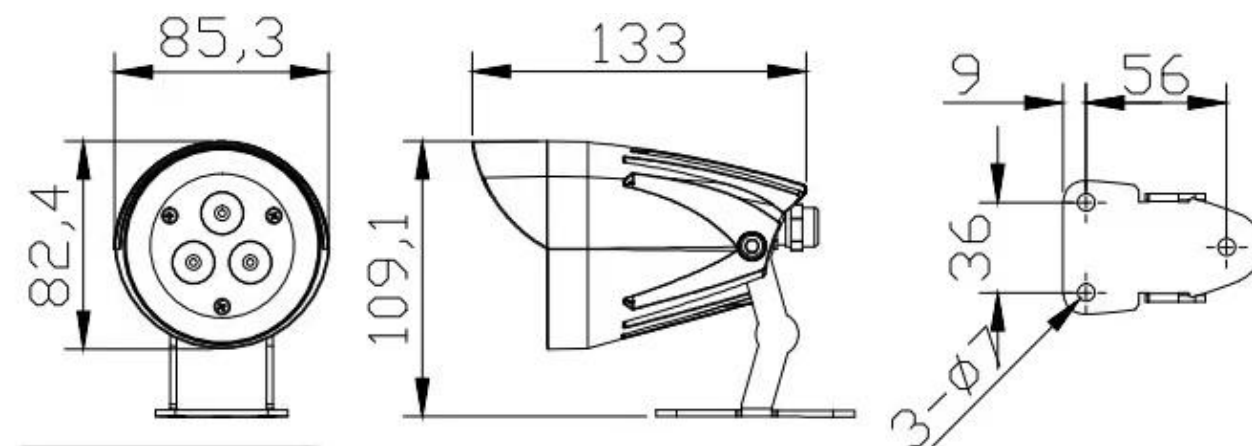
Tech Specifications

Model	BC-Kiwi85-W	BC-Kiwi85-RGB	BC-Kiwi85-RGBW
Led Brand	CREE	Epistar	Epistar
LED QTY	5 SMD	5 SMD	5 SMD
Voltage	AC220V /DC24V	DC24V	DC24V
Power	Max 15W	Max 15W	Max 15W
Pixel	0	1 pixel	1 pixel
Color Temp	2700k - 6000K	RGB	RGBW
Control	without control	DMX	DMX
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Beam angle	3°, 10°, 30°, 45°, 60°		
Cover	Glass	Glass	Glass
IP	IP66	IP66	IP66
Operating Temp	-35° ~ 50°	-20° ~ 50°	-20° ~ 50°
Storage Temp	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3-5 years	3 years	3 years

Installation



Dimension



Project

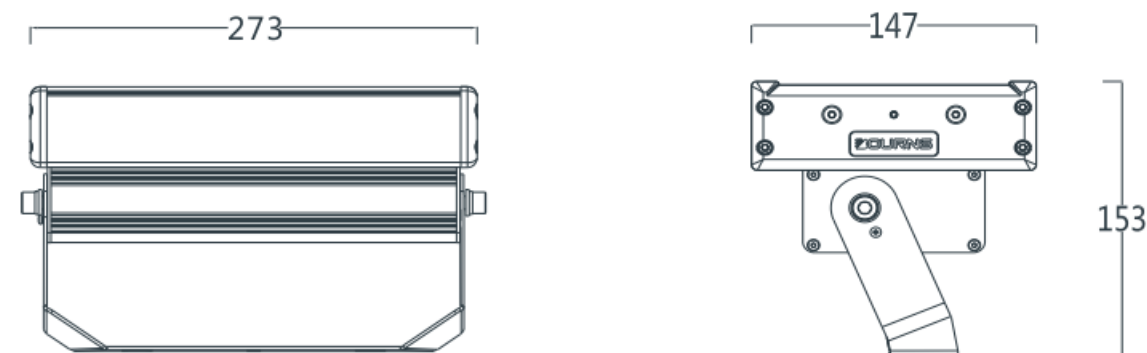




Tech Specifications

Model	BC-Kiwi273-W	BC-Kiwi273-RGB	BC-Kiwi273-RGBW
Led Brand	CREE	Epistar	Epistar
LED QTY	18 SMD	18/24 SMD	18/24 SMD
Voltage	AC220V	DC24V	DC24V
Power	Max 48W	Max 48W	Max 48W
Pixel	0	1 pixel	1 pixel
Color Temp	2700k - 6000K	RGB	RGBW
Control	without control	DMX	DMX
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Bean angle	3°, 10°,30°,45°,60°		
Cover	Glass	Glass	Glass
IP	IP67	IP67	IP67
Operating Temp	-30° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Temp	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3-5 years	3 years	3 years

Dimension



Project

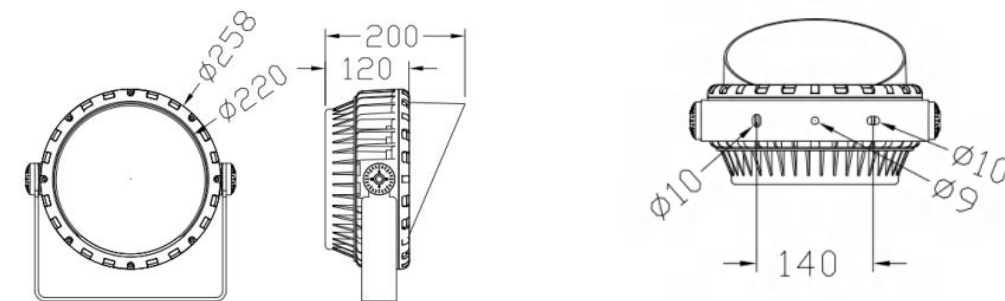




Tech Specifications

Model	BC-Kiwi258-W	BC-Kiwi258-RGB	BC-Kiwi258-RGBW
Led Brand	Epistar /Osram /Cree	Epistar	Epistar
LED QTY	24 SMD	24 SMD	24 SMD
Voltage	AC220V / DC24V	DC24V	DC24V
Power	Max 72W	Max 72W	Max 72W
Pixel	0	1 pixel	1 pixel
Color Temp	2700k - 6000K	RGB	RGBW
Control	without control	DMX	DMX
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Bean angle	3°, 10°,30°,45°,60°		
Cover	Glass	Glass	Glass
IP	IP66	IP66	IP66
Operating Temp	-35° ~ 50°	-20° ~ 50°	-20° ~ 50°
Storage Temp	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3-5 years	3 years	3 years

Dimension



Project

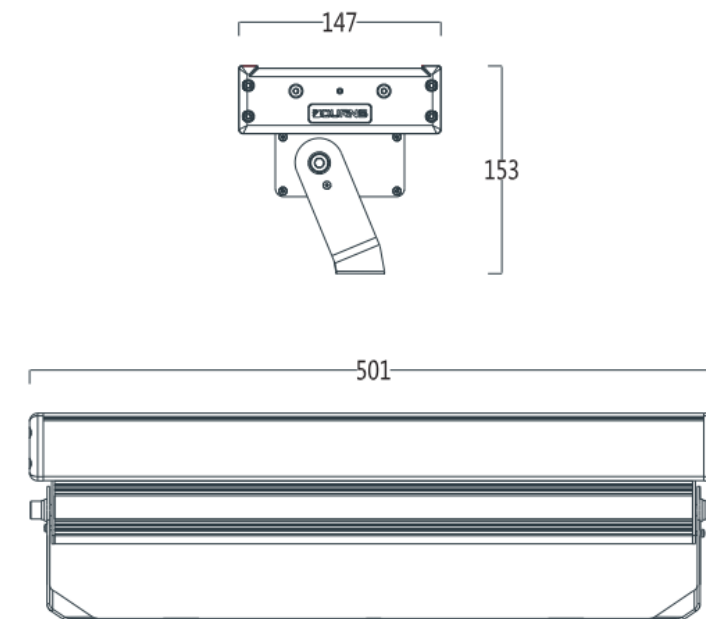




Tech Specifications

Model	BC-Kiwi501-W	BC-Kiwi501-RGB	BC-Kiwi501-RGBW
Led Brand	CREE	Epistar	Epistar
LED QTY	36 SMD	36 SMD	36 SMD
Voltage	AC220V	DC24V	DC24V
Power	Max 108W	Max 108W	Max 108W
Pixel	0	1 pixel	1 pixel
Color Temp	2700k - 6000K	RGB	RGBW
Control	without control	DMX	DMX
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Bean angle	3°, 10°,30°,45°,60°		
Cover	Glass	Glass	Glass
IP	IP67	IP67	IP67
Operating Temp	-30° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Temp	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3-5 years	3 years	3 years

Product Features



Project

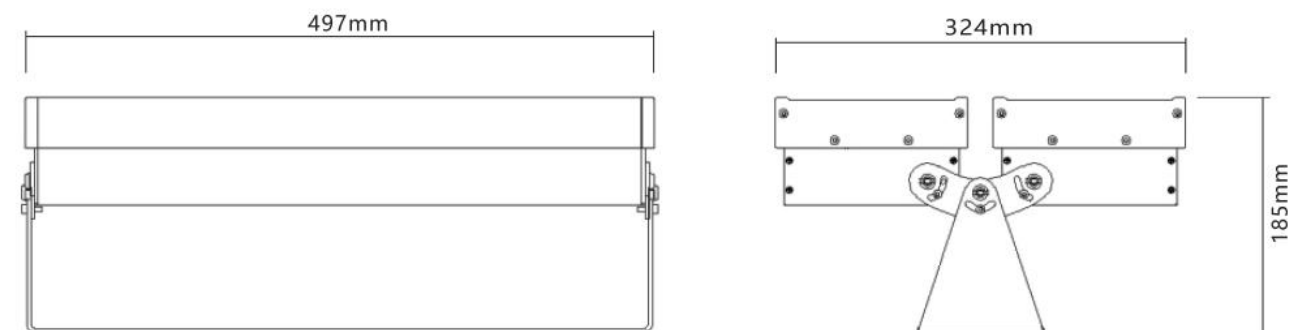




Tech Specifications

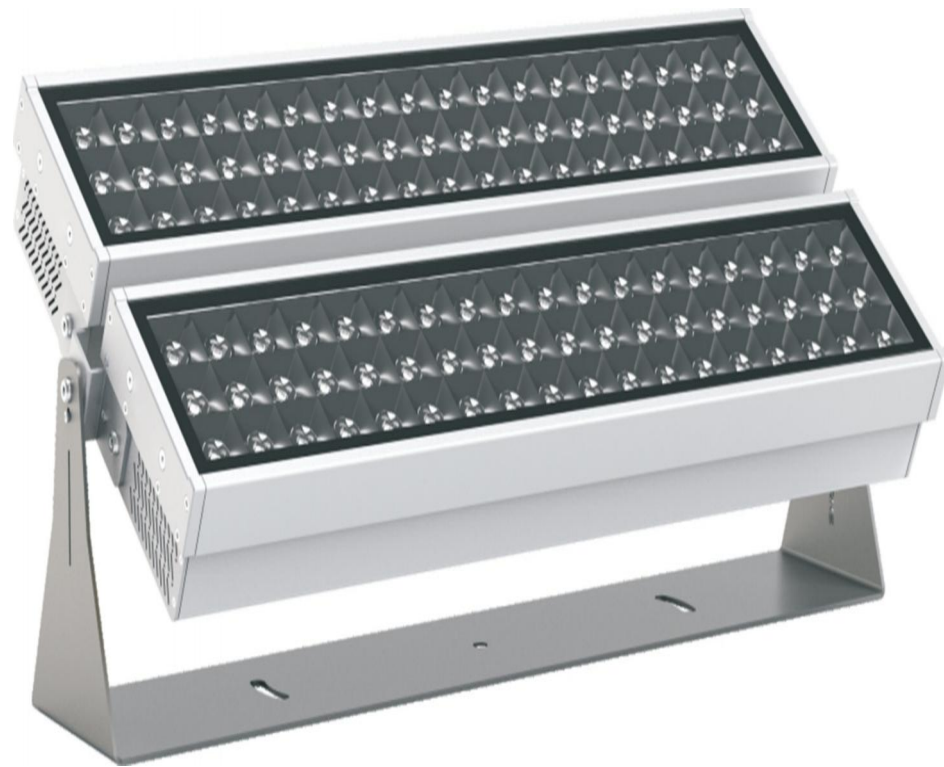
Model	BC-Kiwi497-W	BC-Kiwi497-RGB	BC-Kiwi497-RGBW
Led Brand	CREE	Epistar	Epistar
LED QTY	72 SMD	72 SMD	72 SMD
Voltage	AC220V	DC24V	DC24V
Power	Max 200W	Max 200W	Max 200W
Pixel	0	1 pixel	1 pixel
Color Temp	2700k - 6000K	RGB	RGBW
Control	without control	DMX	DMX
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Bean angle	3°, 10°,30°,45°,60°		
Cover	Glass	Glass	Glass
IP	IP67	IP67	IP67
Operating Temp	-35° ~ 50°	-20° ~ 50°	-20° ~ 50°
Storage Temp	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3-5 years	3 years	3 years

Dimension



Project

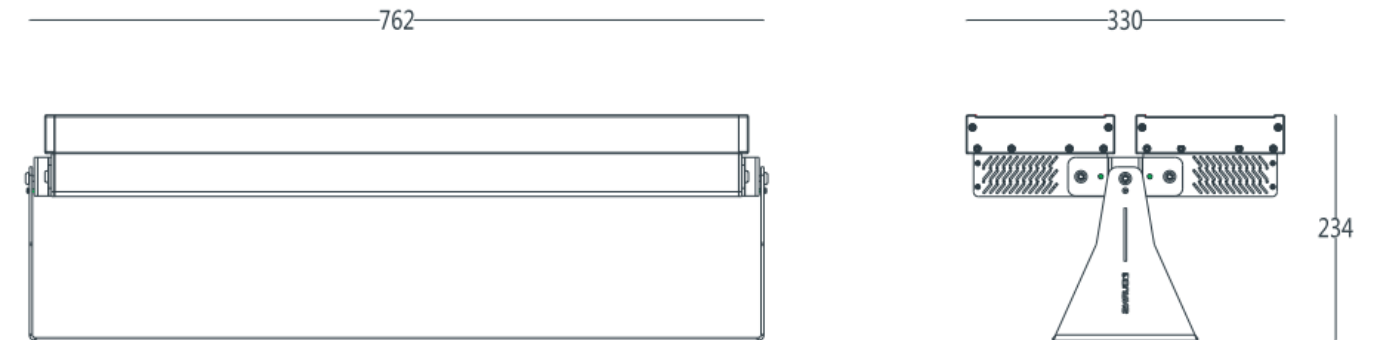




Tech Specifications

Model	BC-Kiwi762-W	BC-Kiwi762-RGB	BC-Kiwi762-RGBW
Led Brand	CREE	Epistar	Epistar
LED QTY	108 SMD	108 SMD	108 SMD
Voltage	AC220V	DC24V	DC24V
Power	Max 300W	Max 300W	Max 300W
Pixel	0	1 pixel	1 pixel
Color Temp	2700k - 6000K	RGB	RGBW
Control	without control	DMX	DMX
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Beam angle	3°, 10°, 30°, 45°, 60°		
Cover	Glass	Glass	Glass
IP	IP67	IP67	IP67
Operating Temp	-35° ~ 50°	-20° ~ 50°	-20° ~ 50°
Storage Temp	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3-5 years	3 years	3 years

Dimenson



Project

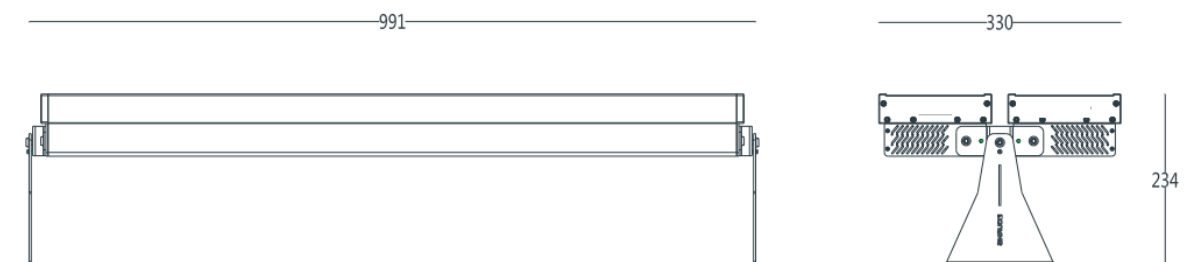




Tech Specifications

Model	BC-Kiwi991-W	BC-Kiwi991-RGB	BC-Kiwi991-RGBW
Led Brand	CREE	Epistar	Epistar
LED QTY	144 SMD	144 SMD	144 SMD
Voltage	AC220V	DC24V	DC24V
Power	Max 400W	Max 400W	Max 400W
Pixel	0	1 pixel	1 pixel
Color Temp	2700k - 6000K	RGB	RGBW
Control	without control	DMX	DMX
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Bean angle	3°, 10°,30°,45°,60°		
Cover	Glass	Glass	Glass
IP	IP67	IP67	IP67
Operating Temp	-35° ~ 50°	-20° ~ 50°	-20° ~ 50°
Storage Temp	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3-5 years	3 years	3 years

Dimension



Project



Linear Product features

Application:

Easy installation, high brightness, and can be used in multiple outdoor applications (Edge, Large Screen). Flexible customization options: aluminum color, length, LED color (RGB, RGBW, monochrome). Protection grade IP67, UV resistance, flame retardant V0, electrical safety Class III, Provide reliable outdoor stability under all weather conditions. Flexible installation, suitable for a variety of irregular building structures, providing reliable indoor and outdoor solutions.

Lighting Performance:

Light source configurations including RGBW, RGB, monochrome, etc., to meet a wide range of requirements; foreign imported material diffuser to create a uniform and soft light effect, to protect eyes from glare and increase visual comfort; With over-temperature overload protection and a built-in electronic drive, the picture looks more delicate and smooth.

Structure:

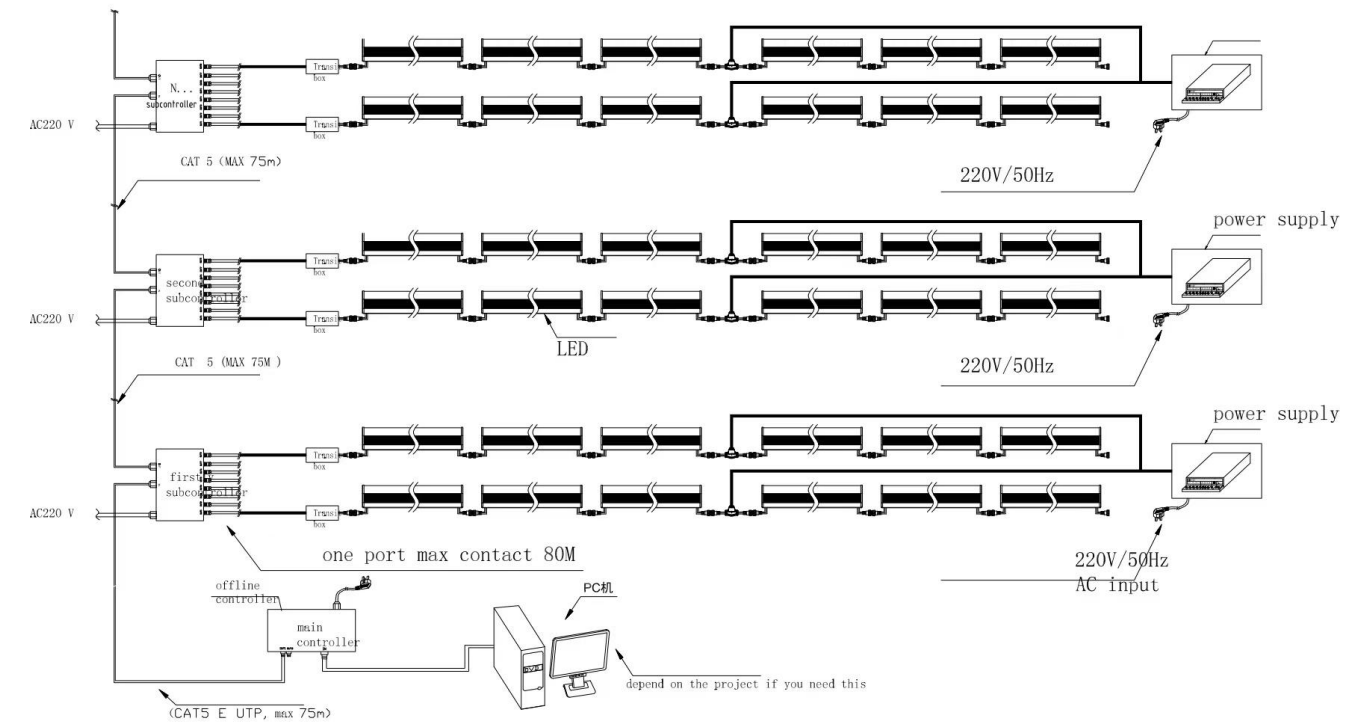
All the diffuse hoods use imported materials diffuse hood to ensure uniform light output. The structure of the lamp body is simple, reasonable and beautiful, and can be combined with other building structures. Square, curved, transparent, and opaque covers are available. Customization of the color of the housing is possible. The installation structure is reasonable and simple, can be slidably mounted to the mounting bracket. The operation is simple, and it can be applied to a wide range of building structures; Cables are hidden at the bottom of the linear and perfectly integrated with the building structure.

Control:

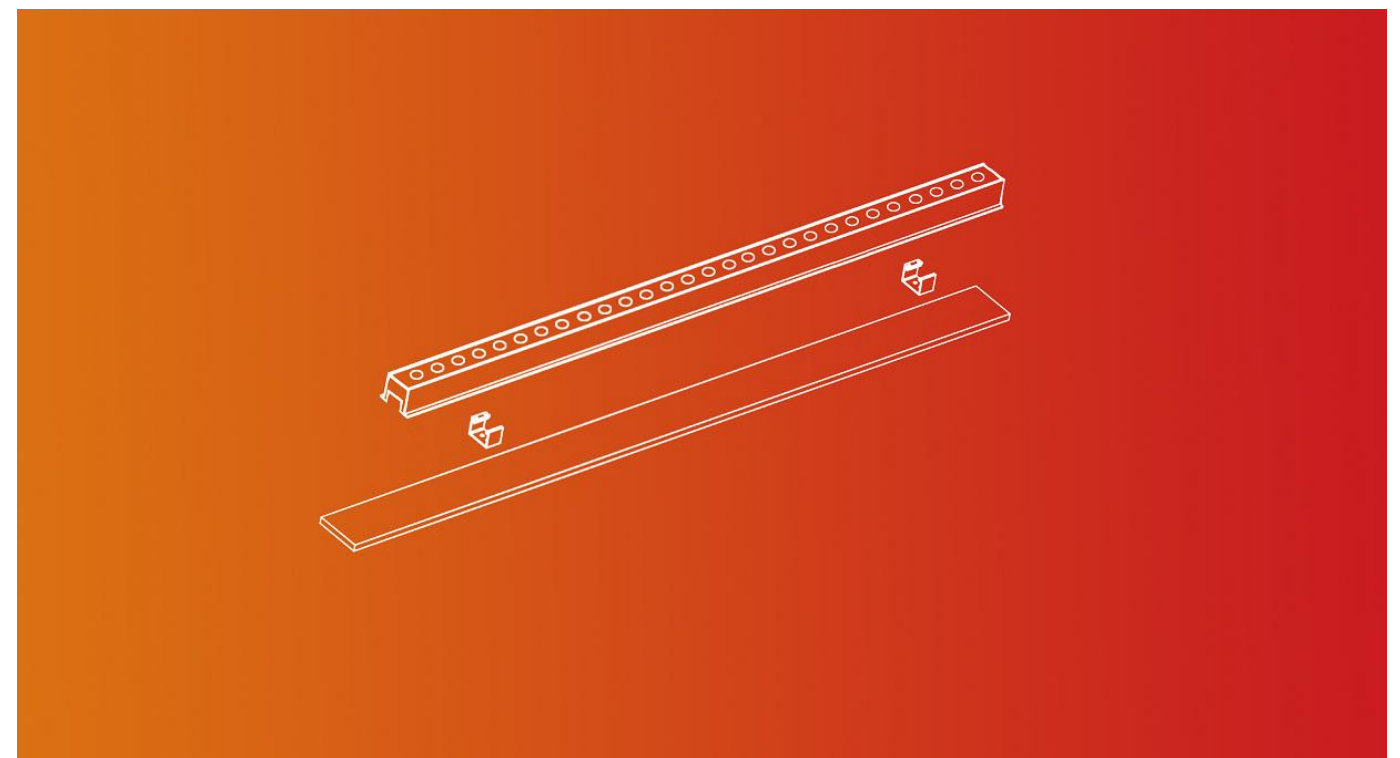
DMX or SPI protocol is used by the Linear, multi-pixel or monochrome; with the standard control system, can achieve a variety of scene changes; high gray level and high refresh frequency, ensuring smooth output.

Parameters of Optics

Control System Drawing



Installation

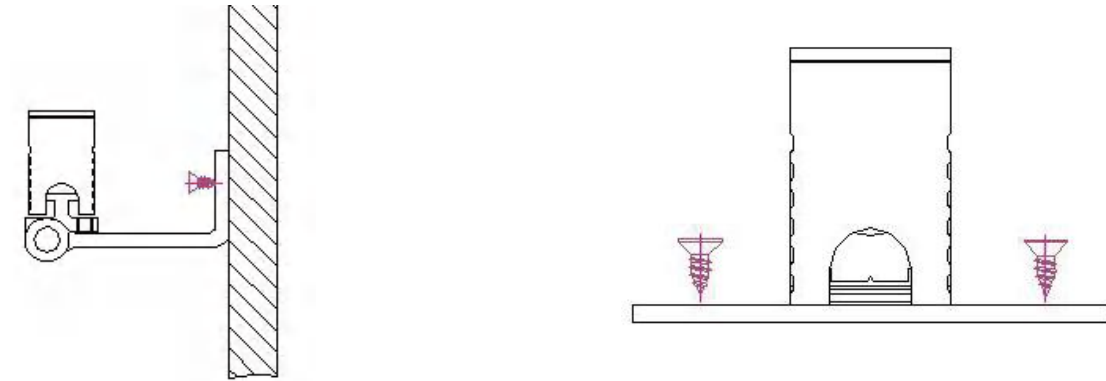




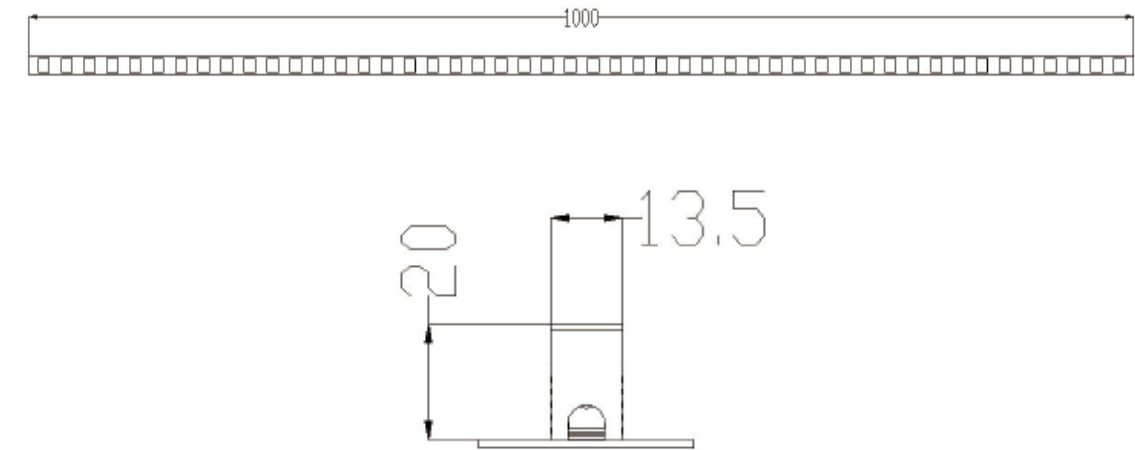
Tech Specifications

Model	BC-Apio13-W	BC-Apio13-RGB	BC-Apio13-RGBW
Led Brand	Epistar /Osram/CREE	Epistar /Osram/CREE	Epistar /Osram/CREE
LED QTY	48 pcs	48 pcs	48 pcs
Voltage	DC24V	DC24V	DC24V
Power	12W	12W	12W
Pixel	0 / 8 pixel	8 pixel	8 pixel
Color Temp	2700k - 6000K	2700k - 6000K	RGB
Control	without control /DMX	DMX	DMX
Weight	0.15KG	0.15KG	0.15KG
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Cover	Aluminum	Aluminum	Aluminum
Cover	Glass	Glass	Glass
IP	IP65	IP65	IP65
Operating Temp	-30° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Tem	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan/Warranty	50000 hours/3 years	50000 hours/3 years	50000 hours/3 years

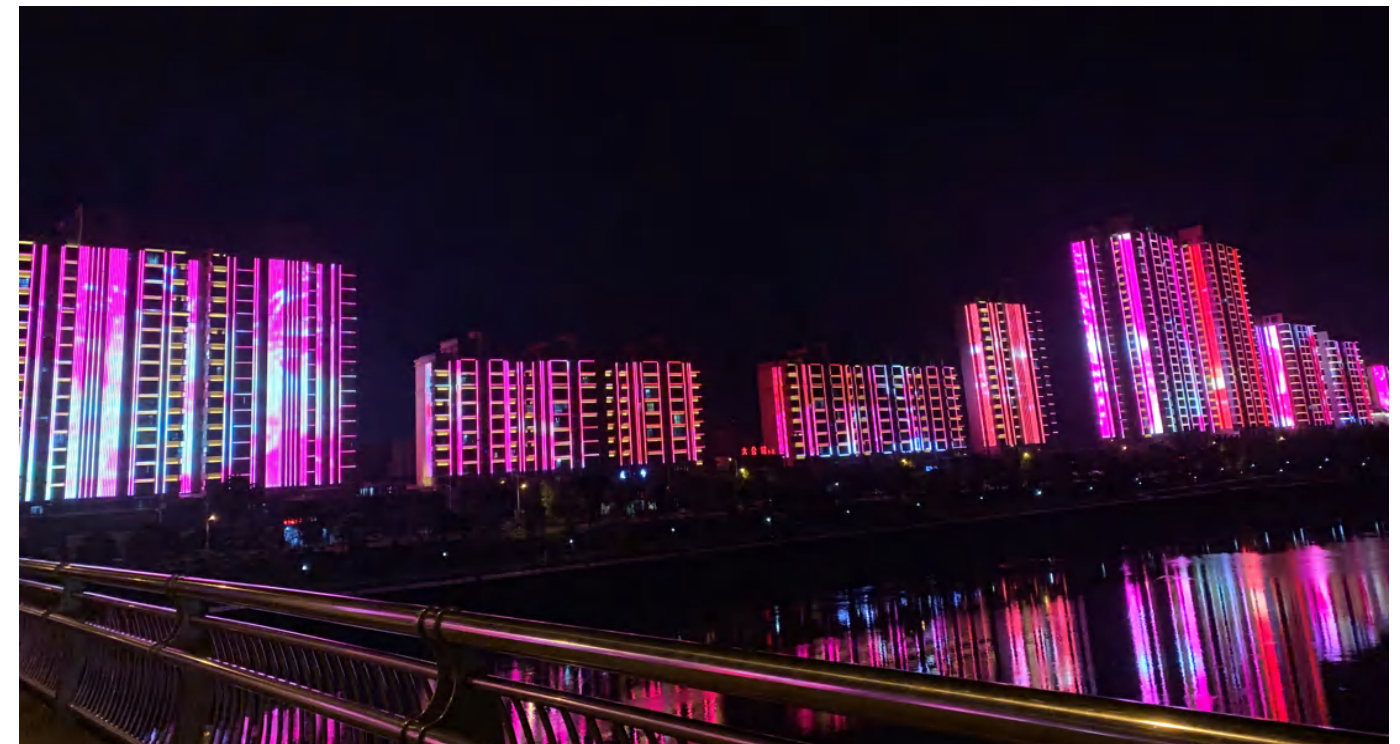
Installation



Dimension



Project

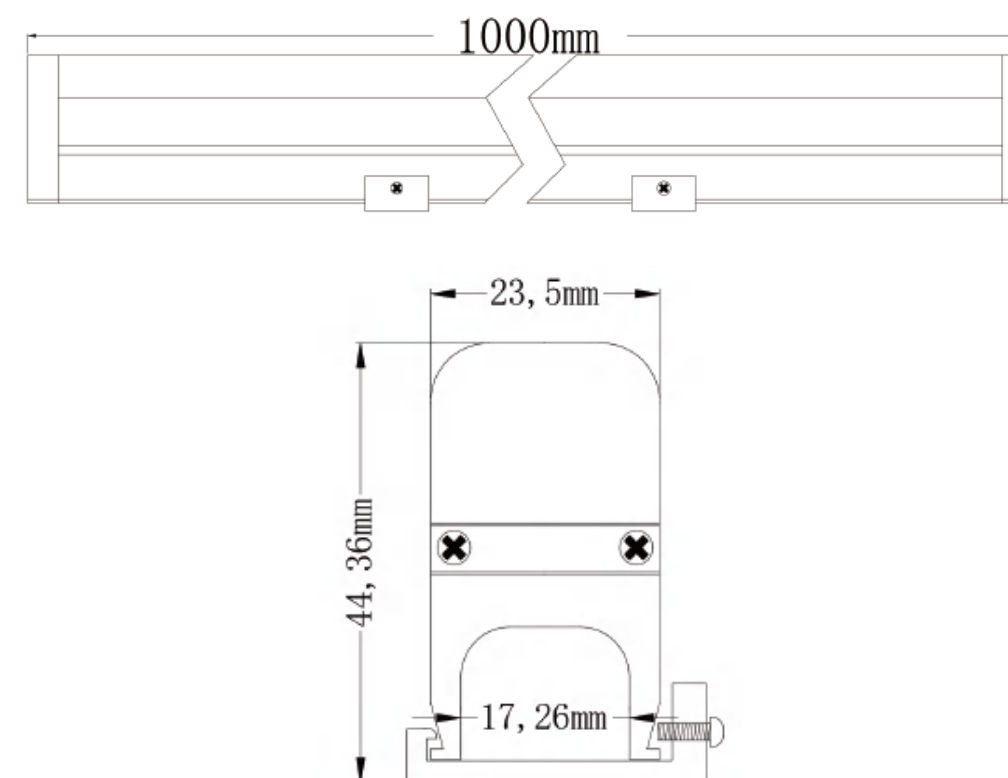




Tech Specifications

Model	BC-Apio23-W	BC-Apio23-RGB	BC-Apio23-RGBW
Led Brand	Epistar /Osram/CREE	Epistar /Osram/CREE	Epistar /Osram/CREE
LED QTY	48 pcs	48 pcs	48 pcs
Voltage	DC24V	DC24V	DC24V
Power	12W	12W	12W
Pixel	0 / 8 pixel	8 pixel	8 pixel
Color Temp	2700k - 6000K	2700k - 6000K	RGB
Control	without control /DMX	DMX	DMX
Weight	0.67KG	0.67KG	0.67KG
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Cover	Flat PC	Flat PC	Flat PC
Cover	Glass	Glass	Glass
IP	IP65	IP65	IP65
Operating Temp	-30° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Tem	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan/Warranty	50000 hours/3 years	50000 hours/3 years	50000 hours/3 years

Product features



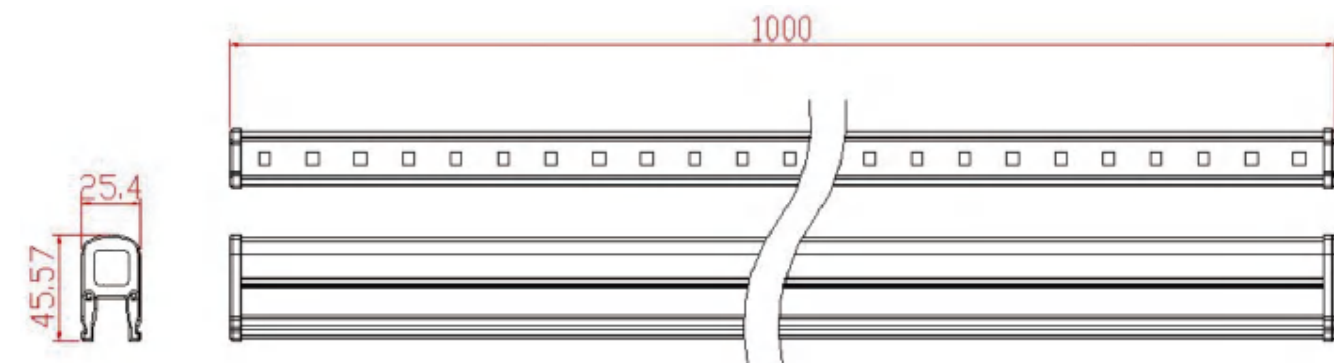
Project





Tech Specifications			
Model	BC-Apio25-W	BC-Apio25-RGB	BC-Apio25-RGBW
Led Brand	Epistar /Osram/CREE	Epistar /Osram/CREE	Epistar /Osram/CREE
LED QTY	48 pcs	48 pcs	48 pcs
Voltage	DC24V	DC24V	DC24V
Power	12W	12W	12W
Pixel	0 / 8 pixel	8 pixel	8 pixel
Color Temp	2700k - 6000K	2700k - 6000K	RGB
Control	without control /DMX	DMX	DMX
Weight	0.35KG	0.35KG	0.35KG
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Cover	Ball PC	Ball PC	Ball PC
Cover	Glass	Glass	Glass
IP	IP65	IP65	IP65
Operating Temp	-30° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Tem	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan/Warranty	50000 hours/3 years	50000 hours/3 years	50000 hours/3 years

Product features

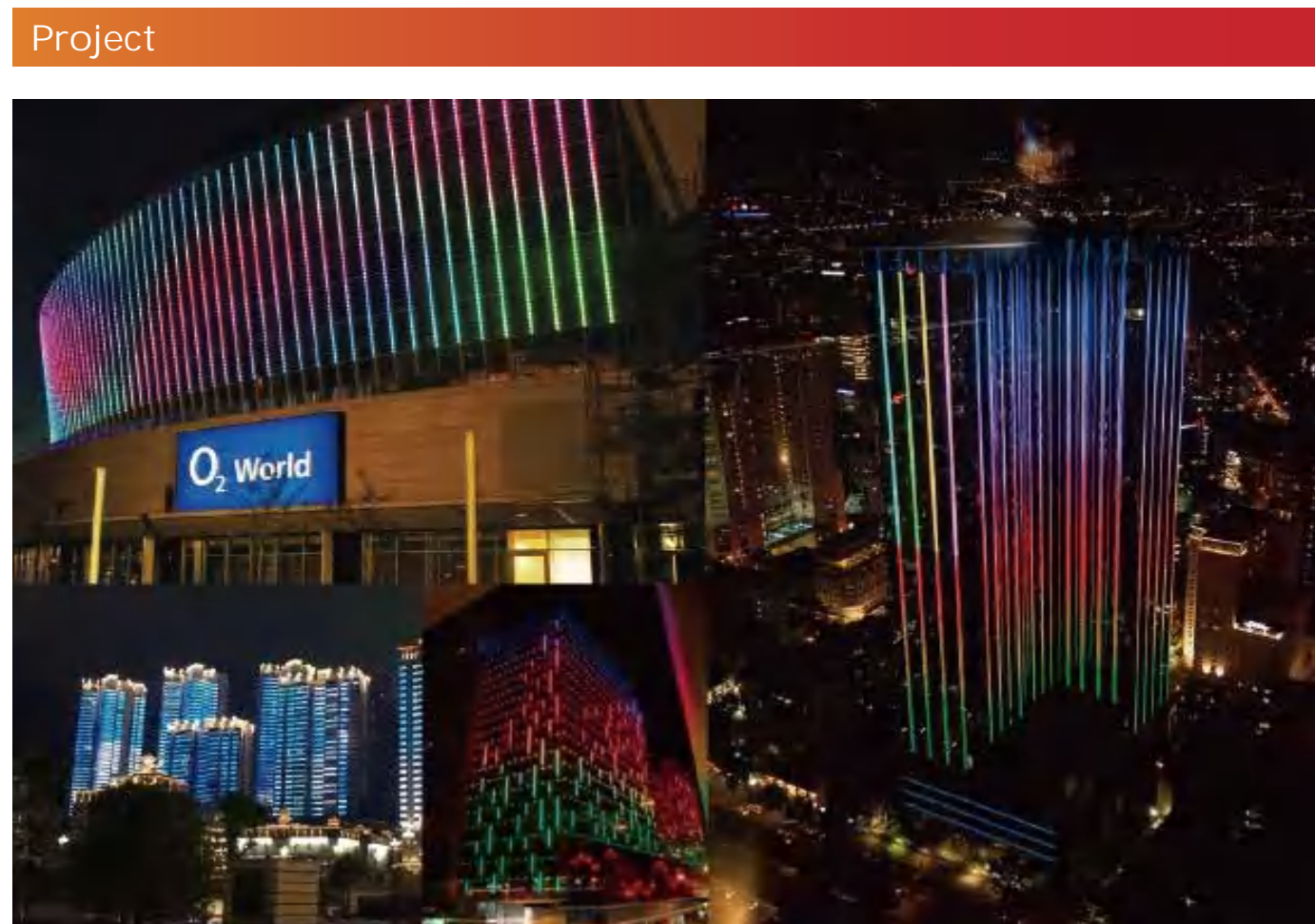
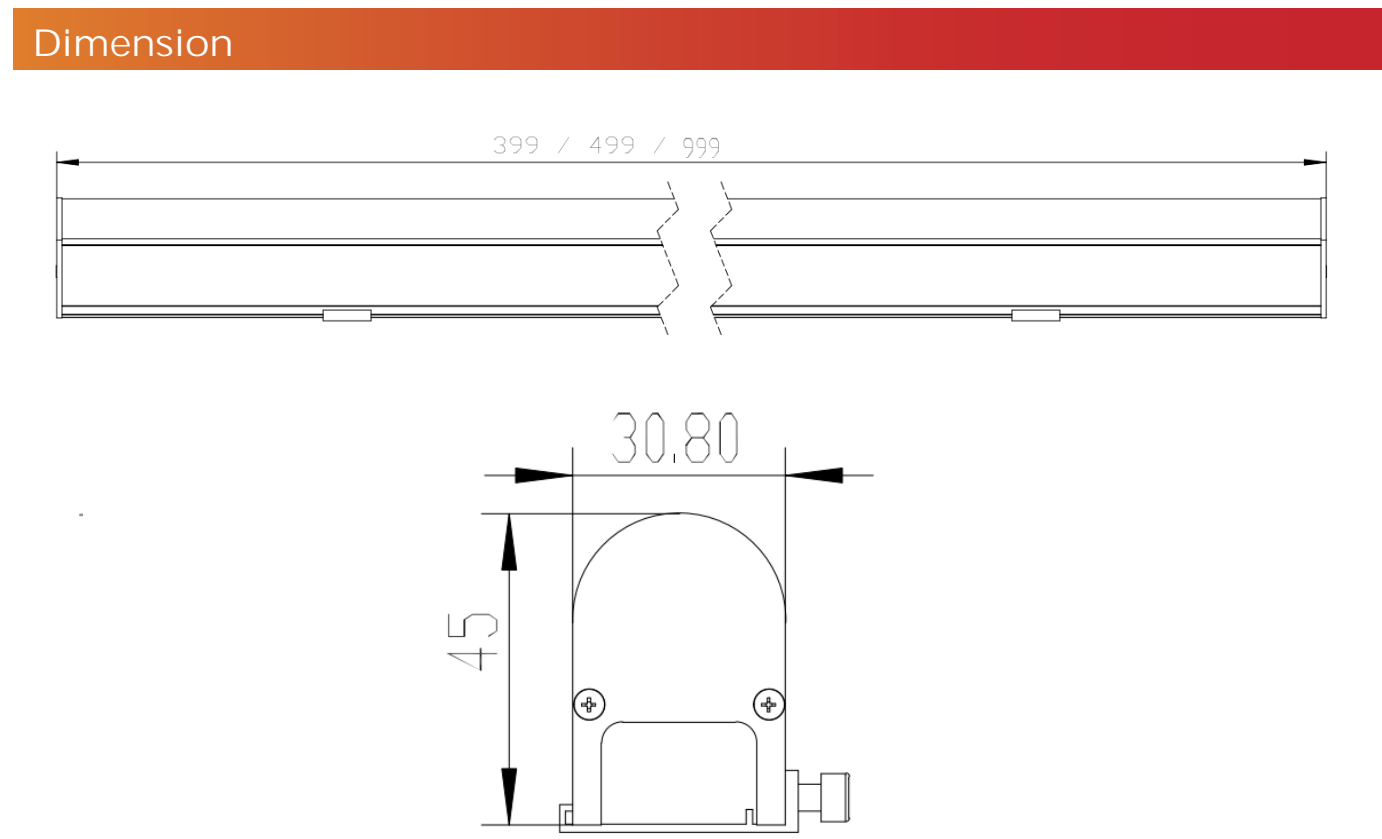


Product features





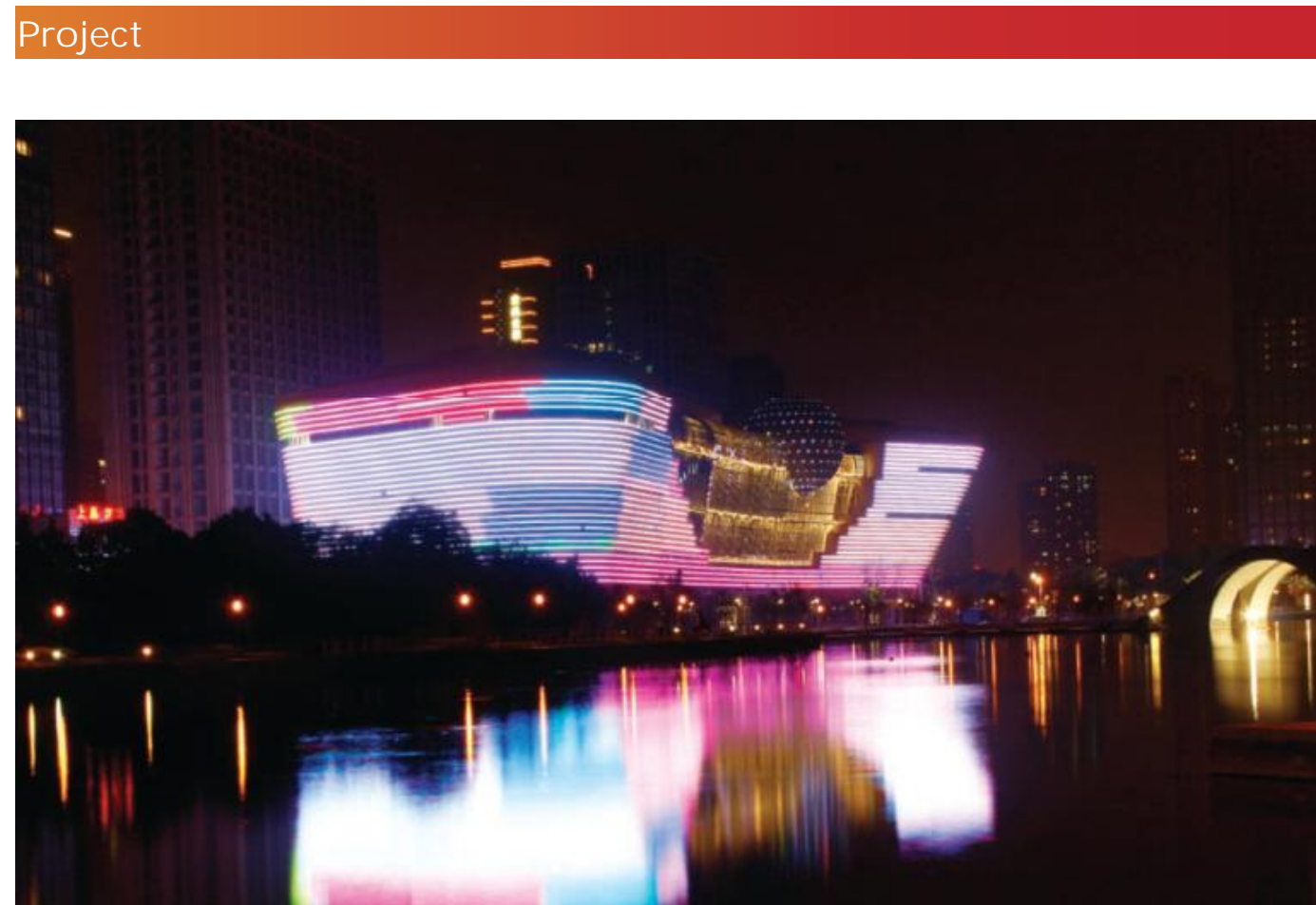
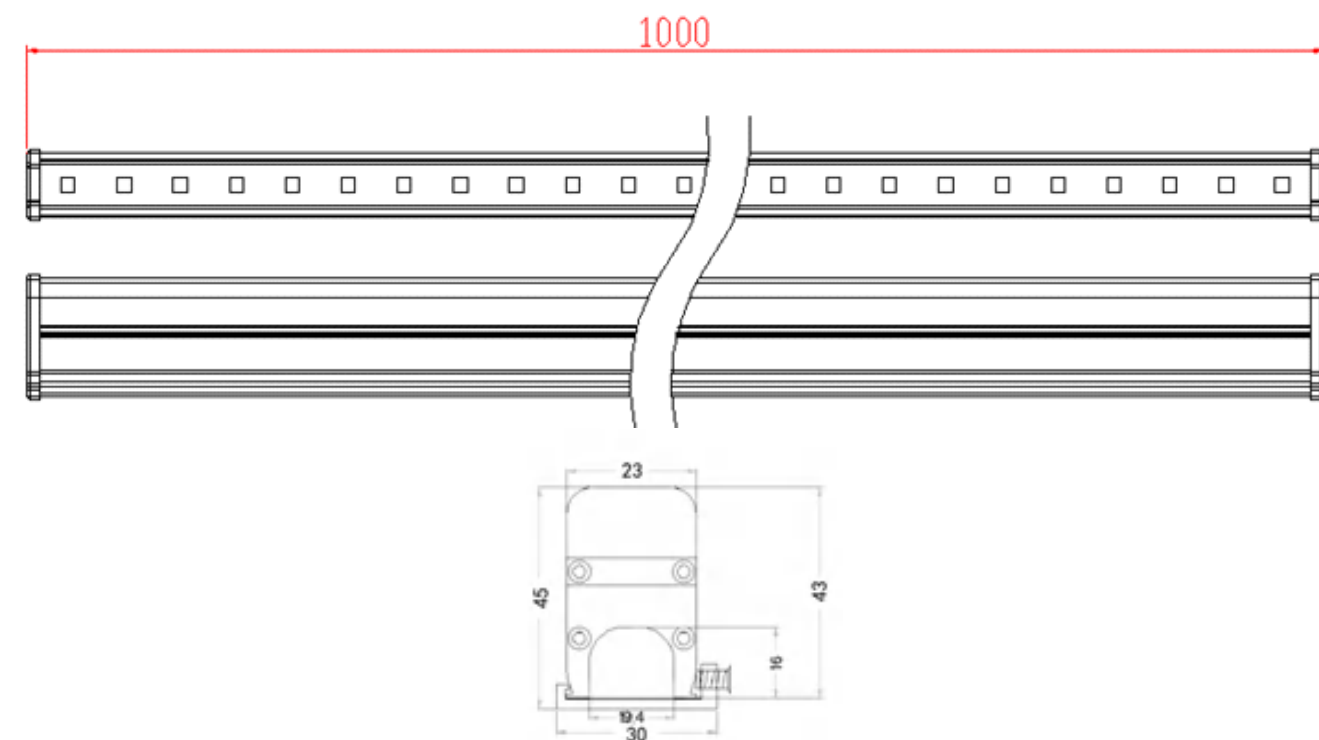
Tech Specifications Project			
Model	BC-Apio30-W	BC-Apio30-RGB	BC-Apio30-RGBW
Led Brand	Epistar /Osram/CREE	Epistar /Osram/CREE	Epistar /Osram/CREE
LED QTY	48 pcs	48 pcs	48 pcs
Voltage	DC24V	DC24V	DC24V
Power	12W	12W	12W
Pixel	0 / 8 pixel	8 pixel	8 pixel
Color Temp	2700k - 6000K	2700k - 6000K	RGB
Control	without control /DMX	DMX	DMX
Weight	0.57KG	0.57KG	0.57KG
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Cover	Flat / Ball PC	Flat / Ball PC	Flat / Ball PC
Cover	Glass	Glass	Glass
IP	IP65	IP65	IP65
Operating Temp	-30° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Tem	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan/Warranty	50000 hours/3 years	50000 hours/3 years	50000 hours/3 years





Tech Specifications			
Model	BC-Apio234-W	BC-Apio234-RGB	BC-Apio234-RGBW
Led Brand	Epistar /Osram/CREE	Epistar /Osram/CREE	Epistar /Osram/CREE
LED QTY	48 pcs	48 pcs	48 pcs
Voltage	DC24V	DC24V	DC24V
Power	12W	12W	12W
Pixel	0 / 8 pixel	8 pixel	8 pixel
Color Temp	2700k - 6000K	2700k - 6000K	RGB
Control	without control /DMX	DMX	DMX
Weight	0.35KG	0.35KG	0.35KG
Housing	Silvery / Aluminum	Silvery / Aluminum	Silvery / Aluminum
Cover	Flat / Ball PC	Flat / Ball PC	Flat / Ball PC
Cover	Glass	Glass	Glass
IP	IP65	IP65	IP65
Operating Temp	-30° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Tem	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan/Warranty	50000 hours/3 years	50000 hours/3 years	50000 hours/3 years

Product features



Wall washer Product features

Application:

Various customizations are available: aluminum color, length, lens, LED color (RGB, RGBW or monochrome). IP65, UV resistance, flame retardant V0, electrical safety Class III, etc. The installation method is fast and easy, and the angle can be adjusted, effectively ensuring the LED outdoor's stability under any weather condition.

Lighting Performance:

Combining RGBW, RGB, monochrome, and other light sources to meet more requirements; reducing visible light-emitting surfaces and increasing visual comfort; Customized lenses, different lenses of different angles, uniform light mixing, suitable for building cleaning projects at various heights; 16-bit color resolution, smoother grayscale changes; electronic drive with temperature overload protection.

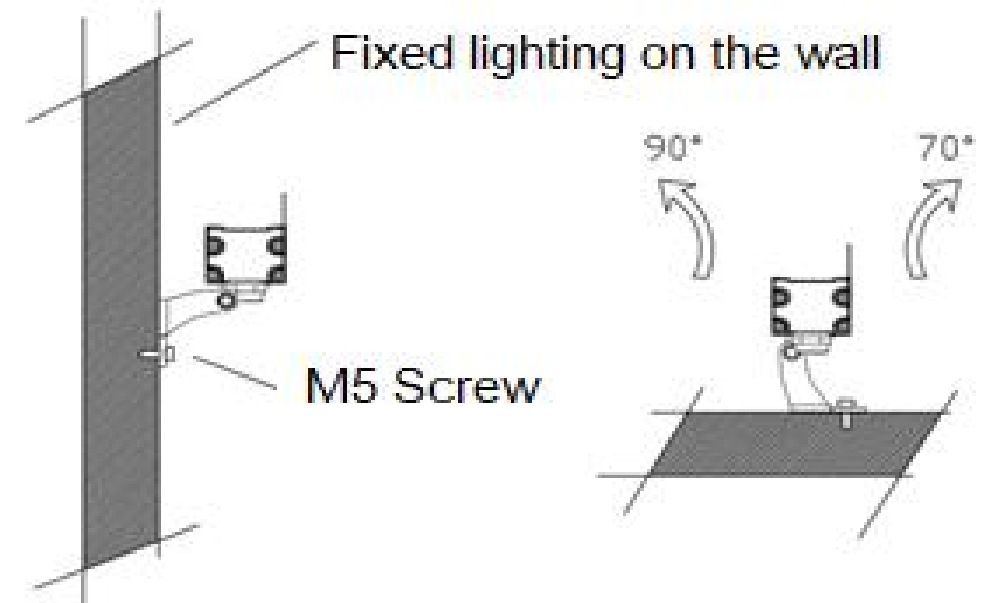
Structure:

The body design simple and practical, with an extruded aluminum lamp body and tempered glass resistant to ultraviolet rays and salt spray, a PC optical lens, and LED bodies customized to match the building's color scheme; installation is simple and straightforward.

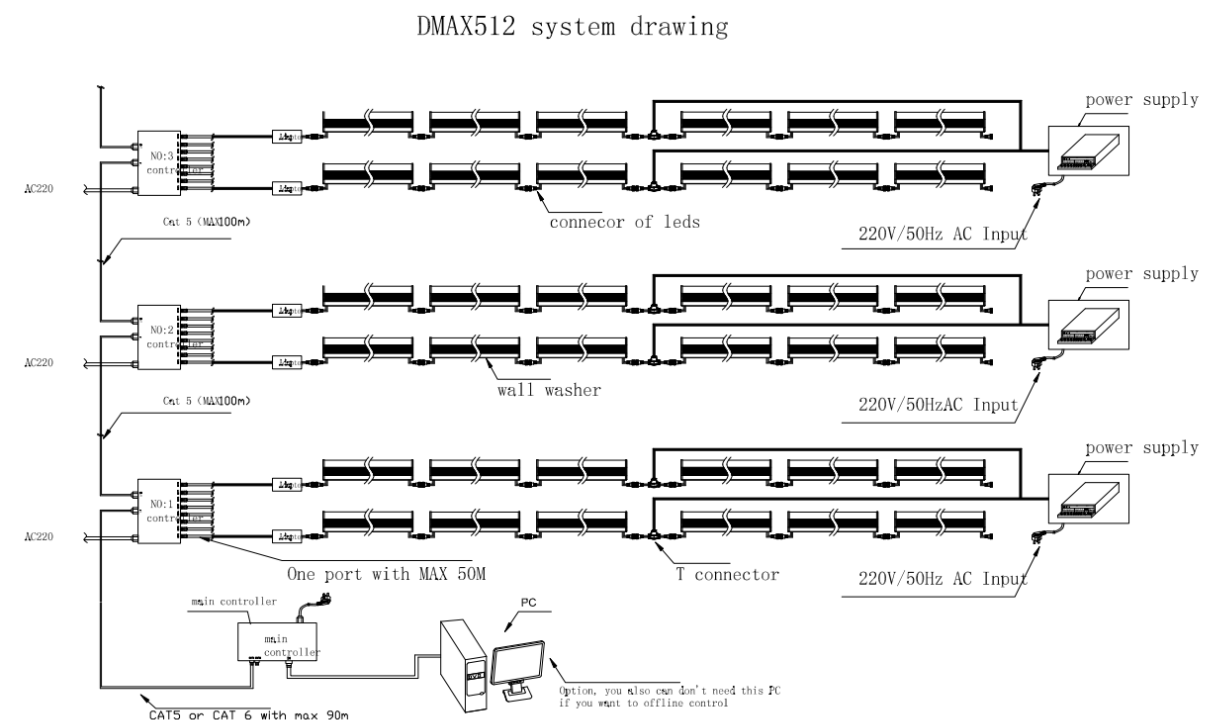
Control:

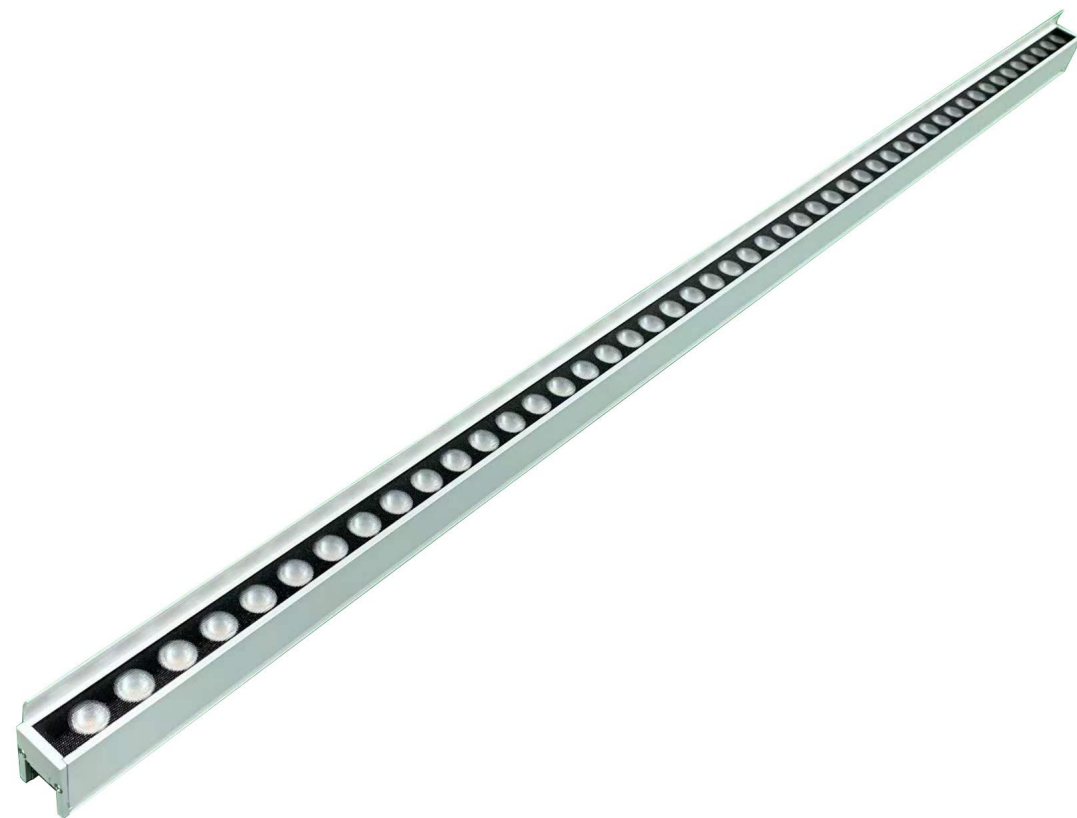
The wall washer used standard DMX protocol, multi-pixel or monochrome available; with the standard control system, the various scenes can be changed; high gray level high refresh frequency, to ensure that the image appears smooth.

Installation



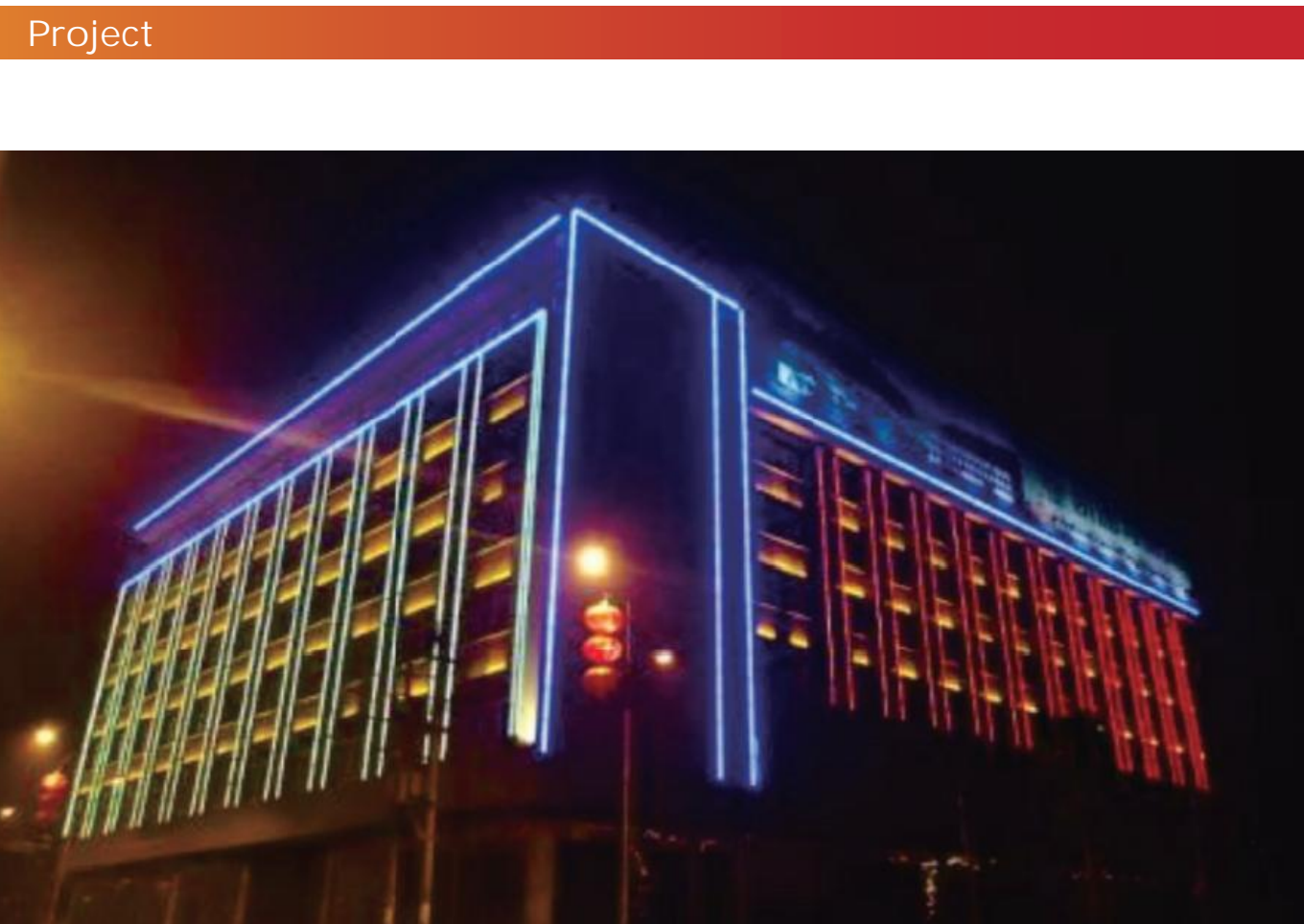
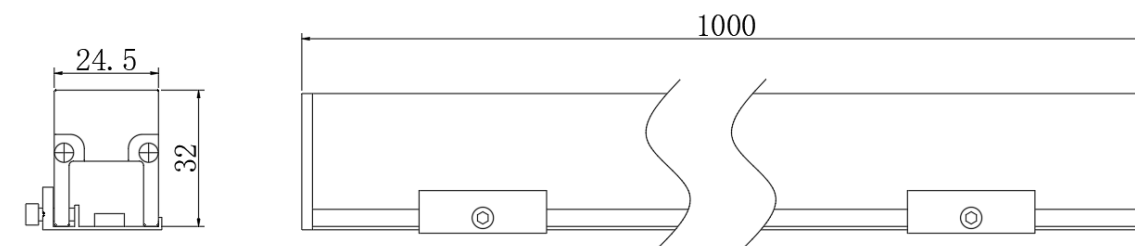
Control System Drawing





Tech Specifications			
Model	BC-Cuca243-W	BC-Cuca243-RGB	BC-Cuca243-RGBW
Led Brand	Epistar /Osram/CREE	Epistar	Epistar
LED QTY	48 pcs	48 pcs	48 pcs
Voltage	DC24V	DC24V	DC24V
Power	Max 15W	Max 15W	Max 15W
Pixel	0	8 pixel	8 pixel
Color Temp	2700k - 6000K	2700k - 6000K	RGB
Control	without control	DMX	DMX
Weight	0.5KG	0.5KG	0.5KG
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Bean angle	20°,45°,25°45°	20°,45°,25°45°	20°,45°,25°45°
Cover	Glass	Glass	Glass
IP	IP65	IP65	IP65
Operating Temp	-30° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Tem	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan/Warranty	50000 hours/3 years	50000 hours/3 years	50000 hours/3 years

Dimension

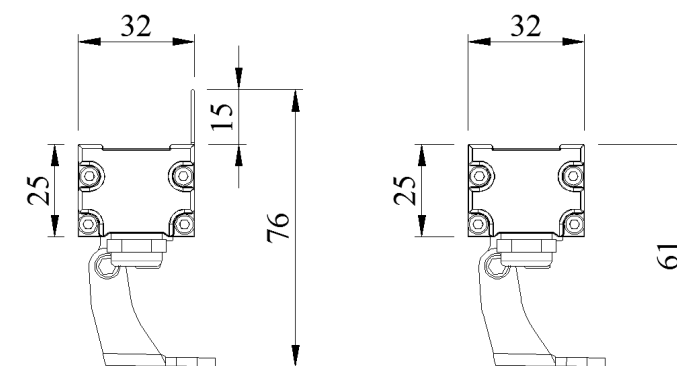




Tech Specifications

Model	BC-Cuca322-W	BC-Cuca322-RGB	BC-Cuca322-RGBW
Led Brand	Epistar /Osram/CREE	Epistar	Epistar
LED QTY	18/24 SMD	18/24/36 SMD	18/24 SMD
Voltage	DC24V	DC24V	DC24V
Power	18W/24W	18W/24W	18W/24W
Pixel	0	4 pixel	4 pixel
Color Temp	2700k - 6000K	RGB	RGBW
Control	without control	DMX	DMX
Weight	0.8KG	0.8KG	0.8KG
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Bean angle	10°*22°,10°*60°, 10°*45°, 10°*30°, 10°, 15°,30°,45°,60°		
Cover	Glass	Glass	Glass
IP	IP65	IP65	IP65
Operating Temp	-30° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Tem	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan/Warranty	50000 hours/3 years	50000 hours/3 years	50000 hours/3 years

Dimension



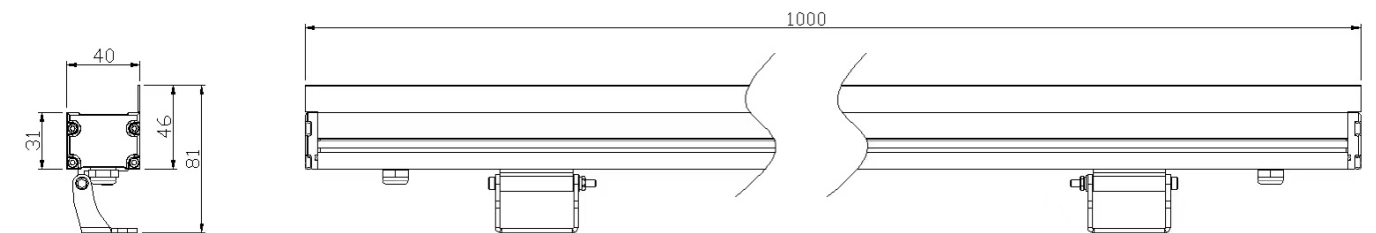
Project





Tech Specifications			
Model	BC-Cuca403-W	BC-Cuca403-RGB	BC-Cuca403-RGBW
Led Brand	Epistar /Osram/CREE	Epistar	Epistar
LED QTY	18/24 SMD	18/24/36 SMD	18/24 SMD
Voltage	DC24V	DC24V	DC24V
Power	Max 40W	Max 48W	Max 48W
Pixel	0	4 pixel	4 pixel
Color Temp	2700k - 6000K	RGB	RGBW
Control	without control	DMX	DMX
Weight	1.64KG	1.64KG	1.64KG
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Bean angle	10°*22°,10°*60°, 10°*45°, 10°*30°, 10°, 15°,30°,45°,60°		
Cover	Glass	Glass	Glass
IP	IP65	IP65	IP65
Operating Temp	-30° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Tem	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan/Warranty	50000 hours/3 years	50000 hours/3 years	50000 hours/3 years

Dimension



Project

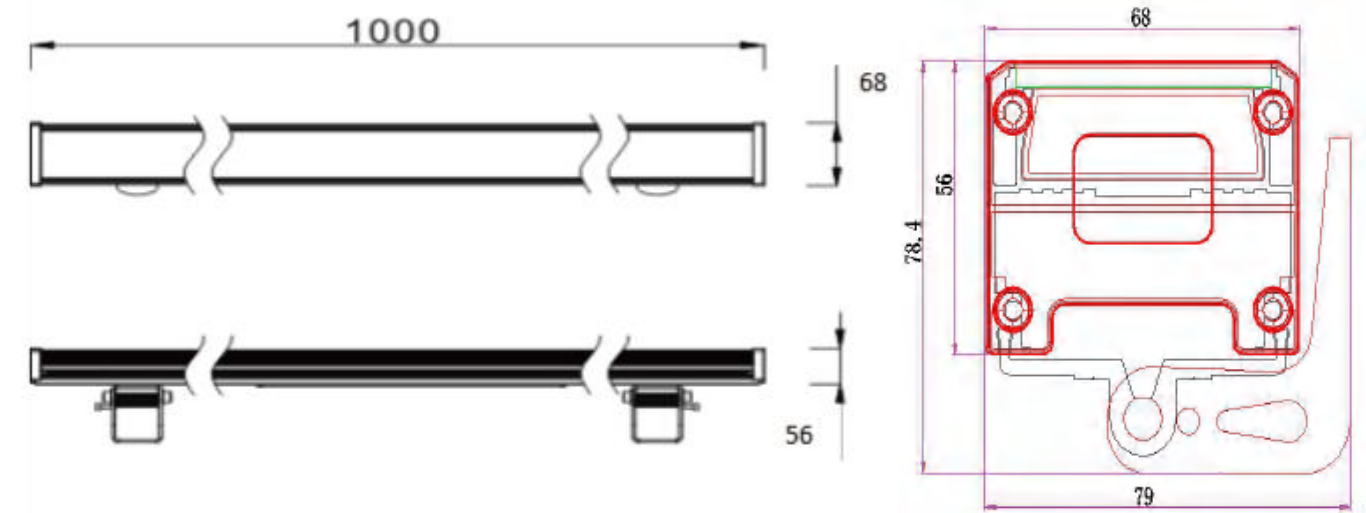




Tech Specifications

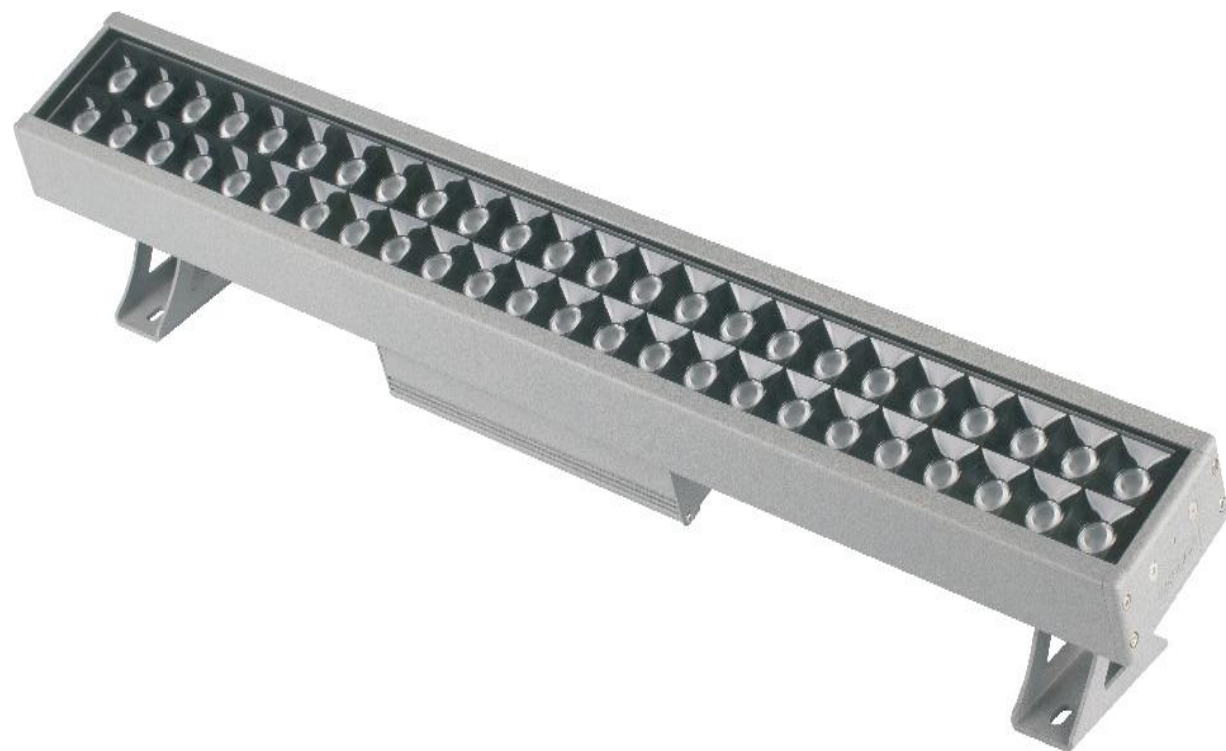
Model	BC-Cuca68-W	BC-Cuca68-RGB	BC-Cuca68-RGBW
Led Brand	Epistar /Osram/CREE	Epistar	Epistar
LED QTY	48 SMD	48 SMD	48 SMD
Voltage	DC24V	DC24V	DC24V
Power	72W	72W	72W
Pixel	0	4 pixel	4 pixel
Color Temp	2700k - 6000K	RGB	RGBW
Control	without control	DMX	DMX
Weight	1.8KG	1.8KG	1.8KG
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Bean angle	10°*60°, 10°*45°, 10°*30°, 10°, 15°,30°,45°,60°		
Cover	Glass	Glass	Glass
IP	IP65	IP65	IP65
Operating Temp	-30° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Tem	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan/Warranty	50000 hours/3 years	50000 hours/3 years	50000 hours/3 years

Product features



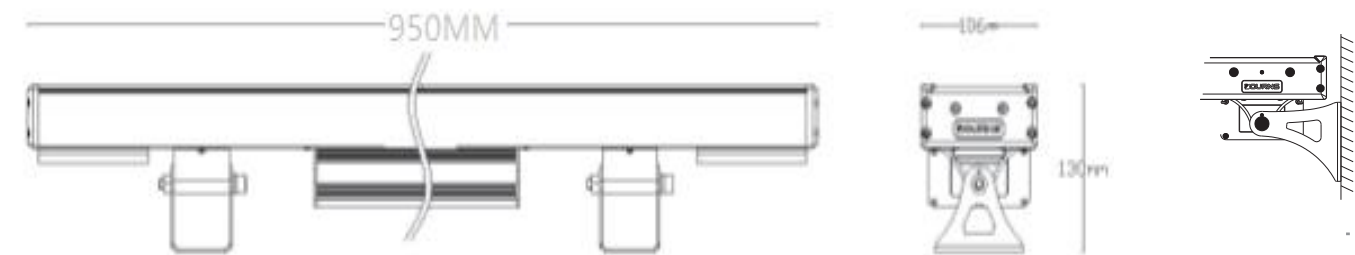
Project





Tech Specifications			
Model	BC-Cuca106-W	BC-Cuca106-RGB	BC-Cuca106-RGBW
Led Brand	Epistar /Osram/CREE	Epistar	Epistar
LED QTY	48 SMD	48 SMD	48 SMD
Voltage	DC24V	DC24V	DC24V
Power	Max120W	Max120W	Max120W
Pixel	0	4 pixel	4 pixel
Color Temp	2700k - 6000K	RGB	RGBW
Control	without control	DMX	DMX
Weight	3.5KG	3.5KG	3.5KG
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Bean angle	3°,10°, 15°,30°,45°,60°,10°*60°, 10°*45°, 10°*30°,		
Cover	Glass	Glass	Glass
IP	IP65	IP65	IP65
Operating Temp	-35° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Tem	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan/Warranty	50000 hours/3-5 years	50000 hours/3 years	50000 hours/3 years

Dimension



Project

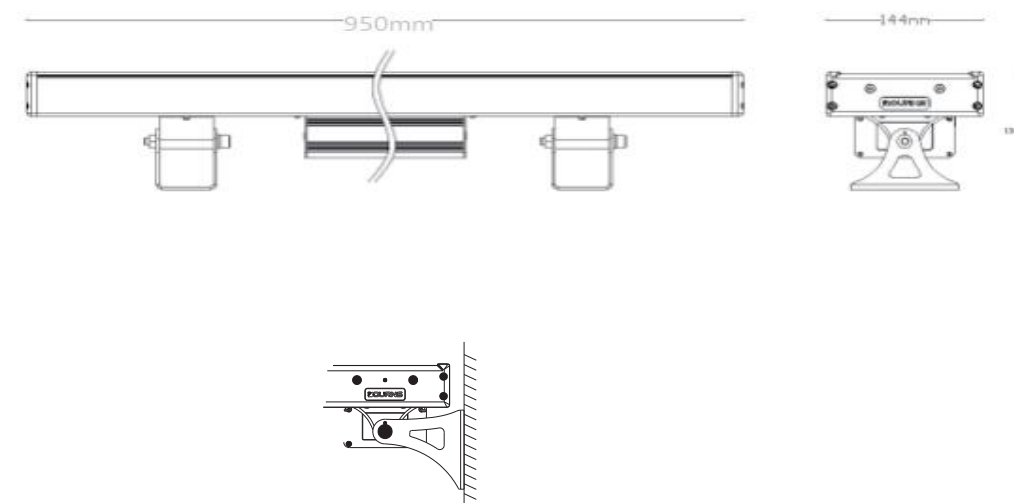




Tech Specifications

Model	BC-Cuca144-W	BC-Cuca144-RGB	BC-Cuca144-RGBW
Led Brand	Epistar /Osram/CREE	Epistar	Epistar
LED QTY	72 SMD	72 SMD	72 SMD
Voltage	DC24V	DC24V	DC24V
Power	Max216W	Max216W	Max216W
Pixel	0	4 pixel	4 pixel
Color Temp	2700k - 6000K	RGB	RGBW
Control	without control	DMX	DMX
Weight	4.7KG	4.7KG	4.7KG
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Bean angle	3°,10°, 15°,30°,45°,60°,10°*60°, 10°*45°, 10°*30°,		
Cover	Glass	Glass	Glass
IP	IP65	IP65	IP65
Operating Temp	-35° ~ 50°	-30° ~ 50°	-30° ~ 50°
Storage Tem	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan/Warranty	50000 hours/3-5 years	50000 hours/3 years	50000 hours/3 years

Dimension



Project

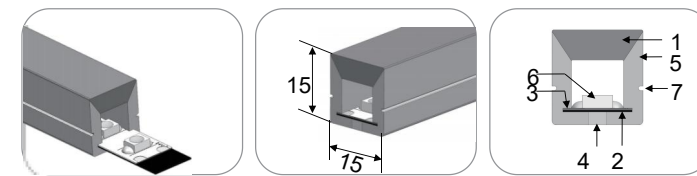




Tech Specifications

Model	BC-Ajo-N-1515-W	BC-Ajo-N-1515-RGB
Dimension	W15mm*H15mm	W15mm*H15mm
LED Source	2835	5050
Led Brand	Epistar	Epistar
LED QTY	120 pcs	120 pcs
Voltage	DC24V	DC24V
Power	14.4W	14.4W
Pixel	0	10 / 12 pixel
Color Temp	3000k - 6000K	RGB
Control	Without control	Automatic Control
Cut Unit	2.5cm	2.5cm
PCB width	10mm	10mm
CRI	>90	N/A
Housing	silica gel	silica gel
IP	IP67	IP67
Operating Temp	-25° ~ 60°	-25° ~ 60°
Warranty	2 years	2 years
Max run lengthh	10M	10M

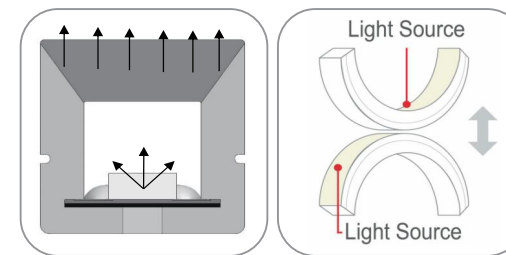
Dimension



- Instruction**
- | | |
|--------------------|-----------------|
| 1 Lighting surface | 5 Cover |
| 2 Base board | 6 LED Chips |
| 3 PCB | 7 Mounting slot |
| 4 Cutting window | |

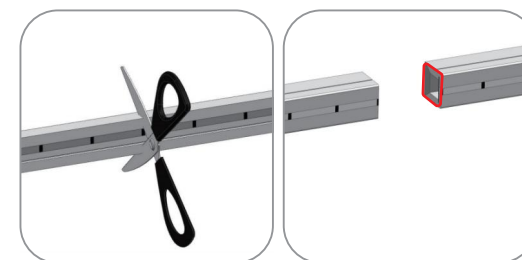


Integrated silicone extrusion one molding technology



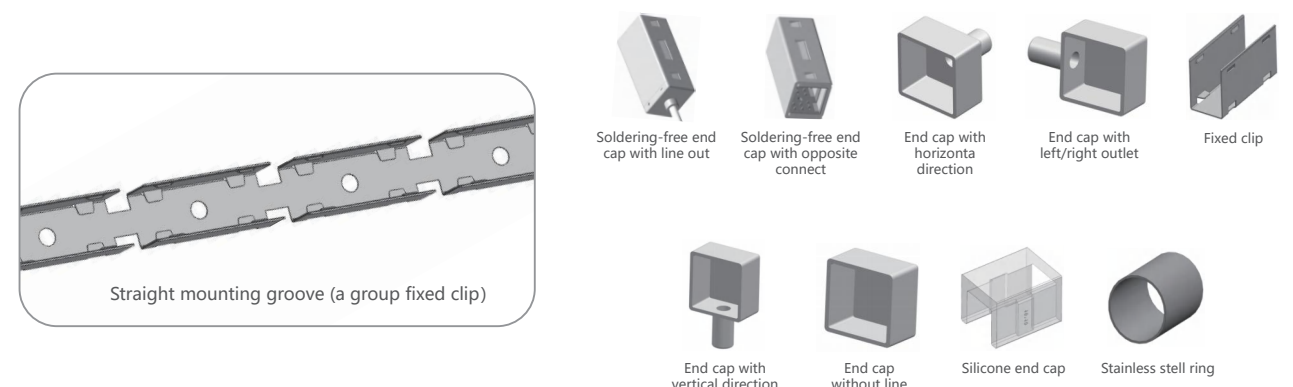
- 1.High luminous efficiency, unique optical light distribution structure, uniform and soft lighting, dot-free and no shadow.
- 2.High light transmittance, food-grade environmental silicone material, with good flexibility and stylish appearance, exquisite and unique.
- 3.IP67, with resistances to saline solutions, acids & alkalis, corrosive gases, fire and UV.
- 4.Top bend and side bend, limitless application.
- 5.Convenient cutting any length with cutting window.
- 6.Adopt integrated silicone extrusion one molding technology to ensure a good product.

Cut unit

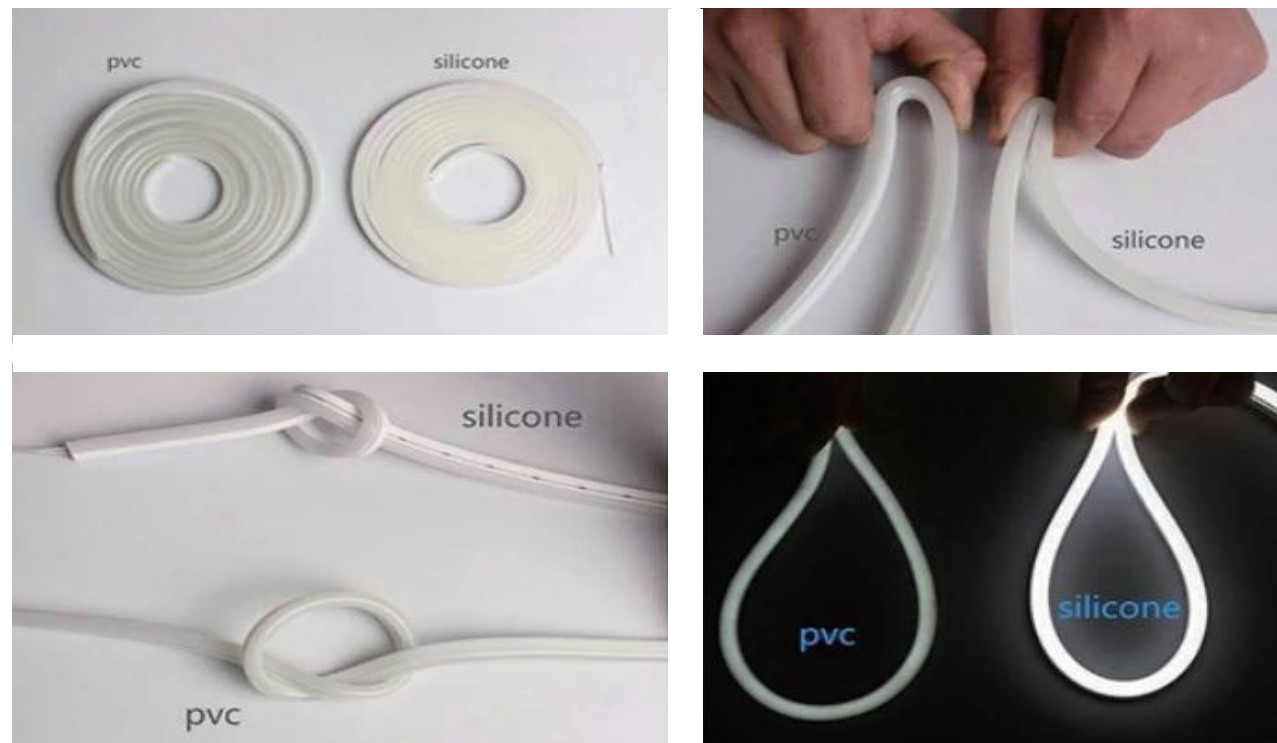


DC12V / DC24V low voltage silicone LED neon light can be cuttable based on customers' requirements.
There are clear cutting marks on the side way.

Accessories



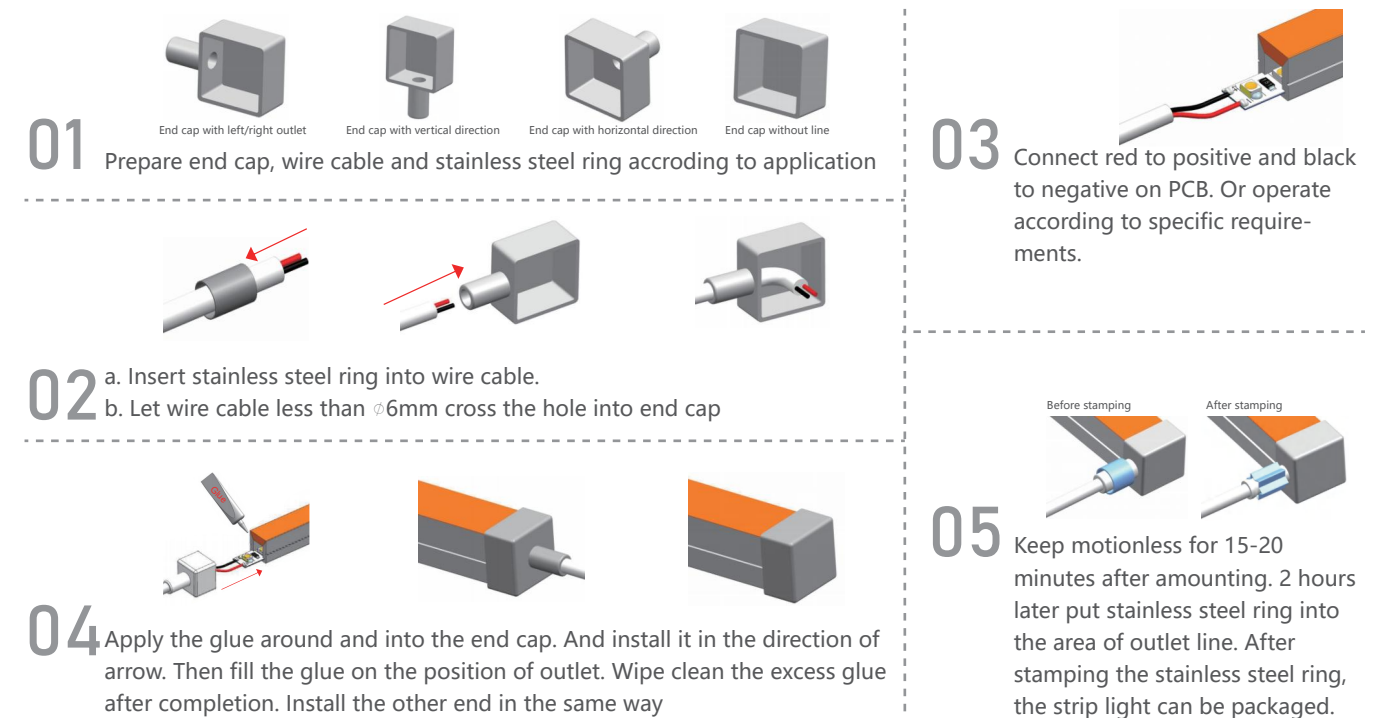
What is different between silicone and PVC



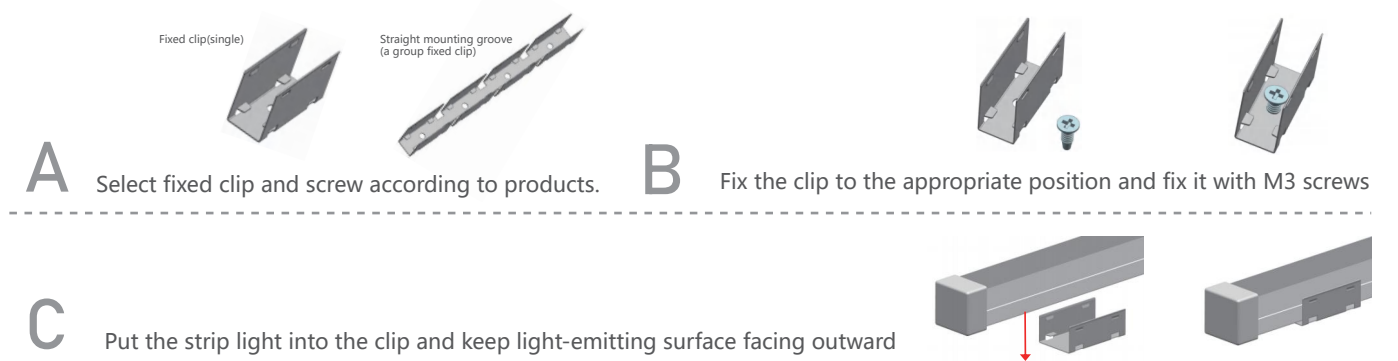
Specifications Comparison

Main parameters	Silicon Flexible led strip	PVC flexible LED strip	Notes
Colloid features in -40°C	No Crack after 30 days	Totally cracked	The low temperature resistant of silicone is superior than pvc or epoxy materials
Colloid features in -180°C	No obvious change after 72 hours	Brown and some melted after 20 minutes	Over 150°C,PVC is easily hydrolyzed,Viscosity becomes weaken and easily seperated
Steadily lighted in seawater for 72 hours	No obvious change	Serious atomization on surface	The waterproff grade of silicone led strip can reach to IP 67,high resistance to acidic alkali and salt properties
Termal conductivity	Good thermal conductivity	No thermal conductivity	PVC and epoxy cannot conduct heat,while silicone has good thermal conductivity

Installation of end cap with line out and without line out



Installation of fixed clip



Attension

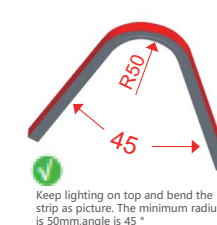
Do not bend strip light at any direction. Please follow instruction as beow when installation.



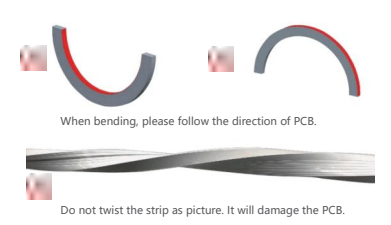
•This product adopts low-voltage DC power supply. It must be used after AC-DC switching power supply for voltage conversion. It is strictly forbidden to connect the product directly with AC mains voltage,otherwise it will deduct the product and may cause safety accident.

•Please read the instructions carefully before using this product,and ask the professional to install it to ensure safe use.

•When packing longer product,please keep more curved angle of inner diameter.



Right Bending



Wrong Bending

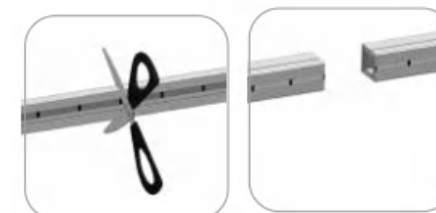


Tech Specifications

Model	BC-Ajo1405-W	BC-Ajo1405-RGB	BC-Ajo1405-RGBW
Dimension	W14mm*H5mm	W14mm*H5mm	W14mm*H5mm
LED Source	2835	5050	5050
Led Brand	Epistar	Epistar	Epistar
LED QTY	112 / 120 / 112 pcs	60pcs or 84 pcs	60pcs or 72 pcs
Voltage	DC24V	DC24V	DC24V
Power	8W (12W, 15W)/M	13W/M, 17W/M	17W/M, 20W/M
Pixel	4 / 8 / 16 pixel	10 / 12 pixel	10 / 12 pixel
Color Temp	3000k - 6000K	RGB	RGBW
Control	DMX	DMX	DMX
Cut Unit	25cm/12.5cm/6.25cm	10cm / 8.33cm	10cm / 8.33cm
PCB width	10mm	12mm	12mm
CRI	>90	N/A	>80
Housing	silica gel	silica gel	silica gel
IP	IP65	IP65	IP65
Operating Temp	-25° ~ 60°	-25° ~ 60°	-25° ~ 60°
Warranty	2 years	2 years	2 years
Max run length	8M	10M	10M

Product features

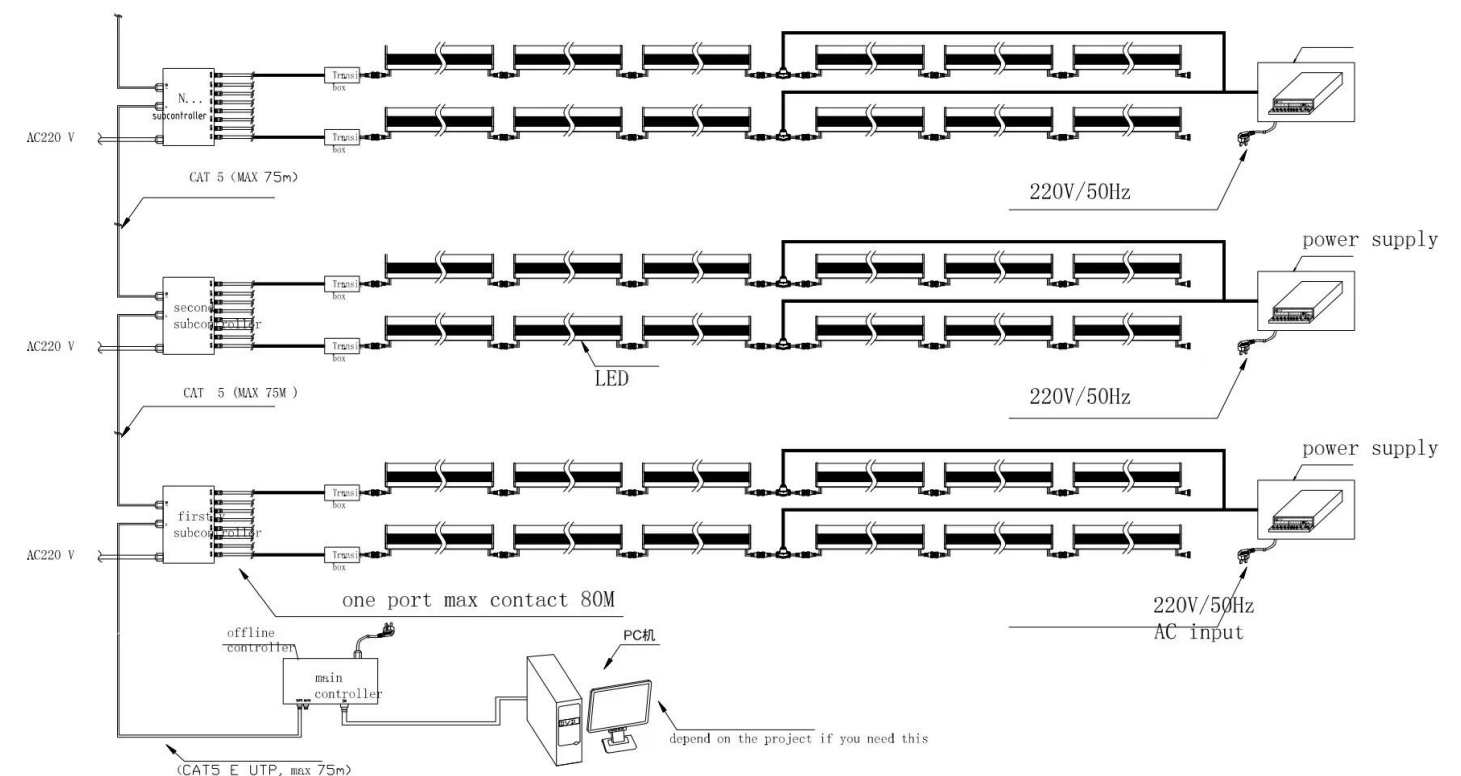
- 1.High luminous efficiency, uniform and soft lighting, dot-free and no shadow .
- 2.High light transmittance, food-grade environmental silicone material, with good flexibility and stylish appearance, exquisite and unique.
- 3.IP65, with resistances to saline solutions, acids & alkalis, corrosive gases, fire and UV. 4.Top bend and side bend, limitless application.
- 5.Convenient cutting any length with cutting window.



DC24V low voltage strip light can be cuttable based on customers' requirements.

There are clear cutting marks on the side way.

Control System Drawing



Project



Installation

1. Select fixed clip and screw according to products.



Fixed clip(single)



Straight mounting groove
(a group fixed clip)



Aluminum profile

2. Fix the clip to the appropriate position and fix it with M3 screws



3. Put the strip light into the clip and keep light-emitting surface facing outward





Tech Specifications

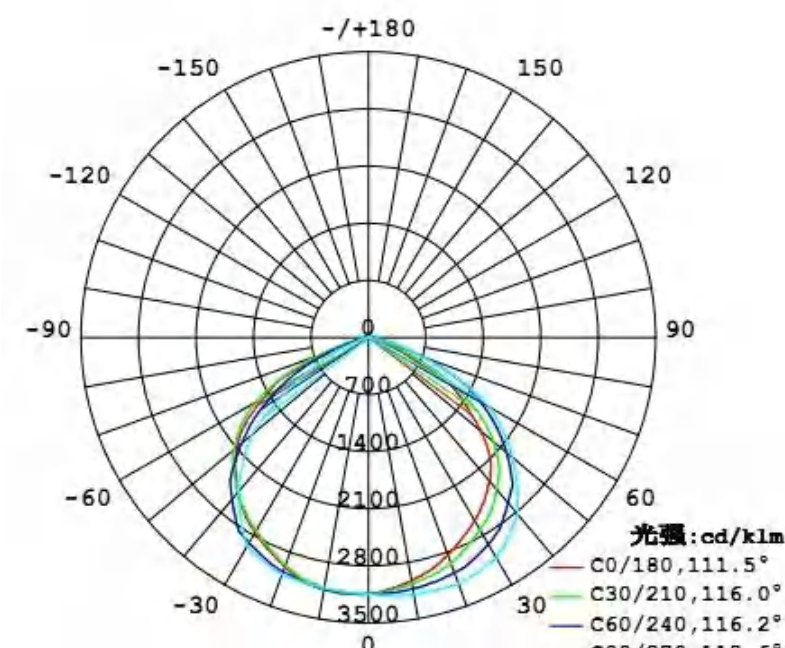
Model	BC-Ocra-A-250	BC-Ocra-A-300-A	BC-Ocra-A-300-B
Led Brand	CREE	CREE	CREE
LED QTY	12 SMD	12 SMD	12 SMD
Voltage	AC220V	AC220V	AC220V
Power	18*2W /24*2W	18*2W	24*2W
Lighting Dimension	Ø130*L250mm	Ø145*L300mm	Ø160*L300mm
Color Temp	3000K,4000K,6000K		
Control	without control	without control	without control
Lumen	110lm/W	110lm/W	110lm/W
Housing	Grey / Aluminum	Grey / Aluminum	Grey / Aluminum
Beam angle	10°*30°, 10°, 15°,30°,45°,60°		
Cover	Glass	Glass	Glass
IP	IP65	IP65	IP65
Operating Temp	-25° ~ 50°	-25° ~ 50°	-20° ~ 50°
Storage Tem	-40° ~ 70°	-40° ~ 70°	-40° ~ 70°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3 years	3 years	3 years

Product Features

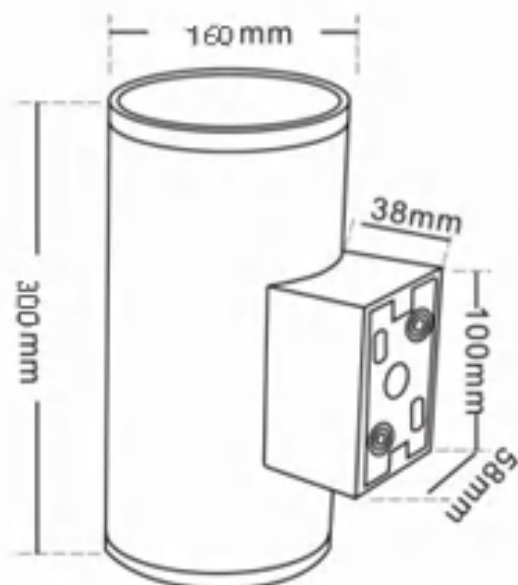
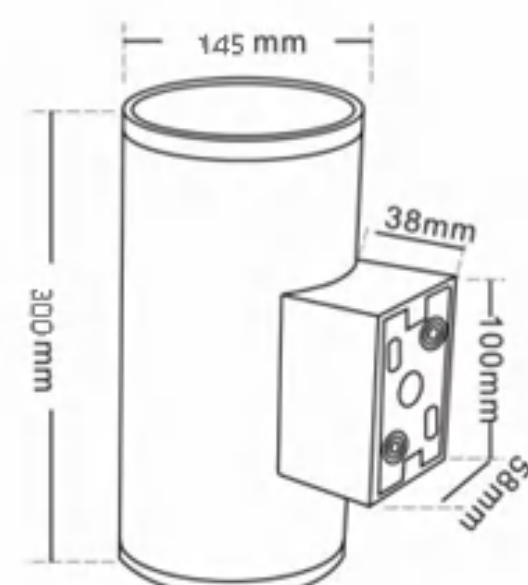
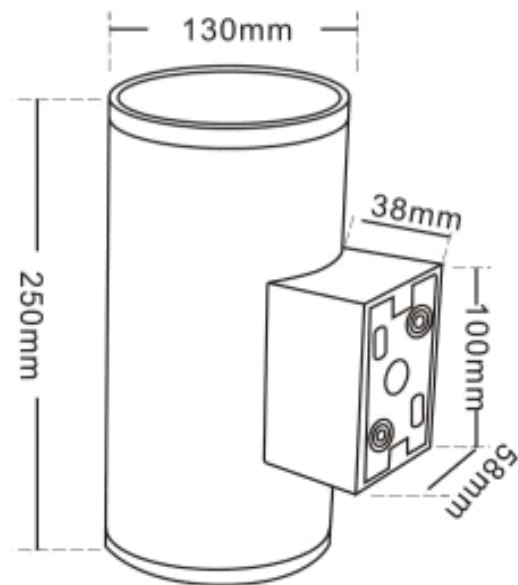
This lamp is coated with outdoor grade oxidation, it is made with imported waterproof silicone, it has better waterproof performance, high-quality impact-resistant 4MM

tempered glass. The lamps use the international brand CREE light source. It utilizes domestic first-line brand drivers and Japanese imported PC material with optical devices that minimize glare and form secondary light distribution, which increases overall light efficiency by 93%.The rubber docking power cables are meant to withstand extreme temperatures and cold well, making them safer and more reliable for docking installations. Featuring beautiful fluid mechanics design, the aesthetics and functionality of the product complement one another perfectly.The external lamp body adopts SUS304 stainless steel screws.

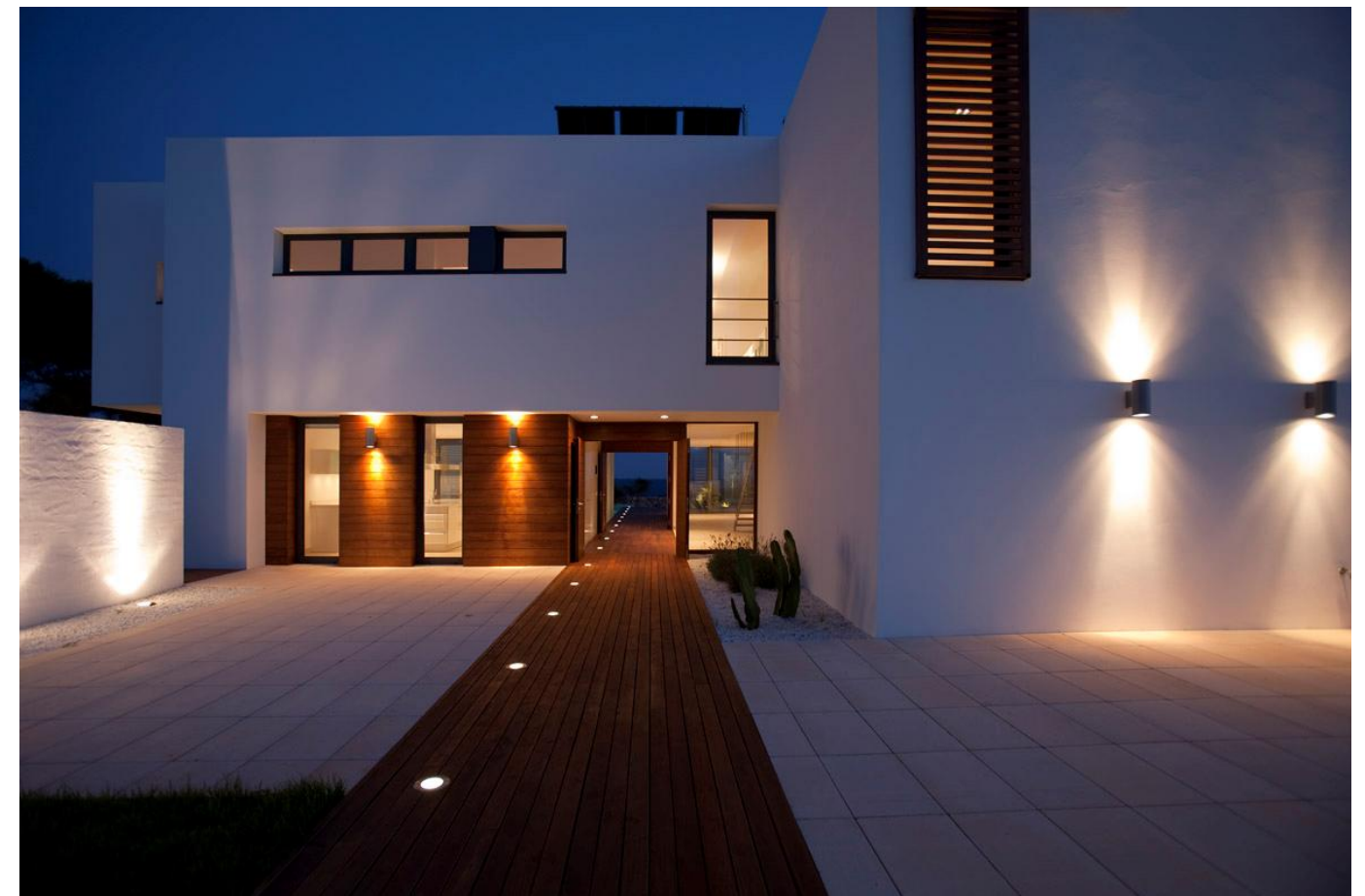
Parameter of Optics

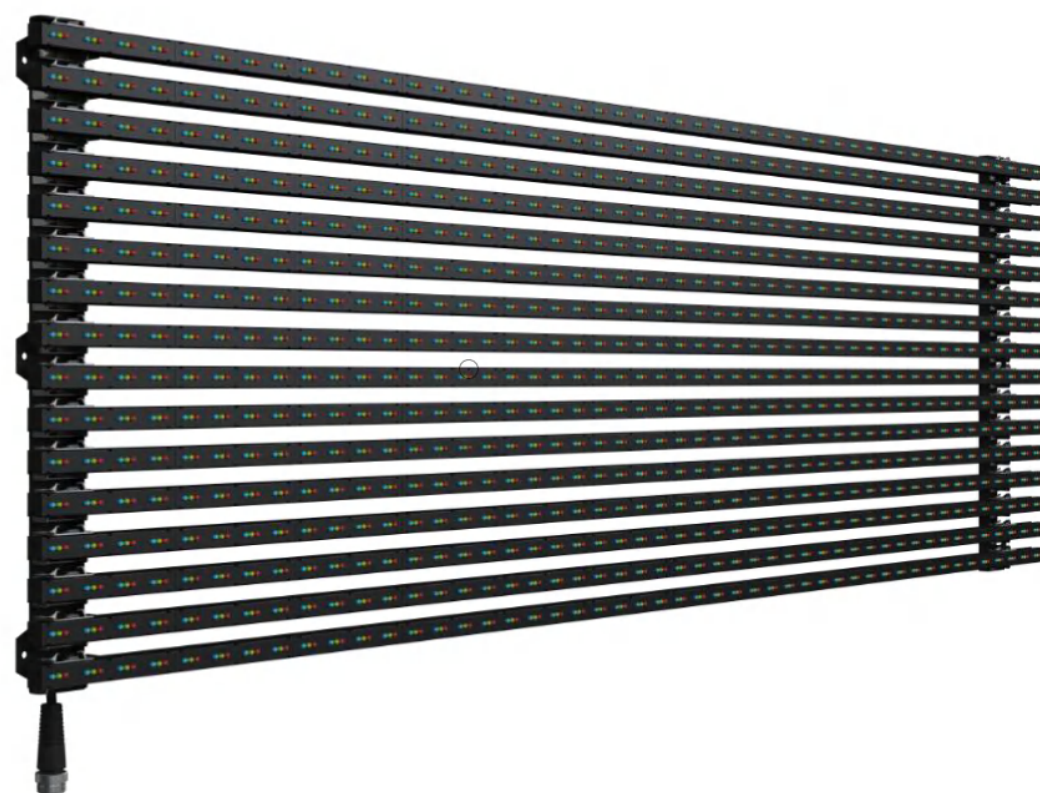


Dimension



Project





Tech Specifications

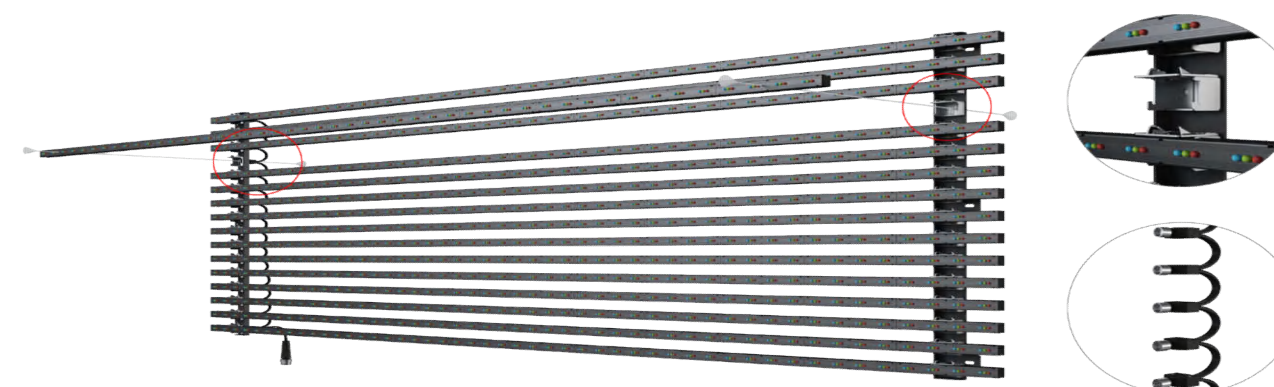
Model	BC-Malla-A-2525	BC-Malla-A-2550
Voltage	DC36-48V	DC36-48V
Max /Average Power	425W/sqm, 145W/sqm	260W/sqm, 90W/sqm
Pitch	25mm(H)*25mm(V)	25mm(H)*50mm(V)
Led Brand	Epistar/Nichia	Epistar/Nichia
Lumen	9000CD/sqm	7200CD/sqm
Light Source	1R1G1B DIP	2R2G2B DIP
Dimension unit	1200mm(L)*500mm(H)	1200mm(L)*800mm(H)
Weight	18.7kg/sqm	10.9KG/sqm
Transparency	>45%	>72%
Resolution	20*48 pixeles	16*48pixeles
Housing	Aluminum	Aluminum
IP	IP67	IP67
Operating Temp	-40° ~ 50°	-40° ~ 550°
Lighting dimension	14mm*1200mm	14mm*1200mm
Viewing Angle	120°(H)/60°(V)	120°(H)/60°(V)
Lifespan /Warranty	50000 hours /3 years	50000 hours /3 years

Product features

1 . LED mesh screen has the advantages of light weight, high brightness, high transparency, and low wind loading, which overcomes many limitations of building walls for traditional LED display. LED mesh screen incorporates the advantages of high resolution, low cost, and high transparency. This LED display combines centralized control with long-distance transmission technology, thereby eliminating the transmission problem caused by interruptions to the LED signal. It has both high quality and high gray levels of conventional LED displays. Light bars are spliced with aluminum alloy, and each group of lights is isolated with RC technology, so that even if a light bar breaks, it cannot affect the others. The screen unit has a high heat dissipation efficiency, requiring no air conditioning, with the ability to be installed on the front or rear of a building facade, it simplifies, makes the application more flexible, and is more efficient. It is the best choice for indoor and outdoor applications.

2. High transparency: The light bar width is less than 14mm, which means it will have a transparency as high as 72%. It can be installed inside or outside of a glass wall without affecting indoor brightness. If installed on the roof, it will reduce wind resistance greatly.

3. Simple maintenance: This LED light bar can be maintained from both the front and rear, and it allows you to select the best maintenance method based on the application site. For example, if installed before the building's facade, you may choose the front maintenance method. also can choose rear maintenance if installed behind glass wall.



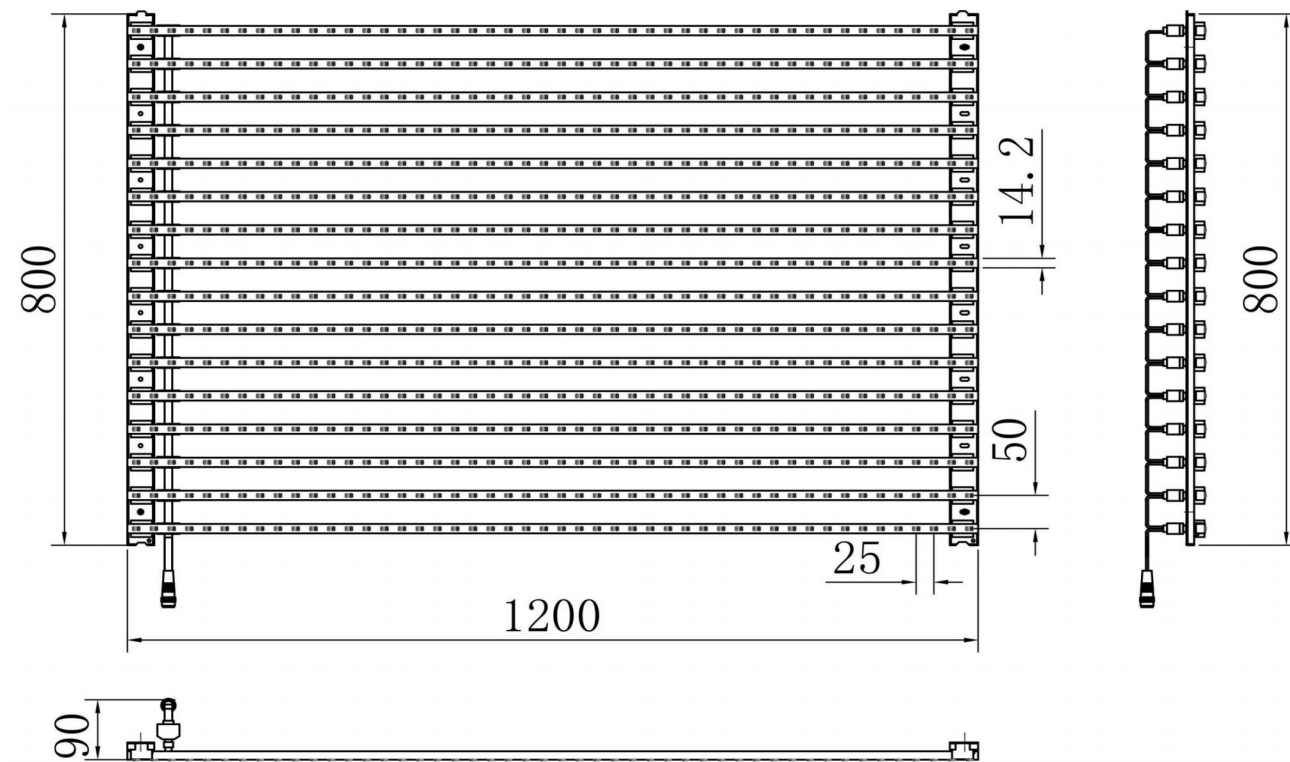
4. This product weighs less than 11 kilograms per square meter, making it easy to transport and easy to control labor costs.

5. Control is simple: By using parallel transmission, each light bar operates independently, without interfering with other light bars, and it can be customized based on any other requirements.

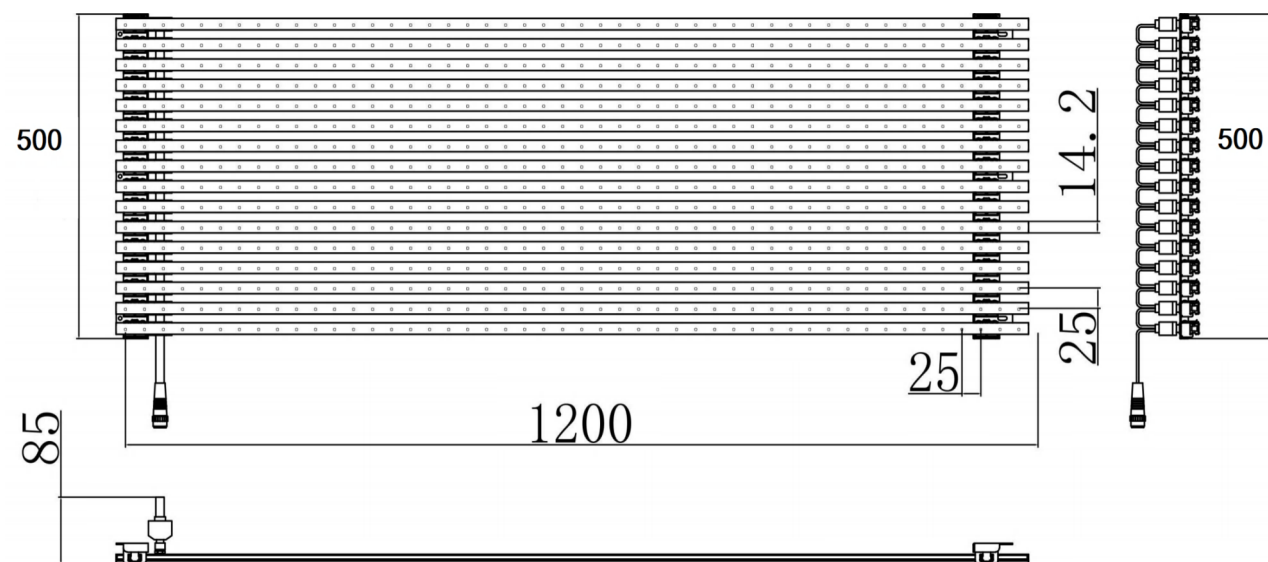
6. High level protection IP67, suitable for both indoor and outdoor applications. The extrusion is aircraft aluminum, the surface is treated with an environmentally-friendly dichromate solution, with its excellent cooling and corrosion-resistance.

7. Brightness up to 7200CD per square meter using 346 RGB DIP tubes, meeting requirements for daytime displays.

Dimension

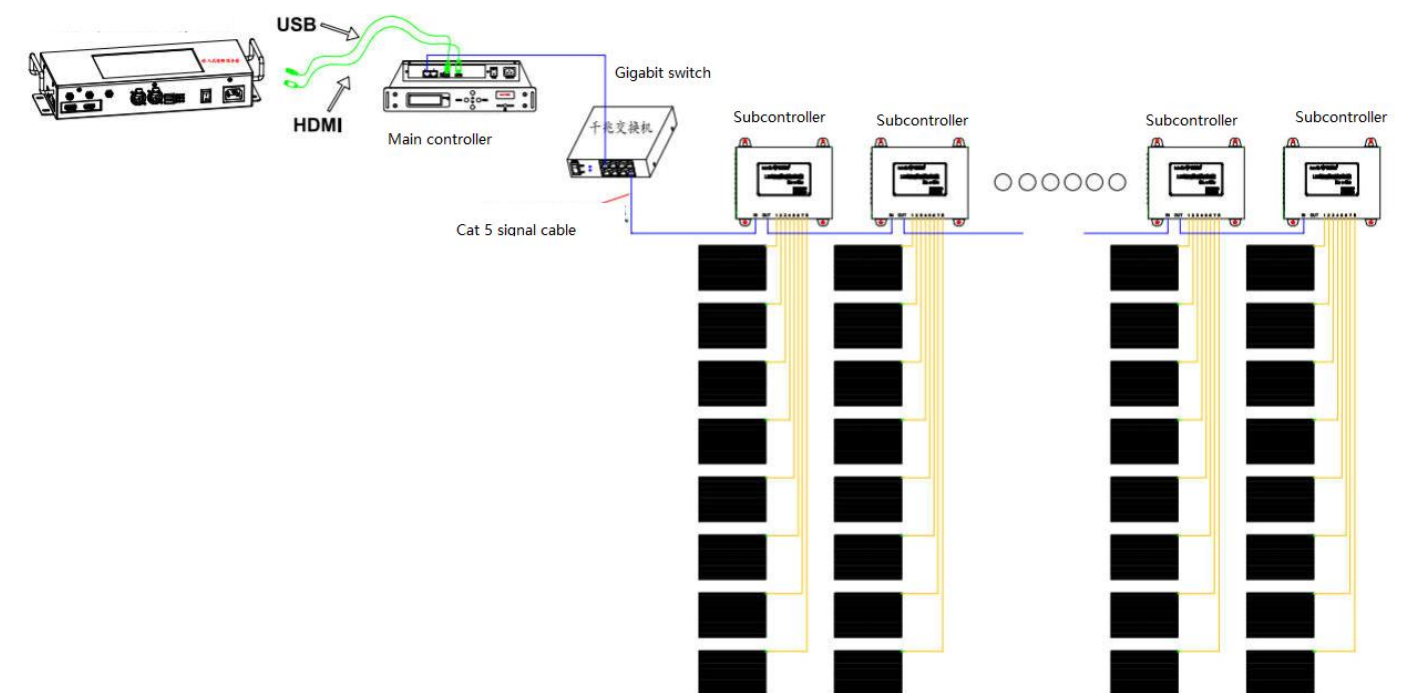


Pitch: 25*50MM

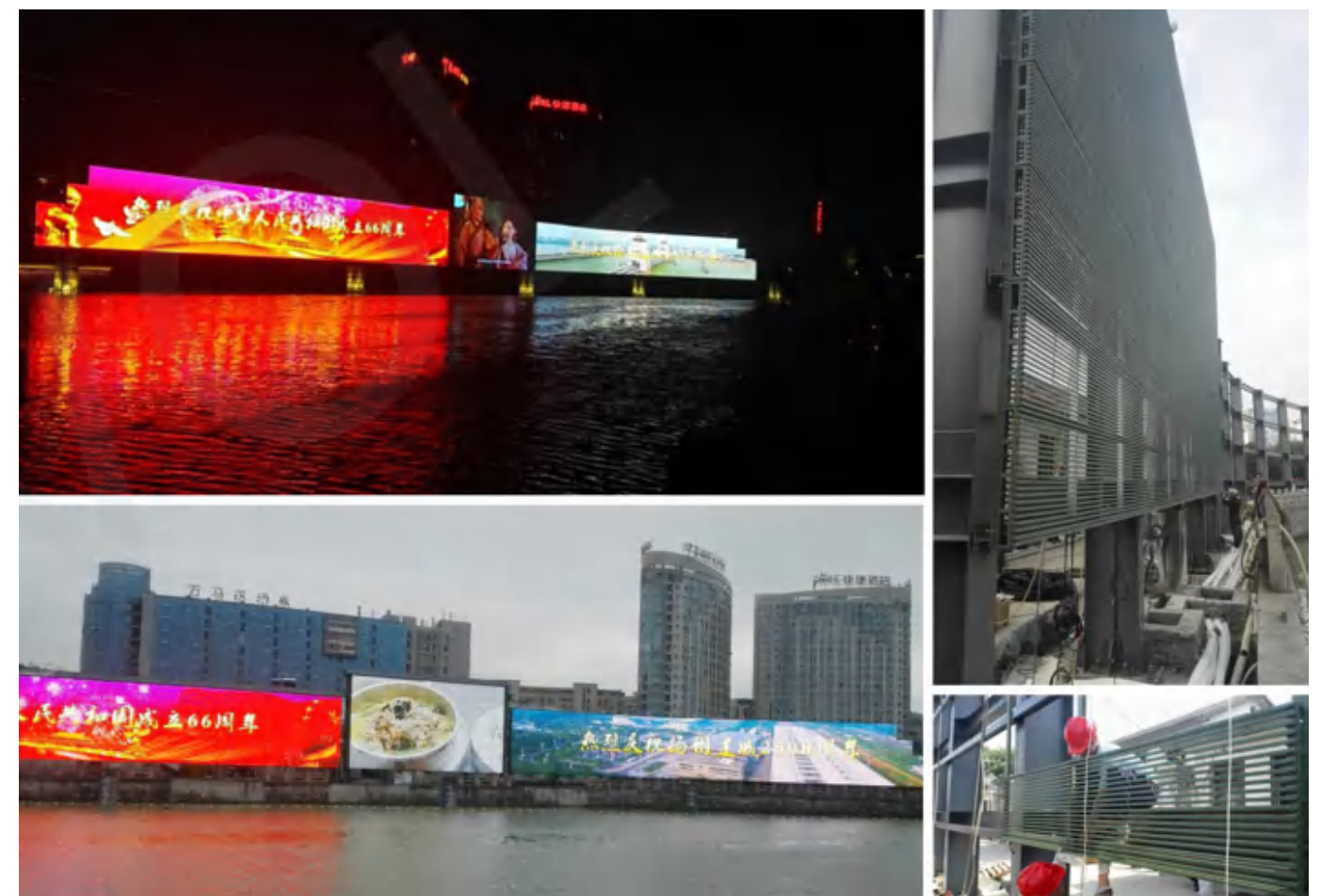


Pitch: 25*25MM

System drawing



Project





Tech Specifications

Model	BC-Nabo380-A	BC-Nabo380-B	BC-Nabo380-C
Voltage	AC85-305V (50/60Hz)	AC85-305V (50/60Hz)	AC85-305V (50/60Hz)
Power	50W / 60W	100W /120W	150W
Led Brand	Epistar	Epistar	Epistar
LED QTY	120 PCS * SMD2835	120 PCS * SMD3030	150 PCS * SMD3030
Lumen	100-110lm/W	100-110lm/W	100-110lm/W
Color Temp	3000k - 6000K	3000k - 6000K	3000k - 6000K
Installation	Lamp pole Installation	Lamp pole Installation	Lamp pole Installation
Surge Protection	4KV	4KV	4KV
Power factor	90	90	90
CRI	>70	>70	>70
Housing	Aluminum	Aluminum	Aluminum
IP	IP65	IP65	IP65
Operating Temp	-25 ~ 55	-25 ~ 55	-25 ~ 55
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3 years	3 years	3 years

Product features

Characteristics and application:

Our lamp is a patented private mold product developed by ourselves, with a high-end atmosphere, beautiful structure, and superior performance. The whole lamp is made of high-purity aluminum, which has good heat dissipation and a strong and durable structure, and effectively prolongs the service life of the lamp. This product is IP65 protection grade, which is easy to install and maintain.

Characteristics of light sources:

Adopt domestic famous brand SMD-2835 light source, which has high brightness, small light attenuation and longer service life.

Power supply characteristics:

Adopt high-stability isolated constant current power supply scheme, it has the characteristics of over temperature protection, wide voltage range, high power factor, high efficiency and good heat dissipation effect.

Heat sink feature:

Adopt high-purity aluminum radiator with high thermal conductivity.The radiator is specially designed, taking aerodynamics and hydromechanics into full consideration,maximizing the heat dissipation area and the efficiency of heat exchange with cold and hot air, so that the heat generated by the light source can be efficiently emitted and the reasonable temperature can be maintained,thus ensuring the stability of the product function and prolonging its service life.

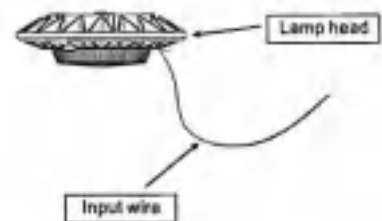
Installation:

Adopt lamp pole installation

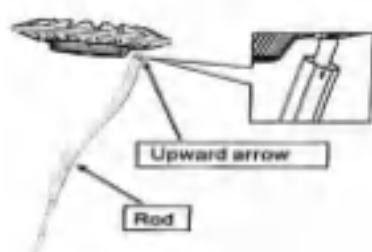
Product application:

This product is widely used for road lighting on one side or both sides of public places such as slow lanes, narrow lanes, residential quarters, tourist attractions, parks, squares, private gardens, courtyard corridors, etc.

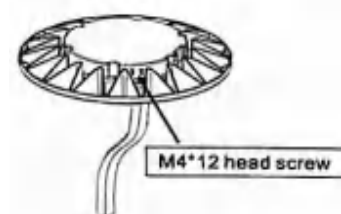
Installation



Step1: Take out lamp head and other the assembly parts



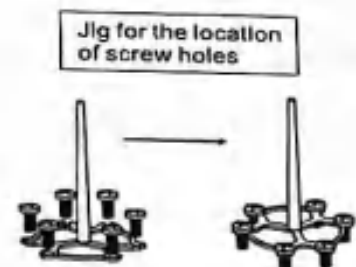
Step2 : Thread the input wire into the rod that is marked with upward arrow



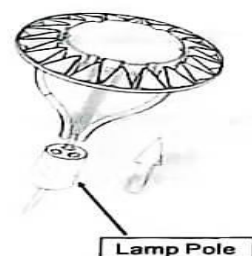
Step3: Fixed the lamp head and rod by 2 pieces M4*12 head screws



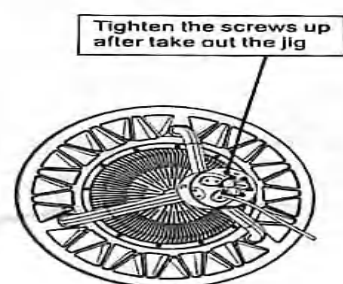
Step 4: Refer to step 3 and use the M4*12 head screws to fix the other two rods to the lamp head.



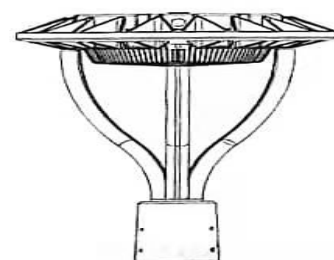
Step 5: Put 6 pieces M4*12 head screws on the ji that is designed for the inside screw holes of the lamp pole.



Step 6;Put 3 rods into the lamp pole accordingly



step 7; Put the screw jig align with the screw holes in lamp pole, fix all screws by tool, then take out the jig and tighten the screws up.



Step 8: Finish the assemblage.

☆ Blackout before installation. Don't install it with electricity on.

☆ This product is widely used for road lighting on one side or both sides of public places such as slow lanes, narrow lanes, residential quarters, tourist attractions, parks, squares, private gardens, courtyard corridors, etc.

☆ It Install as shown in the installation steps. You can install it at the height you need according to the optical version or the conventional version.

☆ Connect the wire. It's 0.75mm² triple-core, brown is firing line, blue is zero line, yellow green is ground line.

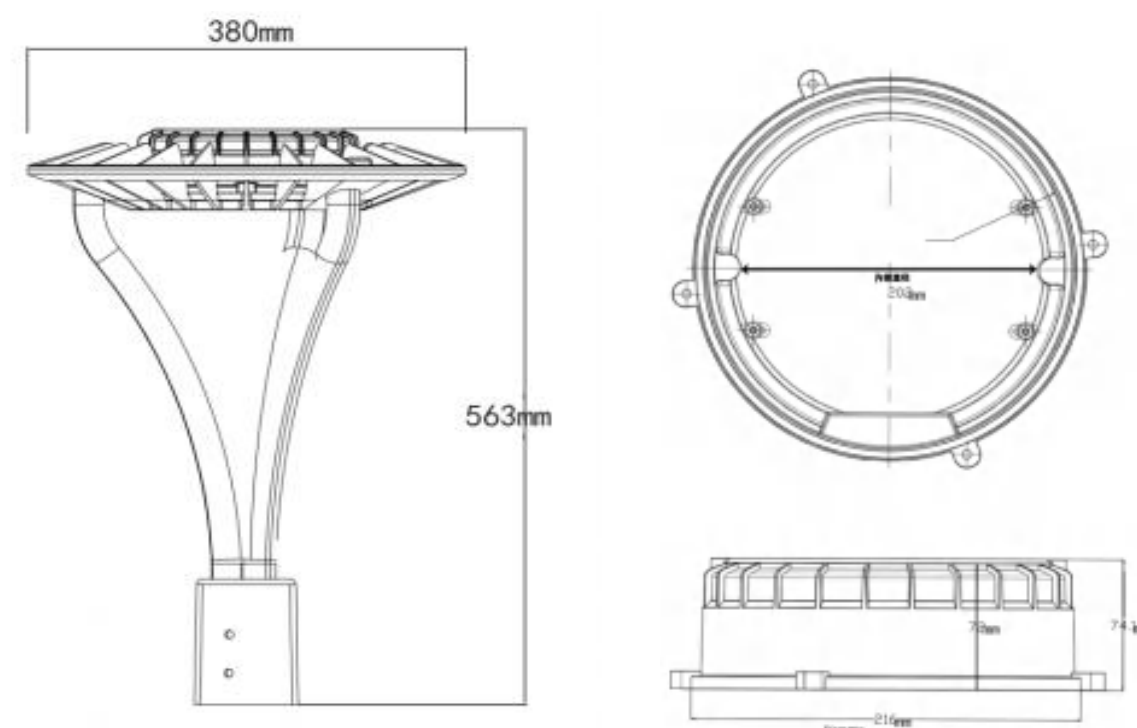
☆ Don't try to install the damaged product.

☆ Don't install the lamp in the inclosed place in order to good heat dissipation effect. ☆ Make sure the wire connection is good and safe to avoid electric leakage after installing the lamp.

☆ Waterproof measure must be taken when connecting the driver.

☆ Don't violate the law of fire controll when using the lamp.

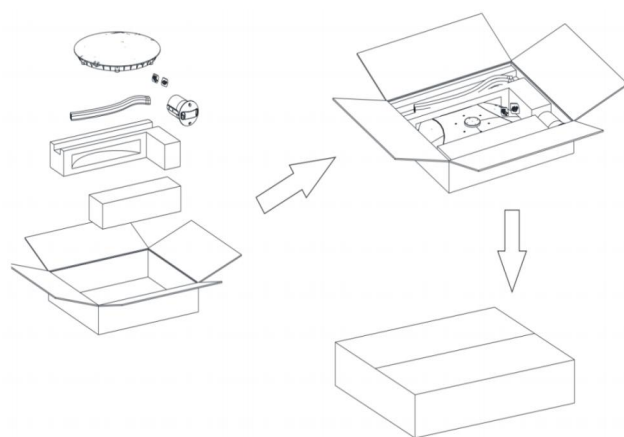
Dimension



Installation Instructions

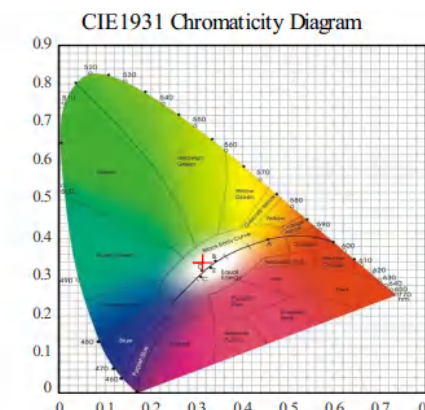
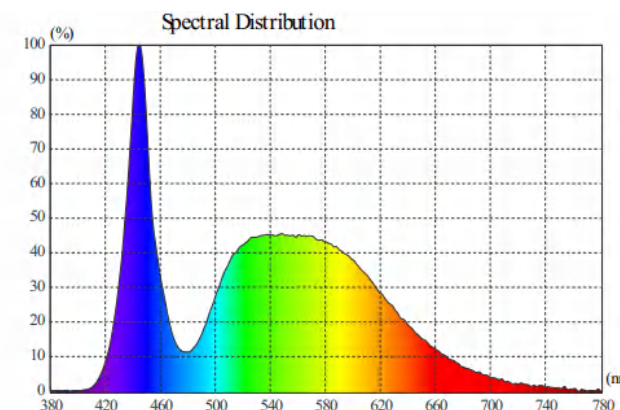
- 1.The working voltage of the product is AC85V-305V 50/60Hz.Do not exceed the working voltage range.
- 2.The glass of lights and lanterns is a fragile accessory. Please handle it with care when handling and storing, and do not put it under heavy pressure.
- 3.Please install and use the products according to the instructions of this specification, and the installation height can be adjusted according to the specific use scenarios and needs.
- 4.Users can choose the regular version or the light sensor version according to the actual needs. The light sensor and lamps are designed separately, which is simple, convenient and plug and play.
- 5.When installing lamps and lanterns, the wiring must be tightly sealed to prevent the risk of leakage and short circuit of water.Do not electrify during wiring.
- 6.When external power lines are connected,corresponding waterproof and leakage prevention measures must be taken.
- 7.It shall not violate any fire regulations when used the lamp.
- 8.Please find professional electrician for installation. The cable should be 0.75-1mm² three-core cable ,the brown wire is " L" wire,the blue wire is "N"wire, and the yellow-green wire is the "PE".

Packaging

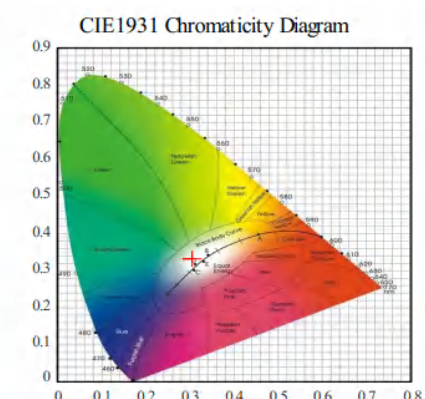
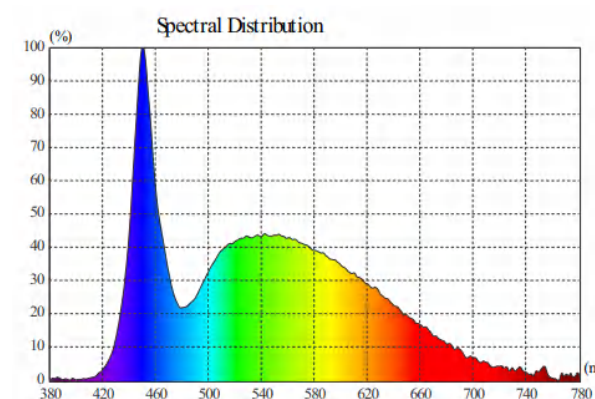


Packaging dimension: 55X46X14cm

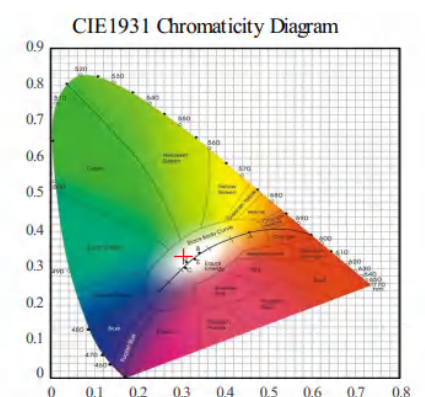
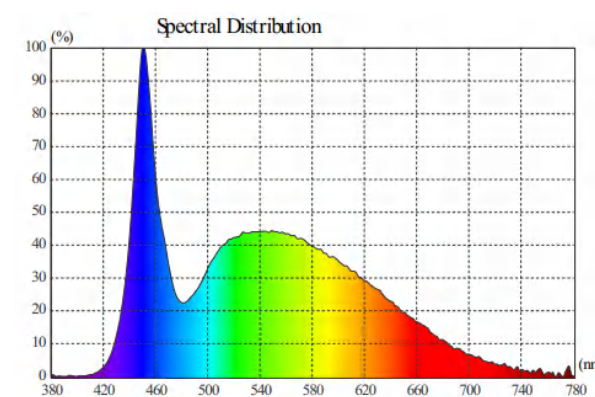
Parameters of Optics



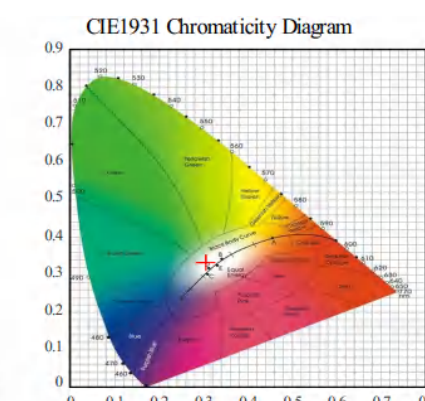
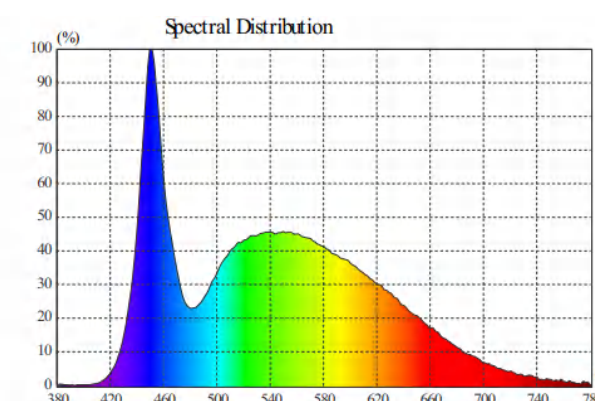
3C-Nabo380-60



BC-Nabo380-100



BC-Nabo380-120



BC-Nabo380-150

Tempture Test

Product Name	position	Temperature	Ambient temperature	Temperature rise
BC-Nabo380	LED junction	79.5 °C	32.2 °C	47.3 °C
	PCB	68.7 °C	32.2 °C	36.5 °C
	housing	66.2 °C	32.2 °C	34.0 °C
	Driver	51.8 °C	32.2 °C	19.6 °C

Project



Information on maintenance and repair

1. Please make sure that the power has been cut off before repairing the lamp.
2. Clean the PC lens of the lamps regularly to keep good light transmittance.
- 3.Regularly clean the dust of the outer shell of the lamp to maintain good heat dissipation performance.
4. Do not clean with water or corrosive solution, but rather with a dry rag.
5. Avoid storing and using lamps in corrosive environment or environment containing harmful substances, such as sulfide, halide and phthalate.
6. When installing and maintaining lamps,do not look directly at the light source.
- 7.Please contact with the dealer and manufacturer if the LED chip or driver has to be replaced. Because the waterproof and dust-proof performance will be effected after dismounting again.
- 8.Product guarantee 3 years, the manufacturer will be responsible for the quality during the period. The damage resulted of irresistible clause will have paid maintenance.

After- Sales Service and quality assurance

Under normal use conditions, quality assurance is based on the correct preservation, installation, use and maintenance of products; Product damage caused by improper installation and use and violation of product operation regulations is not within the scope of this guarantee; For the quality problems during the quality warranty period, the company will choose to repairing, repairing parts or repairing new products during the warranty period; If the warranty period exceeds, materials and labor costs will be properly charged. The product quality problems caused by natural factors and environmental factors are not covered by the warranty.



Sensor Version

Standard Version

Tech Specifications

Model	BC-Nabo448-A	BC-Nabo448-B
Voltage	AC85-305V (50/60Hz)	AC85-305V (50/60Hz)
Power	100W	150W
Led Brand	Epistar	Epistar
LED QTY	150 PCS * SMD2835	300 PCS * SMD2835
Lumen	100-110lm/W	100-110lm/W
Color Temp	3000k - 6000K	3000k - 6000K
Installation	Lamp pole Installation	Lamp pole Installation
Surge Protection	4KV	4KV
Power factor	95	95
CRI	>70	>70
Housing	Aluminum	Aluminum
IP	IP65	IP65
Operating Temp	-25 ~ 55	-25 ~ 55
Lifespan	50000 hours	50000 hours
Warranty	3 -5 years	3-5 years

Product features

Characteristics and application:

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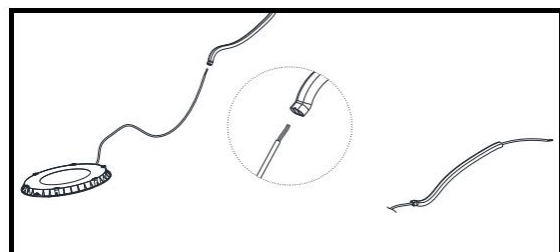
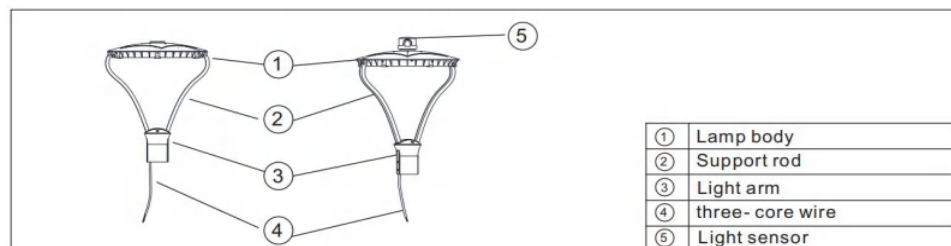
Installation:

Adopt lamp pole installation

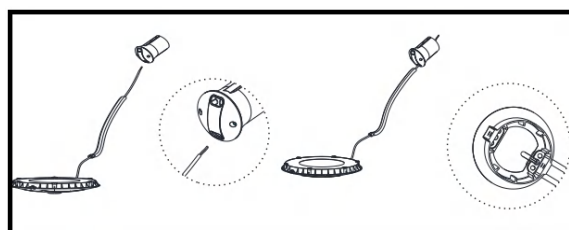
Product application:

This product is widely used for road lighting on one side or both sides of public places such as slow lanes, narrow lanes, residential quarters, tourist attractions, parks, squares, private gardens, courtyard corridors, etc.

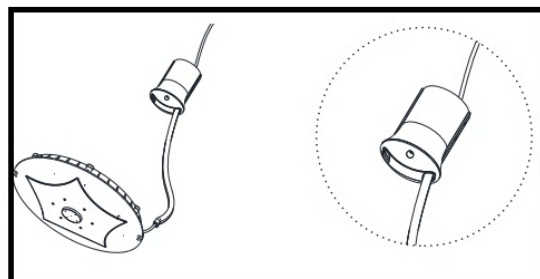
Installation



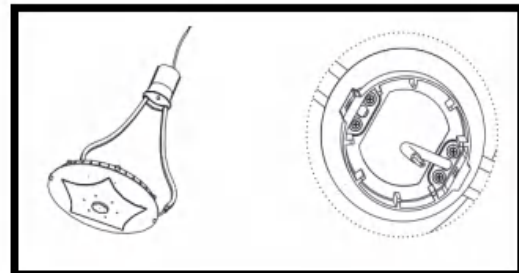
STEP1: Support rod threading.
The exposed three-core wires of lamps and lanterns are penetrated from the bottom end of the support rod with the "U" shaped groove, and then are penetrated from the other end.



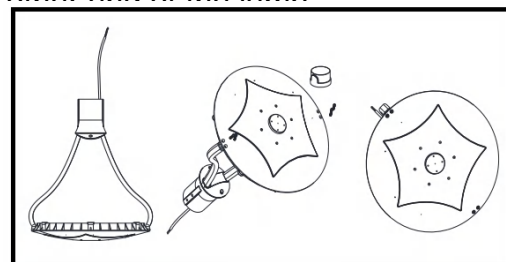
STEP2: Light arm threading.
Insert the three-core wire from the support rod in STEP1 into the corresponding hole of the lamp arm and out from the middle hole on both sides of the lamp arm--as shown above.



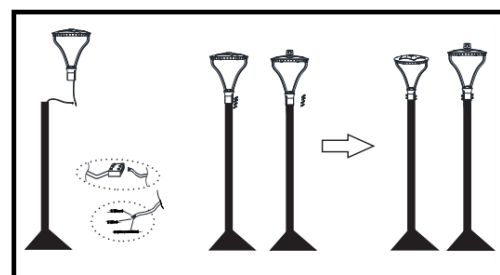
STEP4: The support rod is inserted into the lamp arm hole2.
As in STEP3, insert the other support rod into the corresponding position of the lamp arm and fix it with M6*20mm screw from the other end of the lamp.



STEP3: The support rod is inserted into the lamp arm hole 1.
Insert the outlet end of the bracket rod threaded in the previous step into the corresponding position of the lamp arm.



STEP5: Adjust and fix the other end of the support rod.
Install one end of the two support rods in STEP4 near the lamp body on the positioning mechanism of the lamp body, and fix them on the lamp body with M6*20mm screws, and install the optical sensor on the optical sensor.



STEP6: Wiring and installation the lights.
Install the assembled lamp on the lamp post, as shown in the figure and connect the corresponding wiring. Fix the lamp on the lamp post with M8*35mm Allen screw.

☆ Blackout before installation. Don't install it with electricity on.

☆ This product is widely used for road lighting on one side or both sides of public places such as slow lanes, narrow lanes, residential quarters, tourist attractions, parks, squares, private gardens, courtyard corridors, etc.

☆ It Install as shown in the installation steps. You can install it at the height you need according to the optical version or the conventional version.

☆ Connect the wire. It's 0.75mm² triple-core, brown is firing line, blue is zero line, yellow green is ground line.

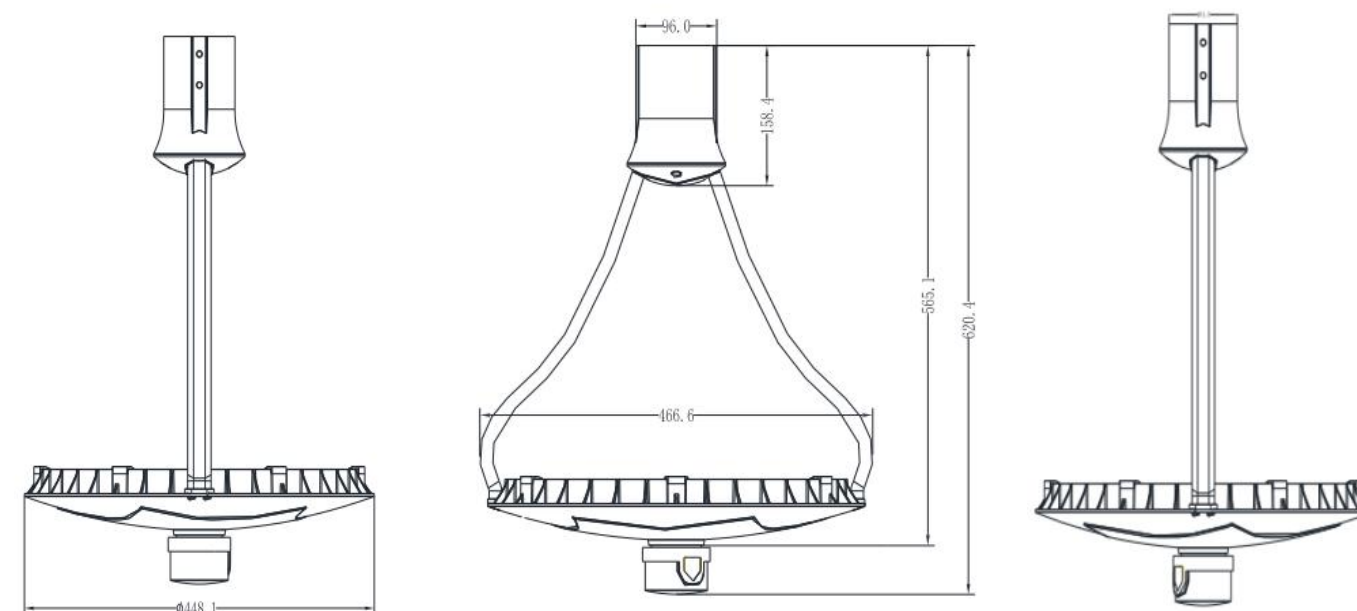
☆ Don't try to install the damaged product.

☆ Don't install the lamp in the inclosed place in order to good heat dissipation effect. ☆ Make sure the wire connection is good and safe to avoid electric leakage after installing the lamp.

☆ Waterproof measure must be taken when connecting the driver.

☆ Don't violate the law of fire controll when using the lamp.

Dimension

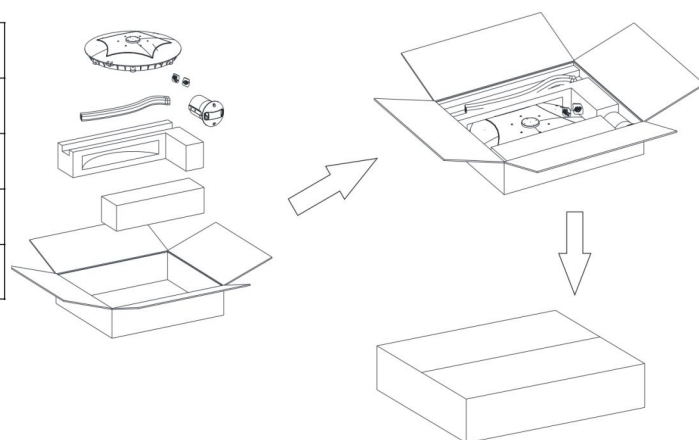


Installation Instructions

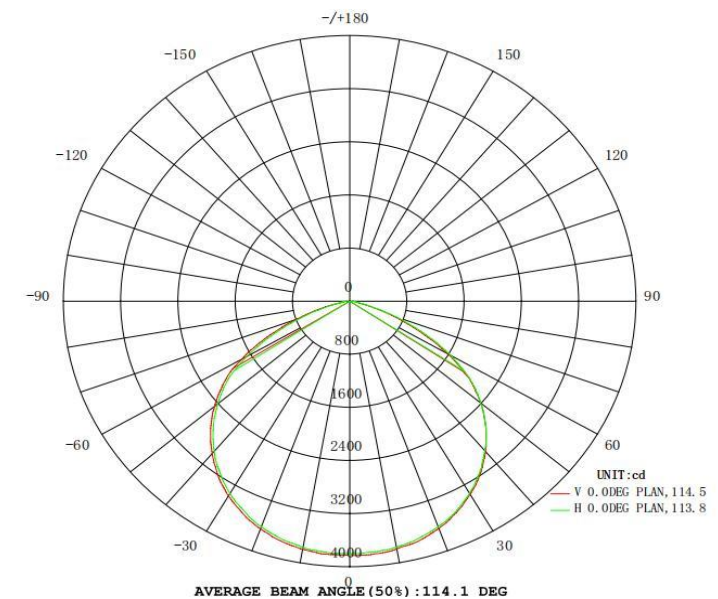
- 1.The working voltage of the product is AC85V-305V 50/60Hz.Do not exceed the working voltage range.
- 2.The glass of lights and lanterns is a fragile accessory. Please handle it with care when handling and storing, and do not put it under heavy pressure.
- 3.Please install and use the products according to the instructions of this specification, and the installation height can be adjusted according to the specific use scenarios and needs.
- 4.Users can choose the regular version or the light sensor version according to the actual needs. The light sensor and lamps are designed separately, which is simple, convenient and plug and play.
- 5.When installing lamps and lanterns, the wiring must be tightly sealed to prevent the risk of leakage and short circuit of water.Do not electrify during wiring.
- 6.When external power lines are connected,corresponding waterproof and leakage prevention measures must be taken.
- 7.It shall not violate any fire regulations when used the lamp.
- 8.Please find professional electrician for installation. The cable should be 0.75-1mm2 three-core cable ,the brown wire is " L" wire,the blue wire is "N"wire, and the yellow-green wire is the "PE".

Packaging

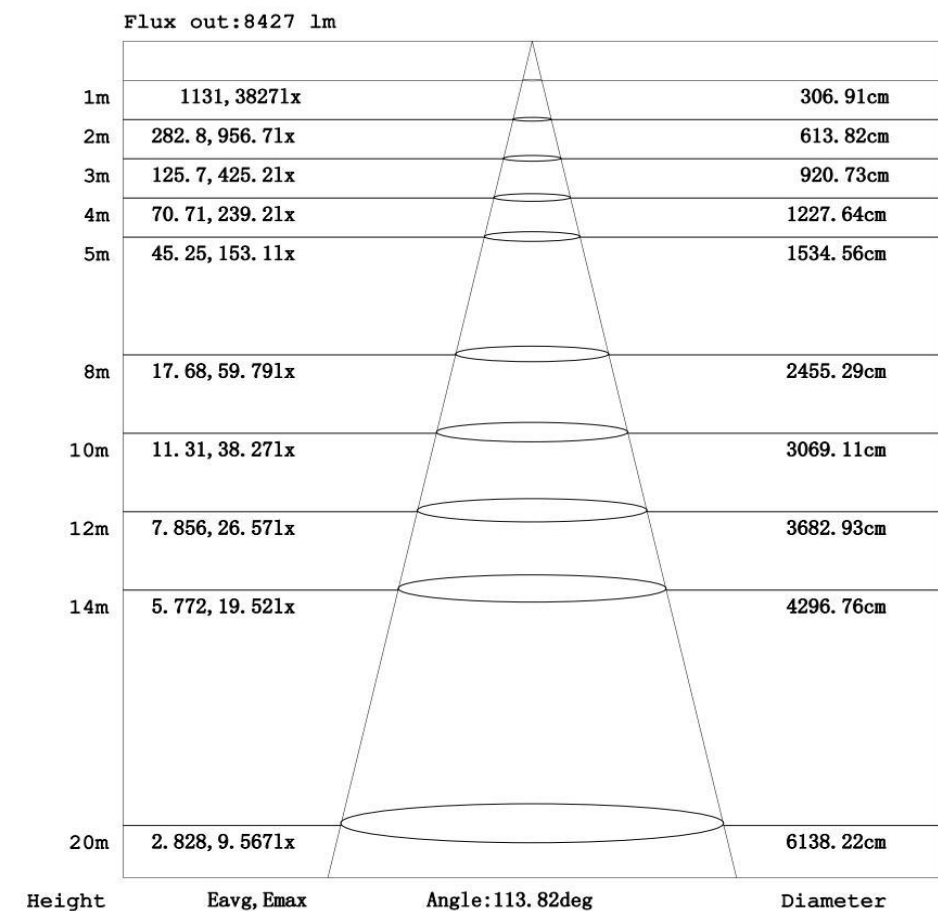
Product Series	BC-Nabo 100/150
Size of Carton	520mm*600mm*135mm
Packing quantity	1 pcs/carton
Net weight	100W:5.50 kg /150W:5.8KG
Gross weight	100W:6.9KG / 150W:7.05KG



Parameters of Optics



AAI Figure

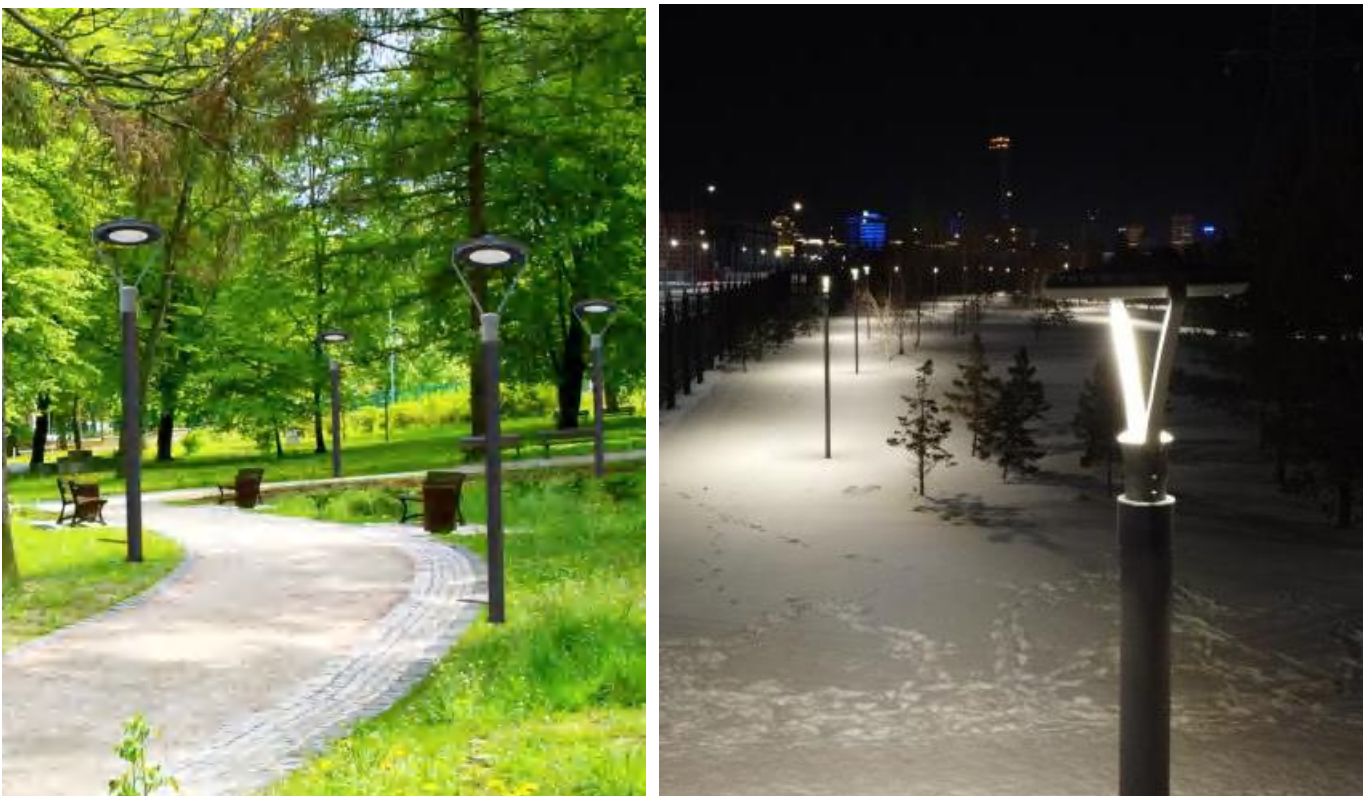


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Tempture Test

Product Name	position	Temperature	Ambient temperature	Temperature rise
BC-Nabo448	LED junction	79.5 ℃	32.2 ℃	47.3 ℃
	PCB	68.7 ℃	32.2 ℃	36.5 ℃
	housing	66.2 ℃	32.2 ℃	34.0 ℃
	Driver	51.8 ℃	32.2 ℃	19.6 ℃

Project



Information on maintenance and repair

1. Please make sure that the power has been cut off before repairing the lamp.
2. Clean the PC lens of the lamps regularly to keep good light transmittance.
- 3.Regularly clean the dust of the outer shell of the lamp to maintain good heat dissipation performance.
4. Do not clean with water or corrosive solution, but rather with a dry rag.
5. Avoid storing and using lamps in corrosive environment or environment containing harmful substances, such as sulfide, halide and phthalate.
6. When installing and maintaining lamps,do not look directly at the light source.
- 7.Please contact with the dealer and manufacturer if the LED chip or driver has to be replaced. Because the waterproof and dust-proof performance will be effected after dismounting again.
- 8.Product guarantee 3 years, the manufacturer will be responsible for the quality during the period. The damage resulted of irresistible clause will have paid maintenance.

After- Sales Service and quality assurance

Under normal use conditions, quality assurance is based on the correct preservation, installation, use and maintenance of products; Product damage caused by improper installation and use and violation of product operation regulations is not within the scope of this guarantee; For the quality problems during the quality warranty period, the company will choose to repairing, repairing parts or repairing new products during the warranty period; If the warranty period exceeds, materials and labor costs will be properly charged. The product quality problems caused by natural factors and environmental factors are not covered by the warranty.



Tech Specifications

Model	BC-COCO-A-50W	BC-COCO-A-100W
Voltage	AC100-265V (50/60Hz)	AC100-265V (50/60Hz)
Power	50W	100W
Led Brand	Epistar	Epistar
LED QTY	100 PCS * SMD2835	200 PCS * SMD2835
Lumen	100-110lm/W	100-110lm/W
Color Temp	3000k - 6000K	3000k - 6000K
Installation	Lamp pole Installation	Lamp pole Installation
Surge Protection	4KV	4KV
Power factor	95	95
CRI	>70	>70
Housing	Aluminum	Aluminum
IP	IP65	IP65
Operating Temp	-25° ~ 55°	-25° ~ 55°
Weight	1.36kg	2.11kg
Dimension of packaging	450*400*525 (mm)	495*360*660(mm)
Lifespan /Warranty	50000 hours /3 years	50000 hours/3 years

Product Feature

Character and Application:

Patented products, easy to install. The lamp body is made of die-casting aluminum alloy, which makes drivers have good heat dissipation, and improves the life of the product. This lamp is suitable for installation at 6-8m height, and The distance is 3~3.5 times the height.

Light source characteristics:

Adopt domestic famous brand SMD light source, which has high brightness, small light attenuation and longer service life.

Power supply characteristics:

Adopt high-stability isolated constant current power supply scheme, it has the characteristics of over-temperature protection, wide voltage range, high power factor, high efficiency and good heat dissipation effect.

Heat sink feature:

Adopt high-purity aluminum radiator with high thermal conductivity. The aluminum radiator is specially designed, which increases the radiating area, enhances the heat exchange efficiency of cold and hot air, which can reduce the temperature of the light source and ensure the stability of the product function, and has a longer service life.

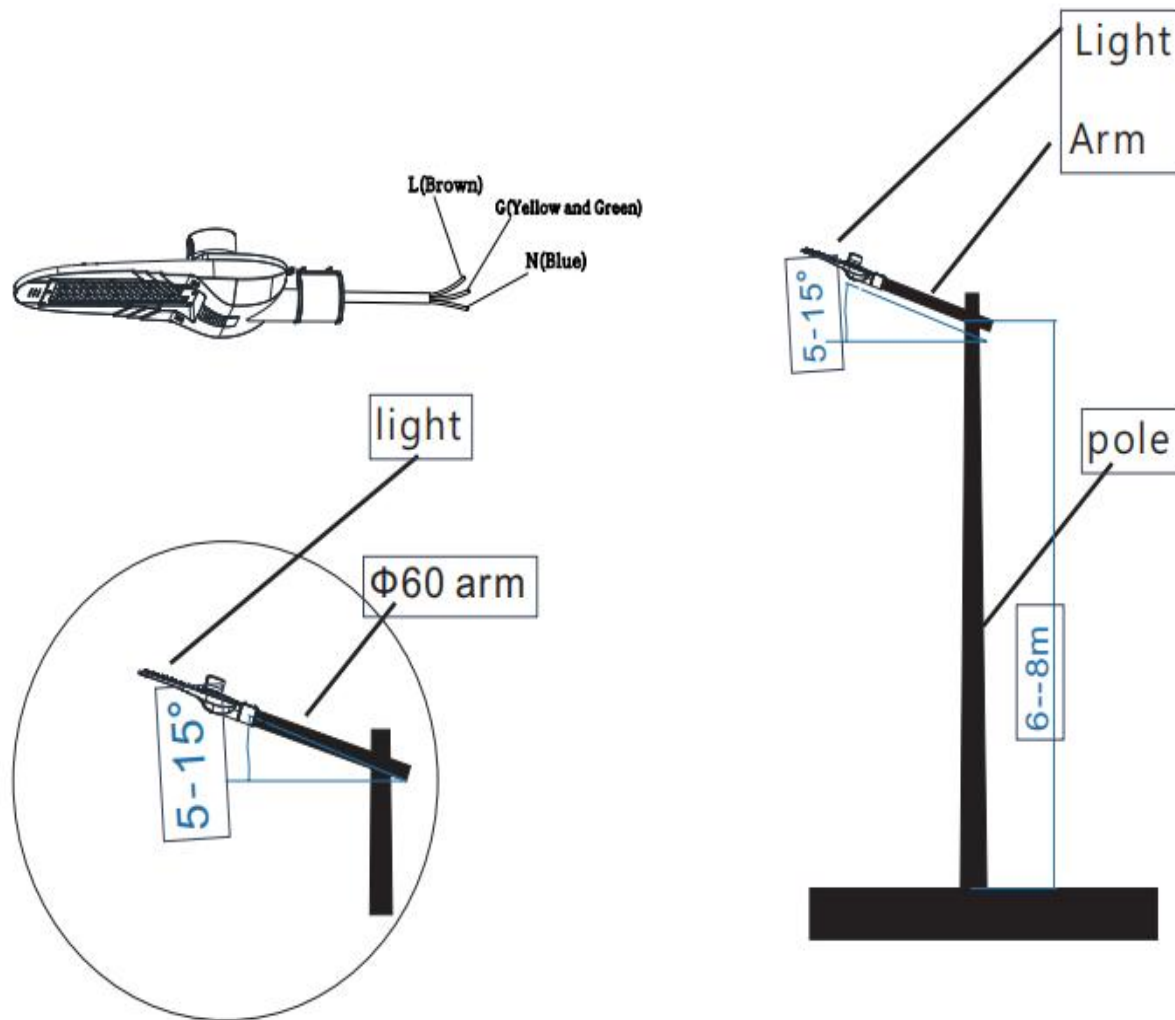
Installation:

Lamp pole installation

Application:

Urban branch road, garden road, industrial park road, etc

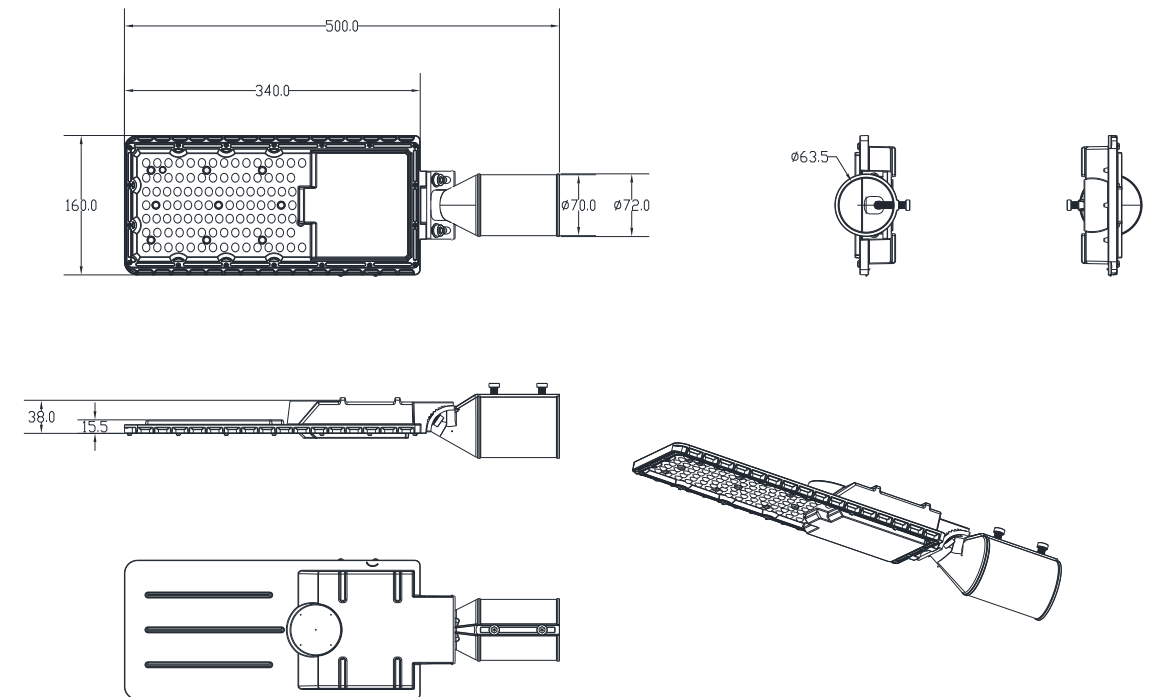
Installation Instructure



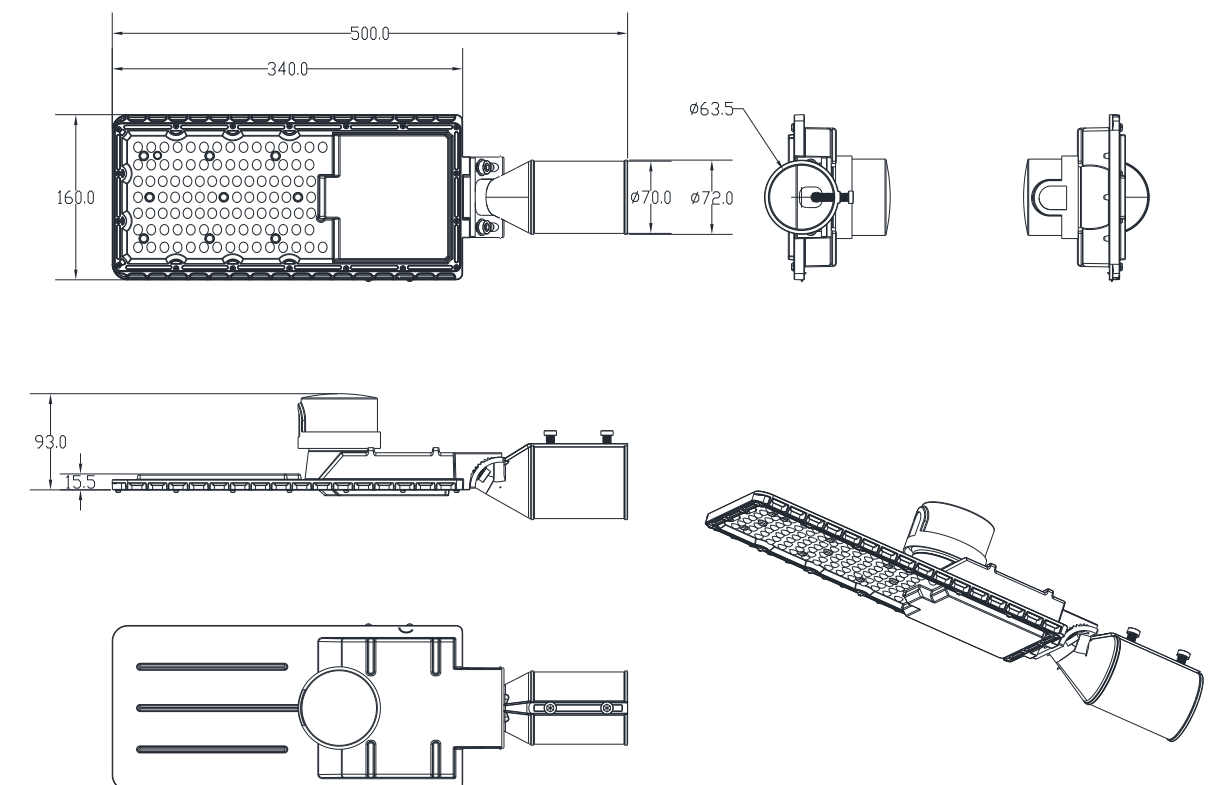
- 1.The working voltage of the product is AC100V-265V 50/60Hz. Do not exceed the working voltage range.
- 2..The luminous surface of the lamp is a PC lens, which is fragile. Please handle it with care during transportation, handling, storage and fixation.
- 3.When installing lamps and lanterns, the wiring and wiring place shall be sealed to prevent electric leakage. Do not electrify during wiring.
- 4.When external power lines are connected, corresponding waterproof and leakage prevention measures must be taken.
- 5.It shall not violate any fire regulations when used the lamp.
- 6.Please employ a professional electrician to install it. The cable should be 0.75-1mm three-core cable ,the brown wire is " L" wire, the blue wire is "N"wire, and the yellow-green wire is the "PE".)

Dimension

I .Standard version model: 500mm*160mm* 38 mm

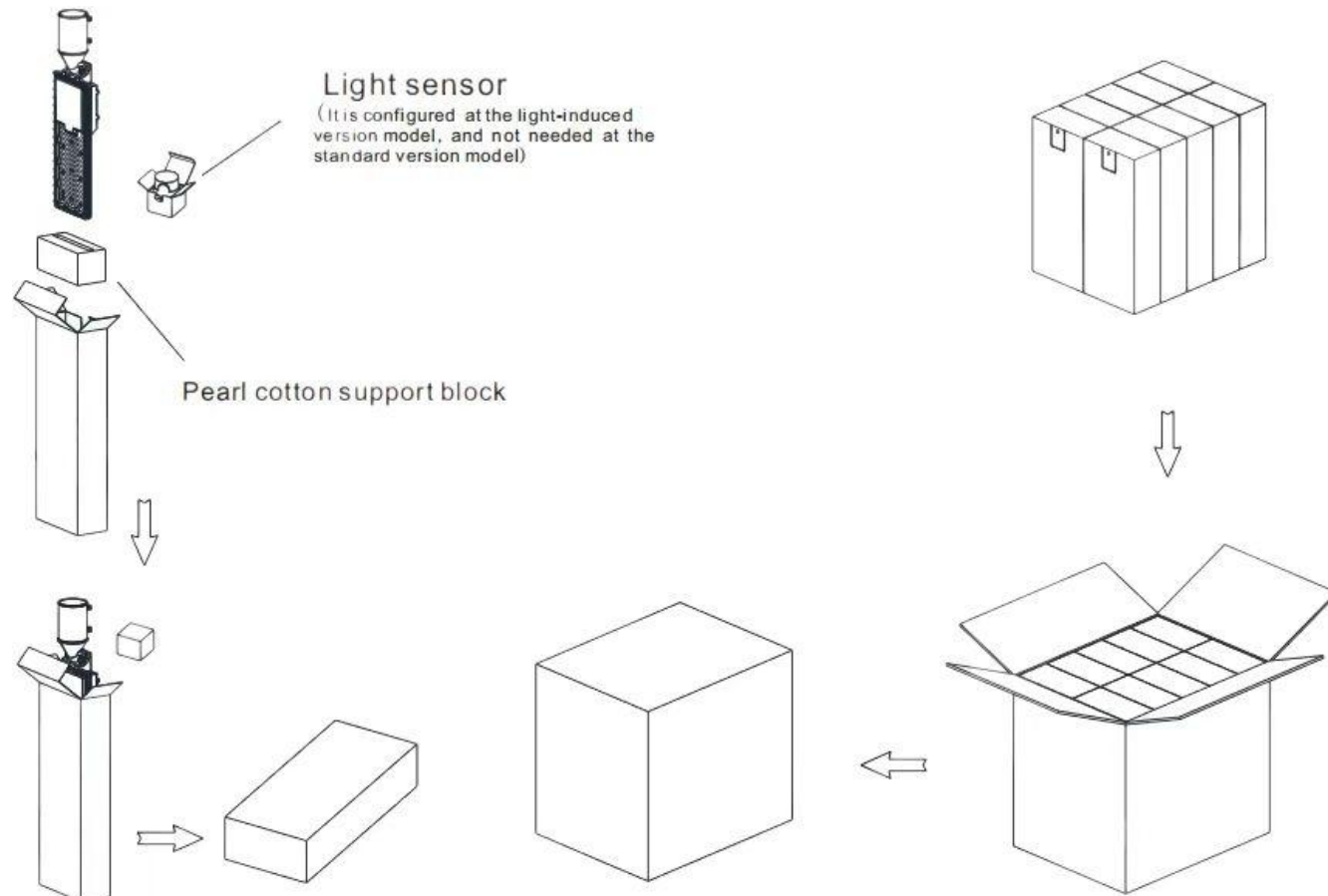


II .Light-induced version model: 500mm*160mm* 93 mm.

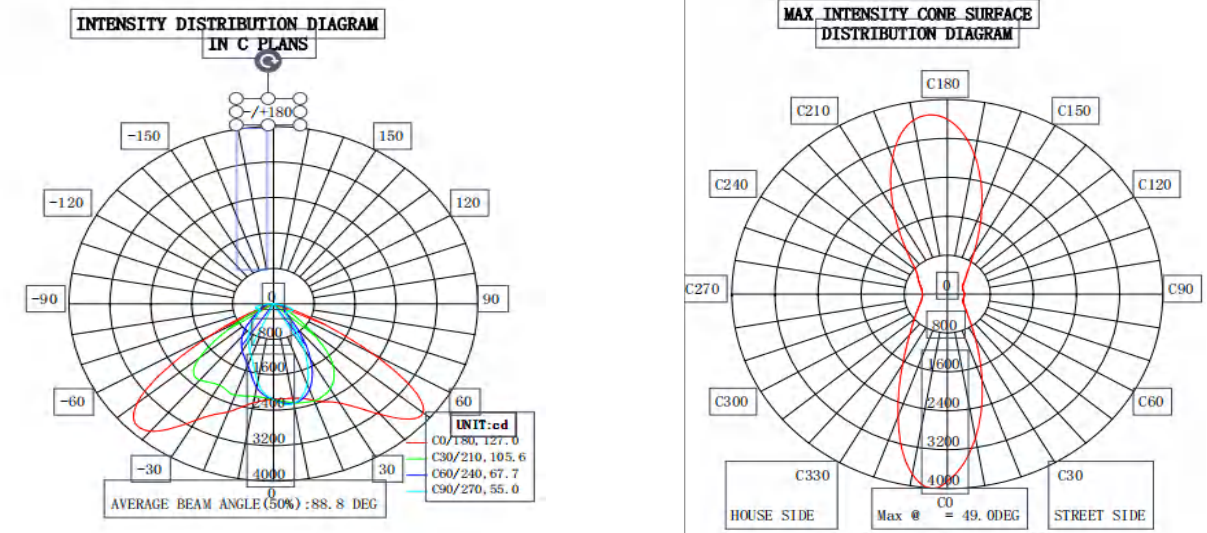


Packaging

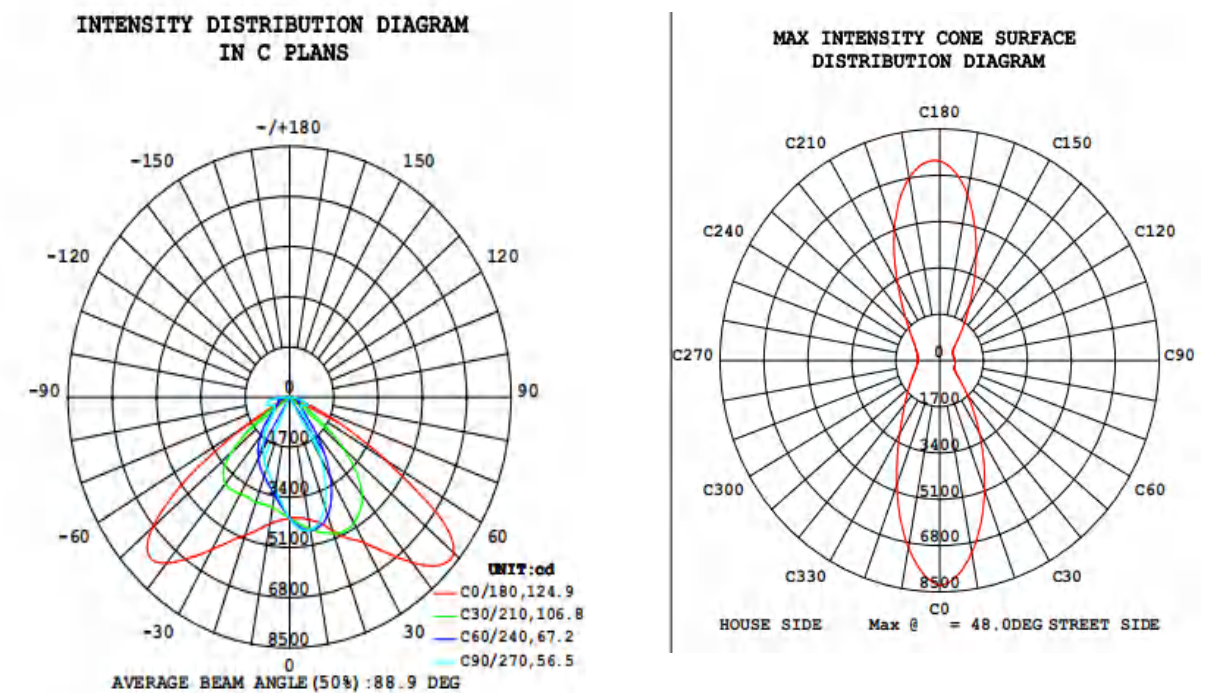
Product Series	BC-COCO-A-50W	BC-COCO-A-100W
Size of color box	190mm*85mm*507mm	240mm*85mm*645mm
Size of Carton	450mm*394mm*525mm	495mm*360mm*660mm
Packing quantity	10 pcs/carton	8 pcs/carton
Net weight	13.60 kg	16.88 kg
Gross weight	16.50 kg	20.00 kg



Parameters of Optics



BC-COCO-A-50W

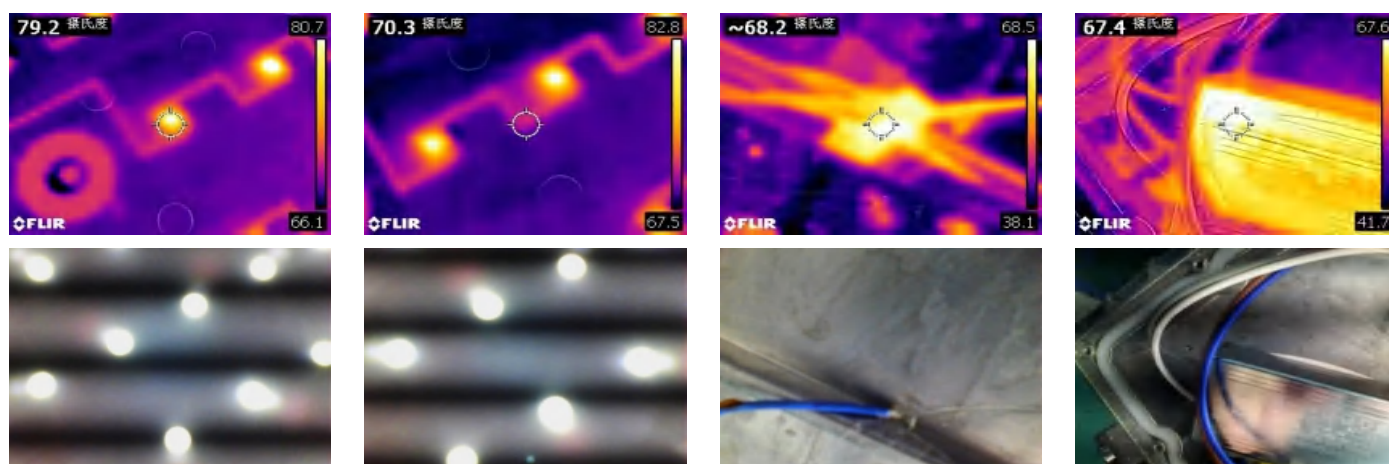


BC-COCO-A-100W

Temperature Test

Product Name	Position	Temperature	Ambient temperature	Temperature rise
BC-COCO-A-50W	LED junction	79.2℃	35.8℃	43.4℃
	PCB	70.3℃	35.8℃	34.5℃
	Housing	68.2℃	35.8℃	32.4℃
	Driver	67.4℃	35.8℃	31.6℃

Product Name	Position	Temperature	Ambient temperature	Temperature rise
BC-COCO-A-100W	LED junction	89.9℃	34.7℃	55.2℃
	PCB	79.4℃	34.7℃	44.7℃
	Housing	77.1℃	34.7℃	42.4℃
	Driver	73.9℃	34.7℃	39.2℃

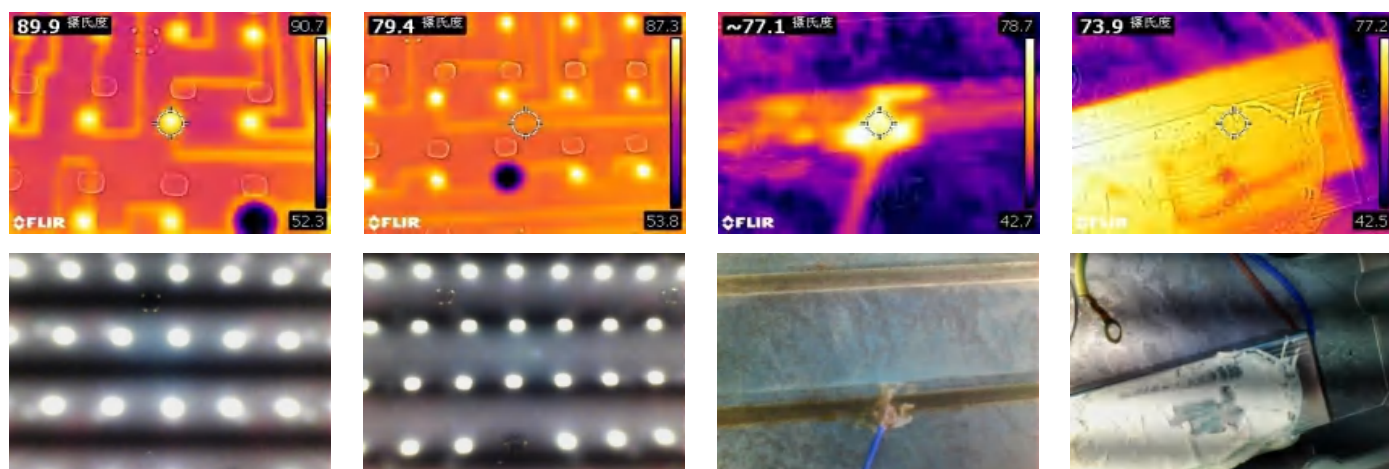


LED junction

PCB

Housing

Driver



Information on maintenance and repair

1. Please make sure that the power has been cut off before repairing the lamp.
2. Clean the PC lens of the lamps regularly to keep good light transmittance.
3. Regularly clean the dust of the outer shell of the lamp to maintain good heat dissipation performance.
4. Do not clean with water or corrosive solution, but rather with a dry rag.
5. Avoid storing and using lamps in corrosive environment or environment containing harmful substances, such as sulfide, halide and phthalate.
6. When installing and maintaining lamps, do not look directly at the light source.
7. Please contact with the dealer and manufacturer if the LED chip or driver has to be replaced. Because the waterproof and dust-proof performance will be effected after dismounting again.
8. Product guarantee 3 years, the manufacturer will be responsible for the quality during the period. The damage resulted of irresistible clause will have paid maintenance.

After-Sales Service and quality assurance

Under normal use conditions, quality assurance is based on the correct preservation, installation, use and maintenance of products; Product damage caused by improper installation and use and violation of product operation regulations is not within the scope of this guarantee; For the quality problems during the quality warranty period, the company will choose to repairing, repairing parts or repairing new products during the warranty period; If the warranty period exceeds, materials and labor costs will be properly charged. The product quality problems caused by natural factors and environmental factors are not covered by the warranty.



Tech Specifications

Model	BC-COCO-B-50W	BC-COCO-B-100W	BC-COCO-B-150W
Voltage	AC100-265V (50/60Hz)	AC100-265V (50/60Hz)	AC100-265V (50/60Hz)
Power	50W	100W	150W
Led Brand	Epistar	Epistar	Epistar
LED QTY	100 PCS * SMD2835	200 PCS * SMD2835	300 PCS * SMD2835
Lumen	100-110lm/W	100-110lm/W	100-110lm/W
Color Temp	3000k - 6000K	3000k - 6000K	3000k - 6000K
Installation	Lamp pole Installation	Lamp pole Installation	Lamp pole Installation
Surge Protection	4KV	4KV	4KV
Power factor	90	90	90
CRI	>70	>70	>70
Housing	Aluminum	Aluminum	Aluminum
IP	IP65	IP65	IP65
Operating Temp	-25° ~ 55°	-25° ~ 55°	-25° ~ 55°
Lifespan	50000 hours	50000 hours	50000 hours
Warranty	3 years	3 years	3 years

Product Feature

Character and Application:

Patenetd products,easy to install. The power supply box is madae of die-casting aluminum alloy, which makes drivers have good heat dissipation,and improves the life of the product.This lamp is suitable for installation at8-12m height.

Light source characteristics

Light source with high brightness and longlife. TheL EDhas LM-80 certification.

Power supply characteristics

DOB Program , without driver

Heat sink feature

The heat sink is made of ADC12 aluminum with the high heat conductivity,The heat dissipationareais large, which guarantees the stability of product function and lengthen life.

Installation

Lamp pole installation

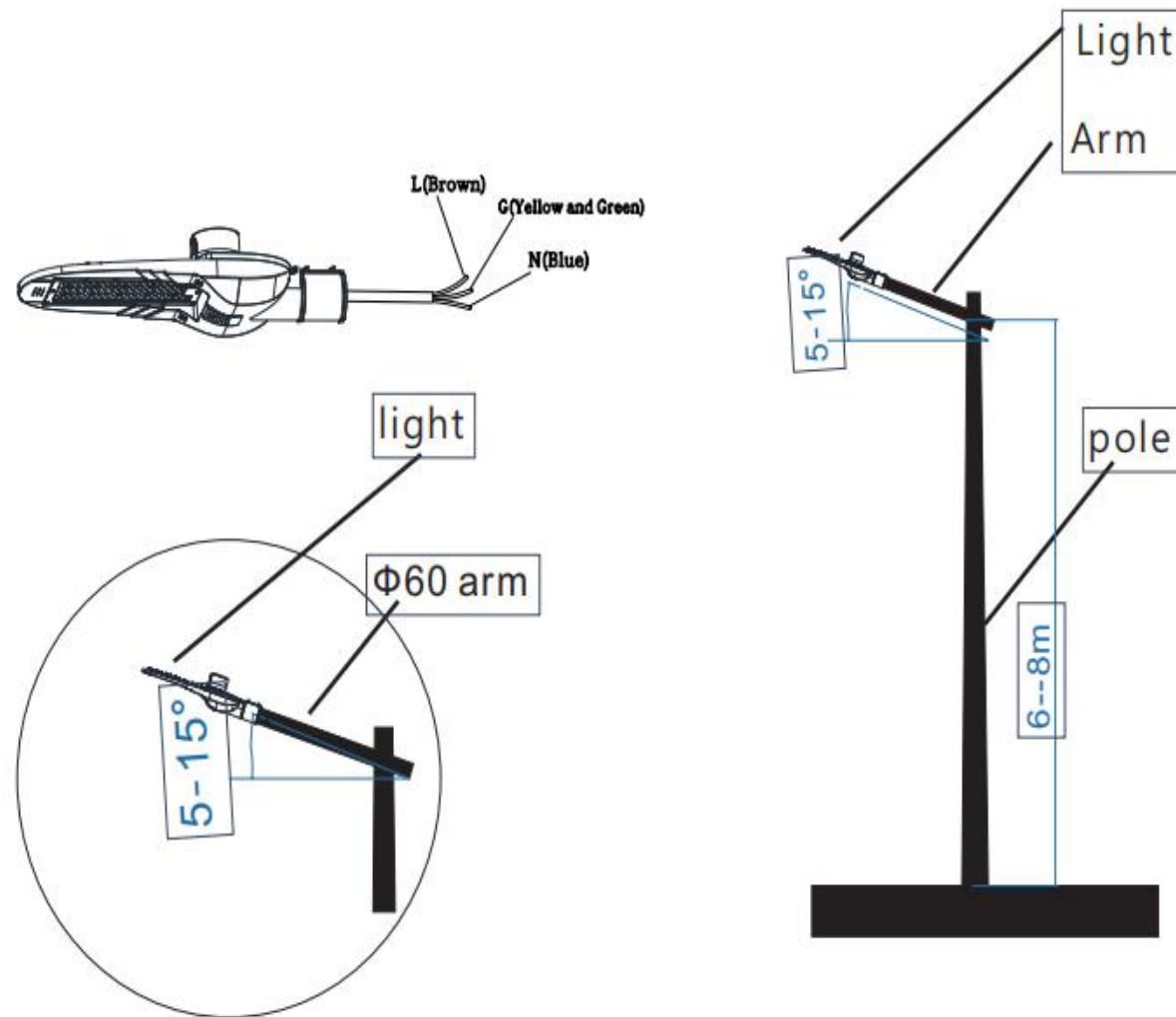
Product application

Suitable for urban and rural road, garden road, industrial park road, etc.

Packaging

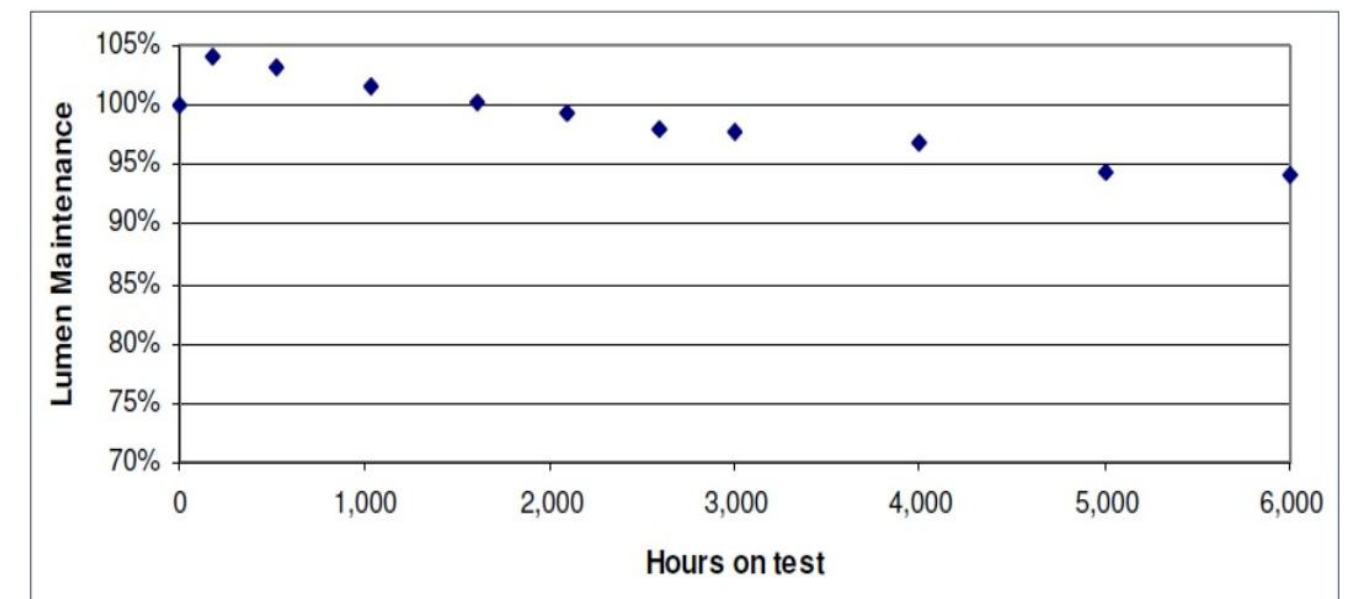
Product Series	BC-COCO-B-50W	BC-COCO-B-100W	BC-COCO-B-150W
Carton Size	38*16*7cm	50.5*20.5*8.3cm	60*26*8.3cm
Gross Weight	0.9kg	1.6kg	2.5kg
Net Weight	1.2kg	2kg	3kg

Installation Instructure



1. Power supply voltage: AC 85-265V/180-240V .
2. The diameter of pole arm is 50~60mm.
3. Connect the right wire according the color of the wire.
4. Please find professional electrician for installation. The cable of 0.75-1mm² three-core cable ,the brownis" L" wire, the blue is "N"wire, and the yellow green line is the "PE".
5. The joint of the the wires is treated to be water proof.
6. Take the light and let the arm of pole into the hole of street light ,the beam angle is 5~15°.
7. Fix the street lights with two boltof M6X16mm.
8. The cover o fthe light is made of glass, and the glass is fragile, Please pay attention to gently take the light to release the pressure while transportation,handle,storage,fix.

Diagram of continue operating for 6000H

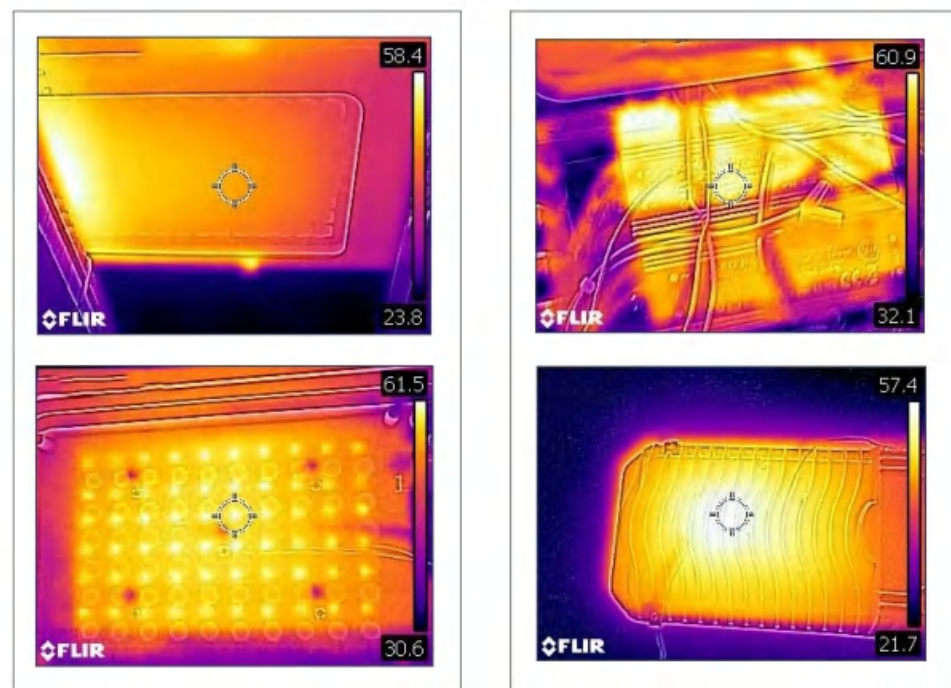


Attentions

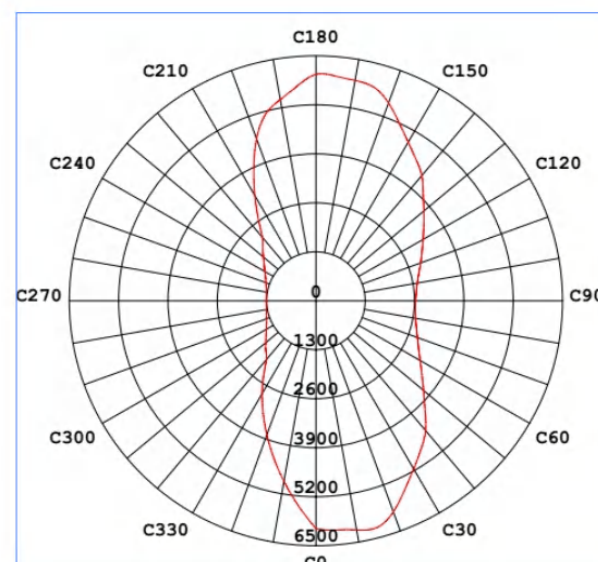
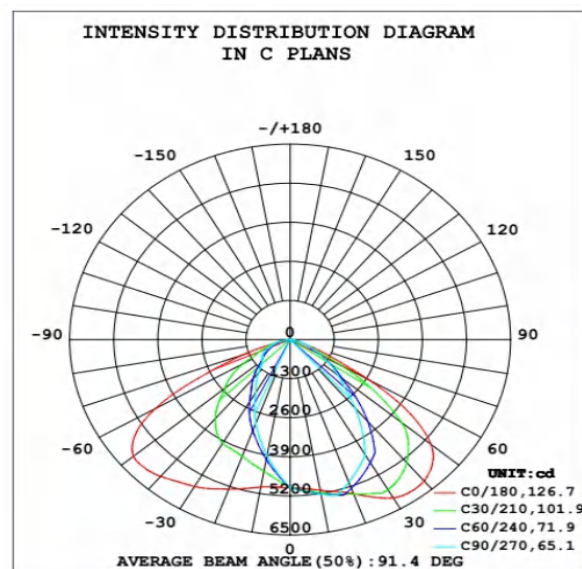
- 1、 Maintain after power off .
- 2、 Clean the glass of light in time to keep good light transmission.
- 3、 Use the right cleaner not strong corrosive liquid while cleaning.

Temperature test

Product Name	Position	Temperature	Ambient temperature	Temperature rise
BC-COCO-D-50W	LED junction	62.9°C	23.2°C	39.7°C
	PCB	59.3°C	23.2°C	36.1°C
	Housing	59.2°C	23.2°C	36°C
	Driver	60.3°C	23.2°C	37.1°C



Parameter of Optics



Information on maintenance and repair

1. Please make sure that the power has been cut off before repairing the lamp.
2. Clean the PC lens of the lamps regularly to keep good light transmittance.
3. Regularly clean the dust of the outer shell of the lamp to maintain good heat dissipation performance.
4. Do not clean with water or corrosive solution, but rather with a dry rag.
5. Avoid storing and using lamps in corrosive environment or environment containing harmful substances, such as sulfide, halide and phthalate.
6. When installing and maintaining lamps, do not look directly at the light source.
7. Please contact with the dealer and manufacturer if the LED chip or driver has to be replaced. Because the waterproof and dust-proof performance will be effected after dismounting again.
8. Product guarantee 3 years, the manufacturer will be responsible for the quality during the period. The damage resulted of irresistible clause will have paid maintenance.

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Tech Specifications

Model	BC-COCO-D-50W	BC-COCO-D-100W
Voltage	AC100-265V (50/60Hz)	AC100-265V (50/60Hz)
Power	50W	100W
Led Brand	Epistar	Epistar
LED QTY	80 PCS * SMD2835	130 PCS * SMD2835
Lumen	100-110lm/W	100-110lm/W
Color Temp	3000k - 6000K	3000k - 6000K
Installation	Lamp pole Installation	Lamp pole Installation
Surge Protection	4KV	4KV
Power factor	95	95
CRI	>70	>70
Housing	Aluminum	Aluminum
IP	IP65	IP65
Operating Temp	-25° ~ 55°	-25° ~ 55°
Weight	1.32KG	2.1KG
Dimension of packaging	520*210*120(mm)	550*220*140(mm)
Lifespan/Warranty	50000 hours/2 years	50000 hours/2 years

Product Feature

Character and Application:

Patented products, easy to install. The lamp body is made of die-casting aluminum alloy, which makes drivers have good heat dissipation, and improves the life of the product. This lamp is suitable for installation at 6-8m height, and The distance is 3~3.5 times the height.

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Heat sink feature:

Adopt high-purity aluminum radiator with high thermal conductivity. The aluminum radiator is specially designed, which increases the radiating area, enhances the heat exchange efficiency of cold and hot air, which can reduce the temperature of the light source and ensure the stability of the product function, and has a longer service life.

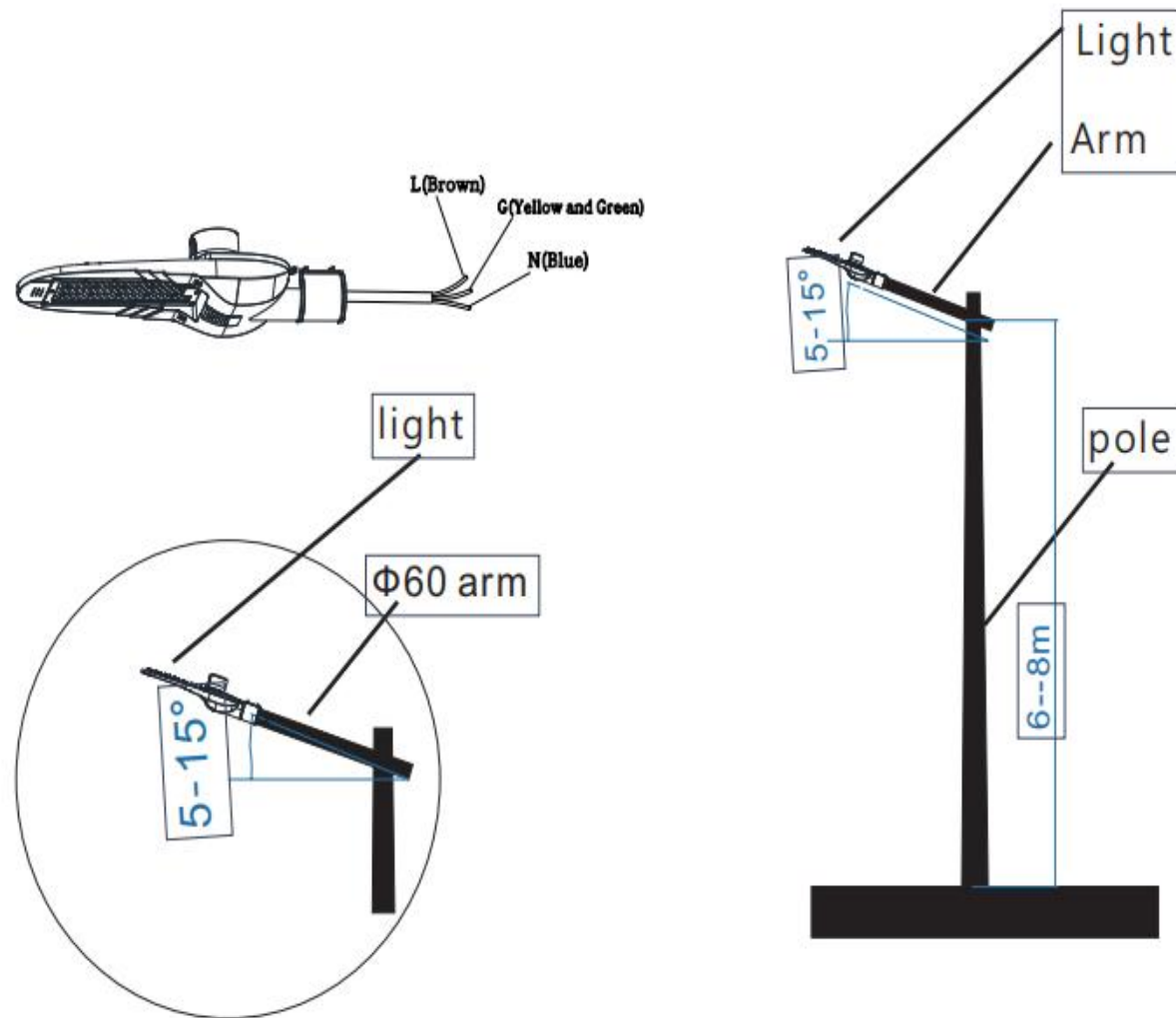
Installation:

Lamp pole installation

Application:

Urban branch road, garden road, industrial park road, etc

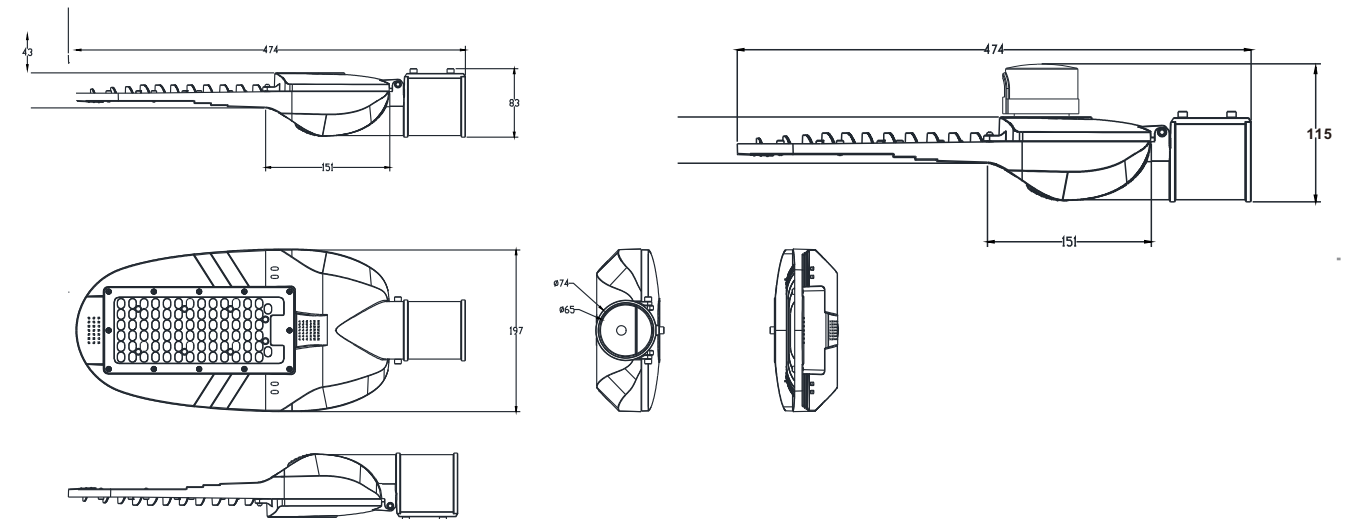
Installation Instructure



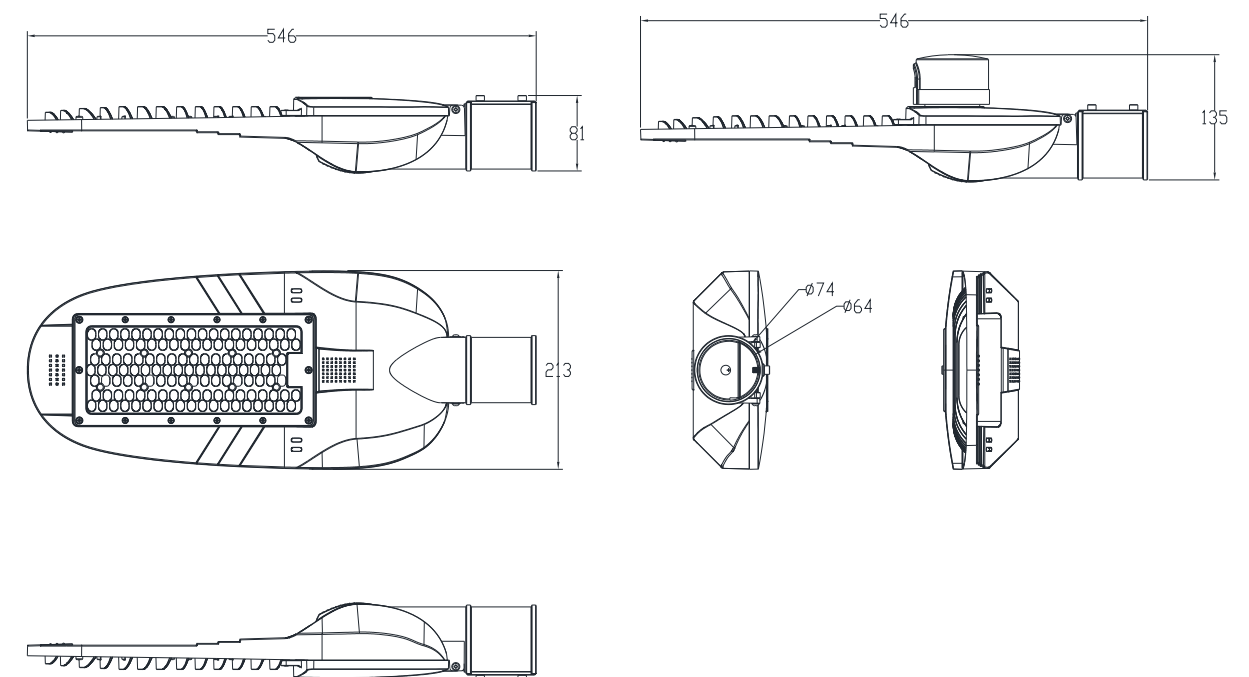
- 1.The working voltage of the product is AC100V-265V 50/60Hz. Do not exceed the working voltage range.
- 2..The luminous surface of the lamp is a PC lens, which is fragile. Please handle it with care during transportation, handling, storage and fixation.
- 3.When installing lamps and lanterns, the wiring and wiring place shall be sealed to prevent electric leakage. Do not electrify during wiring.
- 4.When external power lines are connected, corresponding waterproof and leakage prevention measures must be taken.
- 5.It shall not violate any fire regulations when used the lamp.
- 6.Please employ a professional electrician to install it. The cable should be 0.75-1mm three-core cable ,the brown wire is " L" wire, the blue wire is "N"wire, and the yellow-green wire is the "PE".)

Dimension

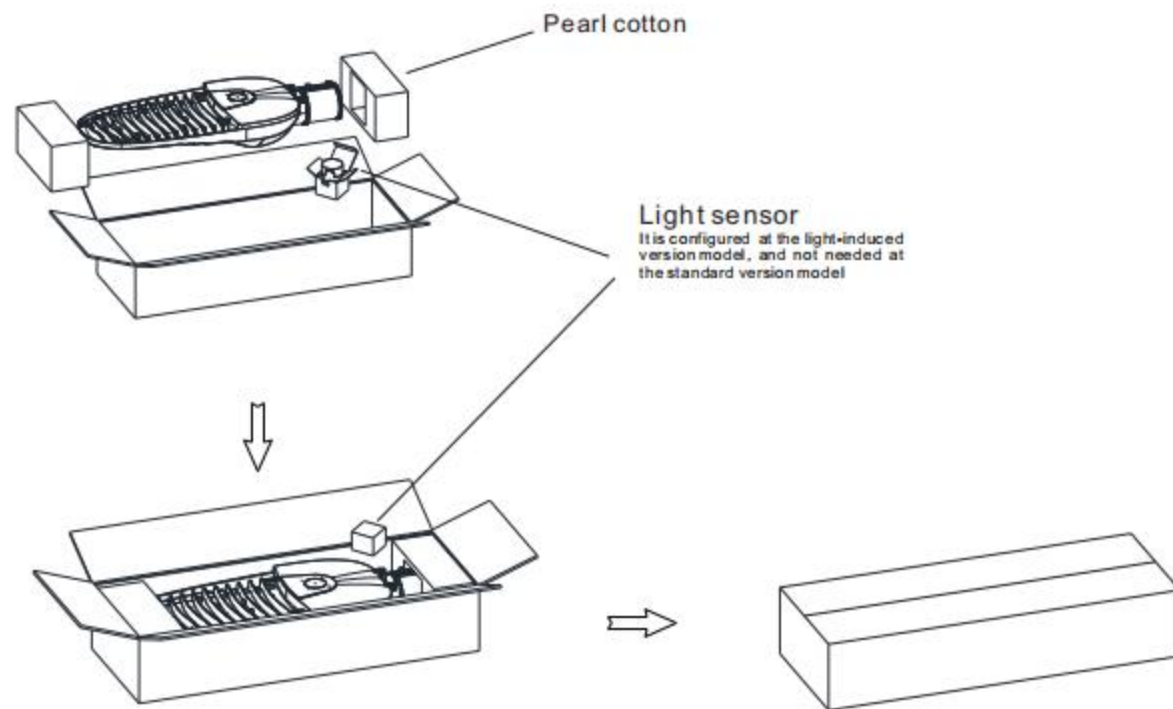
1. Standard version model: 474mm*197mm* 83 mm
2. Light sensor version model: 474mm*197mm* 115 mm



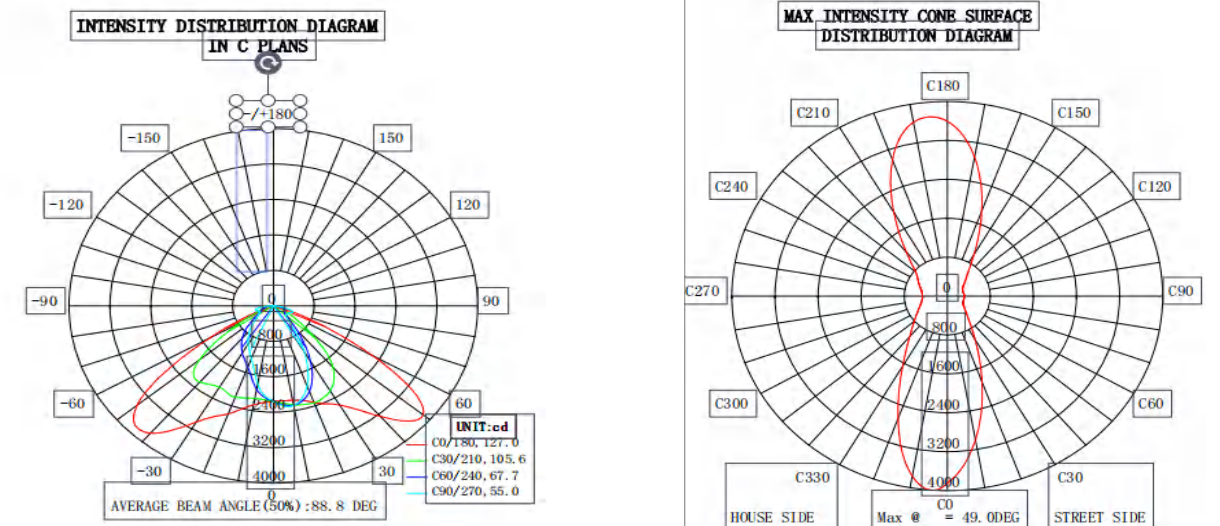
- 2.Light-induced version model: 546mm*213mm* 135 mm.
2. Standard version model: 546mm*213mm* 81 mm.



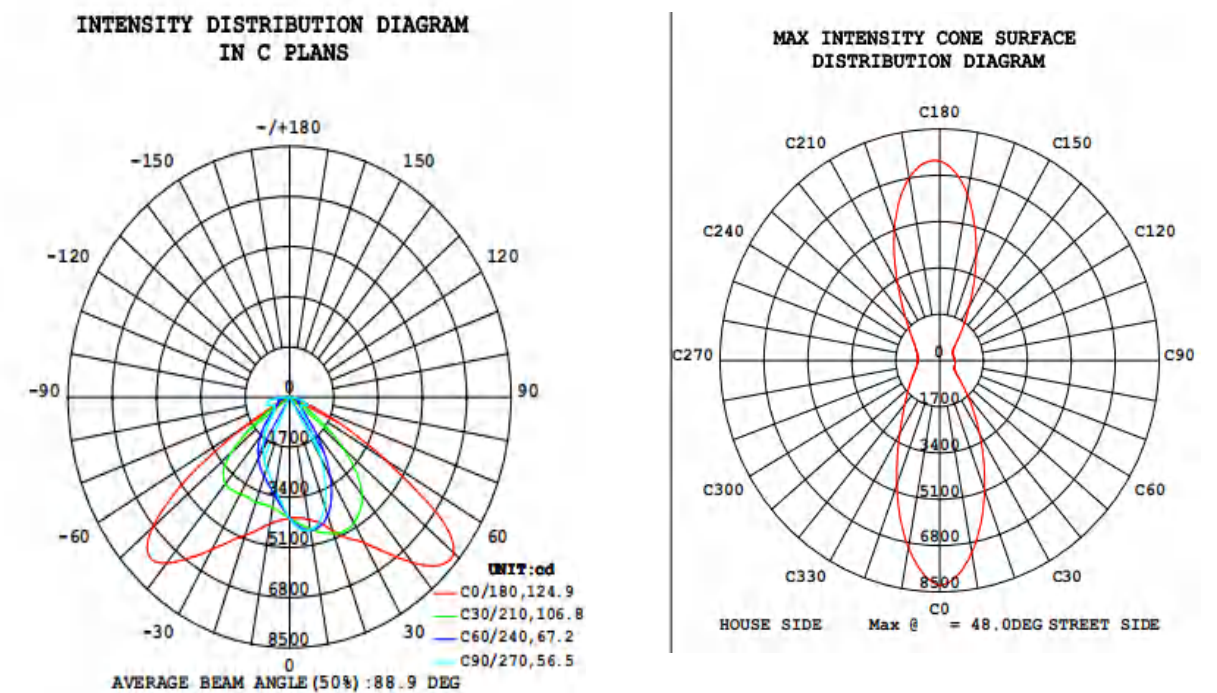
Packaging



Parameters of Optics



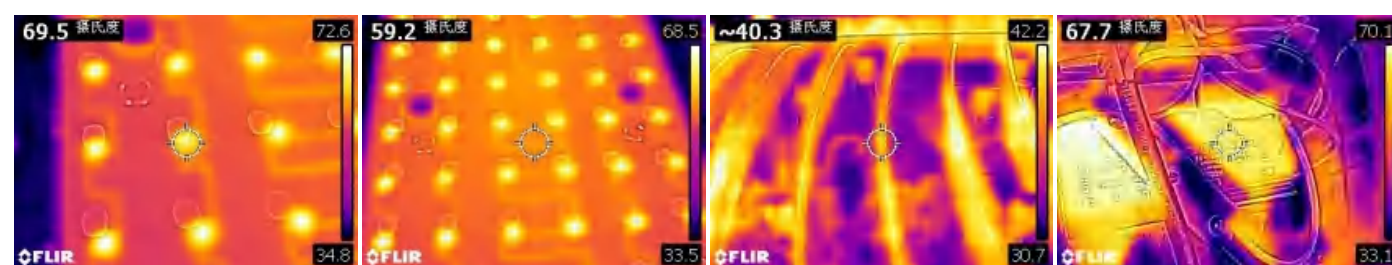
BC-COCO-A-50W



BC-COCO-A-100W

TemperatureTest

Product Name	Position	Temperature	Ambient temperature	Temperature rise
BC-COCO-D-50W	LED junction	69.5℃	27.1℃	42.4℃
	PCB	59.2℃	27.1℃	32.1℃
	Housing	40.3℃	27.1℃	13.2℃
	Driver	67.7℃	27.1℃	40.6℃
BC-COCO-D-100W	LED junction	82.2℃	27.9℃	54.3℃
	PCB	62.3℃	27.9℃	34.4℃
	Housing	59.5℃	27.9℃	31.6℃
	Driver	71.9℃	27.9℃	44.0℃

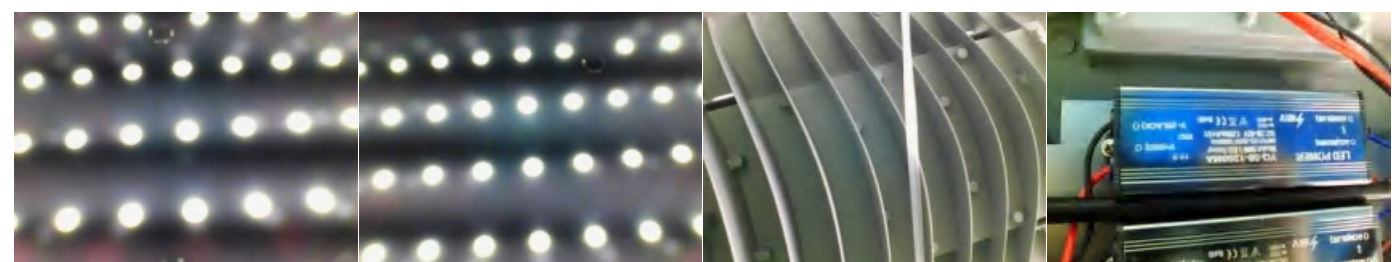
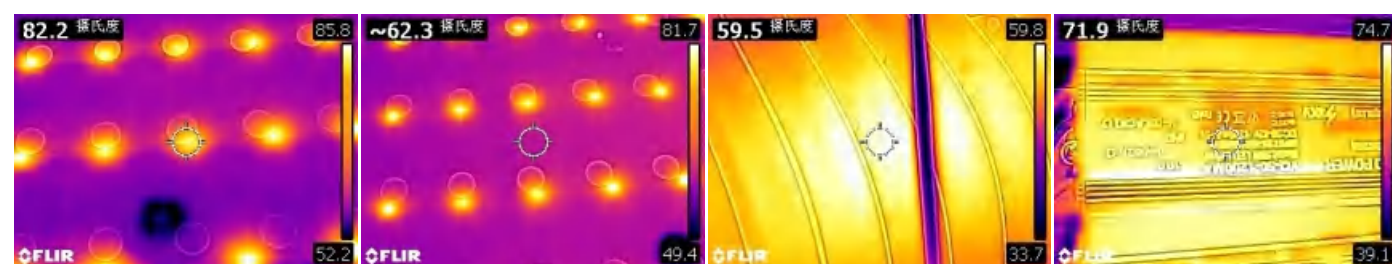


LED junction

PCB

Housing

Driver



Information on maintenance and repair

1. Please make sure that the power has been cut off before repairing the lamp.
2. Clean the PC lens of the lamps regularly to keep good light transmittance.
- 3.Regularly clean the dust of the outer shell of the lamp to maintain good heat dissipation performance.
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- 8.Product guarantee 3 years, the manufacturer will be responsible for the quality during the period. The damage resulted of irresistible clause will have paid maintenance.

After- Sales Service and quality assurance

Under normal use conditions, quality assurance is based on the correct preservation, installation, use and maintenance of products; Product damage caused by improper installation and use and violation of product operation regulations is not within the scope of this guarantee; For the quality problems during the quality warranty period, the company will choose to repairing, repairing parts or repairing new products during the warranty period; If the warranty period exceeds, materials and labor costs will be properly charged. The product quality problems caused by natural factors and environmental factors are not covered by the warranty.



Tech Specifications			
MODEL	BC-Haba-H-100W	BC-Haba-H-200W	BC-Haba-H-300W
Lumen	100~130 lm /W	100~130 lm /W	100~130 lm /W
Led Source	120pcs * SMD2835	240pcs * SMD2835	480pcs * SMD2835
Color temperature	6000k~6500k	6000k~6500k	6000k~6500k
Color rendering index	CRI > 70	CRI > 70	CRI > 70
Color tolerance adjustment	≤15SDCM	≤15SDCM	≤15SDCM
Battery capacity	15000m AH	15000m AH	30000m AH
Solar panel power	15 W / 6V	15 W / 6V	35 W / 6V
Rainy days with lighting	2-3 days	2-3 days	2-3 days
Work temperature	-10°C to +40°C	-10°C to +40°C	-10°C to +40°C
Life span	30000 H	30000 H	30000 H
IP	IP 65	IP 65	IP 65
Dimensions overall	890x410x530 mm	890x410x530 mm	1000x480x350 mm
Solar panel size	350x350x17 mm	350x530x17 mm	350x670x17 mm
Size of lamp arm	Φ60 mm*500mm	Φ60 mm*500mm	Φ60 mm*500mm
Installations	Lamp post installation or Installagainst the wall		
Connecting power wires	Butt joint	Butt joint	Butt joint
Height recommendation	3~6 m	4~8 m	5~10 m

Product Feature

Application and character:
 Solar energy is used to power this product to provide night lighting. During the day, solar panels convert solar energy into electricity to charge the battery. At night, the battery is discharged and leds provide lighting. The product is designed with an efficient LED light source, which has the characteristics of high brightness, energy saving and environmental protection, easy installation, stable and reliable operation, no need for cables, no conventional energy consumption, long life-span.

Light source characteristics:
 The SMD light source is a well-known brand , which boasts high luminous efficiency, low light fade, and long life.

Battery characteristics:
 The product uses a high-performance lithium battery, which is radiation-free and environment-friendly, with a small internal resistance and a large capacity, making it able to discharge a high current continuously. It also has a good protection system. During long-term operation, no manual maintenance is required. Acid mist and gas will not be generated during the operation period, as it provides over-charge, over-discharge, and night anti-reverse charge protection functions.

Power supply characteistics:
 With this product's glass and silicon wafer lamination technology, it has the advantages of long life cycle, low attenuation rate, weather resistance, high fire resistance, good heat dissipation, good insulation, easy cleaning, and higher power generation efficiency. IP65, which is more widely used in parks, seaside and other applica tion environm ents.

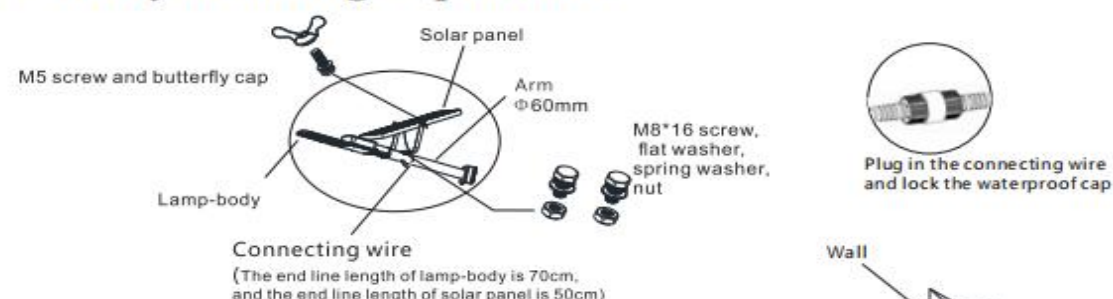
System characteristics:
 Intelligent control is realized by using microprocessor and special control algorithm. With light control, time control and remote control functions. Effectively adapt to multiple usage scenarios, maximize energy saving and environmental protection, The intelligent control system can ensure battery and lamp bead plate double protection, thereby providing battery open circuit protection, load over-voltage protection, output overload and short circuit protection, and solar panel reverse connection protection.

Installations:
 Installation of lamp posts or mounting against the wall

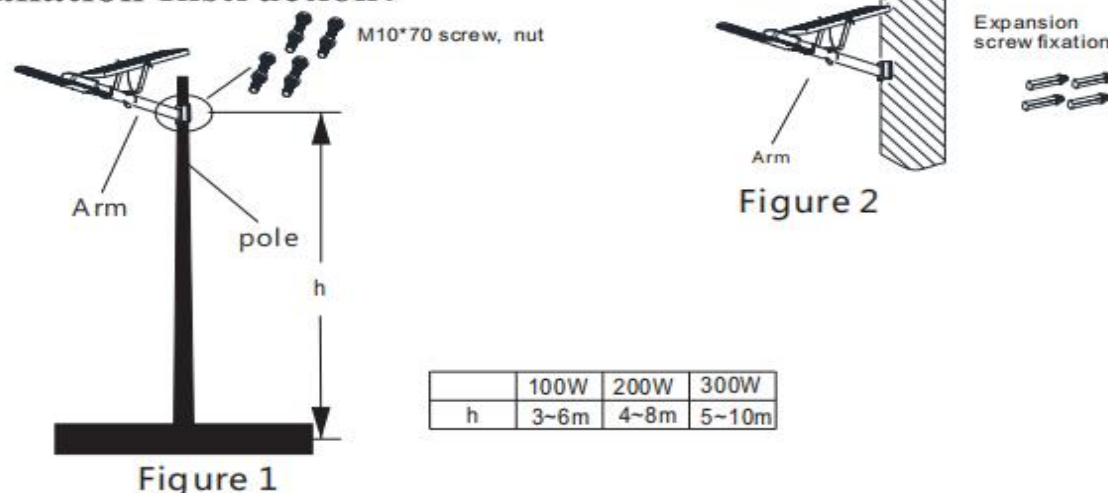
Product application:
 The lighting can be used for roads, residential streets, homes, villas, industrial parks, pedestrian walkways, fitness and recreation centers, etc.

Installation Instruction

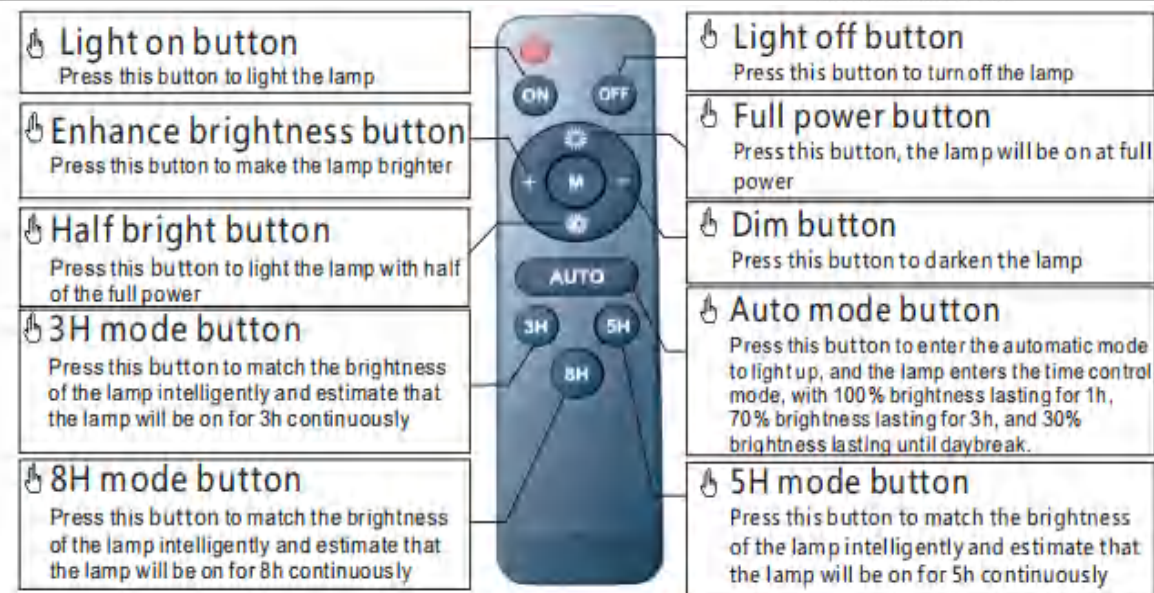
✧ Assembly drawing of product



✧ Installation Instruction:



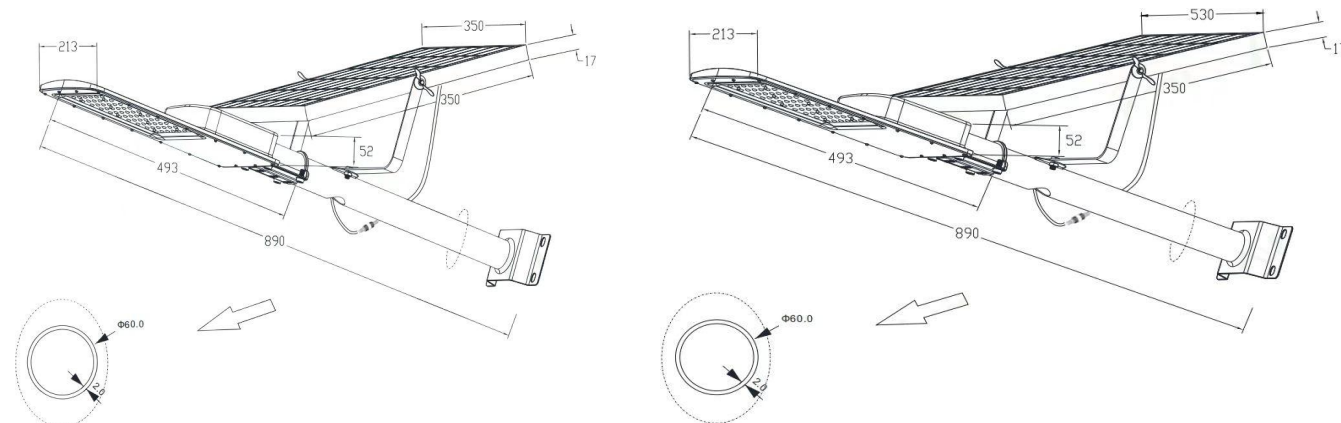
Accessories list



Installation Instruction

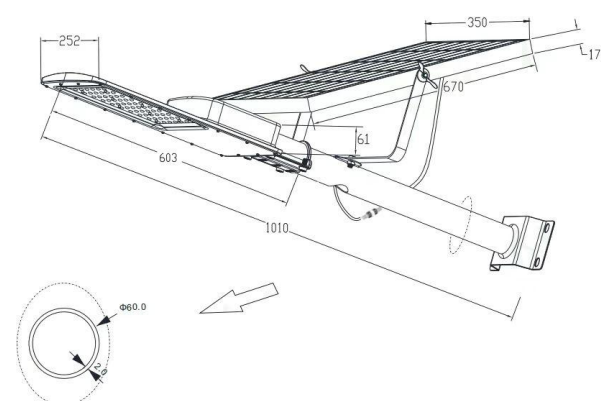
- 1.The lamp can be mounted either on the wall or on the lamp pole.
- 2.If it is mounted on the wall, the solar photovoltaic panel and lamp are mounted together through the lamp arm, which is then fixed on the wall with expansion screws, as shown in Figure 2 below.
- 3.Installing the lamp and solar panel together through the lamp arm, and then mounting the lamp arm on the lamp post, is the proper way to install them on the lamp post, as shown in Figure 3 below.
- 4.After installation, connect the lamp's power line and the solar panel's power line through the butt joint. Ensure that the butt joint is fully connected to ensure the lamp's waterproof feature. The lamp's end of the power line is 70 cm. In addition, the solar photovoltaic panel end is 50cm long. It can also be customized to meet the customers' needs.
- 5.The luminance surface of the lamp is made of PC plastic, while the solar panel is made of glass. The two are fragile products, so please handle them with care during transportation, handling, storage and installation, and do not drop them, and do not press them heavily to avoid damaging the structure of the lamp.
- 6.Storage of the lamp should be done in a place with good airflow and no dust. The ambient temperature should be between -10°C and 40°C, and it should not be kept in a freezing environment. Let the lamp rest, and charge and discharge it once a month.
- 7.Installing solar panels should take advantage of direct sunlight as much as possible, without being blocked by buildings or trees, and ensure the longest possible irradiation time (solar panels cannot be installed under glass or indoors). Installing solar panels correctly and scientifically will result in the best charging effect.
- 8.Place the solar panel and lamp in a place with enough light, and connect the lamp's connection to the solar panel. Cover the solar panel with opaque material, and the lamp will be lit. The solar panel can work normally and the battery can be charged normally Electricity. Install the battery on the remote control and press the off button to turn off the lamp. Press the on button to turn the light back on and test the other buttons on the remote control, Following debugging or inspecting the lamp, it is necessary to press "Auto" to return the lamp control system to normal operation.

Dimension



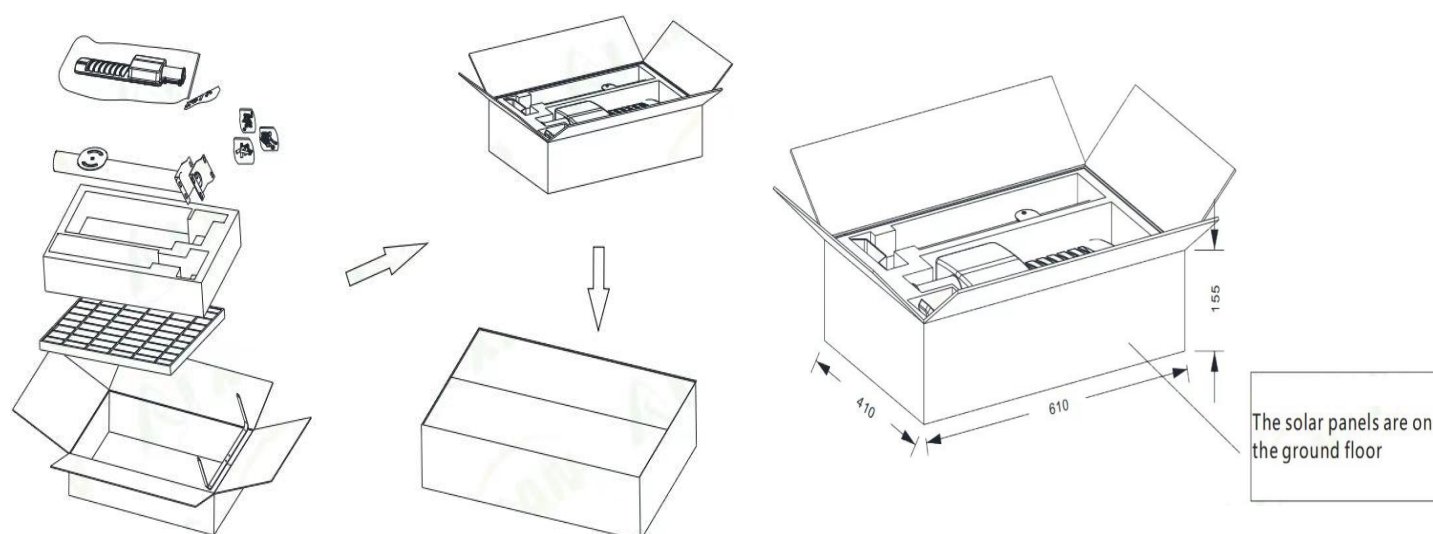
BC-Haba-H-100W

BC-Haba-H-200W



BC-Haba-H-300W

Packaging



Information on maintenance and repair

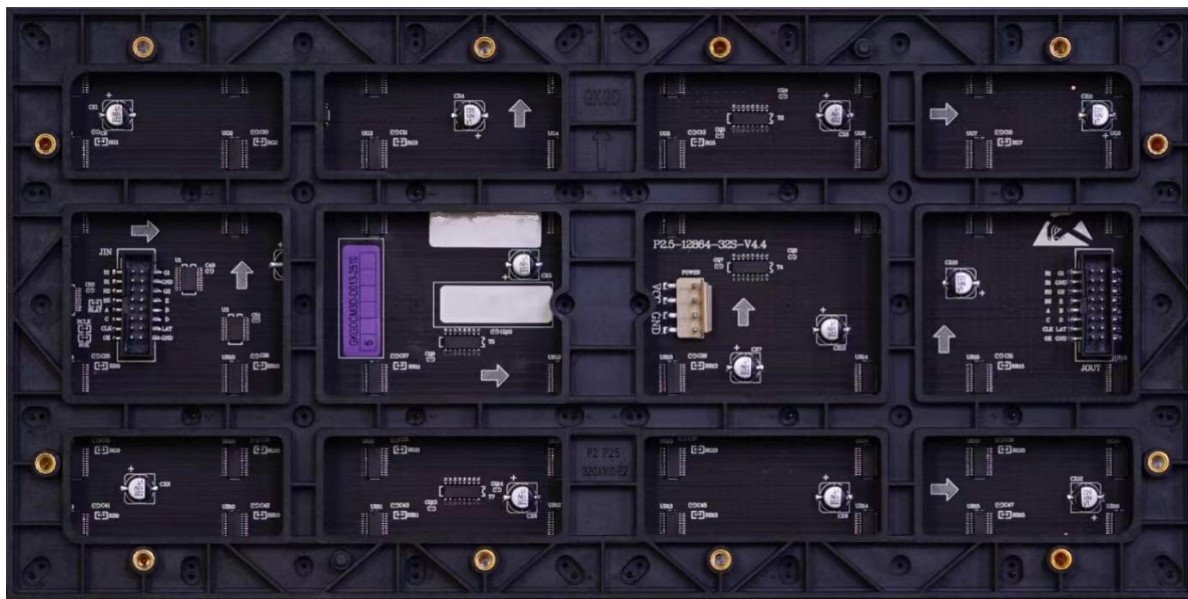
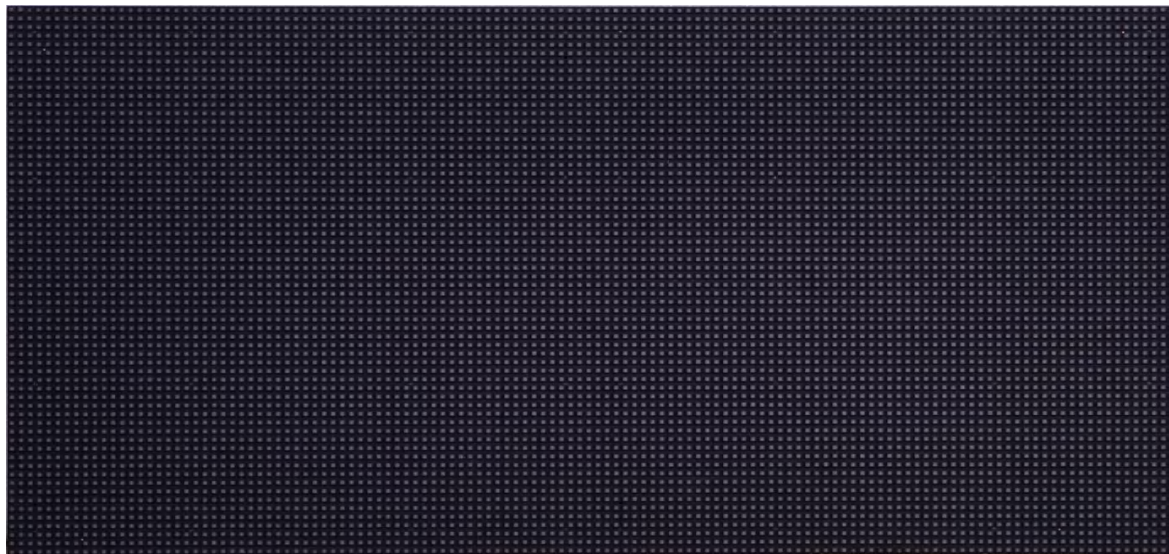
1. Please make sure that the power has been cut off before repairing the lamp.
2. Clean the PC lens of the lamps regularly to keep good light transmittance.
3. Regularly clean the dust of the outer shell of the lamp to maintain good heat dissipation performance.
4. Do not clean with water or corrosive solution, but rather with a dry rag.
5. Avoid storing and using lamps in corrosive environment or environment containing harmful substances, such as sulfide, halide and phthalate.
6. When installing and maintaining lamps, do not look directly at the light source.
7. Please contact with the dealer and manufacturer if the LED chip or driver has to be replaced. Because the waterproof and dust-proof performance will be effected after dismounting again.
8. Product guarantee 3 years, the manufacturer will be responsible for the quality during the period. The damage resulted of irresistible clause will have paid maintenance.

After- Sales Service and quality assurance

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Model	Photo	Description	Model	Photo	Description
BC-001		Size: L*17.4*12.1mm Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*14.4*8.8mm	BC-002		Size: L*24.5*12.2mm Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*14.3*6.7mm
BC-003		Aluminum profile +PC+2 pcs end cap Size: L*14.2*8.5mm	BC-004		Aluminum profile +PC+2 pcs end cap Size: L*18.4*8.5mm
BC-005		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*24.7*7mm	BC-006		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*17.4*7mm
BC-007		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*13.2*7mm	BC-008		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*14.5*14.5mm
BC-009		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*23*14.5mm	BC-010		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*15.5*6.7mm
BC-011		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*16.2*9.2mm	BC-012		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*17.2*14.4mm
BC-013		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*24*14.2mm	BC-014		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*24*19mm
BC-015		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*13*13mm	BC-016		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*15.8*15.8mm
BC-017		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*15.8*15.8mm	BC-018		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*19*19mm
BC-019		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*41.3*23.5mm	BC-020		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*19.3*13mm
BC-021		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*23.5*9.8mm	BC-022		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*15.5*6.7mm
BC-023		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*21.7*6.7mm	BC-024		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*30.3*9.8mm
BC-025		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*18*6mm	BC-026		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*10*10mm
BC-027		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*12.4*9mm	BC-028		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*10*13mm
BC-029		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*15.6*10mm	BC-030		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*15*20mm
BC-031		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*17*13mm	BC-032		White Aluminum profile +PC
BC-033		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*20*10mm	BC-034		Size: L*26*10mm
BC-035		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*20*20mm	BC-036		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*27*20mm
BC-037		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*23.5*20.5mm	BC-038		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*30*20.5mm
BC-039		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*30*10mm	BC-040		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*41*10mm
BC-041		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*41*10mm	BC-042		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*30*20mm
BC-043		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*44*20mm	BC-044		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*40*20mm
BC-045		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*55*20mm	BC-046		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*50*20mm
BC-047		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*64*20mm	BC-048		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*23.5*27.6mm
BC-049		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*36*27.6mm	BC-050		Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*35.7*25.8mm
BC-051		Aluminum profile +PC+2 pcs end cap +2 pcs clips	BC-052		Aluminum profile +PC+2 pcs end cap +2 pcs clips

BC-053		Size: L*44*35mm Aluminum profile+PC+2 pcs end cap +2 pcs clips Size: L*35*34.8mm	BC-054		Size: L*43.6*35mm Aluminum profile +PC+2 pcs end cap +2 pcs clips Size: L*30*30mm
BC-055		Aluminum profile+PC+2 pcs end cap+2 pcs clips Size: L*35*35mm	BC-056		Aluminum profile +PC+2 pcs end cap Size: L*50*35mm
BC-057		Aluminum profile+PC+2 pcs end cap Size: L*50*20mm	BC-058		Aluminum profile +PC+2 pcs end cap Size: L*64*20mm
BC-059		Aluminum profile+PC+2 pcs end cap Size: L*50*32mm	BC-060		Aluminum profile +PC+2 pcs end cap Size: L*64*32mm
BC-061		Aluminum profile+PC+2 pcs end cap Size: L*60*35mm	BC-062		Aluminum profile +PC+2 pcs end cap Size: L*74*35mm
BC-063		Aluminum profile+PC+2 pcs end cap Size: L*75*35mm	BC-064		Aluminum profile +PC+2 pcs end cap Size: L*90*35mm
BC-065		Aluminum profile+PC+2 pcs end cap Size: L*100*35mm	BC-066		Aluminum profile +PC+2 pcs end cap Size: L*120*35mm
BC-067		Aluminum profile+PC+2 pcs end cap Size: L*35*67mm	BC-068		Aluminum profile +PC+2 pcs end cap Size: L*50*75mm
BC-069		Aluminum profile+PC+2 pcs end cap Size: L*50*88mm	BC-070		Aluminum profile +PC+2 pcs end cap Size: L*70*88mm
BC-071		Aluminum profile+PC+2 pcs end cap Size: L*50*50mm	BC-072		Aluminum profile +PC+2 pcs end cap Size: L*75*75mm
BC-073		Aluminum profile+PC+2 pcs end cap Size: L*100*75mm	BC-074		Aluminum profile +PC+2 pcs end cap Size: L*32*13mm
BC-075		Aluminum profile+PC+2 pcs end cap Size: L*32*13mm	BC-076		Aluminum profile +PC+2 pcs end cap Size: L*33*12mm
BC-077		Aluminum profile+PC+2 pcs end cap Size: L*53*13.5mm	BC-078		Aluminum profile +PC+2 pcs end cap Size: L*53*13.5mm
BC-079		Aluminum profile+PC+2 pcs end cap Size: L*46*24mm	BC-080		Aluminum profile +PC+2 pcs end cap Size: L*50*22mm
BC-081		Aluminum profile+PC+2 pcs end cap Size: L*61*14mm	BC-082		Aluminum profile +PC+2 pcs end cap Size: L*61*14mm
BC-083		Aluminum profile+PC+2 pcs end cap Size: L*56*15mm	BC-084		Aluminum profile +PC+2 pcs end cap Size: L*50*25.5mm
BC-085		Aluminum profile+PC+2 pcs end cap Size: L*53*24mm	BC-086		Aluminum profile +PC+2 pcs end cap Size: L*71.5*35mm
BC-087		Aluminum profile+PC+2 pcs end cap Size: L*96*20mm	BC-088		Aluminum profile +PC+2 pcs end cap Size: L*20*20mm
BC-089		Aluminum profile+PC+2 pcs end cap Size: L*26*23mm	BC-090		Aluminum profile +PC+2 pcs end cap+2 pcs clips Size: L*30mm
BC-091		Aluminum profile+PC+2 pcs end cap Size: L*60mm	BC-092		Aluminum profile +PC+2 pcs end cap Size: L*45*42mm
BC-093		Aluminum profile+PC+2 pcs end cap Size: L*45*42mm	BC-094		Aluminum profile +PC+2 pcs end cap Size: L*11.2*11.2mm
BC-095		Aluminum profile+PC+2 pcs end cap Size: L*16.5*30mm	BC-096		Aluminum profile +PC Size: L*23.5*9mm
BC-097		Aluminum profile+PC Size: L*28*11mm	BC-098		Aluminum profile +PC+2 pcs end cap Size: L*21.3*25.8mm
BC-099		Aluminum profile+PC+2 pcs end cap Size: L*65*26.5mm	BC-100		Aluminum profile +PC+2 pcs end cap Size: L*65*25.2mm
BC-101		Aluminum profile+PC+2 pcs end cap Size: L*80*18mm	BC-102		Aluminum profile +PC+2 pcs end cap Size: L*101*49.5mm
BC-103		Aluminum profile+PC+2 pcs end cap Size: L*43*108mm	BC-104		Aluminum profile +PC+2 pcs end cap Size: L*101*49.5mm
BC-105		Size: L*98*19mm	BC-106		Size: L*70*68mm
BC-107			BC-108		



Tech specifications

Input Voltage:	AC110V±10%	Viewing Angle:	H: 160°/V: 140°
Ave.Power Consumption:	246W/sqm	Max.Power Consumption:	492W/sqm
Working Temperature:	-10°C~50°C	Storing Temperature:	-20°C~60°C
Brightness:	>500cd/sqm	Working Humidity:	10%-60%
Pixel Density:	288906 /sqm	Color Temperature:	3000K~18000K by user choice
Color Depth:	15 bit	Refresh Rate:	3840Hz
Repetition Frequency:	50/60Hz	Lifespan:	100000hrs
Model Size:	320*160mm	Min viewing distance:	>1.8m
Flammability:	PCB UL94-V-0	Control:	PC

Product features

This product uses SMD 1212 full-color lamp, and the red, green and blue chips are packaged in the lamp. The 1212 lamp are soldered on the PCB by surface mount technology (SMT). This product is controlled by computer using PWM driver IC chip and integrated row driver chip; Wide display viewing angle, pure and consistent color, stable and uniform brightness, clear text, image and videoclear.

The lamp and chips are mounted on the PCB board to form a unit board, and then mounted on the bottom case to form a module.

Its appearance is exquisite and beautiful, sturdy and durable.

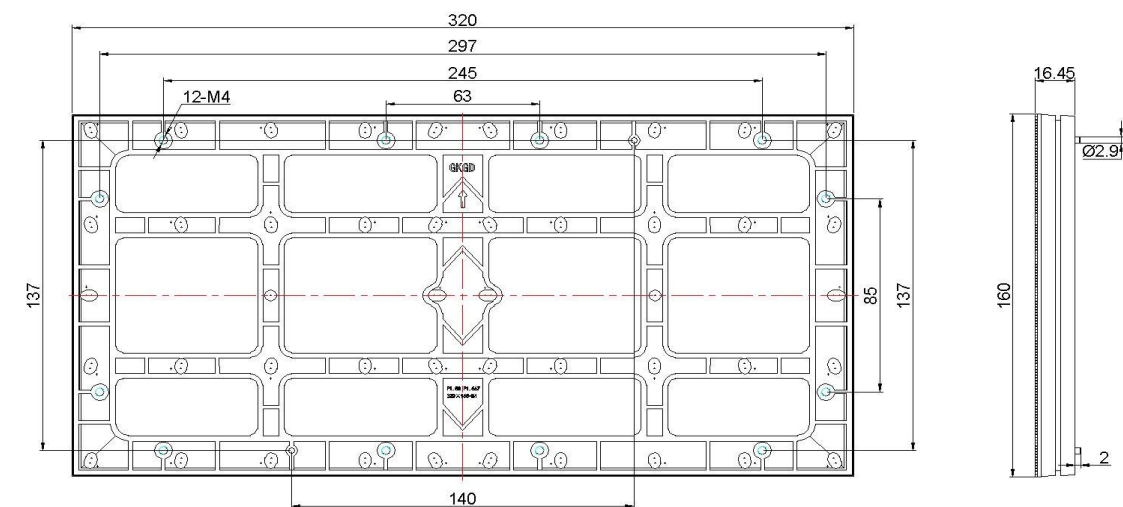
The bottom case has M4 threaded holes for installing modules. The magnetic column can be installed on the module, and then installed into a whole screen, or use screws to fix the module on the box, and then splicing the box into a whole screen.

Interface definition

R1	1	2	G1
B1	3	4	GND
R2	5	6	G2
B2	7	8	E
A	9	10	B
C	11	12	D
CLK	13	14	LAT
OE	15	16	GND

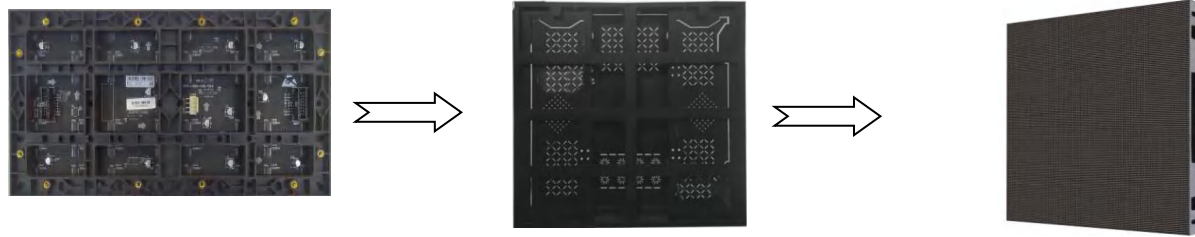
Pin	Signal	Function	Pin	Signal	Function
1、2	R1	First Group RGB data	4、16	GND	Signal
3	G1				
	B1				
5、6	R2	Second Group RGB data	8、9	E、A	Line control Signal
7	G2		10、11	B、C	
	B2		12	D	
13	CLK	Clock signal	14	LAT	Latch signal
15	OE	Enable signal			

Hole



Installation of model

The mounting threaded holes on the back of the module are aligned with the corresponding mounting holes in the box, and M4 screws are used to attach the the module is fixed on the box, pay attention to the splicing gap and meet the flatness requirements.



Use M4 screws to fix the module, and the length of the screws after passing through the box should not exceed 5mm. use GB9074.4 screws (as shown in the figure below, spring washers, washers and screws cannot be separated), which can reliably fix the module. For the parts where the GB9074.4 screws cannot be used due to the limitation of the box structure, GB818 screws can be used (see the following figure). Please refer to the corresponding national standard for screw selection and naming method.



M4 GB818 Pan screw

M4 GB9074.4 with locking screw

Module installation clearance

The flatness gap of module splicing is less than 0.2mm to avoid bright and dark lines in color. The size of model is 320mm×160mm, but the actual size is 319.90±0.1mm×159.90±0.1mm, The module installation distance needs to be calculated based on the actual size.

Magnetic column requirements

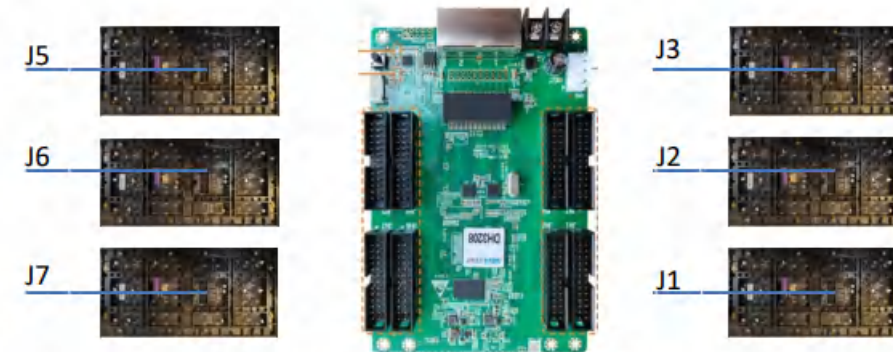
The M4 magnetic column is commonly used in the LED display, and the diameter of the magnetic column chassis is 13±0.05mm, the height of the magnetic column is 13±0.05mm; the diameter of the magnetic core is 10±0.05mm, The core thickness is 1.2±0.05mm.

Module magnetic installation

Design and manufacture the steel frame according to the size of the display screen and the size of the module, generally use 40mm×40mm square steel. After the steel frame is installed on site, install the receiving card, power supply and wires on the steel frame. Install the magnetic column on the module, connect the power cable and the cable of the module, and magnetically attract the module to the steel frame

Connection of Model's signal

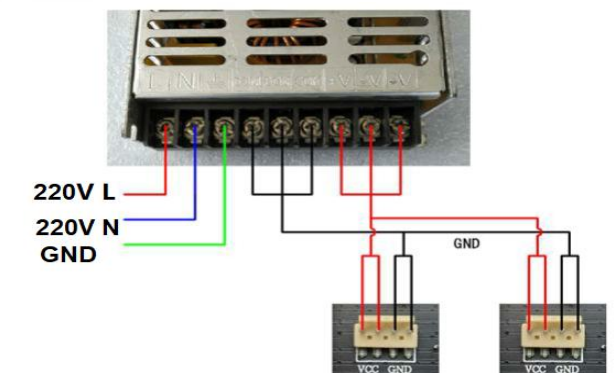
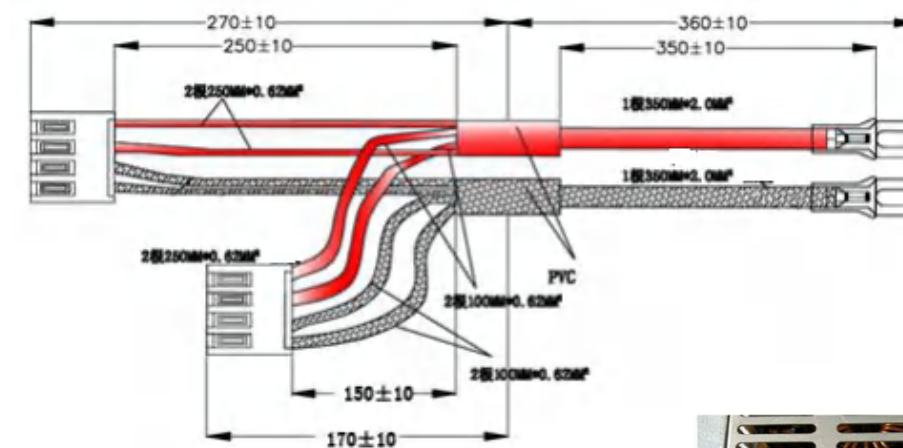
Select the corresponding 16P/26P cable and matching receiving card according to the module interface definition, and connect the module data input interface with the receiving card output port J1, J2, J3, J5, J6, J7 through the long cable respectively. Watt DH3208 receiving card, the connection between the module and the receiving card is as follows (our company customizes the lighting program to meet the needs of the pixels):



Module Power Configuration

Power supply: 4.2V, 60 A
Current of each model: Max 6.1A
Connection model quantity: <6 pcs

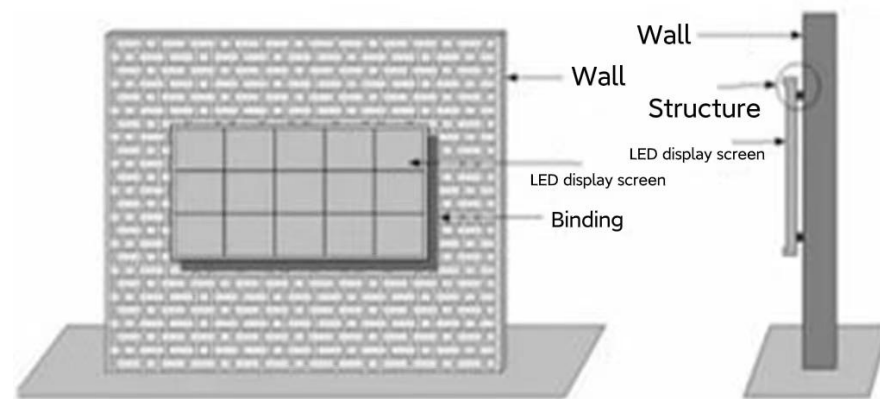
Power cord model: one for two 60cm-25cm/15cm VH4 crimped bar-shaped cable (pure copper or copper clad aluminum).



Installation of display screen

1. Wall installation

It is suitable for the installation of indoor screen, the area is small (below 10 square meters), and the wall is required to be a solid wall. This installation method is not suitable for hollow bricks or simple partition walls.

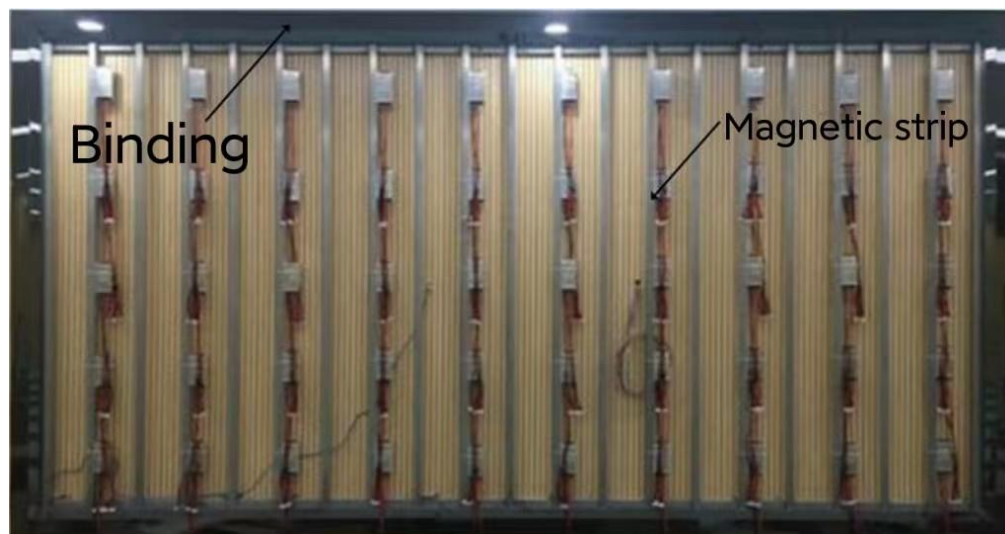


2. The installation of frame with magnetic strip

(1) Design the frame according to the installation area and module size (considering the edge and splicing gap), magnetic strip is welded on the frame with 4cm wide square steel evenly arranged according to the size of the module, and finally the frame is fixed on the wall.

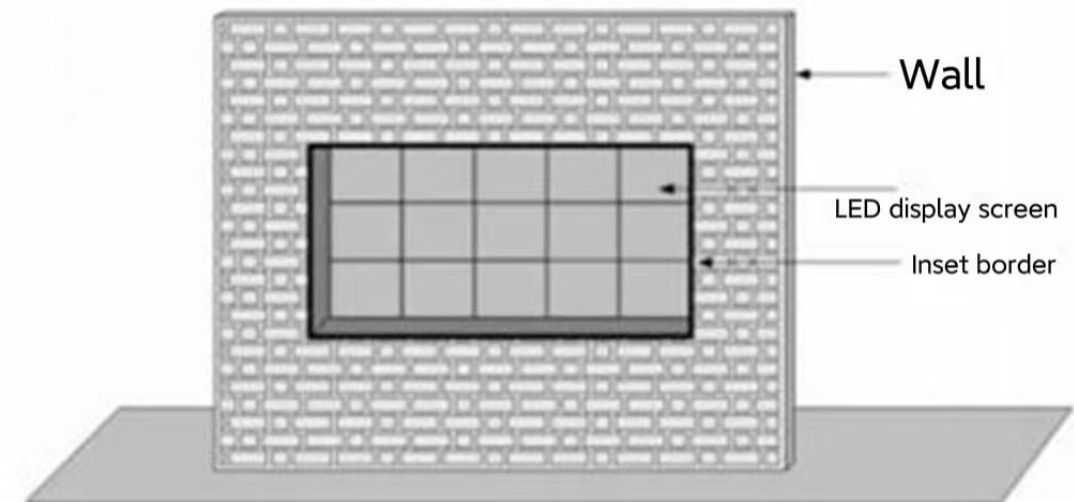
(2) M4 magnetic column commonly used in LED display screen, the diameter of the magnetic column chassis is $13\pm0.05\text{mm}$, the magnetic height is $13\pm0.05\text{mm}$; the core diameter is $10\pm0.05\text{mm}$, and the core thickness is $1.2\pm0.05\text{mm}$.

(3) Larger display screens should be spliced with cabinets.



3.Embedded installation

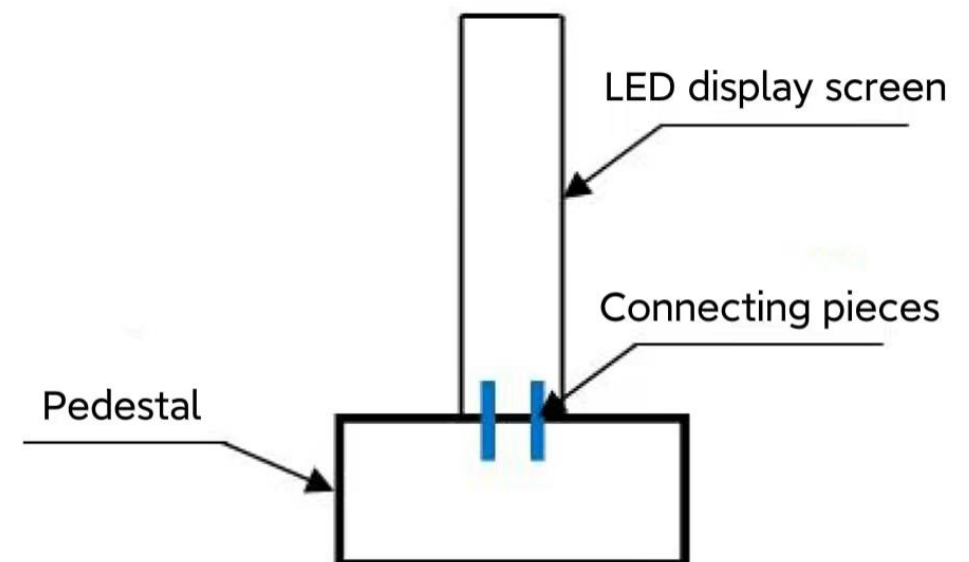
It is suitable for indoor screens with small area. According to the size of the screen, dig out the same size on the wall area, and the display screen is embedded in the wall. The wall is required to be a solid wall, and maintenance is required before use.



4. Pedestal installation

Removable seat: Refers to the seat frame is processed separately. It is placed on the ground and can be moved.

Fixed seat: Refers to the seat frame is a fixed seat frame connected to the ground or wall.



Display screen installation precautions

Waterproof and moistureproof

Wetting or serious damping of electronic equipment can cause short circuit or even fire, causing failure or even fire, resulting in losses. It is required that the junction of the screen and the building must be strictly waterproof and leak-proof, and avoid the water pipeline.

Ventilation, cooling

When the display screen works, it will generate a certain amount of heat. If the ambient temperature is too high and the heat dissipation is not good, the integrated circuit may not work properly, or even be burned, so that the display system can not work properly. It is required to install ventilation equipment to cool down, so that the internal temperature of the screen is between -20 °C ~ 50 °C. back of screen a temperature-controlled fan is installed at the upper rear to dissipate heat.

For installation methods that are difficult to repair and maintain, it is recommended to install remote monitoring and protection facilities.

Software installation

Display screen control and program production software, with software instruction manual, from the official website of the control system site download. Install and use the software according to the software instruction manual. If you have any questions about the use of the software, please consult our company's after-sales service or the control system manufacturer's after-sales service. The receiving card program used by the control system can be downloaded from the official website of Hi-Tech Optoelectronics. different models column driver IC may require different versions of control and program production software, and may also require the firmware of the receiving card to be upgraded to the specified version. Incorrect versions of control and program production software and receiving card firmware will result in abnormal display, or performance cannot be debugged to an ideal state.

Safety requirements

Safety Requirements for Using Models

Installation electrostatic protection requirements

During the use of the LED module, strict attention should be paid to electrostatic protection, and those who contact the module must wear grounded electrostatic wristbands or electrostatic gloves.

Installation grounding requirements are to prevent damage to chips or LEDs from lightning strikes or surges. During the module assembly process, various power tools must be well grounded, and the switching power supply shell and screen in the box must be properly grounded (must be separated from the strong electric ground).

Module Cleaning Requirements

Cleaning the module requires using a clean soft rag moistened with alcohol to gently wipe the surface of the module. Impossible use unknown chemical liquid to wipe, so as not to damage or corrode the plastic parts of the module, LED housing or LED light surface gel. After cleaning, wait until the surface of the module is completely dry before powering on the display.

Maintenance requirements

When repairing the LED module, use a constant temperature electric soldering iron and air gun and ground it well. Soldering iron tip is generally used a knife-shaped tip and a tapered tip.

When soldering the drive surface components of the LED module, the temperature of the electric soldering iron is generally 290~320°C, the welding time should not exceed 3s, and the number of soldering times should not exceed three times; The gun is slightly swayed clockwise against the lamp bead. After the solder is completely melted, the maintenance operation is carried out, and the number of welding is not more than three times.



Knife soldering iron tip



Conical Soldering Iron Tip

Anti-collision requirements

During the installation and transportation of the module, do not drop, push, squeeze or press the packaging to prevent the module from falling and knocking, in order to avoid problems such as kit breakage, lamp bead falling off, lamp bead damage, pad falling off, and components falling off.

Safety Requirements for using Display screen

Ambient temperature requirements

In order to ensure the stable operation of the display screen and achieve the designed service life, it is required that the module work the surface temperature is $\leq 85^{\circ}\text{C}$, and the air temperature inside the display body is $\leq 50^{\circ}\text{C}$. According to the actual working environment of the display screen, take necessary cooling measures, such as adding exhaust fans and exhaust fans to form cooling air ducts or installing air conditioners for cooling.

Display content requirements

In order to avoid serious attenuation of local LED lamp bead brightness or dead lamp, make the display screen reach the design level. It is not allowed to display still pictures or still texts for a long time, and scrolling pictures or texts must be played.

Power Connection Requirements

A dedicated switching power supply for LED displays must be used, and a single switching power supply is connected to multiple modules. The total current cannot exceed 80% of the rated maximum output current of the power supply. The wires connecting the module and the power supply need to use high-quality copper wires, and ensure that the voltage U range at the module power socket is $U \pm 0.2V$.

When connecting the power supply, it must be noted that the module power socket corresponds to the positive and negative poles of the output terminal of the switching power supply. If the positive and negative poles are reversed, the module will be burned, or even a fire will occur.

The module must not be connected to AC 220V, which will cause the module to burn immediately.

When wiring the power supply, ensure that the module plugs and sockets are connected reliably, and the power supply socket terminals of the switching power supply must be connected reliably. Tighten the screws. Loose plugs, sockets and screws can lead to increased contact resistance causing wire burn or product damage.

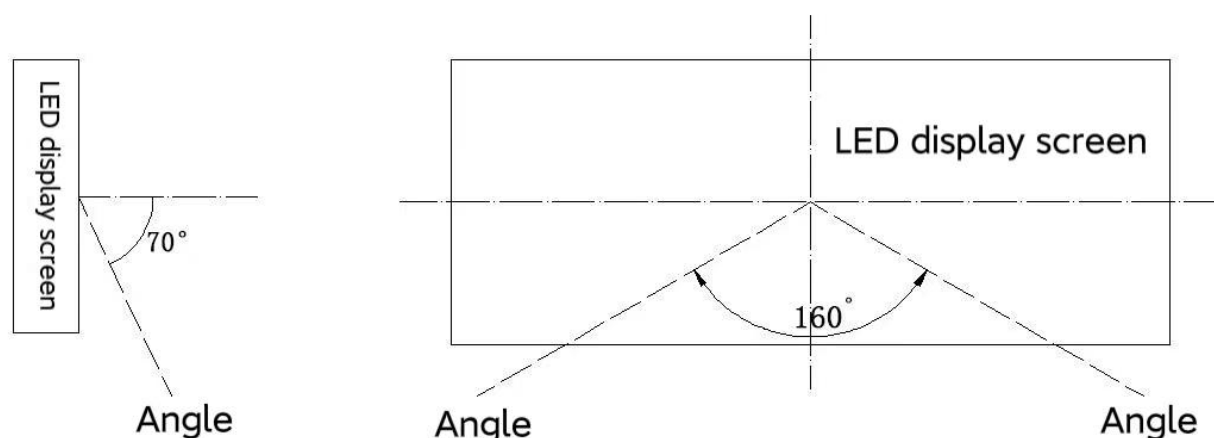
Screen acceptance requirements and methods

Display brightness acceptance

Adjust the display to full brightness, and use the brightness meter to measure the brightness of the display within 5 minutes. When measuring the brightness, the optical axis of the luminance meter is required to be perpendicular to the screen body. Adjust the distance between the luminance meter and the display screen, make sure that the black dots or circles in the eyepiece of the luminance meter cover more than 16 pixels, adjust the focal length so that the LED light beads can be clearly seen in the eyepiece, and then measure and read the luminance data.

Visual angle acceptance

As shown in the figure below, it is viewed at 160° left and right of the screen and 70° from the lower viewing angle of the display. There is no obvious black spot or obvious dark block phenomenon on the screen.



Ground check

The shell box and display frame of the power supply must be well grounded, and the grounding resistance is required to be less than or equal to 10 Ω and check the grounding resistance every six months.

Lightning protection facility inspection

The LED display screen is required to be reliably grounded, the power distribution box is required to be equipped with a surge protector, and the lightning protection facilities are checked every six months. Avoid using the display during thunderstorms.

Anti-burn-in operation requirements

Standard operation

When the entire screen is powered off, connect the signal cable and power cable, check that the connection is good, and then connect it to the entire screen. If it is found that the display is not good, the whole screen will be powered off immediately, and the wiring will be rectified and then the whole screen will be powered on for inspection.

Installation operation with electricity

When we need installation operation with electricity, it must be operated in the following order: first connect the signal input cable, then connect the signal output cable, and finally connect the module power plug. The modules must be installed and debugged one by one, and it is not allowed to continuously install multiple modules with abnormal display and then debug.

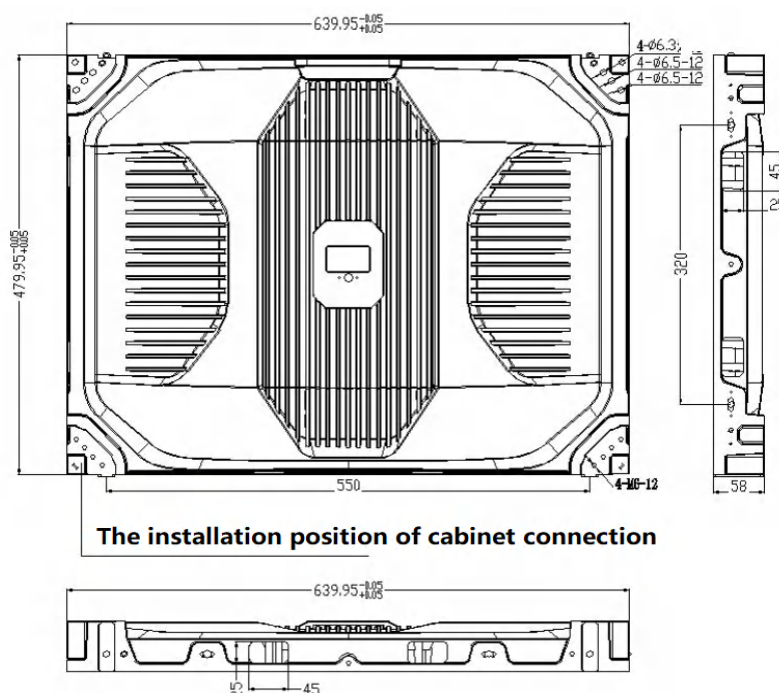
The display is abnormal when we are using screen

When the user finds that the display is abnormal during use, especially if the entire line is highlighted, immediately after the whole screen is powered off, repair it in order to avoid long-term power supply in this case.

Installation cabinet

This cabinet is a magnesium-aluminum alloy box independently designed by our company. It is formed by a mold. It has the advantages of light weight, reasonable structure, high precision, good heat dissipation effect, and basically seamless splicing. The power supply and receiving card inside the box are installed and removed from the front, which can realize full front maintenance of the box. The upper, lower, left and right connection of the cabinet body adopts a quick locking mechanism, which is easy to install. The modules are adsorbed on the box body through the magnetic column, and each box body is adsorbed 2x3 modules.

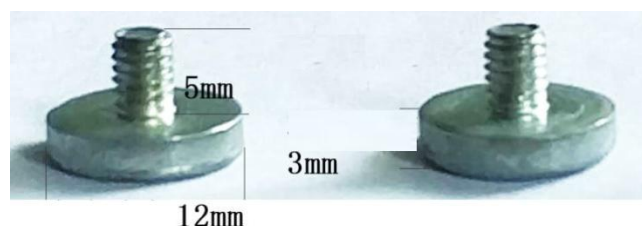
The dimension of cabinet installation



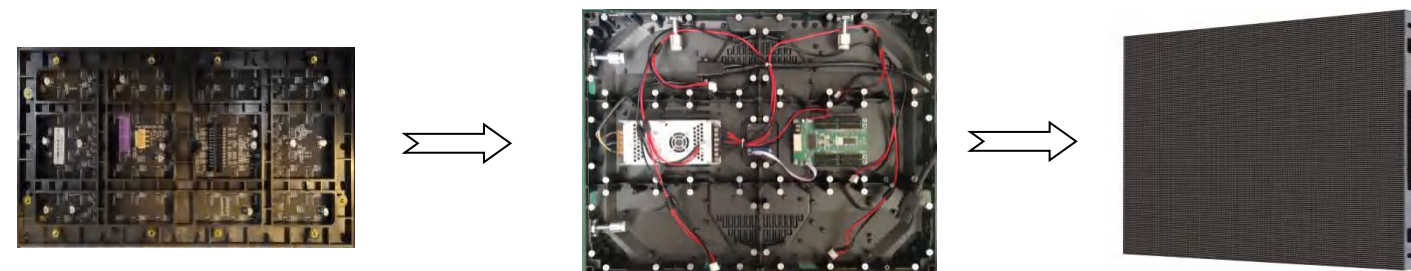
The installation position of cabinet connection

Cabinet installation

The M4 magnetic column installed on the back of the module is aligned with the magnetic positioning column of the box, and the module is adsorbed on the box. Pay attention to the splicing gap and meet the flatness requirements. Shipped in the form of a box, the specifications and models of the magnetic column screwed to the module are: the diameter of the chassis is 12mm, the height of the magnetic column is 3mm, and the length of the thread is 5mm, as shown in the following figure:



Assemble the modules, supporting cables, power cables, and receiving cards into a box, as shown in the following figure:



Cabinet installation

First, use 40x40 square steel to build the steel frame structure, and use a level to adjust the steel frame structure to the level (the flatness within the horizontal length of 7m is within $\pm 1\text{mm}$); use a plumb bob to measure the verticality of the column to ensure that the front end of the steel frame is All square steel faces are on the same plane.

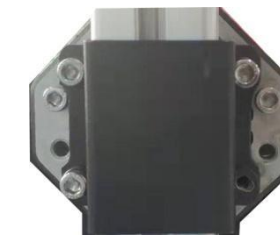
Splicing the box with the 0 degree box connecting piece, place the first box from the middle of the steel frame structure, the connecting piece is close to the steel frame structure, fasten the square steel connecting piece to install the box, and use M6*20 bolts to fasten the box body. Lock with the connecting piece, and then place the boxes one by one on both sides. The boxes are positioned by positioning pins, and locked with a quick locking mechanism to ensure that the gap between adjacent boxes is $\leq 0.13\text{mm}$ until the first layer of boxes is fixed. Installed. And so on to complete the installation of the remaining cabinets.



Clips of cabinet



Clips of structure



After fixed



Fixed cabinet and structure together

Cabinet Signal/Power Connections

The power supply of the box needs to use the specially equipped 3x2.5mm² FV-LOCK plug power cord, which is connected in series. The number of boxes connected in series is recommended not to exceed 15.

The signal connection of the box body adopts the specially equipped stp single-shielded super five signal line, and the number of the box body connected in series does not exceed the maximum load point of the single network port of the sending card divided by 129792 (rounded).

Bestart Dmx Subcontroller system Characteristics

1. Controller' s output support standard USITT DMX512/1990 Universal Protocol and expand DMX512 Protocol.
2. Three-primary-color independent brightness control, which realize simple, effective and accurate adjustment of white balance.
3. Precise gamma correction algorithm. It better conforms to the visual photographic characteristics of the human body, and the display color is more sufficient and rich, so as to perfectly reflect the animation or video effects of the designer.
4. Support 120-frame frequency maximum, to guarantee demands for HD display and 3D display of the image;
5. Adopt Ethernet interface and UDP network protocol, to guarantee stable transmission, the maximum transmission distance is 100m.
6. LCD display module, to timely display the controller parameters and state.
7. Dual-network interface, which can realize cascade connection between controllers and automatic inspection of the controller, and the connection status is displayed intuitively through the software.
8. 8-port output, single port output is standard 512-channel, expand protocol load points by client basis chip characteristics self-testing.
9. Support dual-way backup, the display will not be influenced if a controller is broken or the network cable is disconnected.
10. Can set self-adapting 1000M / 100M or forced 100M, to guarantee stability of large project.

Design concept

1. 1000M / 100M optional: adapt to different project schemes.
2. Two-way redundancy of the system signal, doubled stability.
3. Four-color independent algorithm: energy-saving, environmental-friendly and with pure color;
4. Integrated synchronous and asynchronous control, online in priority, automatic switching to the offline effect without online signal, to realize video source backup.
5. Large independent development and design video edition, playing and wiring design software: stronger adaptability, more languages supporting and higher openness. It is used in various shaped screens, multiple screens, building screen, pixel light screen and other complicated applications at home and abroad.
6. Support IP group function, and adopt switch parallel connection scheme reduce system-level cascade chain length, and improve stability
7. Support optical fiber transmission after conversion of optical fiber module; Support wireless network transmission, wireless bridge connection and Internet remote control.
8. The system supports automatic, timed and holiday preset playing.
9. Support mainstream 32-bit and 64-bit operating systems: windows2000, windowsXP, windows7, windows8 and so on.

Expansibility

1. Synchronous and asynchronous play of contents of video and image files of multiple formats.
2. Can install all Windows operating systems and support languages of various countries.
3. The player software is reserved with sufficient interfaces, so as to be compatible with other international general protocols, and support the personalized design demands of the customers.

Ports of Bestart DMX controller

Controller front view



Controller rear view



- ①: power switch ②: LCD display ③: power / communication indicator lamp
④: work indicator lamp ⑤⑥: self-adapting network interface ⑦: output port
⑧: power interface

Controller basic parameters table

Input power supply : AC100V to 240V

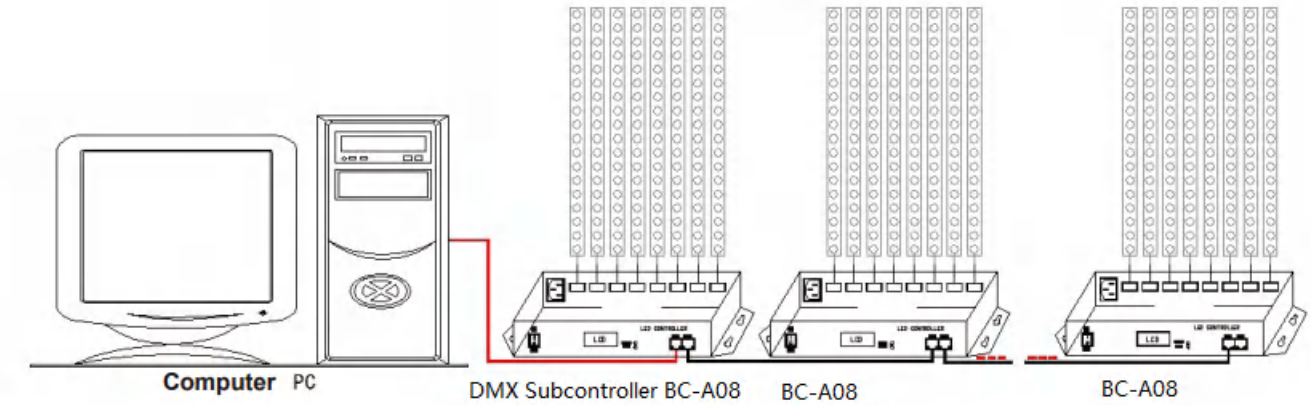
Maximum power: 15W

Length *Width* Heigh: 28.6cm *13.6cm*4.35cm

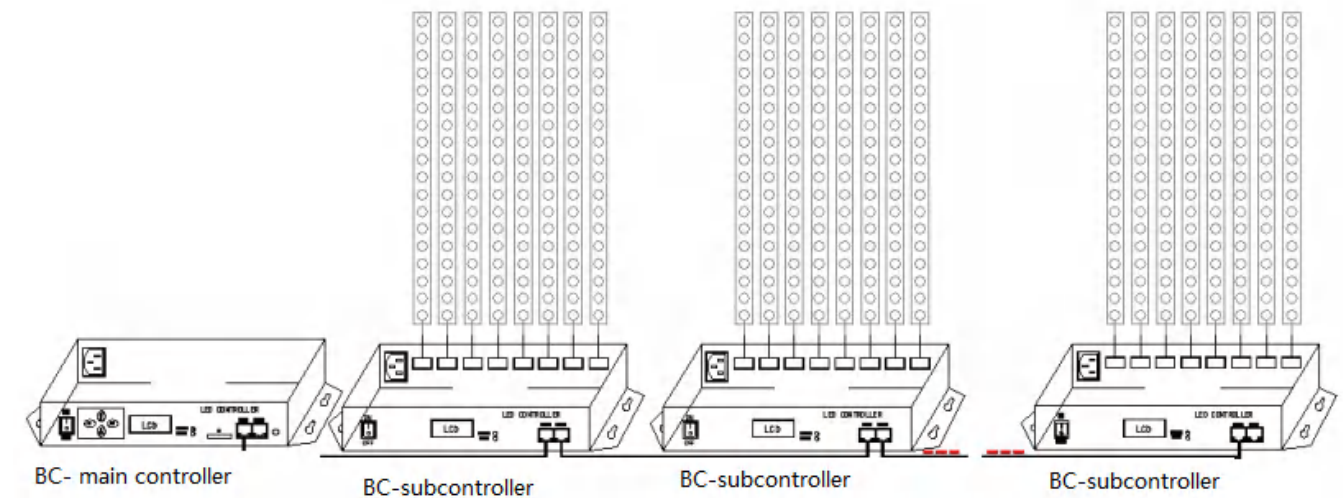
Spacing of fixing holes : 26.8cm; 6.8cm

Controller connection

- I. Online mode (connected with the computer)
Directly connected with the computer network port:



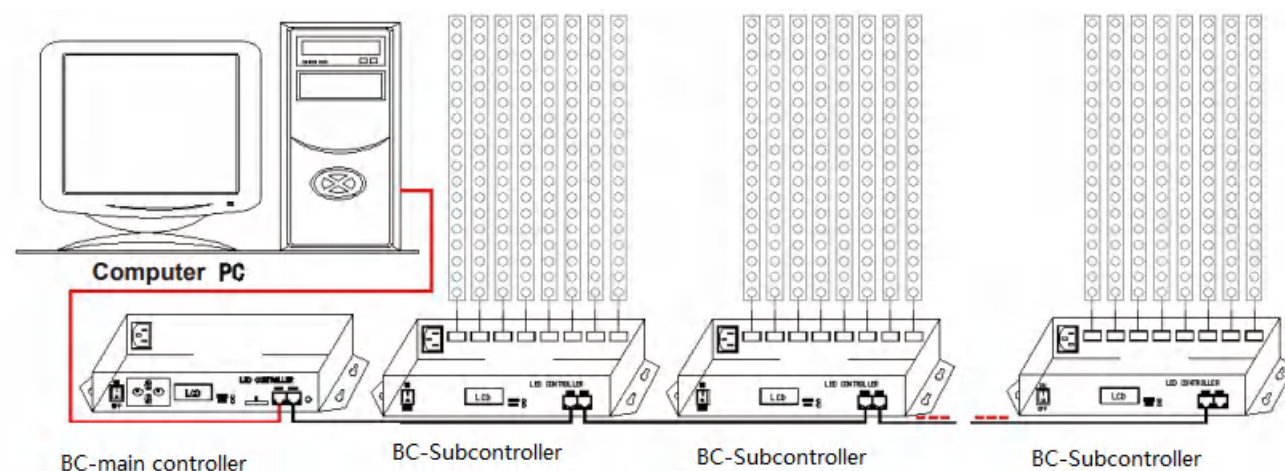
- II. Offline mode
Connected with the offline main control:



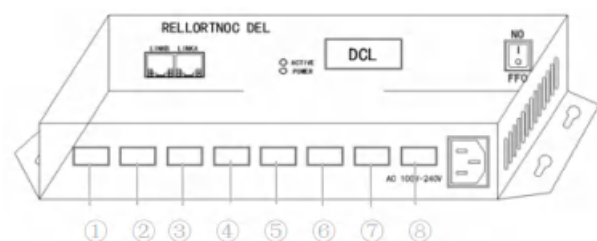
Controller connection

III. Integrated synchronous and asynchronous mode

Connected with the computer and offline master controller (when the mode is selected, the computer on-line works in priority, and the offline effect is automatically switched to without online signal)



III. Output interface sequence



Output interface is 8 × 3P interfaces, 1 to 8 respectively (as picture shown)

3P terminal from left to right, single in sequence

Bestart Controller	1	2	3
Signal output	Grand GND	Data+ A	Data - B

Attention matters

Network cable sequence

568B: orange-white orange green-white blue blue-white green brown-white brown

568A: green-white green orange-white blue blue-white orange brown-white brown

The crossover cable shall be adopted among the controller, offline master controller and switch, i.e., an end is 568B and the other end is 568A. The straight line shall be adopted as the network cable between any equipment and computer above, i.e., both ends are 568B and 568A. Do not customize the straight line sequence.

Wire and connection method between the lamps and the controller

1. If the distance between the controller output port and the lamps is too far, it is suggested to adopt 485 special cable or over UTP shielded cable for connection, and the best connection method is: orange-A, orange-B, other can be connected to GND
2. At the end of each signal that is between A and B to add a terminal resistance of 120R
3. Do not use two wires wound to receive the signal simultaneously, for example, connect green and green-white to A+ or B-.