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CHZ-LIGHTING

OUTDOOR LIGHTING

(2021-2022)

Creative Lighting, Healthy Living



SHANGHAI CHZ LIGHTING CO.,LTD., established in 2010, is a high-tech enterprise engaged in the R&D of LED lighting products. Our headquarter lies in Jiading of Shanghai, adjacent to Hongqiao Airport and Railway Station, and many high-speeds and subways are within easy reach. After years of rapid development, the company has established three production bases in Shanghai, Hangzhou and Ningbo of Zhejiang, with a total plant area of 20,000m<sup>2</sup> and an annual output of more than 100,000 sets of outdoor lamps.

CHZ adheres to the target of "leading technology and leading quality", and established a joint R&D center with Fudan University's Electric Light Source Institute to continuously develop new products. The products have covered office lighting, industrial lighting, flood lighting, stadium lighting, road lighting, and solar lighting. Meanwhile, microwave and infrared induction, 0-10V/PWM and DALI dimming and WIFI, ZIGBEE, DMX512, Bluetooth and 5G technology are organically combined to provide customers with a complete set of intelligent lighting solutions.

In terms of product quality, CHZ has always adhered to high standards, and has successfully passed ISO9001, ISO14001 and ISO45001 system certifications. Meanwhile, CHZ LIGHTING products have obtained ENEC/CE/CB/CCC and other certifications. Our products have been exported to more than 70 countries around the world. We always adhere to market-oriented development, and constantly develop new products to meet the actual needs of customers. We successively set up branches and warehouse in Spain, Argentina, Nigeria and USA, to realize the rapid goods distribution and improve the ability of lighting design, solution guide and after-sales service.

### **Quality policy (ISO9001):**

Continuous improvement, casting first-class quality; focusing on customers, providing first-class service.

### **Environmental policy (ISO14001):**

1. Resolutely abide by the requirements of various national and local laws and regulations;
2. Every product design and every process design will prevent pollution as much as possible and continue to improve it;
3. Every employee and every supplier will work together to manufacture "green and energy-saving" lighting products;

### **Occupational safety (ISO45001):**

1. Employee safety: Actively carry out three-level safety education and training for employees, hold regular fire safety training, first aid knowledge training, etc.;
2. Production safety: implement national safety production regulations, fully implement the safety production responsibility system; improve the occupational health management;
3. Accommodation safety: dormitories are equipped with fire extinguishers, public areas are equipped with first aid kits, and medicines are regularly refilled;



## Company Information



Shanghai Headquarter



Europe Company



Spain Warehouse



Marketing Department



R&D Department



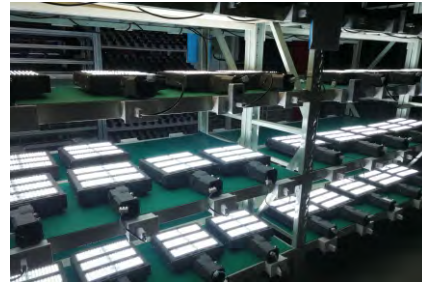
Training Meeting



Assembling Line



Testing Line



Old Aging



Outdoor Development



Argentina Team



Nigeria Team



Spain Team

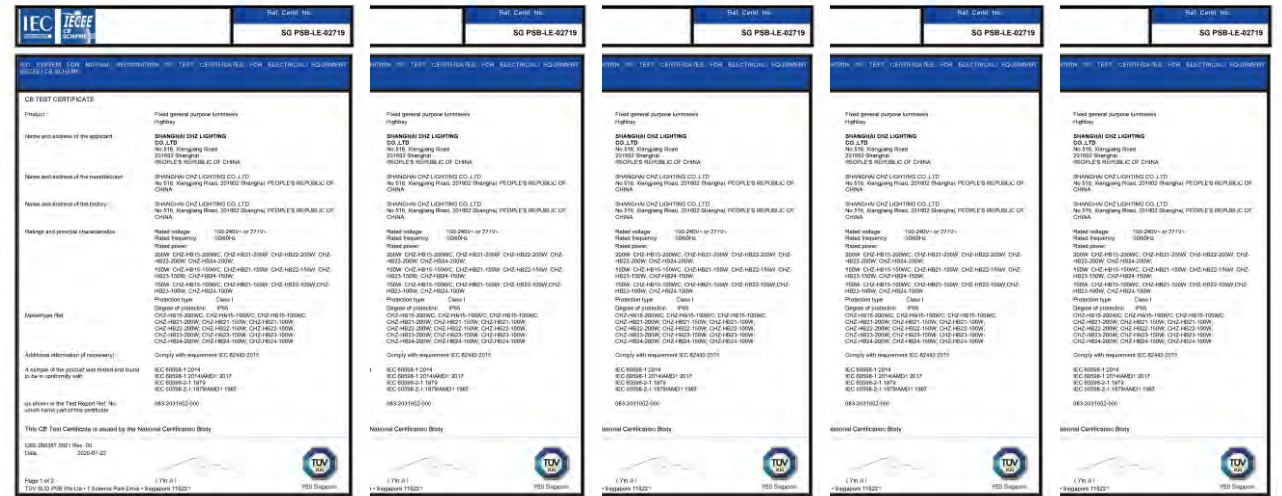


Spain Team

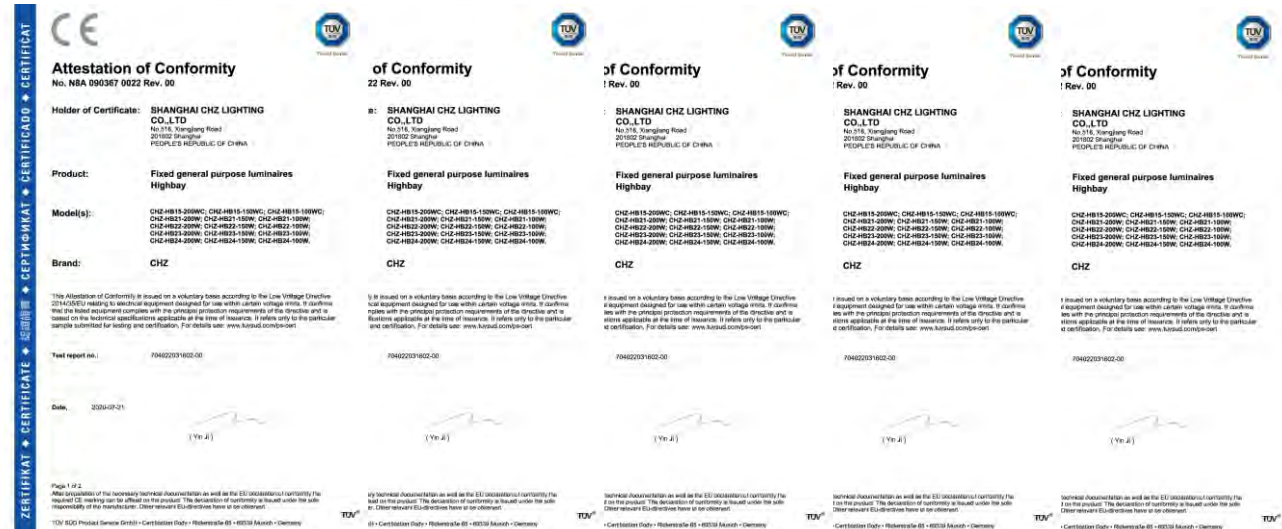


Shareholder Dinner

## Awards & Qualification



CB Certification



TUV Certification



ENEC Certification



# 01

## Flood Light



# 02

## Stadium light



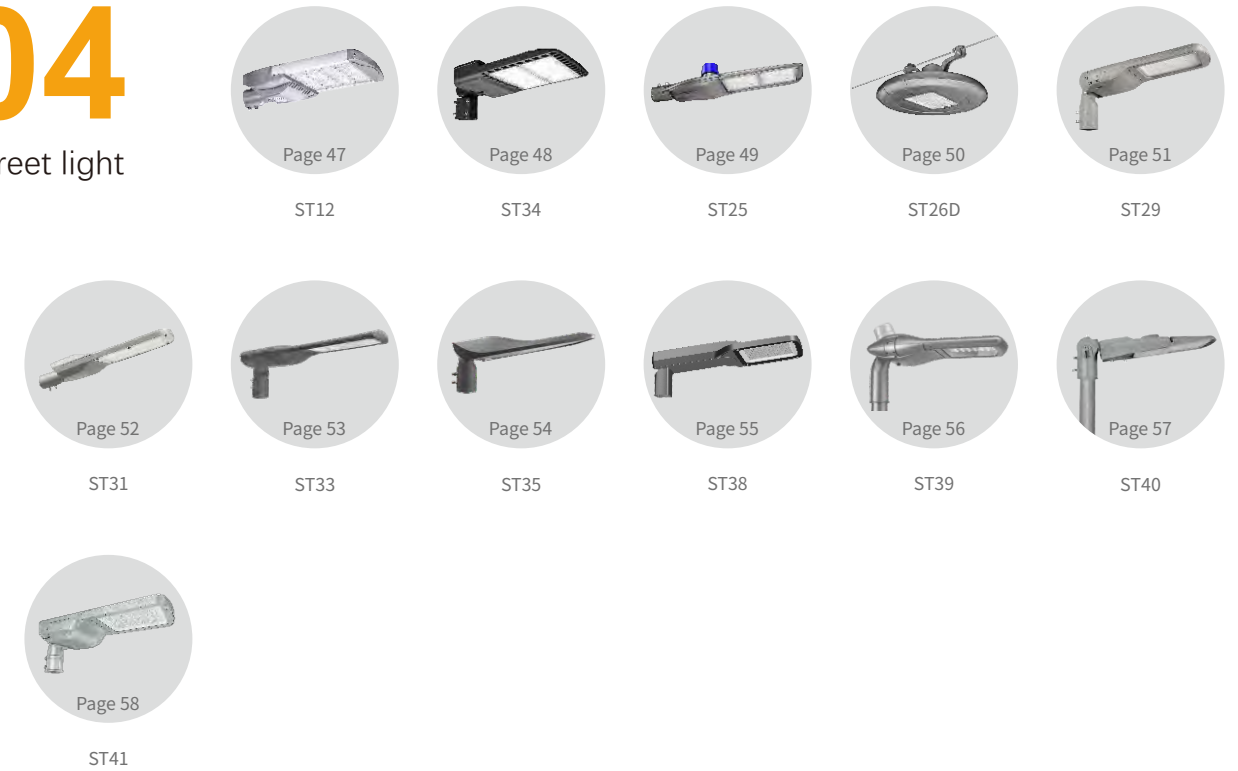
# 03

## Garden light



# 04

## Street light



# 05

## Solar light

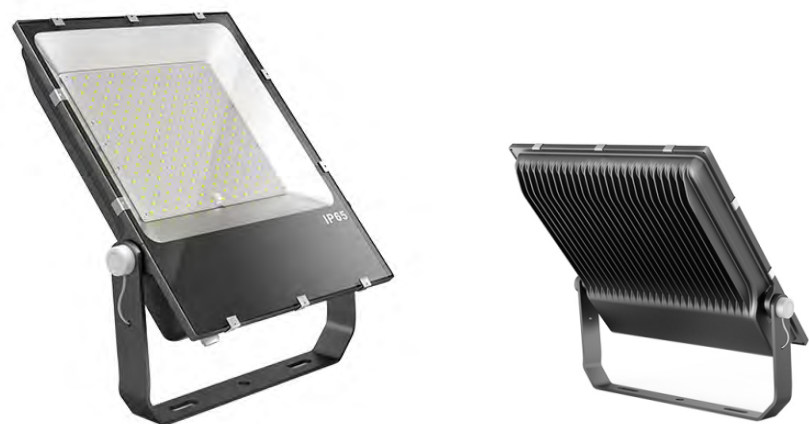




## FLOOD LIGHTING

6W-500W





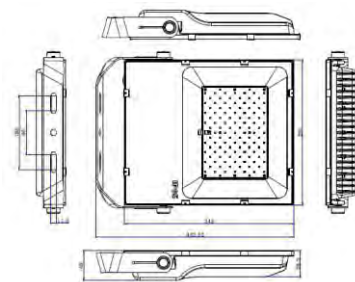
## FL13 Slim Series

### Product Features:

- A. High quality LED light source and the constant current driver , high luminous efficiency;
- B. Slim light body design, elegant appearance, the drag coefficient is small;
- C. Emitting area, fast heat dissipation, even soft light, low glare;
- D. Overall service life of over 50,000 hours, low maintenance cost;
- E. Compared to conventional lamps, saving more than 50%, widely used to replace traditional lamps.

### Applications:

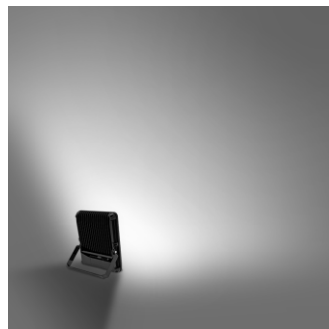
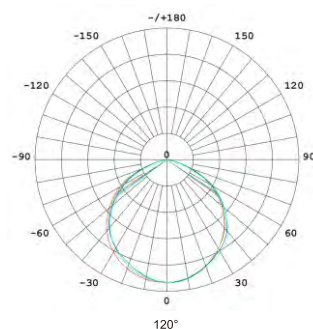
Suitable for parking places billboards, stadiums (football, basketball and tennis), you are building facade, airport and Bridge.



CHZ-FL13-100W

### Technical Parameters:

Model No.	Power (W)	LED type	LED's (pcs)	Input Volt (V)	PF	Lumen (LM/W)	Beam Angle	CCT	IP	Size(mm)		
										L	W	H
FL13-30W	30	SMD3030	30	100-277	>0.95	>130	120°	3000-6500K	IP65	227	167	45
FL13-50W	50	SMD3030	50	100-277	>0.95	>130	120°	3000-6500K	IP65	310	220	50
FL13-80W	80	SMD3030	80	100-277	>0.95	>130	120°	3000-6500K	IP65	354	245	55
FL13-100W	100	SMD3030	100	100-277	>0.95	>130	120°	3000-6500K	IP65	402	295	60
FL13-150W	150	SMD3030	150	100-277	>0.95	>130	120°	3000-6500K	IP65	430	330	60
FL13-200W	200	SMD3030	240	100-277	>0.95	>130	120°	3000-6500K	IP65	470	360	60



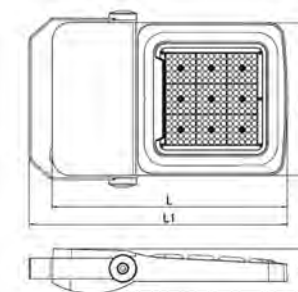
## FL27 Series

### Product Feature:

- A. High quality SMD3030 chips and driver, stable performance and high efficiency ;
- B. Slim light body design, elegant appearance, and low wind resistance.
- C. Emitting area, fast heat dissipation, even soft light, low glare;
- D. Overall service life of over 50,000 hours, low maintenance cost;
- E. Compared to conventional lamps, saving more than 50%, widely used to replace traditional lamps.

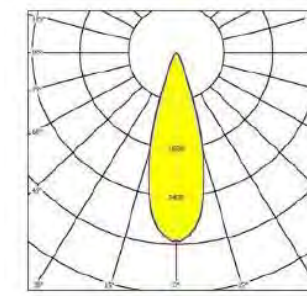
### Applications:

Widely used in shopping malls, exhibition halls, parking lots, sports fields, stadiums, billboards, parks, sculptures and etc.

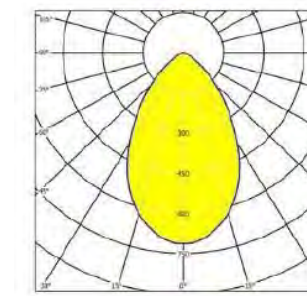


### Technical Parameter:

Model No.	Power (W)	LED type	LED's (pcs)	Input Volt (V)	PF	Lumen (LM/W)	Beam Angle	CCT	IP	Size(mm)			
										L	L1	W1	H1
FL27-50Wmi	50	SMD3030	96	100-277	>0.95	>130	30°/60°	3000-6500K	IP66	290	325	185	50
FL27-80Wmi	80	SMD3030	96	100-277	>0.95	>130		3000-6500K	IP66	290	325	185	50
FL27-100WS	100	SMD3030	144	100-277	>0.95	>130		3000-6500K	IP66	385	420	250	65
FL27-150WS	150	SMD3030	216	100-277	>0.95	>130		3000-6500K	IP66	385	420	250	65
FL27-200WM	200	SMD3030	256	100-277	>0.95	>130		3000-6500K	IP66	450	505	300	65
FL27-300WM	300	SMD3030	384	100-277	>0.95	>130		3000-6500K	IP66	450	505	300	65
FL27-400WL	400	SMD3030	576	100-277	>0.95	>130		3000-6500K	IP66	570	630	450	85
FL27-500WL	500	SMD3030	864	100-277	>0.95	>130		3000-6500K	IP66	570	630	450	85



30°



60°





## FL27A Series

### Product Feature:

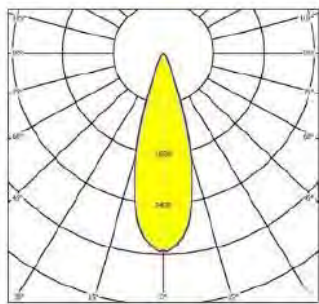
- A. High quality SMD3030 chips and driver, stable performance and high efficiency;
- B. Slim light body design, elegant appearance, and low wind resistance.
- C. Emitting area, fast heat dissipation, even soft light, low glare;
- D. Overall service life of over 50,000 hours, low maintenance cost;
- E. Compared to conventional lamps, saving more than 50%, widely used to replace traditional lamps.

### Applications:

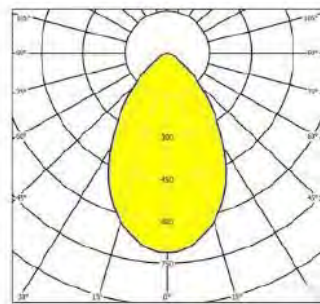
Widely used in shopping malls, exhibition halls, parking lots, sports fields, stadiums, billboards, parks, sculptures and etc.

### Technical Parameter:

Model No.	Power (W)	LED type	LED's (pcs)	Input Volt (V)	PF	Lumen (LM/W)	Beam Angle	CCT	IP	Size(mm)		
										L	W	H
FL27A-100WS	100	SMD3030	192	100-277	>0.95	>140	30°/60°	3000-6500K	IP66	330	410	78
FL27A-120WS	120	SMD3030	192	100-277	>0.95	>140	30°/60°	3000-6500K	IP66	330	410	78
FL27A-150WS	150	SMD3030	192	100-277	>0.95	>140	30°/60°	3000-6500K	IP66	330	410	78
FL27A-200WM	200	SMD3030	384	100-277	>0.95	>140	30°/60°	3000-6500K	IP66	431	525	79
FL27A-250WM	250	SMD3030	384	100-277	>0.95	>140	30°/60°	3000-6500K	IP66	431	525	79
FL27A-300WM	300	SMD3030	384	100-277	>0.95	>140	30°/60°	3000-6500K	IP66	431	525	79
FL27A-400WL	400	SMD3030	960	100-277	>0.95	>140	30°/60°	3000-6500K	IP66	567	643	79
FL27A-500WL	500	SMD3030	960	100-277	>0.95	>140	30°/60°	3000-6500K	IP66	567	643	79



30°



60°



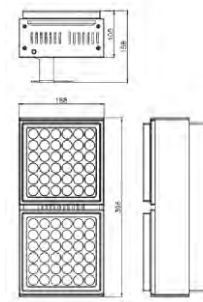
## FL30A Spot Series

### Product Features:

- 1. Fluid mechanics design, exquisite and beautiful lamp shape.
- 2. Full structural waterproof design without glue, protection grade IP66.
- 3. Die-casting aluminum lamp body, SUS304 stainless steel screws, surface electrostatic spraying, strong corrosion resistance.
- 4. Configure OSRAM-3535 high-quality chips to reach excellent light and color performance.
- 5. High light-transmittance optics can effectively improve the efficiency. Anti-glare shading plate is optional.
- 6. Monochrome(R/G/B/W) or full Color(RGBW) optional, support DMX512 control system.

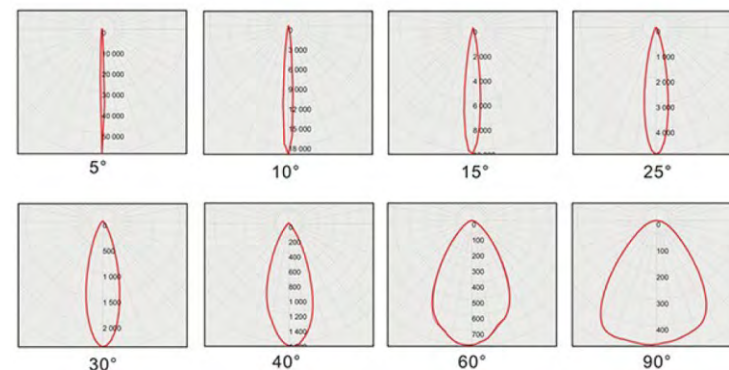
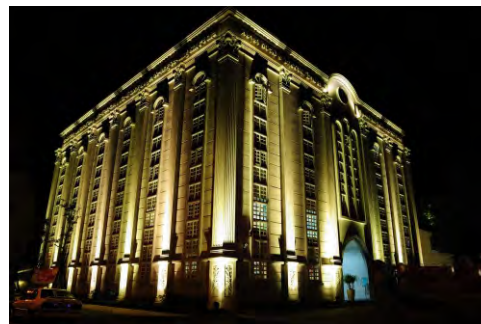
### Applications:

Widely used in shopping malls, exhibition halls, parking lots, bridge, billboards, parks, sculptures and etc.



### Technical Parameters:

Model No.	Power (W)	LED type	LED's (pcs)	Module (pcs)	Input Volt (V)	Control	Color	Beam Angle	IP	Size(mm)		
										L	W	H
FL30A-36W	36	OSRAM3535	18	1	DC24V AC220V	DMX512 ON-OFF	RGBW R/G/B/W	5°/10° 15°/25° 30°/40° 60°/80°	IP66	145	145	160
FL30A-72W	72	OSRAM3535	36	1					IP66	188	188	140
FL30-144W	144	OSRAM3535	72	2					IP66	386	188	140
FL30-216W	216	OSRAM3535	108	3					IP66	588	188	140
FL30-432W	432	OSRAM3535	216	6					IP66	588	376	140



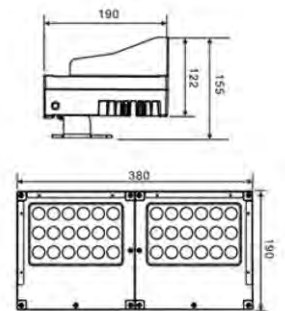




## ❖ FL30B Spot Series

### Product Features:

1. Fluid mechanics design, exquisite and beautiful lamp shape.
2. Full structural waterproof design without glue, protection grade IP66.
3. Die-casting aluminum lamp body, SUS304 stainless steel screws, surface electrostatic spraying, strong corrosion resistance.
4. Configure OSRAM-3535 high-quality chips to reach excellent light and color performance.
5. High light-transmittance optics can effectively improve the efficiency. Anti-glare shading plate is optional.
6. Monochrome(R/G/B/W) or full Color(RGBW) optional, support DMX512 control system.

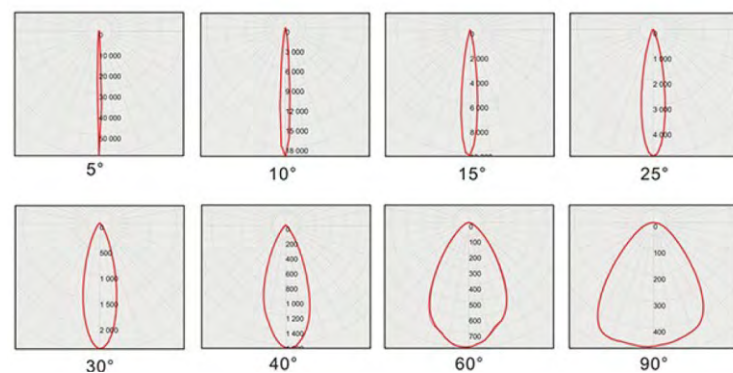


### Applications:

Widely used in shopping malls, exhibition halls, parking lots, bridge, billboards, parks, sculptures and etc.

### Technical Parameters:

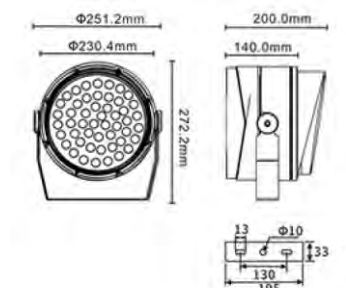
Model No.	Power (W)	LED type	LED's (pcs)	Module (pcs)	Input Volt (V)	Control	Color	Beam Angle	IP	Size(mm)		
										L	W	H
FL30B-12W	12	OSRAM3535	6	1	DC24V AC220V	DMX512 ON-OFF	RGBW R/G/B/W	5°/10° 15°/25° 30°/40° 60°/80°	IP66	120	120	100
FL30B-24W	24	OSRAM3535	12	1					IP66	160	160	80
FL30B-48W	48	OSRAM3535	24	1					IP66	190	190	139
FL30B-96W	96	OSRAM3535	48	2					IP66	380	190	155
FL30B-144W	144	OSRAM3535	72	3					IP66	570	190	170
FL30B-288W	288	OSRAM3535	144	6					IP66	570	380	290



## ❖ FL30C Spot Series

### Product Features:

1. Fluid mechanics design, exquisite and beautiful lamp shape.
2. Full structural waterproof design without glue, protection grade IP66.
3. Die-casting aluminum lamp body, SUS304 stainless steel screws, surface electrostatic spraying, strong corrosion resistance.
4. Configure OSRAM-3030 high-quality chips to reach excellent light and color performance.
5. High light-transmittance optics can effectively improve the efficiency. Anti-glare shading plate is optional.



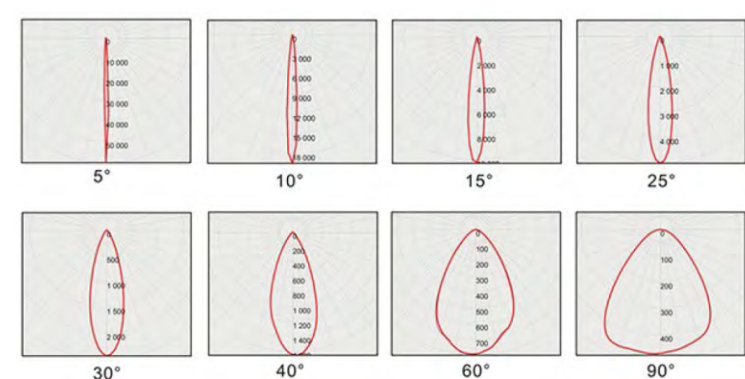
50W

### Applications:

Widely used in shopping malls, exhibition halls, parking lots, bridge, billboards, parks, sculptures and etc.

### Technical Parameters:

Model No.	Power (W)	LED type	LED's (pcs)	Module (pcs)	Input Volt (V)	Control	Color	Beam Angle	IP	Size(mm)	
										D	H
FL30C-6W	6	OSRAM3030	3	1	AC220V /DC24V	ON-OFF	Single (R/G/B/W)	5°/10° 15°/25° 30°/40° 60°/80°	IP66	93	100
FL30C-12W	12	OSRAM3030	12	1	AC220V /DC24V	ON-OFF			IP66	145	127
FL30C-18W	18	OSRAM3030	18	1	AC220V /DC24V	ON-OFF			IP66	177	214
FL30C-24W	24	OSRAM3030	24	1	AC220V /DC24V	ON-OFF			IP66	198	227
FL30C-36W	36	OSRAM3030	36	1	AC220V /DC24V	ON-OFF			IP66	219	168
FL30C-50W	50	OSRAM3030	50	1	AC220V	ON-OFF			IP66	251	272



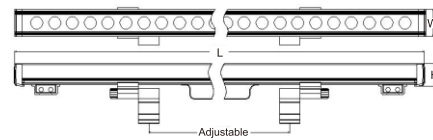




## FL37 Series

### Product Features:

- A. Integrated heat dissipation structure, fast heat conduction, fully guaranteeing LED heat dissipation requirements, lower light decay rate, reliable quality and longer life.
- B. Full-structure sealed and waterproof design, special high-elastic silicone sealing material, sealing ring adopts imported anti-aging rubber material, and IP degree can reach IP67.
- C. Use high-quality profile (6063) lamp body, surface anodize oxidation sealing glaze treatment, impact-resistant high-strength tempered glass, to ensure its appearance as bright as new.
- D. The mounting bracket can adjust the projection angle according to the site conditions, so that the LED luminous angle is more accurate and the light color is fuller.
- E. Professional optical design with high-efficiency optical lens, the light transmittance up to 90%, various light distribution angles can be customized, the colors are more realistic.

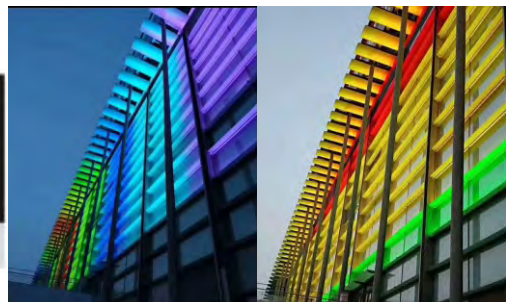
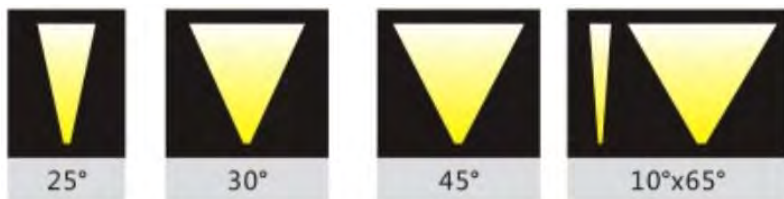


### Applications:

Widely used in riverside scenery belts, museums, exhibition halls, urban leisure square bridges and other buildings to render the atmosphere and increase the visual effect.

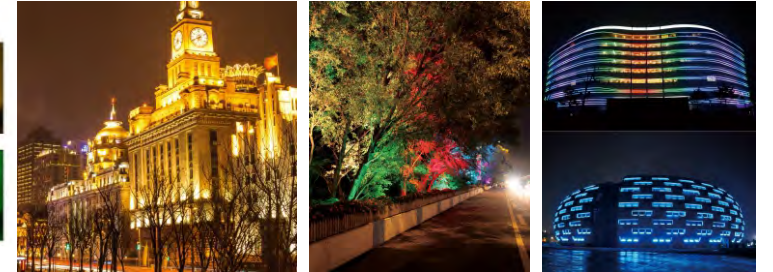
### Technical Parameters:

Model No.	Power	Input Voltage	Color	LED Type	LED QTY	S/P	Beam Angle	IP	Size(mm)		
									L	W	H
FL37-300	6W	24VDC (DMX512)	R/G/B/W	SMD 3030	6	3S2P	20° /30° /45° 10°x65°	IP67	300	33	25
FL37-500	12W			SMD 3030	12	3S4P		IP67	500	33	25
FL37-1000	24W			SMD 3030	24	3S8P		IP67	1000	33	25
FL37-300	6W	24VDC (DMX512)	RGB	SMD 3030	6	3S2P	10°x65°	IP67	300	33	25
FL37-500	9W			SMD 3030	9	3S3P		IP67	500	33	25
FL37-1000	18W			SMD 3030	18	6S3P		IP67	1000	33	25
FL37-300	9W	24VDC (DMX512)	RGBW	SMD 3030	6	3S2P		IP67	300	33	25
FL37-500	12W			SMD 3030	9	3S3P		IP67	500	33	25
FL37-1000	24W			SMD 3030	18	6S3P		IP67	1000	33	25

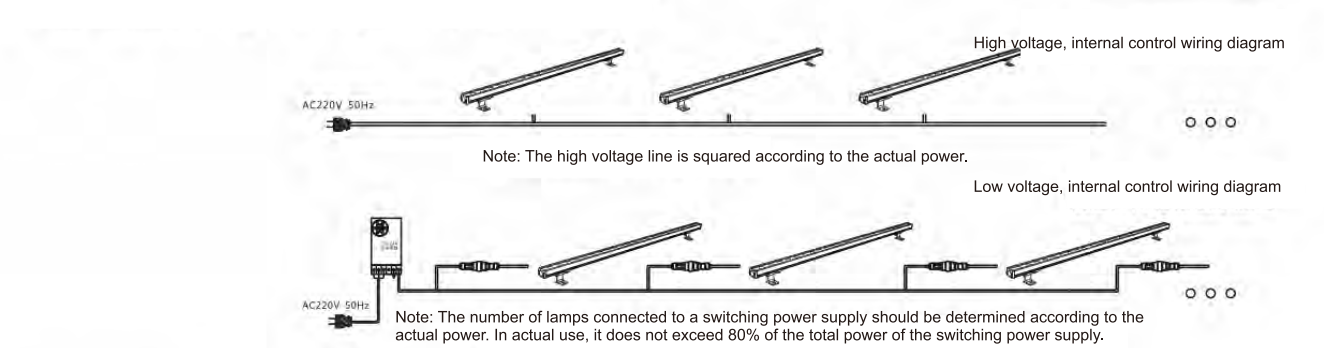


## Single Color & RGB/RGBW DMX512 Control

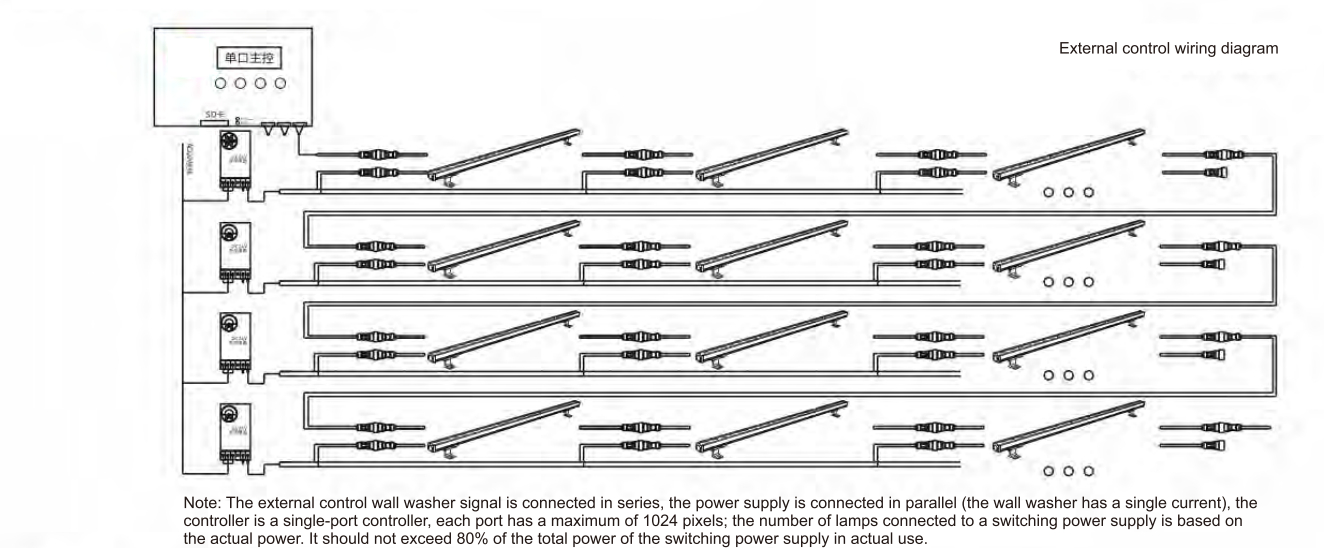
### Luminous color



### Drawing of the single color project



### Drawing of RGB project



### Installation Notes

1. First fix the luminaire with the screw in the place where it can be installed and fixed, and fix it firmly;
2. Lamps and lamps, lamps and power lines, signal lines should be reliably connected, and unused wire ends should be waterproofed;
3. Confirm that the entire electrical system is installed correctly and then access the corresponding power supply;
4. If there is a problem during the installation process, please consult our technical staff.

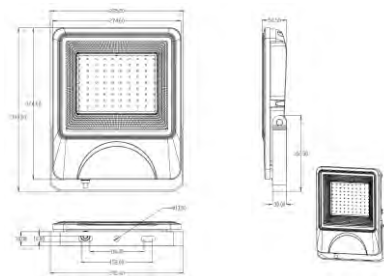




## ❖ FL33 RGB Series

### Product Feature:

- A. The lamp design is small and beautiful.
- B. Made of high-purity aluminum die-casting, the structure is tight and firm, and the heat dissipation performance is good; the waterproof level reaches IP66.
- C. Using high-quality SMD2835 color lamp beads with brilliant colors, RGB color changes can be achieved according to customer requirements, including gradual change mode, beating mode, etc., and can be remotely controlled by 2.4G.
- D. Using high-quality constant current drive, stable performance and long life.

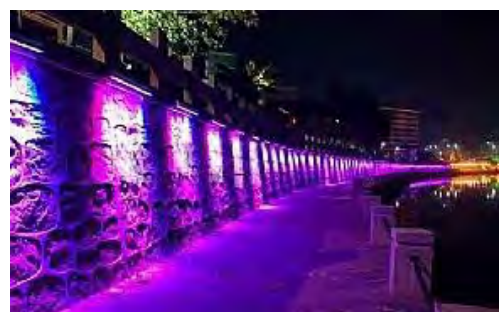
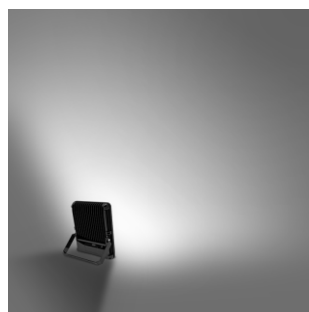
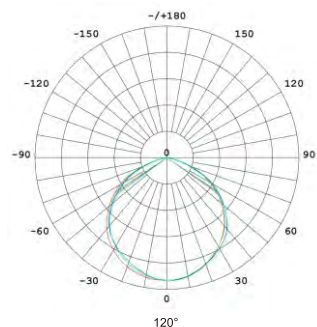


### Applications:

Widely used in residential areas, sculptures, bridges, green belts, buildings, theaters and dance halls and other indoor and outdoor places.

### Technical Parameter:

Model No.	Power (W)	LED type	LED's (pcs)	Input Volt (V)	PF	Beam Angle	Color	Control	IP	Size(mm)		
										L	W	H
FL33-10W	10W	SMD2835	18	100-240	>0.55	120°	RGB	2.4G RF	IP66	150	107	44
FL33-20W	20W	SMD2835	36	100-240	>0.55	120°	RGB	2.4G RF	IP66	223	146	44
FL33-30W	30W	SMD2835	60	100-240	>0.55	120°	RGB	2.4G RF	IP66	260	184	47
FL33-50W	50W	SMD2835	90	100-240	>0.55	120°	RGB	2.4G RF	IP66	330	240	48
FL33-100W	100W	SMD2835	180	100-240	>0.55	120°	RGB	2.4G RF	IP66	350	285	53



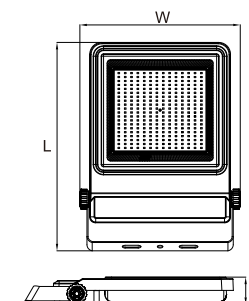
## ❖ FL39 Motion Series

### Product Feature:

- A. High quality SMD2835 chips and driver, with higher efficiency.
- B. Slim light body design, elegant appearance, the drag coefficient is small.
- C. Emitting area, fast heat dissipation, even soft light with lower glare.
- D. Regular, 1-10V/0-0V/PMW, or DALI dimmable driver for option.
- E. Motion sensor is available from 10W to 100W, can save more energy.

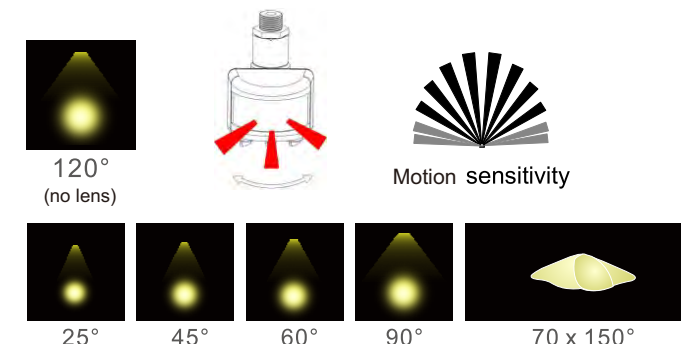
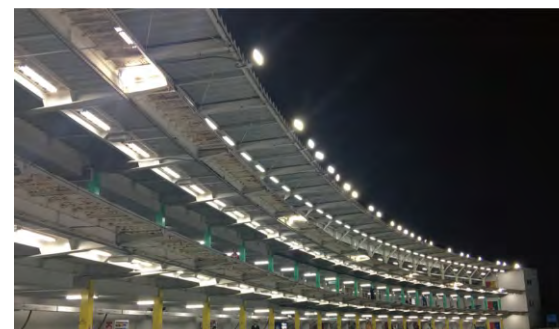
### Applications:

Widely used in shopping malls, exhibition halls, parking lots, sports fields, stadiums, billboards, parks, sculptures and etc.



### Technical Parameter:

Model No.	Power (W)	LED*	Input Volt (V)	PF	Lumen (LM/W)	Bean angle	Motion Sensor	CCT	IP	IK	Size(mm)		
											L	W	H
FL39-10W	10	OSRAM2835	100-277	>0.90	>150 (no lens)	120° (no lens)	Available	3000-6500K	IP66	IK08	159	127	44
FL39-20W	20	OSRAM2835	100-277	>0.90			Available	3000-6500K	IP66	IK08	188	147	44
FL39-30W	30	OSRAM2835	100-277	>0.90			Available	3000-6500K	IP66	IK08	242	193	46
FL39-50W	50	OSRAM2835	100-277	>0.95	>140@lens >150@no lens	120°@no lens 25°/45°/60°/90° /150x70°@lens	Available	3000-6500K	IP66	IK08	293	237	47
FL39-100W	100	OSRAM2835	100-277	>0.95			Available	3000-6500K	IP66	IK08	343	280	55
FL39-150W	150	OSRAM2835	100-277	>0.95			NO	3000-6500K	IP66	IK08	424	320	61
FL39-200W	200	OSRAM2835	100-277	>0.95	>140@lens >150@no lens	120°@no lens 25°/45°/60°/90° /150x70°@lens	NO	3000-6500K	IP66	IK08	476	366	63
FL39-250W	250	OSRAM2835	100-277	>0.95			NO	3000-6500K	IP66	IK08	569	406	69
FL39-300W	300	OSRAM2835	100-277	>0.95			NO	3000-6500K	IP66	IK08	569	406	69





Microwave Motion Control



Max.16M

Zero-crossing point operation

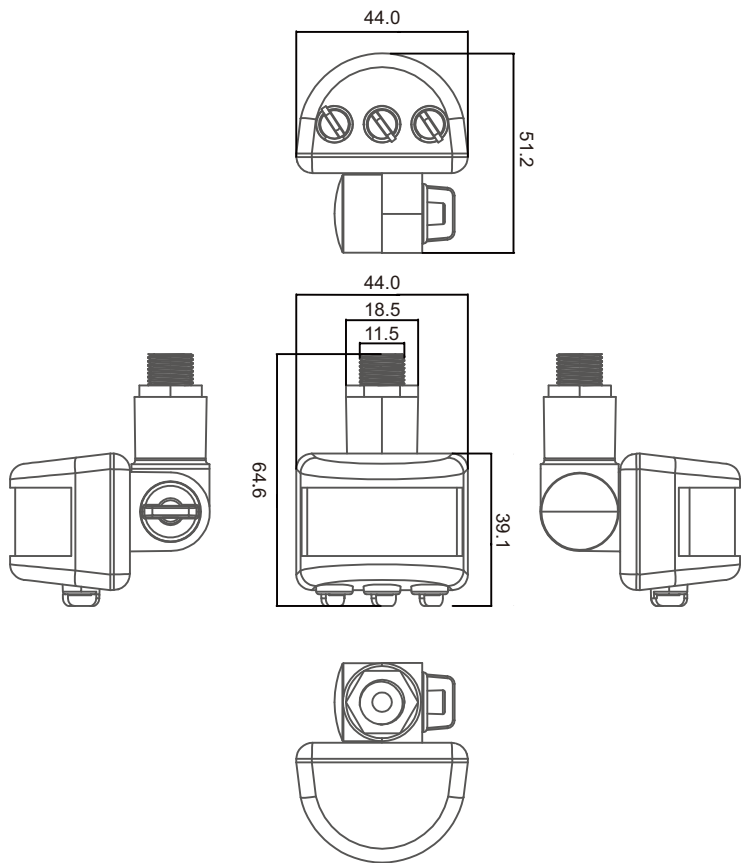
Light Sensor

Hold Time 10s~7min

Mounting Height 2.5m Max

Automatic On/Off

3 Years Guarantee



Specification	
Power Source	200 -240V/AC
Detection Range	180°
Power Frequency	50/60Hz
Working Temperature	-20~+40℃
Ambient Light	10-2000LX (adjustable)
Working Humidity	<93%RH
Time-Delay	10sec±3sec
Installation Height	1.8m~2.5m
Hold time	10s~7min
Power Consumption	<0.9W
Rated Load	100W (max)
Detection Motion Speed	0.6~1.5m/s
Detection Distance	2-16m@24℃(adjustable)

On-off Function

MC032S is an innovative motion sensor, switch on the light on detection of movement, and switch off after a hold time when there is no motion detected. As built-in daylight sensor can read brightness value, the sensor does not switch on the light if with sufficient natural light.

1

With sufficient light, the lamp doesn't switch on.

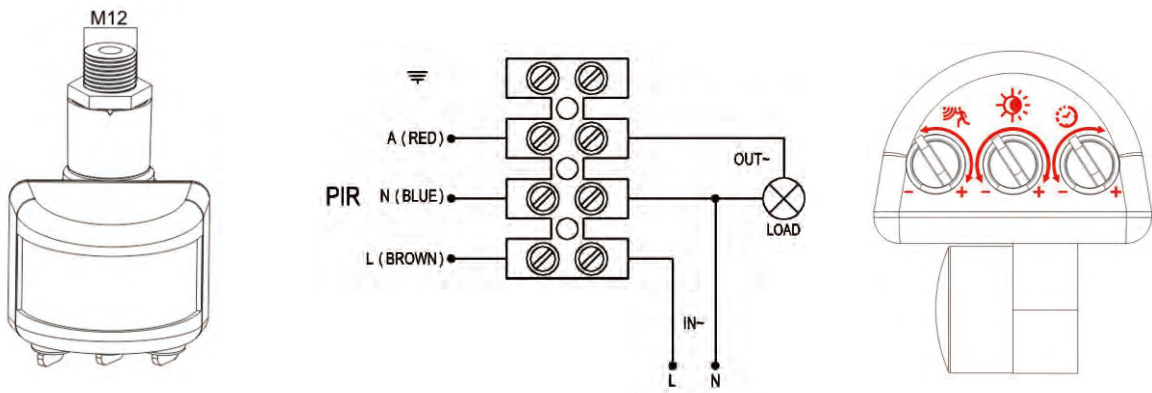
2

With insufficient ambient light, the sensor switches on the lamp when motion is detected.

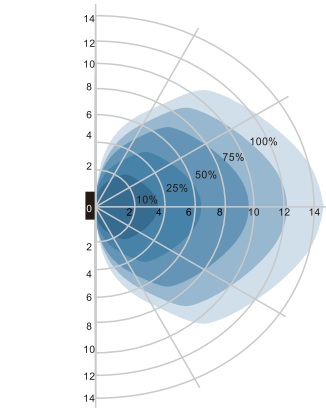
3

After hold time, the sensor switches off the lamp when no motion is detected.

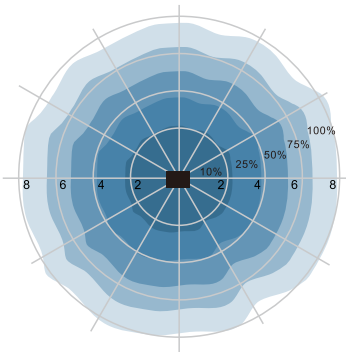
Wiring Scheme



Detection Pattern



Wall mounting pattern (Unit: m)  
Suggested installation height: 1-1.8m



Ceiling mounting pattern (Unit: m)  
Suggested installation height: 2.5-6m



# STADIUM LIGHTING

150W-1500W

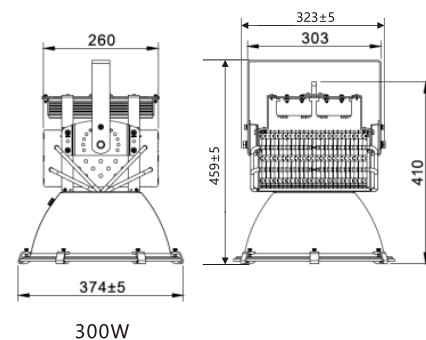




## ❖ FL08 Series

### Product Features:

- A. Using high-quality LED light source and the constant current drive, high efficiency, stable performance;
- B. Fins plus innovative heat pipe cooling method, and the whole smoky, fast heat dissipation;
- C. Overall design fashion texture, angle adjustable bracket, irradiation range, distance;
- D. Degree of protection up to IP66, suitable for outdoor harsh environments, a wide range of applications;
- E. Whole lifetime of 50,000 hours, more than 50% energy saving compared to HID, low maintenance costs;

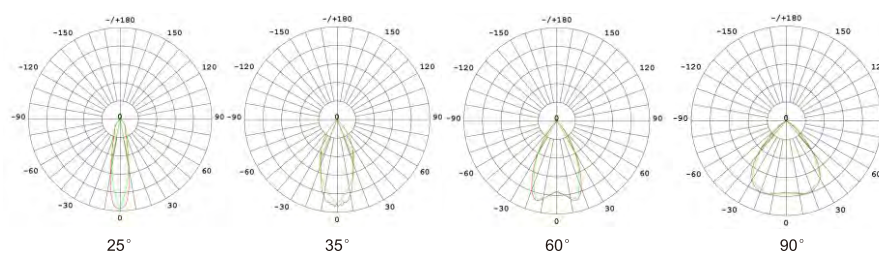


### Applications:

widely used in exhibition centers, large warehouses, factories, stadiums, building facades, bridges, cranes and other large space lighting.

### Technical Parameters:

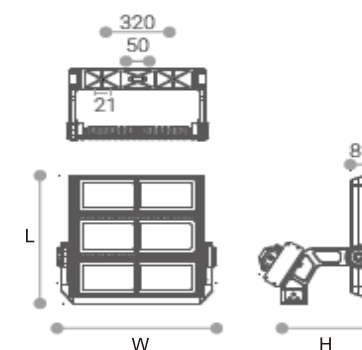
Model No.	Power (W)	LED type	Input Volt (V)	PF	Lumen (LM/W)	Beam Angle	CCT (K)	IP	Size(mm)	
									D	H
FL08-100W	100	SMD3030	100-277	>0.95	>110	25°/45° /60°/90°	3000-6500	IP65	375	470
FL08-150W	150	SMD3030	100-277	>0.95	>110		3000-6500	IP65	375	470
FL08-200W	200	SMD3030	100-277	>0.95	>110		3000-6500	IP65	375	470
FL08-300W	300	SMD3030	100-277	>0.95	>110		5500-6500	IP65	375	470
FL08-400W	400	SMD3030	100-277	>0.95	>110		3000-6500	IP65	375	500
FL08-500W	500	SMD3030	100-277	>0.95	>110		3000-6500	IP65	375	500



## ❖ FL21 Series

### Product Features:

- A. Adjustable projecting direction to get precious aiming
- B. Beam angle 50° ,60° , 90° , TYPE II,TYPE III,TYPE IV,TYPE V for option, deliver precise circular pattern into center of sports lighting field from corner high mast, which offers solution especially for soccer/hockey/football field.
- C. Use ultra-high brightness Philips3030 chips which can be up to 145LM/W.
- D. Each module can be angle adjustable flexibly, so it can be used for more applications.
- E. Stainless steel wireguard is designed to protect the fixture from hitting by high-speed objects.
- F. With 10KV surge protection and stainless steel chain for further protection on request.

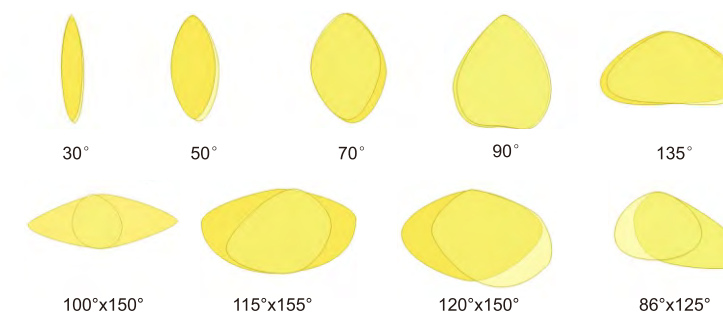


### Applications:

Widely used in large space lighting places exhibition center, large warehouses, soccer or football field, indoor stadiums and etc.

### Technical Parameters:

Model No.	Power (W)	LED type	LED's (PCS)	S&P	Input Volt (V)	PF	CRI	Lumen (LM/W)	Beam Angle	CCT (K)	IP degree	Size (mm)		
												L	W	H
FL21-150W	150	SMD3030	2x99	9S11P	220~240	0.95	70	>145	50° /60° /90° TYPE II TYPE III TYPE IV TYPE V	3000-6500K	IP66	341	286	185
FL21-220W	220	SMD3030	3x99	9S11P	220~240	0.95	70	>145		3000-6500K	IP66	346	380	227
FL21-300W	300	SMD3030	4x99	9S11P	220~240	0.95	70	>145		3000-6500K	IP66	613	286	185
FL21-450W	450	SMD3030	6x99	9S11P	220~240	0.95	70	>145		3000-6500K	IP66	618	384	227
FL21-600W	600	SMD3030	8x99	9S11P	220~240	0.95	70	>145		3000-6500K	IP66	646	553	233







## ❖ FL21A Series

### Product Features:

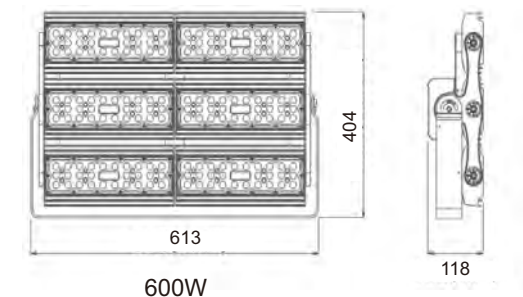
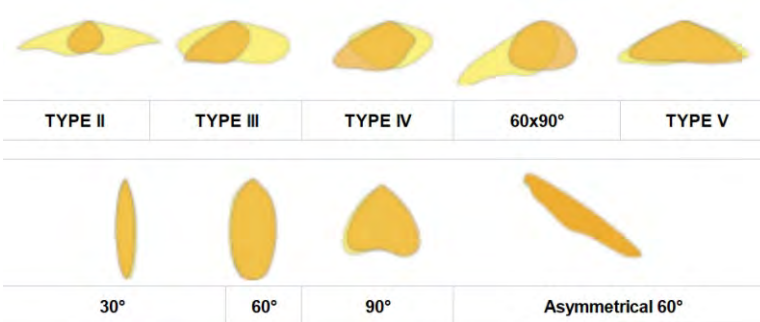
- A. Adjustable projecting direction;
- B. With die-casting ADC-12 material, the new Agility flood light has a superb heat dissipation and long lifespan;
- C. VDE/UL listed 3\*1.0mm² rubber cable with cold-pressed terminal;
- D. Wide range of lumen output package from 11,000lm up to 130,500lm, 50% less power consumption than traditional light;
- E. The combinations of different drivers, mounting brackets, modules and baffles allow the quickly assembly at customers' request;
- F. With different LED chips for option, SMD3030/ SMD5050/ SMD3737, to reach various optic system, such 30°/60°/90°/Asy60°, TYPE II/ III / IV/ V to match with different applications.

### Applications:

Widely used for big areas like square, warehouse, workshop, shelf, supermarket, seaport, indoor or outdoor stadium field and etc.

### Technical Parameters:

Model No.	Power (W)	LED type	S&P	Input Volt (V)	PF	CRI	Lumen (LM/W)	Beam Angle	CCT (K)	IP/IK	Size (mm)		
											L	W	H
FL21A-100W	100	SMD3030 SMD5050 SMD3737 for option	9S11P@SMD3030 2S14P@SMD5050 18S2P@SMD3737	100~277	0.95	70	>120LM/W @SMD3030 >145LM/W @SMD5050 >120LM/W @SMD3737	30° /60° /90° /60x90° TYPE II TYPE III TYPE IV TYPE V @SMD3030 @SMD5050; Asymmetric60° @SMD3737	4000-6500K	IP66/IK08	298	145	94
FL21A-200W	200			100~277	0.95	70			4000-6500K	IP66/IK08	326	277	118
FL21A-300W	300			100~277	0.95	70			4000-6500K	IP66/IK08	326	402	118
FL21A-400W	400			100~277	0.95	70			4000-6500K	IP66/IK08	613	279	118
FL21A-480W	480			100~277	0.95	70			4000-6500K	IP66/IK08	613	279	118
FL21A-600W	600			100~277	0.95	70			4000-6500K	IP66/IK08	613	404	118
FL21A-800W	800			100~277	0.95	70			4000-6500K	IP66/IK08	613	535	156
FL21A-900W	900			100~277	0.95	70			4000-6500K	IP66/IK08	896	405	156



## ❖ FL22 Series

### Product Features:

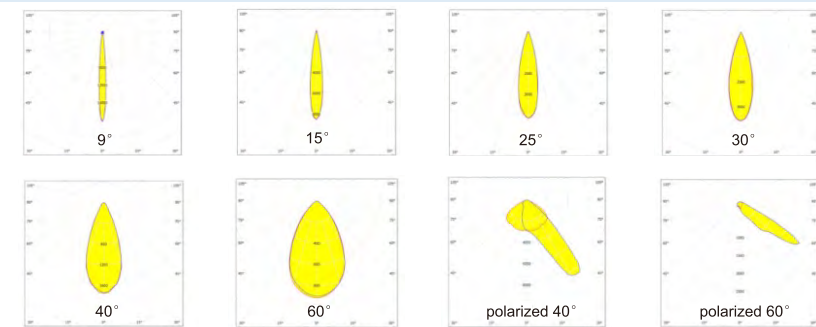
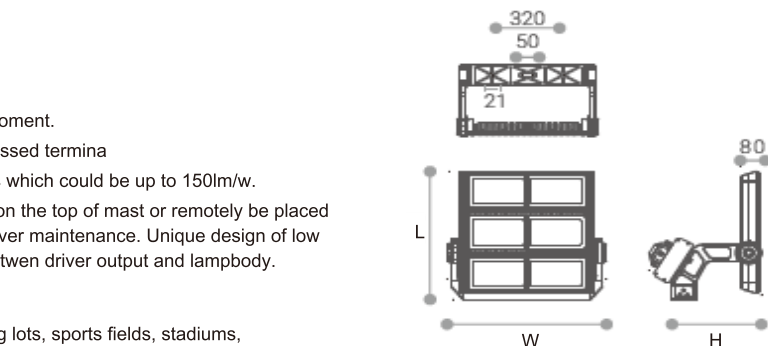
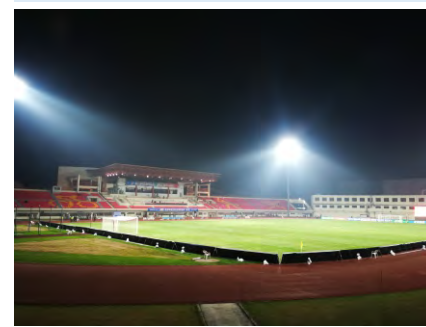
- A. Adjustable projecting direction.
- B. Instant on/off; no UV and flickering, good for eyes.
- C. Precision designed optics to suit all applications.
- D. Ideal CRI value for high-definition broadcasting environment.
- E. VDE/UL listed 3\*1.0mm² rubber cable with cold-pressed terminal.
- F. Use ultra-high brightness OSRAM or PHILIPS chips which could be up to 150lm/w.
- G. External driver box can either sit behind lampbody on the top of mast or remotely be placed at the bottom of mast for easy access of wiring and driver maintenance. Unique design of low current reduces the line loss and allow 30m distance between driver output and lampbody.

### Applications:

Widely used in shopping malls, exhibition halls, parking lots, sports fields, stadiums, billboards, parks, sculptures and etc.

### Technical Parameters:

Model No.	Power (W)	LED type	Input Volt (V)	PF	CRI	Lumen (LM/W)	Beam Angle	CCT	IP degree	Size (mm)		
										L	W	H
FL22-600W	600	SMD3737	100-277	>0.95	70	>120	Symmetric 9° /15°/25°/40°	4000K 5000K 5700K	IP66	390	636	448
FL22-900W	900	SMD3737	100-277	>0.95	70	>120			IP66	575	636	448
FL22-1200W	1200	SMD3737	100-277	>0.95	70	>120			IP66	760	636	448
FL22-1500W	1500	SMD3737	100-277	>0.95	70	>120			IP66	948	636	448
FL22-600W	600	SMD5050	100-277	>0.95	70	>150	Symmetric 30° /60°	4000K 5000K 5700K	IP66	390	636	448
FL22-900W	900	SMD5050	100-277	>0.95	70	>150			IP66	575	636	448
FL22-1200W	1200	SMD5050	100-277	>0.95	70	>150			IP66	760	636	448
FL22-1500W	1500	SMD5050	100-277	>0.95	70	>150			IP66	948	636	448



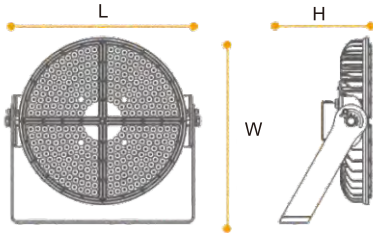




## ❖ FL23 Series

### Product Features:

- A. Adjustable projecting direction.
- B. Instant on/off; no UV and flickering, good for eyes.
- C. Precision designed optics to suit all applications.
- D. Ideal CRI value for high-definition broadcsting enviroment.
- E. VDE/UL listed 3\*1.0mm2 rubber cable with cold-pressed termina
- F. Use ultra-high brightness Samsung chips which could up to 140lm/w.l.
- G. One-piece formed aluminum heatsink utilizes cutting edge forging technic to assist the superb heat management at most along with weight reduction for easy installation. The reinforced bracket and arms are designed and tested in accordance with strict standard which allows the product to withstand a violent storm.

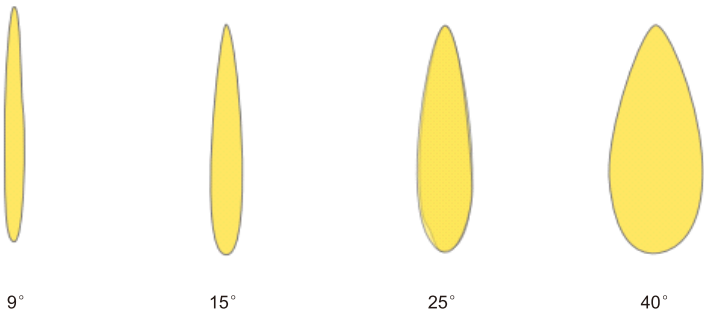


### Applications:

Widely used in large space lighting places exhibition center, large warehouses, soccer or football field, indoor stadiums and etc.

### Technical Parameters:

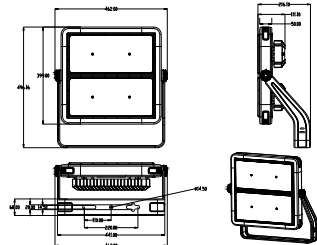
Model No.	Power (W)	LED type	Input Volt (V)	PF	CRI	Lumen (LM/W)	Beam Angle	CCT	IP degree	Size (mm)		
										L	W	H
FL23-450W	450	SMD3737	100-277	>0.95	70	>140	9°/15°/25°/40°	4000K 5000K 5700K	IP66	532	514	233
FL23-600W	600	SMD3737	100-277	>0.95	70	>140	9°/15°/25°/40°		IP66	532	510	251
FL23-800W	800	SMD3737	100-277	>0.95	70	>140	9°/15°/25°/40°		IP66	534	506	272
FL23-1000W	1000	SMD3737	100-277	>0.95	70	>140	9°/15°/25°/40°		IP66	534	511	294



## ❖ FL32 Series

### Product Features:

- A. Very innovative design style, realize the assembly of 1 to 5 modules, the assembly and maintenance process is simple.
- B. The radiator is made of 6063 aviation aluminum material with good heat dissipation effect.
- C. The module can be rotated from 0 to 180 °, and the irradiation angle can be adjusted at will.
- D. Special spray treatment on the surface of the lamp, strong resistance to salt spray corrosion, suitable for harsh environments.
- E. Adapt to high-quality SMD3737 or SMD3030 lamp beads, and high-quality constant current drive, stable performance and long life; the overall protection level reaches IP66.
- F. Adopt high transmittance PC lens, 10 ° / 25 ° / 40 ° / 60 ° / 90 ° and other light distribution angles are optional, suitable for different application scenarios.



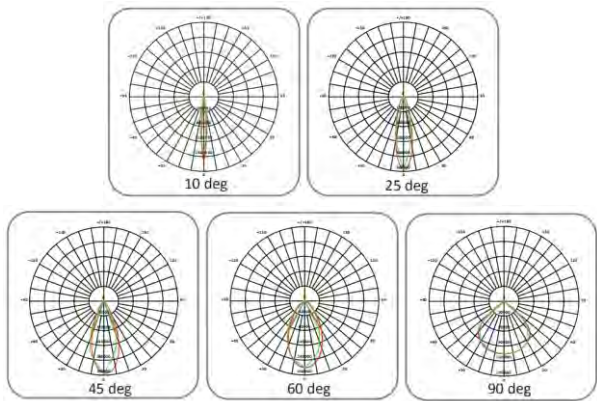
500W

### Applications:

Widely used in large space lighting places exhibition center, large warehouses, soccer or football field, indoor stadiums and etc.

### Technical Parameters:

Model No.	Power (W)	LED type	LED's (PCS)	Input Volt (V)	PF	CRI	Lumen (LM/W)	Beam Angle	CCT	IP degree	Size (mm)		
											L	W	H
FL32-250W	250	SMD3737	126	100-277	>0.95	70	>160	10°	3000-6500K	IP66	462	283	172
FL32-500W	500	SMD3737	252	100-277	>0.95	70	>160		3000-6500K	IP66	462	496	216
FL32-750W	750	SMD3737	378	100-277	>0.95	70	>160		3000-6500K	IP66	462	677	216
FL32-1000W	1000	SMD3737	504	100-277	>0.95	70	>160		3000-6500K	IP66	462	854	216
FL32-1250W	1250	SMD3737	630	100-277	>0.95	70	>160	25°/45° /60°/90°	3000-6500K	IP66	462	1072	216
FL32-250W	250	SMD3030	336	100-277	>0.95	70	>140		3000-6500K	IP66	462	283	172
FL32-500W	500	SMD3030	672	100-277	>0.95	70	>140		3000-6500K	IP66	462	496	216
FL32-750W	750	SMD3030	1008	100-277	>0.95	70	>140		3000-6500K	IP66	462	677	216
FL32-1000W	1000	SMD3030	1344	100-277	>0.95	70	>140		3000-6500K	IP66	462	854	216
FL32-1250W	1250	SMD3030	1680	100-277	>0.95	70	>140		3000-6500K	IP66	462	1072	216







### ❖ FL34 Series

**Product Features:**

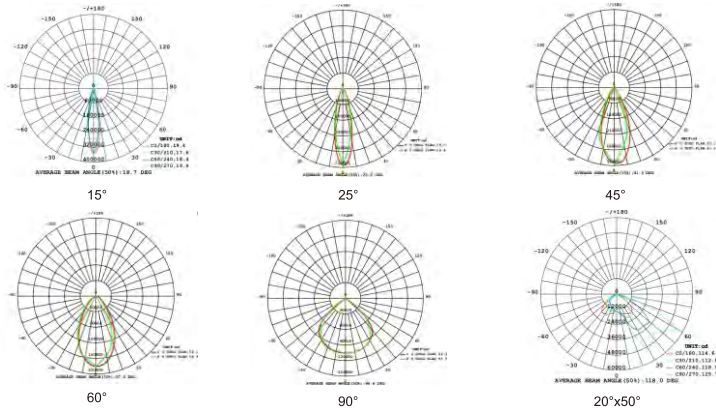
- A. Taking 6063 aluminum profile heat dissipation technology, modular design.
- B. Using special technology optical lens, strong UV resistance, light transmittance of more than 94%.
- C. Using high-quality Philips 3030 LED light source chip, the overall lighting effect reaches 140LM / W; and high-quality constant current drive, stable and reliable performance, long life.
- D. Adopt double waterproof design, protection grade of the whole lamp reaches IP66, and the safety performance is good.
- E. Professional light distribution with 15 ° / 30 ° / 45 ° / 60 ° / 90 ° and ect, multi-angle optional.

**Applications:**

Widely used in large space lighting places exhibition center, large warehouses, soccer or football field, indoor stadiums and etc.

**Technical Parameters:**

Model No.	Power (W)	LED type	LED's (PCS)	Input Volt (V)	PF	CRI	Lumen (LM/W)	Beam Angle	CCT	IP degree	Size (mm)		
											L	W	H
FL34-200W	200	SMD3030	336	100-277	>0.95	70	>140	15°/30° /45°/60° /90°	3000-6500K	IP66	311	383	97
FL34-250W	250	SMD3030	420	100-277	>0.95	70	>140		3000-6500K	IP66	311	459	97
FL34-300W	300	SMD3030	504	100-277	>0.95	70	>140		3000-6500K	IP66	311	539	97
FL34-400W	400	SMD3030	672	100-277	>0.95	70	>140	15°/30° /45°/60° /90°	3000-6500K	IP66	571	388	107
FL34-500W	500	SMD3030	840	100-277	>0.95	70	>140		3000-6500K	IP66	571	461	107
FL34-600W	600	SMD3030	1008	100-277	>0.95	70	>140		3000-6500K	IP66	571	529	107



### ❖ FL35 Series

**Product Features:**

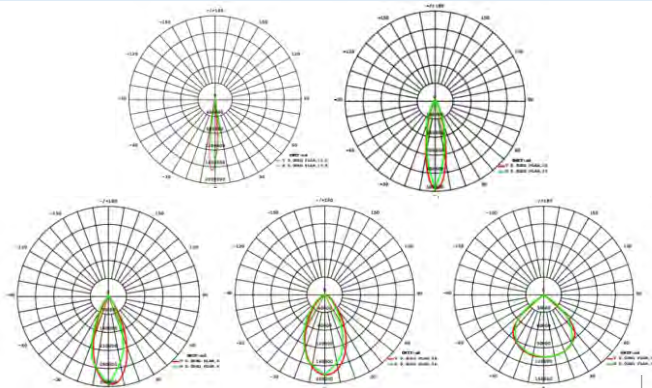
- A. Compressed by 1070 aluminum type and cold forging process, with good heat dissipation effect.
- B. Using special technology optical lens, strong UV resistance, light transmittance of more than 94%.
- C. Using high-quality Philips3030 or OSRAM3737 LED light source chip, the overall lighting effect reaches 140LM/W or more; and high-quality constant current drive, stable and reliable performance, long life.
- D. Adopt double waterproof design, the protection grade of the whole lamp reaches IP66, and the safety performance is good.
- E. Professional light distribution, 10 ° / 25 ° / 45 ° / 60 ° / 90 °, multiple beam angle optional.

**Applications:**

Widely used in the lighting of stadiums such as tunnels, ports, tower cranes, outdoor parking lots, football fields, basketball courts, tennis courts and golf courses

**Technical Parameters:**

Model No.	Power (W)	LED type	LED's (PCS)	Input Volt (V)	PF	CRI	Lumen (LM/W)	Beam Angle	CCT	IP degree	size		
											L	H	W
FL35-400W	400	CREE-XTE3535	140	100-277	>0.95	80	>120	10°	3000-6500K	IP66	325	472	160
FL35-500W	500	CREE-XTE3535	140	100-277	>0.95	80	>120		3000-6500K	IP66	325	472	160
FL35-800W	800	CREE-XTE3535	280	100-277	>0.95	80	>120		3000-6500K	IP66	629	536	160
FL35-1000W	1000	CREE-XTE3535	280	100-277	>0.95	80	>120		3000-6500K	IP66	629	536	160
FL35-1200W	1200	CREE-XTE3535	420	100-277	>0.95	80	>120		3000-6500K	IP66	890	536	160
FL35-1500W	1500	CREE-XTE3535	420	100-277	>0.95	80	>120		3000-6500K	IP66	890	536	160
FL38-400W	400	PHILIPS3030	560	100-277	>0.95	80	>140	25°/45° /60°/90°	3000-6500K	IP66	325	472	160
FL38-500W	500	PHILIPS3030	560	100-277	>0.95	80	>140		3000-6500K	IP66	325	472	160
FL38-800W	800	PHILIPS3030	1120	100-277	>0.95	80	>140		3000-6500K	IP66	629	536	160
FL38-1000W	1000	PHILIPS3030	1120	100-277	>0.95	80	>140		3000-6500K	IP66	629	536	160
FL38-1200W	1200	PHILIPS3030	1680	100-277	>0.95	80	>140		3000-6500K	IP66	890	536	160
FL38-1500W	1500	PHILIPS3030	1680	100-277	>0.95	80	>140		3000-6500K	IP66	890	536	160







### ❖ FL38 Series

**Product Features:**

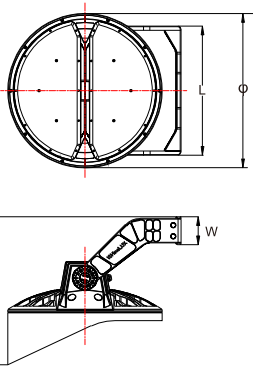
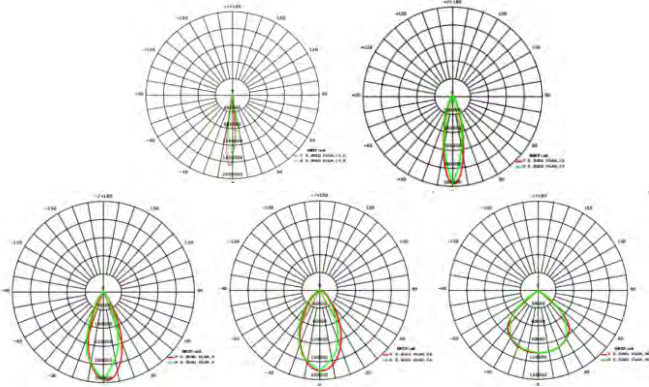
- A. Compressed by 1070 aluminum type and cold forging process, with good heat dissipation effect.
- B. Using special technology optical lens, strong UV resistance, light transmittance of more than 94%.
- C. Using high-quality Philips3030 or OSRAM3737 LED light source chip, the overall lighting effect reaches 140LM/W or more; and high-quality constant current drive, stable and reliable performance, long life.D. Adopt double waterproof design, the protection grade of the whole lamp reaches IP66, and the safety performance is good.
- E. Professional light distribution, 10 ° / 25 ° / 45 ° / 60 ° / 90 ° , multiple beam angle optional.

**Applications:**

Widely used in the lighting of stadiums such as tunnels, ports, tower cranes, outdoor parking lots, football fields, basketball courts, tennis courts and golf courses.

**Technical Parameters:**

Model No.	Power (W)	LED type	LED's (PCS)	Input Volt (V)	PF	CRI	Lumen (LM/W)	Beam Angle	CCT	IP degree	φ	Size (mm)		
FL38-400W	400	SMD3737	252	100-277	>0.95	80	>150	10°	3000-6500K	IP66	439	368	421	80
FL38-500W	500	SMD3737	252	100-277	>0.95	80	>150		3000-6500K	IP66	439	368	421	80
FL38-800W	800	SMD3737	504	100-277	>0.95	80	>150		3000-6500K	IP66	586	473	511	80
FL38-1000W	1000	SMD3737	504	100-277	>0.95	80	>150		3000-6500K	IP66	586	473	511	80
FL38-400W	400	SMD3030	770	100-277	>0.95	80	>140	25°/45° /60°/90°	3000-6500K	IP66	439	368	421	80
FL38-500W	500	SMD3030	770	100-277	>0.95	80	>140		3000-6500K	IP66	439	368	421	80
FL38-800W	800	SMD3030	1540	100-277	>0.95	80	>140		3000-6500K	IP66	586	473	511	80
FL38-1000W	1000	SMD3030	1540	100-277	>0.95	80	>140		3000-6500K	IP66	586	473	511	80



### ❖ FL40 Series

**Product Features:**

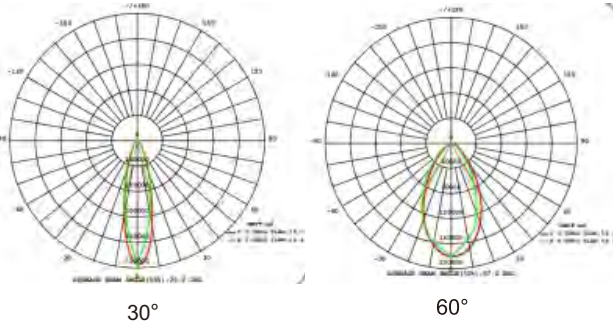
- A. Special fin-type heat dissipation, high-purity aluminum stamping and forming, rapid heat dissipation,
- B. Light weight lamp body design, compact structure, light weight, easy to install and maintain, safe and durable.
- C. Using high-quality SMD3030 LED light source chip, and AC driver(driverless), to reach high performance-cost ratio.
- D. Balance the internal and external pressure difference, to prevent the condensation in cavity and improve the waterproof effect.
- E. Equipped with a high-precision dial bracket, which supports 2.5° precise adjustment to achieve more accurate projecting.

**Applications:**

Widely used in the lighting of stadiums such as tunnels, ports, tower cranes, outdoor parking lots, football fields, basketball courts, tennis courts and golf courses.

**Technical Parameters:**

Model No.	Power (W)	LED type	LED's (PCS)	Input Volt (V)	PF	CRI	Lumen (LM/W)	Beam Angle	CCT	IP degree	Size (mm)		
FL40-200W	200	SMD3030	144	200-240	>0.95	70	>80	60°	3000-6500K	IP66	293	240	105
FL40-300W	300	SMD3030	216	200-240	>0.95	70	>80	60°	3000-6500K	IP66	293	283	117
FL40-400W	400	SMD3030	288	200-240	>0.95	70	>80	60°	3000-6500K	IP66	346	341	117
FL40-600W	600	SMD3030	384	200-240	>0.95	70	>80	30°	3000-6500K	IP66	388	413	146
FL40-800W	800	SMD3030	576	200-240	>0.95	70	>80	30°	3000-6500K	IP66	496	443	146
FL40-1200W	1200	SMD3030	864	200-240	>0.95	70	>80	30°	3000-6500K	IP66	496	574	146





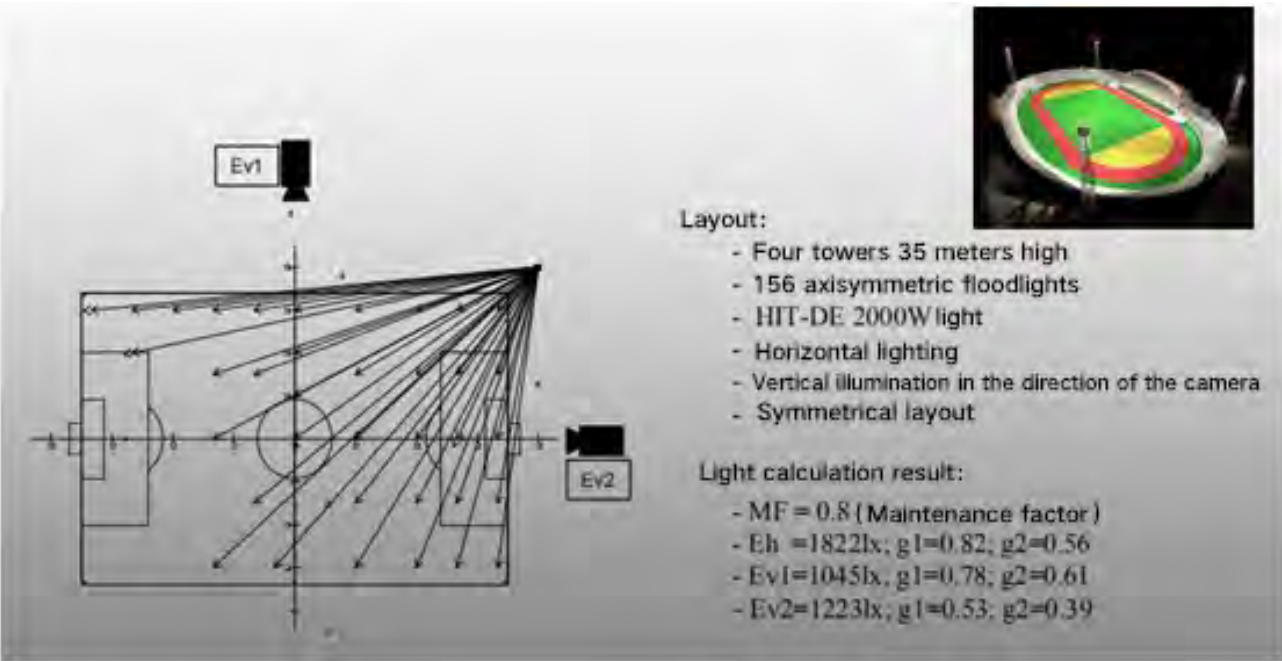
Lighting design of stadiums:

- 1- Many competitions are not only on the ground, but also in the space 10-30m from the ground. Therefore, there should be a uniform brightness distribution within a certain height above the playing field;
- 2- Since outdoor sports use natural sunlight during daytime competitions, artificial lighting is used after dark. In order to make the athletes adapt quickly, the outdoor lighting should adopt a moderately high color temperature, generally about 5000K;
- 3- Due to the floodlighting of outdoor lighting, the glare problem is more serious, and should be limited in many ways;
- 4- Not only do athletes and referees need good lighting, but when the athletes compete for every minute, the audience also hopes to appreciate the game more clearly;
- 5- TV broadcast is also the focus of consideration. How to make clear and real game pictures for people outside the stadium, this also puts requirements on lighting. For example, lighting technology requirements for high-definition color TV broadcasts are:
- 1) Site size:
- 2) Lighting method and position
- Lighting method: four towers / side / perimeter;
  - the floodlight is mounted on the outermost ceiling;
- 3) Illumination requirements:
- Horizontal illumination and vertical illumination (four directions)
  - Camera position
- 4) Lighting requirements: DIN, CIE, FIFA,
- 5) Conversion of functions: TV, emergency TV, competition, training ,
6. Illumination level factor and illumination requirements:
- 1) Illumination level depends on the factor: the type of movement, the size of the ball, the speed of the game, the distance of the audience, the level of the event;
- 2) Requirements for illuminance of the venue: illumination level, glare index UGR, uniformity, shadow, color rendering index Ra;

For football, FIFA recommended:

Level	Eh*	UI	U2	Ev1*	Ev2*	U1	U2
Business level:							
- Ball sports training includes sports training	50	0.3	0.5	-	-	-	-
- No competition training	100	0.4	0.6	-	-	-	-
- National competition	200	0.5	0.7	-	-	-	-
Professional Book Review:							
- Ball sports training includes sports training	100	0.4	0.6				
- National competition	500	0.5	0.7				
International (national) competition / conference:							
TV: Country	-	0.5	0.7	1000	700	0.3	0.5
International	-	0.6	0.7	1400	1000	0.4	0.6
HDTV	-	0.7	0.8	2000	1500	0.6	0.7
Emergency TV	-	0.5	0.7	800	500	0.3	0.5

TV broadcast layout case (four-tower distribution of football stadium lights):





## GARDEN LIGHTING

30W-120W

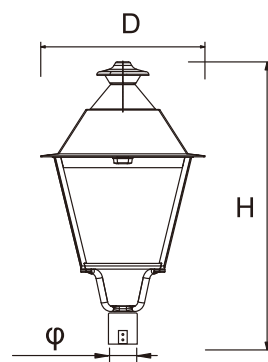




## GD01A Series

### Product Features:

- A. Classical design with LED chips.
- B. High lighting efficiency, 100lm/W plus;
- C. Aluminum die-casting housing, electrostatic powder coating for surface treatment.
- D. Diffuser is made by high strength tempered glass.
- E. High-quality LED chips and driver, good performance and long lifetime.
- F. Glass transparent or frosted cover, PC transparent or milk cover optional according to applications.

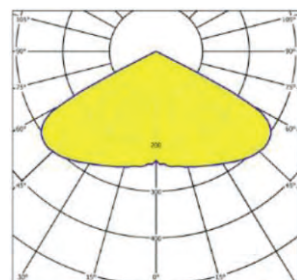


### Applications:

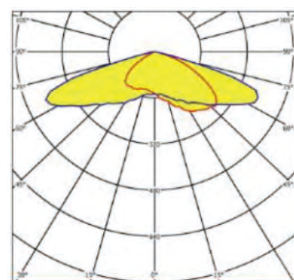
Widely used in outdoor environments such as city parks, country roads, slow lanes, industrial parks, leisure plazas, and etc.

### Technical Parameter:

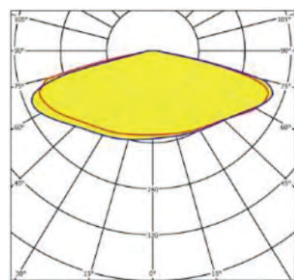
Model No.	Power (W)	LED type	LED's /PCS	Driver	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP	IK	Pole Dia(mm)	Product Size(mm)		
												W	L	H
GD01-30WA	30	SMD3030	64	INV/MW	100-277	>120	3000-6500	120° TYPE II TYPE V	IP65	IK08	φ60/φ76	400	400	815
GD01-40WA	40	SMD3030	64	INV/MW	100-277	>120	3000-6500		IP65	IK08	φ60/φ76	400	400	815
GD01-50WA	50	SMD3030	64	INV/MW	100-277	>120	3000-6500		IP65	IK08	φ60/φ76	400	400	815
GD01-60WA	60	SMD3030	64	INV/MW	100-277	>120	3000-6500		IP65	IK08	φ60/φ76	400	400	815
GD01-60WA	80	SMD3030	32	INV/MW	100-277	>140	3000-6500		IP65	IK08	φ60/φ76	400	400	815



120°



TYPE II



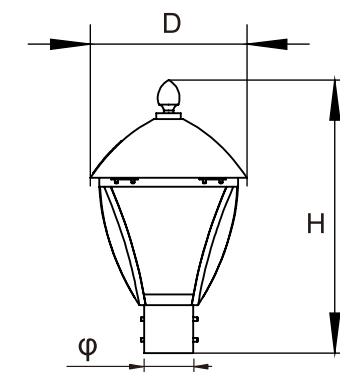
TYPE V



## GD01B Series

### Product Features:

- A. Classical design with LED chips.
- B. High lighting efficiency, 120lm/W plus;
- C. Aluminum die-casting housing, electrostatic powder coating for surface treatment.
- D. Diffuser is made by high strength tempered glass.
- E. High-quality LED chips and driver, good performance and long lifetime.
- F. Glass transparent or frosted cover, PC transparent or milk cover optional according to applications.

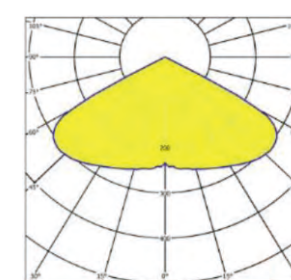


### Applications:

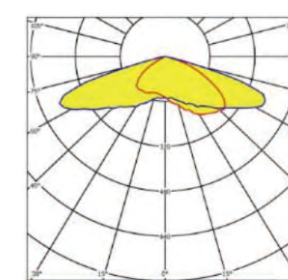
Widely used in outdoor environments such as city parks, country roads, slow lanes, industrial parks, leisure plazas, and etc.

### Technical Parameter:

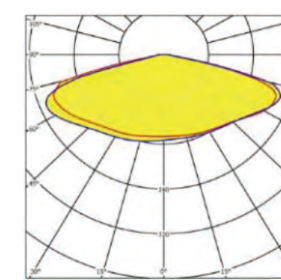
Model No.	Power (W)	LED type	LED's (PCS)	Driver	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP	IK	Pole Dia(mm)	Product Size(mm)		
												W	L	H
GD01B-30W	30	SMD3030	144	INV/MW	100-277	>120	3000-6500	TYPE II TYPE III TYPE V	IP66	IK09	φ60/φ76	378	378	541
GD01B-60W	60	SMD3030	144	INV/MW	100-277	>120	3000-6500		IP66	IK09	φ60/φ76	378	378	541
GD01B-90W	90	SMD3030	144	INV/MW	100-277	>120	3000-6500		IP66	IK09	φ60/φ76	378	378	541
GD01B-100W	100	SMD3030	144	INV/MW	100-277	>120	3000-6500		IP66	IK09	φ60/φ76	378	378	541
GD01B-120W	120	SMD3030	144	INV/MW	100-277	>140	3000-6500		IP66	IK09	φ60/φ76	378	378	541



120°



TYPE II



TYPE V





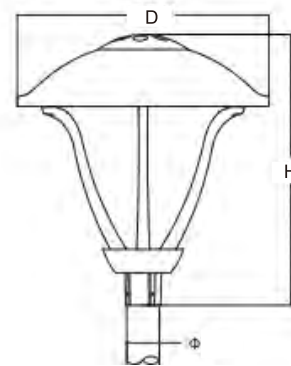
## GD02 Series

### Product Features:

- A. Classic design, be the scenery of garden.
- B. Silicone washer for the sealer, with good protection level, IP65.
- C. More added dispersing agent to diffusion and makes the lights more even.
- D. Made by die casting aluminum, electrostatic powder coating for surface treatment.

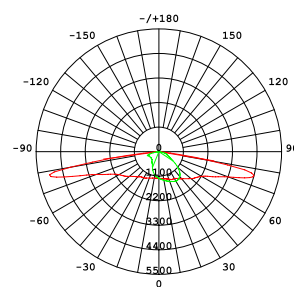
### Applications:

Urban road, parking, bike path and etc.

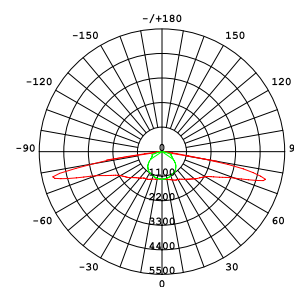


### Technical Parameter:

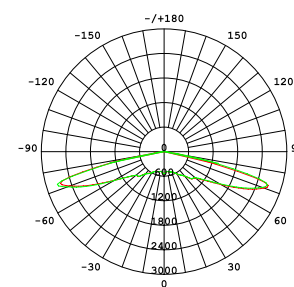
Model No.	Power (W)	LED type	LED's	Driver	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	Pole Dia(mm)	IP	Product Size(mm)	
											D	H
GD02-35W	35	SMD3535	16 pcs	MW / INV	100-277	>110	3000-5700		φ76	IP65	650	674
GD02-50W	50	SMD3535	24 pcs	MW / INV	100-277	>110	3000-5700	TYPE 1 TYPE 2 TYPE 3	φ76	IP65	650	674
GD02-60W	60	SMD3535	28 pcs	MW / INV	100-277	>110	3000-5700		φ76	IP65	650	674
GD02-80W	80	SMD3535	32 pcs	MW / INV	100-277	>110	3000-5700		φ76	IP65	650	674



TYPE 1



TYPE 2



TYPE 3



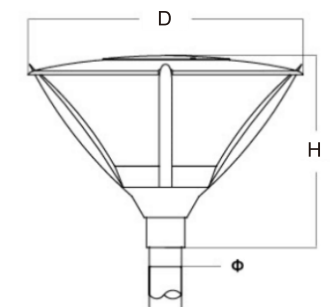
## GD09 Series

### Product Features:

- A. Lamp housing is made by die casting aluminum, electrostatic powder coating for surface treatment, Color Reference, RAL 9005/7015 RAL
- B. Double diffusion technique photometric to diffuser and makes the lights more even.
- C. Sealing lampshade, UV PC stops lampshade.

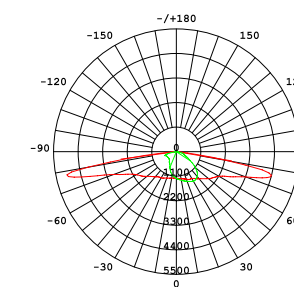
### Applications:

Urban Road, Parking, bike path, Garden, plaza, residential area and etc.

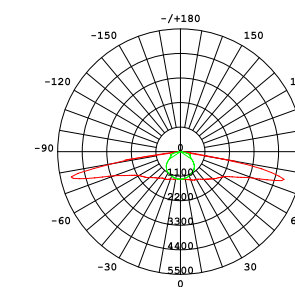


### Technical Parameter:

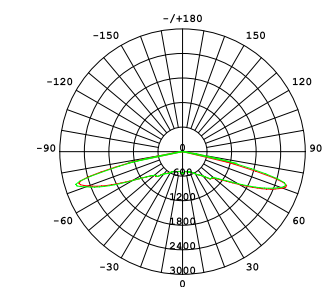
Model	Power (W)	LED type	LED's /PCS	Driver	Input Volt (V)	Lumen (LM/W)	Beam Angle	CCT (K)	IP	Pole Dia(mm)	Size (mm)	
											D	H
GD09-35W	35	SMD3535	16	MW / INV	100-277	>110		3000-5700	IP65	φ76	690	480
GD09-50W	50	SMD3535	24	MW / INV	100-277	>110	TYPE 1 TYPE 2 TYPE 3	3000-5700	IP65	φ76	690	480
GD09-60W	60	SMD3535	28	MW / INV	100-277	>110		3000-5700	IP65	φ76	690	480
GD09-80W	80	SMD3535	32	MW / INV	100-277	>110		3000-5700	IP65	φ76	690	480



TYPE 1



TYPE 2



TYPE 3



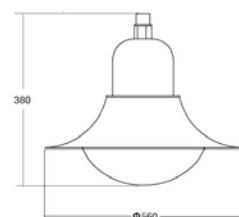


## GD10 Series

### Product Features:

- A. Die cast aluminum housing, aluminum sheet rotating cover
- B. Double photometric diffuser technology.
- C. Sealed lamp housing and Supper white toughened glass.
- D. CREE-XTE lamps and high quality driver, with high efficiency and output.

灯具尺寸 Product Dimensions(mm)

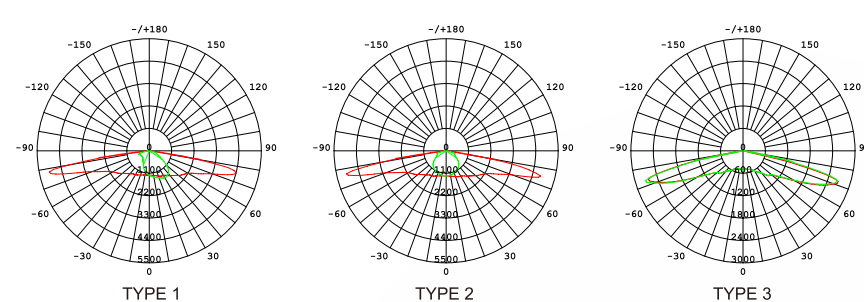


### Applications:

Urban Road, Parking, bike path, garden, plaza, residential area lighting and etc

### Technical Parameter:

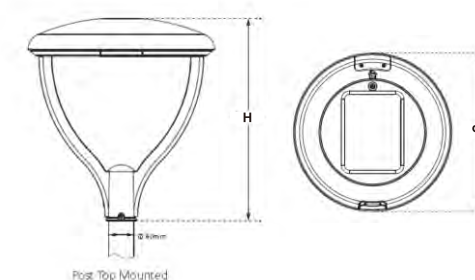
Model	Power (W)	LED type	LED's (pcs)	Driver	Input Volt (V)	Lumen (LM/W)	Beam Angle	CCT	IP	Pole Dia(mm)	Size (mm)	
											D	H
GD10-30W	30	SMD3535	16	MW / INV	100-277	>100		3000-5700K	IP65	φ28	560	380
GD10-45W	45	SMD3535	24	MW / INV	100-277	>100	TYPE 1 TYPE 2 TYPE 3	3000-5700K	IP65	φ28	560	380
GD10-55W	55	SMD3535	28	MW / INV	100-277	>100		3000-5700K	IP65	φ28	560	380



## ST26 Series

### Product Features:

- A. Made by die cast aluminum, surface treatment for electrostatic powder coating.
- B. Diffusion is made by high-strength tempered glass.
- C. The reflector is made by high pure aluminum.
- D. Heat resisting silicone rubber gasket.
- E. Special olivary design, matching with the surrounding.
- F. Use high efficient diffuser and super white transparent seal glass.

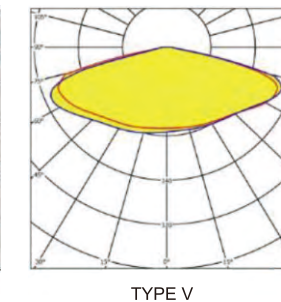
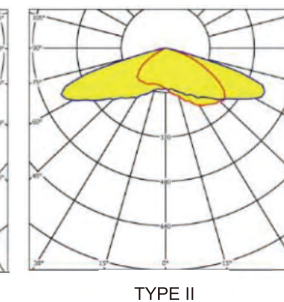
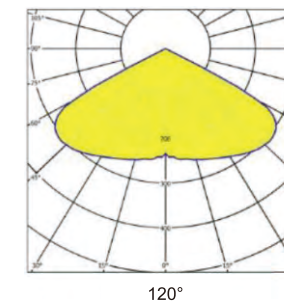
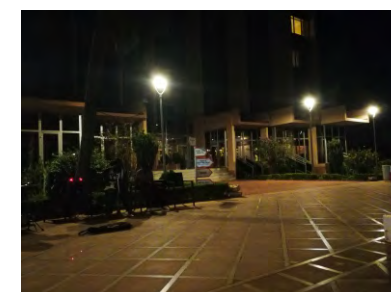


### Applications:

Urban Road, Parking, bike path, Garden, plaza, residential area and etc

### Technical Parameter:

Model No.	Power (W)	LED type	LED's /PCS	Driver	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP	Pole Dia(mm)	Product Size(mm)	
											φ	H
ST26-27WA	27	SMD3030	72	MW / INV	100-277	>130	3000-5700		IP65	φ60	480	521
ST26-37WA	37	SMD3030	96	MW / INV	100-277	>130	3000-5700		IP65	φ60	480	521
ST26-56WA	56	SMD3030	120	MW / INV	100-277	>130	3000-5700		IP65	φ60	480	521
ST26-70WA	70	SMD3030	144	MW / INV	100-277	>130	3000-5700	120° TYPE II TYPE V	IP65	φ60	480	521
ST26-90WA	90	SMD3030	168	MW / INV	100-277	>130	3000-5700		IP65	φ60	480	521
ST26-120WA	120	SMD3030	168	MW / INV	100-277	>125	3000-5700		IP65	φ60	480	521







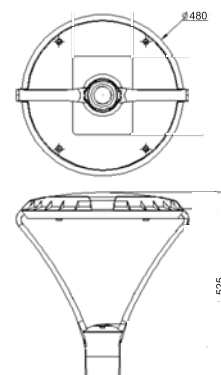
## GD29 Series

### Product Features:

- A. Using precision die-cast aluminum ADC12 material, the structure of die-casting manufacturing process is stable.
- B. The surface is hot-dip galvanized and sprayed, which has strong corrosion resistance and adapts to harsh and complicated environments.
- C. The installation fixing hole is designed according to the installation method of the street lamp, and the construction and installation are convenient.
- D. The heat dissipation design of the power supply compartment and the heat sink effectively extends the lifetime of LED chips.
- E. Multi-beam angles, 90°/120°/145°80°, for options, which is suitable for different application scenarios.
- F. Regular, timing, 0-10V and DALI dimming control methods for options; Meanwhile, photocell can be equipped, according to different applications.

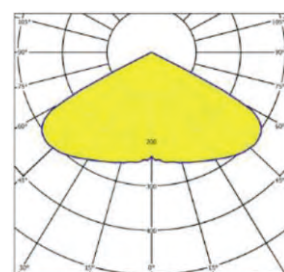
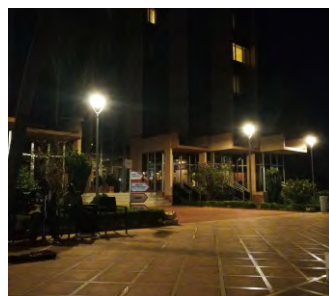
### Applications:

Widely used in outdoor environments such as city parks, country roads, slow lanes, industrial parks, leisure plazas, and etc.

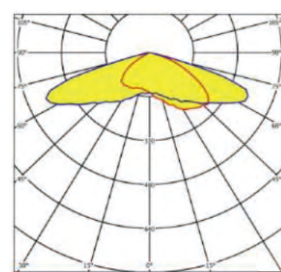


### Technical Parameter:

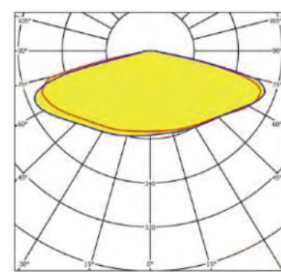
Model No.	Power (W)	LED type	LED's (PCS)	Input Volt (V)	Lumen (LM/W)	CCT(K)	Beam Angle	IP	Pole Dia(mm)	Product Size (mm)	
										φ	H
GD29-30W	30	SMD3030	72	100-277	>130	3000-6500	120° TYPE II TYPE V	IP66	φ76	480	525
GD29-60W	60	SMD3030	72	100-277	>130	3000-6500		IP66	φ76	480	525
GD29-90W	90	SMD3030	144	100-277	>130	3000-6500		IP66	φ76	480	525
GD29-100W	100	SMD3030	144	100-277	>130	3000-6500		IP66	φ76	480	525
GD29-120W	120	SMD3030	144	100-277	>130	3000-6500		IP66	φ76	480	525



120°



TYPE II



TYPE V



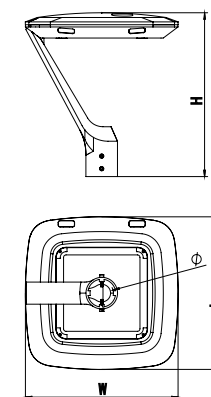
## GD30A Series

### Product Features:

- A. Using precision die-cast aluminum ADC12 material, the structure of die-casting manufacturing process is stable.
- B. The surface is hot-dip galvanized and sprayed, which has strong corrosion resistance and adapts to harsh and complicated environments.
- C. The installation fixing hole is designed according to the installation method of the street lamp, and the construction and installation are convenient.
- D. The heat dissipation design of the power supply compartment and the heat sink effectively extends the lifetime of LED chips.
- E. Multi-beam angles, 150°x150°/145°x80° optional, which is suitable for different application scenarios.
- F. Regular, timing, 0-10V and DALI dimming control methods for options; Meanwhile, photocell can be equipped, according to different applications.

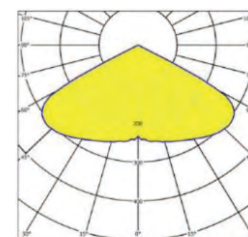
### Applications:

Widely used in outdoor environments such as city parks, country roads, slow lanes, industrial parks, leisure plazas, and etc.

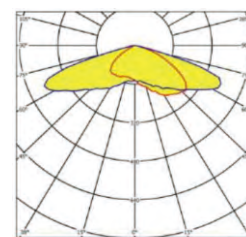


### Technical Parameter:

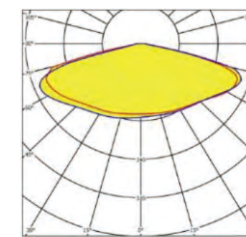
Model No.	Power (W)	LED type	LED's (PCS)	Input Volt (V)	Lumen (LM/W)	CCT(K)	Beam Angle	IP	Pole Dia(mm)	Product Size (mm)	
										D	H
GD30A-30W	30	SMD3030	192	100-277	>130	3000-6500	120° TYPE II TYPE V	IP66	φ76	480	567
GD30A-60W	60	SMD3030	192	100-277	>130	3000-6500		IP66	φ76	480	567
GD30A-90W	90	SMD3030	192	100-277	>130	3000-6500		IP66	φ76	480	567
GD30A-100W	100	SMD3030	192	100-277	>130	3000-6500		IP66	φ76	480	567
GD30A-120W	120	SMD3030	192	100-277	>130	3000-6500		IP66	φ76	480	567



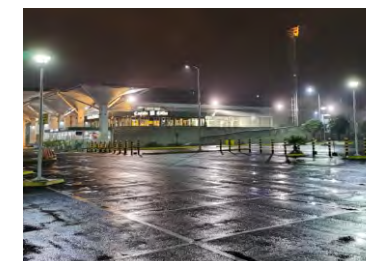
120°



TYPE II



TYPE V







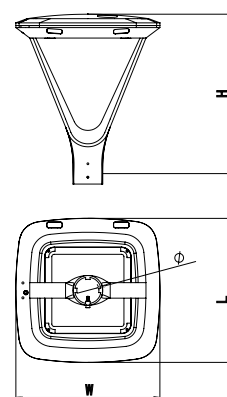
## GD30B Series

### Product Features:

- A. Using precision die-cast aluminum ADC12 material, the structure of die-casting manufacturing process is stable.
- B. The surface is hot-dip galvanized and sprayed, which has strong corrosion resistance and adapts to harsh and complicated environments.
- C. The installation fixing hole is designed according to the installation method of the street lamp, and the construction and installation are convenient.
- D. The heat dissipation design of the power supply compartment and the heat sink effectively extends the lifetime of LED chips.
- E. Multi-beam angles, 150°x150°/145°x80° optional, which is suitable for different application scenarios.
- F. Regular, timing, 0-10V and DALI dimming control methods for options; Meanwhile, photocell can be equipped, according to different applications.

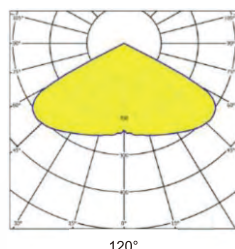
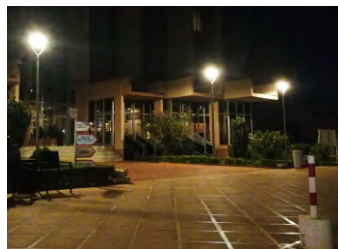
### Applications:

Widely used in outdoor environments such as city parks, country roads, slow lanes, industrial parks, leisure plazas, and etc.

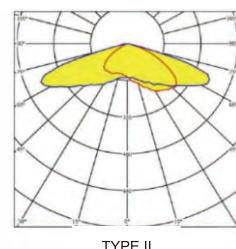


### Technical Parameter:

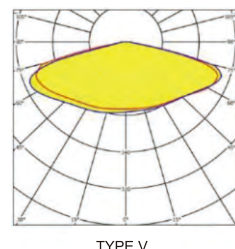
Model No.	Power (W)	LED type	LED's (PCS)	Input Volt (V)	Lumen (LM/W)	CCT(K)	Beam Angle	IP	Pole Dia(mm)	Product Size (mm)	
										D	H
GD30B-30W	30	SMD3030	192	100-277	>130	3000-6500	120° TYPE II TYPE V	IP66	φ76	480	567
GD30B-60W	60	SMD3030	192	100-277	>130	3000-6500		IP66	φ76	480	567
GD30B-90W	90	SMD3030	192	100-277	>130	3000-6500		IP66	φ76	480	567
GD30B-100W	100	SMD3030	192	100-277	>130	3000-6500		IP66	φ76	480	567
GD30B-120W	120	SMD3030	192	100-277	>130	3000-6500		IP66	φ76	480	567



120°



TYPE II



TYPE V



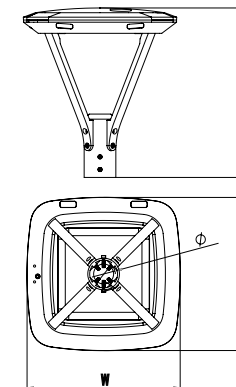
## GD30C Series

### Product Features:

- A. Using precision die-cast aluminum ADC12 material, the structure of die-casting manufacturing process is stable.
- B. The surface is hot-dip galvanized and sprayed, which has strong corrosion resistance and adapts to harsh and complicated environments.
- C. The installation fixing hole is designed according to the installation method of the street lamp, and the construction and installation are convenient.
- D. The heat dissipation design of the power supply compartment and the heat sink effectively extends the lifetime of LED chips.
- E. Multi-beam angles, 150°x150°/145°x80° optional, which is suitable for different application scenarios.
- F. Regular, timing, 0-10V and DALI dimming control methods for options; Meanwhile, photocell can be equipped, according to different applications.

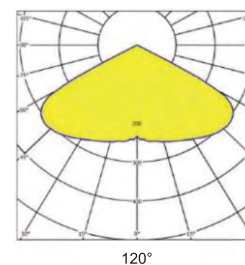
### Applications:

Widely used in outdoor environments such as city parks, country roads, slow lanes, industrial parks, leisure plazas, and etc.

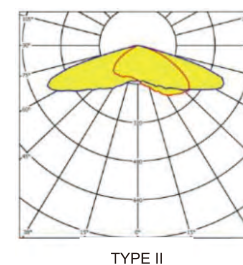


### Technical Parameter:

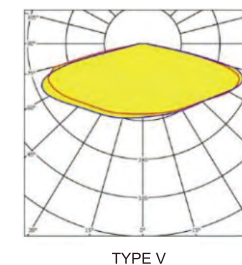
Model No.	Power (W)	LED type	LED's (PCS)	Input Volt (V)	Lumen (LM/W)	CCT(K)	Beam Angle	IP	Pole Dia(mm)	Product Size (mm)	
										D	H
GD30C-30W	30	SMD3030	192	100-277	>130	3000-6500	120° TYPE II TYPE V	IP66	φ76	480	538
GD30C-60W	60	SMD3030	192	100-277	>130	3000-6500		IP66	φ76	480	538
GD30C-90W	90	SMD3030	192	100-277	>130	3000-6500		IP66	φ76	480	538
GD30C-100W	100	SMD3030	192	100-277	>130	3000-6500		IP66	φ76	480	538
GD30C-120W	120	SMD3030	192	100-277	>130	3000-6500		IP66	φ76	480	538



120°



TYPE II



TYPE V







## ❖ GD32 Series

### Product Features:

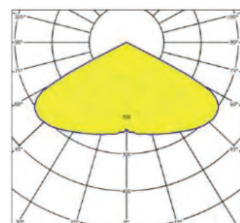
- A. Using precision die-cast aluminum ADC12 material, the structure of die-casting manufacturing process is stable.
- B. The surface is hot-dip galvanized and sprayed, which has strong corrosion resistance and adapts to harsh and complicated environments.
- C. The installation fixing hole is designed according to the installation method of the street lamp, and the construction and installation are convenient.
- D. The heat dissipation design of the power supply compartment and the heat sink effectively extends the lifetime of LED chips.
- E. Multi-beam angles, 150°x150°/145°x80° optional, which is suitable for different application scenarios.
- F. Regular, timing, 0-10V and DALI dimming control methods for options; Meanwhile, photocell can be equipped, according to different applications.

### Applications:

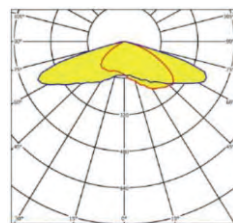
Widely used in outdoor environments such as city parks, country roads, slow lanes, industrial parks, leisure plazas, and etc.

### Technical Parameter:

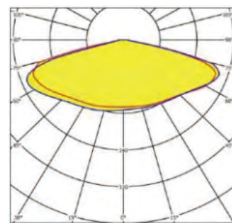
Model No.	Power (W)	LED type	LED's (PCS)	Input Volt (V)	Lumen (LM/W)	CCT(K)	Beam Angle	IP	Pole Dia(mm)	Product Size (mm)	
										φ	H
GD32-30W	30	SMD3030	128	100-277	>130	3000-6500		IP66	φ48	441	357
GD32-60W	60	SMD3030	128	100-277	>130	3000-6500		IP66	φ48	441	357
GD32-90W	90	SMD3030	192	100-277	>130	3000-6500	120°	IP66	φ48	441	357
GD32-100W	100	SMD3030	192	100-277	>130	3000-6500	TYPE II	IP66	φ48	441	357
GD32-120W	120	SMD3030	192	100-277	>130	3000-6500	TYPE V	IP66	φ48	441	357



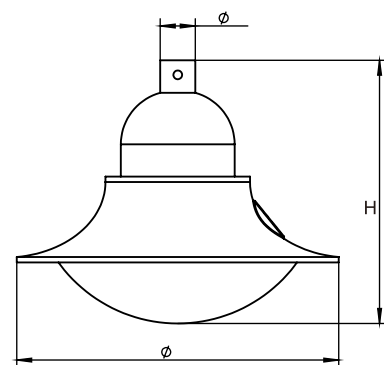
120°



TYPE II



TYPE V



## ❖ GD34A Series

### Product Features:

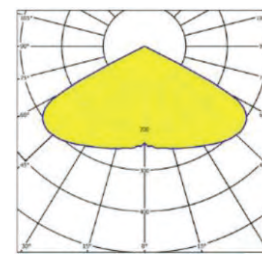
- A. Using precision die-cast aluminum ADC12 material, the structure of die-casting manufacturing process is stable.
- B. The surface is hot-dip galvanized and sprayed, which has strong corrosion resistance and adapts to harsh and complicated environments.
- C. The installation fixing hole is designed according to the installation method of the street lamp, and the construction and installation are convenient.
- D. The heat dissipation design of the power supply compartment and the heat sink effectively extends the lifetime of LED chips.
- E. Multi-beam angles, TYPE III/TYPE V/120°x120° optional, which is suitable for different application scenarios.
- F. Regular, timing, 0-10V and DALI dimming control methods for options; Meanwhile, photocell can be equipped, according to different applications.

### Applications:

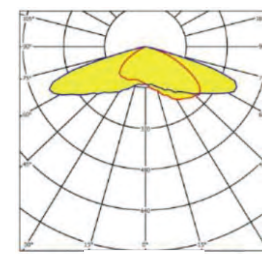
Widely used in outdoor environments such as city parks, country roads, slow lanes, industrial parks, leisure plazas, and etc.

### Technical Parameter:

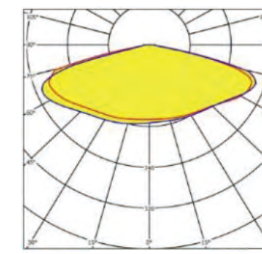
Model No.	Power (W)	LED type	LED's (PCS)	S&P	Input Volt (V)	Lumen (LM/W)	CCT(K)	Beam Angle	IP	Pole Dia(mm)	Product Size (mm)	
											φ	H
GD34A-30W	30	SMD3030	192	8S24P	100-277	>130	3000-6500		IP66	φ76	479	589
GD34A-60W	60	SMD3030	192	8S24P	100-277	>130	3000-6500		IP66	φ76	479	589
GD34A-90W	90	SMD3030	192	8S24P	100-277	>130	3000-6500	120°	IP66	φ76	479	589
GD34A-100W	100	SMD3030	192	8S24P	100-277	>130	3000-6500	TYPE II	IP66	φ76	479	589
GD34A-120W	120	SMD3030	192	8S24P	100-277	>130	3000-6500	TYPE V	IP66	φ76	479	589



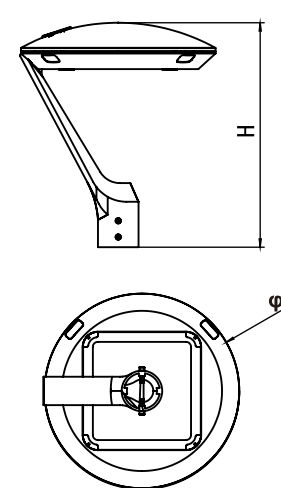
120°



TYPE II



TYPE V







## ❖ GD34B Series

### Product Features:

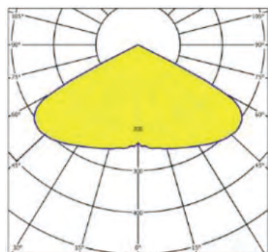
- A. Using precision die-cast aluminum ADC12 material, the structure of die-casting manufacturing process is stable.
- B. The surface is hot-dip galvanized and sprayed, which has strong corrosion resistance and adapts to harsh and complicated environments.
- C. The installation fixing hole is designed according to the installation method of the street lamp, and the construction and installation are convenient.
- D. The heat dissipation design of the power supply compartment and the heat sink effectively extends the lifetime of LED chips.
- E. Multi-beam angles, TYPE III/TYPE V/120°x120° optional, which is suitable for different application scenarios.
- F. Regular, timing, 0-10V and DALI dimming control methods for options; Meanwhile, photocell can be equipped, according to different applications.

### Applications:

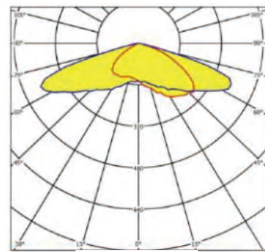
Widely used in outdoor environments such as city parks, country roads, slow lanes, industrial parks, leisure plazas, and etc.

### Technical Parameter:

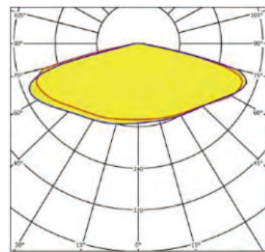
Model No.	Power (W)	LED type	LED's (PCS)	S&P	Input Volt (V)	Lumen (LM/W)	CCT(K)	Beam Angle	IP	Pole Dia(mm)	Product Size (mm)	
											φ	H
GD34B-30W	30	SMD3030	192	8S24P	100-277	>130	3000-6500	120° TYPE II TYPE V	IP66	φ76	479	589
GD34B-60W	60	SMD3030	192	8S24P	100-277	>130	3000-6500		IP66	φ76	479	589
GD34B-90W	90	SMD3030	192	8S24P	100-277	>130	3000-6500		IP66	φ76	479	589
GD34B-100W	100	SMD3030	192	8S24P	100-277	>130	3000-6500		IP66	φ76	479	589
GD34B-120W	120	SMD3030	192	8S24P	100-277	>130	3000-6500		IP66	φ76	479	589



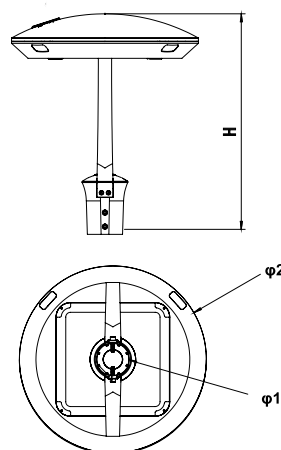
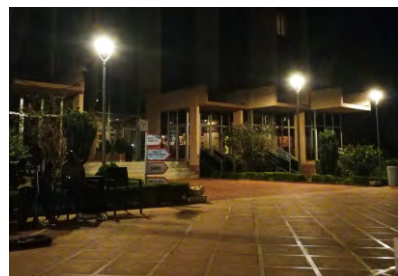
120°



TYPE II



TYPE V



## ❖ GD34C Series

### Product Features:

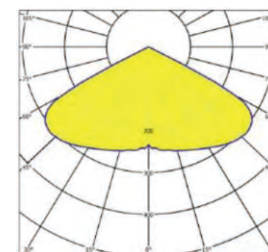
- A. Using precision die-cast aluminum ADC12 material, the structure of die-casting manufacturing process is stable.
- B. The surface is hot-dip galvanized and sprayed, which has strong corrosion resistance and adapts to harsh and complicated environments.
- C. The installation fixing hole is designed according to the installation method of the street lamp, and the construction and installation are convenient.
- D. The heat dissipation design of the power supply compartment and the heat sink effectively extends the lifetime of LED chips.
- E. Multi-beam angles, TYPE III/TYPE V/120°x120° optional, which is suitable for different application scenarios.
- F. Regular, timing, 0-10V and DALI dimming control methods for options; Meanwhile, photocell can be equipped, according to different applications.

### Applications:

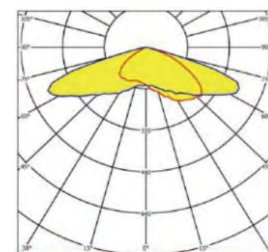
Widely used in outdoor environments such as city parks, country roads, slow lanes, industrial parks, leisure plazas, and etc.

### Technical Parameter:

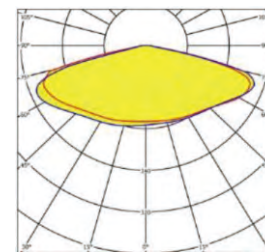
Model No.	Power (W)	LED type	LED's (PCS)	S&P	Input Volt (V)	Lumen (LM/W)	CCT(K)	Beam Angle	IP	Pole Dia(mm)	Product Size (mm)	
											φ	H
GD34C-30W	30	SMD3030	192	8S24P	100-277	>130	3000-6500	120° TYPE II TYPE V	IP66	φ76	479	544
GD34C-60W	60	SMD3030	192	8S24P	100-277	>130	3000-6500		IP66	φ76	479	544
GD34C-90W	90	SMD3030	192	8S24P	100-277	>130	3000-6500		IP66	φ76	479	544
GD34C-100W	100	SMD3030	192	8S24P	100-277	>130	3000-6500		IP66	φ76	479	544
GD34C-120W	120	SMD3030	192	8S24P	100-277	>130	3000-6500		IP66	φ76	479	544



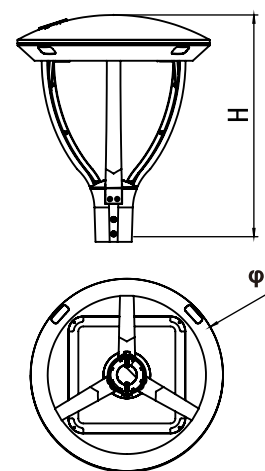
120°



TYPE II



TYPE V





## ROAD LIGHTING

20W-250W

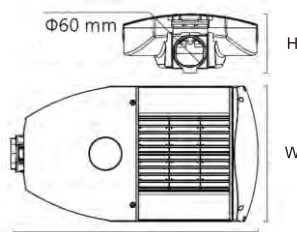




## ❖ ST12 Series

### Product Features:

- A. Overall aluminum die casting, heat sink fins, good heat dissipation.
- B. Use UL standard lock, the overall structure is compact, sophisticated design work;
- C. Metal connecting portion, all stainless steel, corrosion-resistant, durable;
- D. Professional lens design, two different angles for different lighting requirements of the road;
- E. Lamp angle adjustable from 0 ° to 90 °, either side-mounted, top-loading may be freely converted.
- F. Using Philips5050 or 3030 chips and MW driver, stable overall performance, lifetime 90,000 hours above.

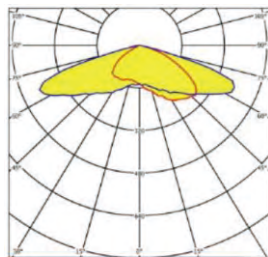


### Applications:

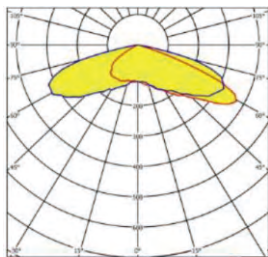
Mainly used for road lighting, including high way, high-speed road, slip road and other places of public lighting.

### Technical Parameter:

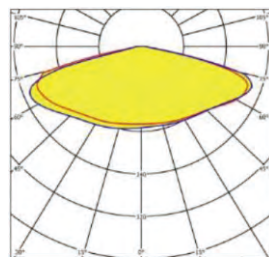
Model No.	Power (W)	LED type	LED's (pcs)	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP	IK	Pole Dia(mm)	Size (mm)		
											L	W	H
ST12-50W1	50	SMD5050	1x32	100-277	>160	3000K-5700K		IP66	IK10	φ60	431	316	136
ST12-100W2	100	SMD5050	2x32	100-277	>160	3000K-5700K	TYPE II	IP66	IK10	φ60	504	316	136
ST12-150W3	150	SMD5050	3x32	100-277	>160	3000K-5700K	TYPE III	IP66	IK10	φ60	577	316	136
ST12-200W4	200	SMD5050	4x32	100-277	>160	3000K-5700K	TYPE V	IP66	IK10	φ60	650	316	136
ST12-60W1	60	SMD5050	1x32	100-277	>150	3000K-5700K		IP66	IK10	φ60	431	316	136
ST12-120W2	120	SMD5050	2x32	100-277	>150	3000K-5700K	TYPE II	IP66	IK10	φ60	504	316	136
ST12-180W3	180	SMD5050	3x32	100-277	>150	3000K-5700K	TYPE III	IP66	IK10	φ60	577	316	136
ST12-240W4	240	SMD5050	4x32	100-277	>150	3000K-5700K	TYPE V	IP66	IK10	φ60	650	316	136



TYPE II



TYPE III



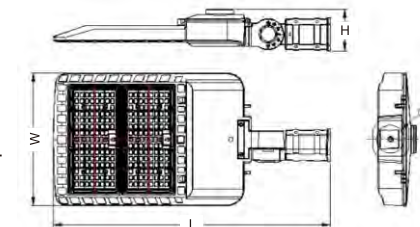
TYPE V



## ❖ ST34 Series

### Product Features:

- A. Overall aluminum die casting, heat sink fins, good heat dissipation.
- B. Use UL standard lock, the overall structure is compact, sophisticated design work;
- C. Metal connecting portion, all stainless steel, corrosion-resistant, durable;
- D. Professional lens design, two different angles for different lighting requirements of the road;
- E. Multiple beam angle, Type II or Type III optional for various applications.
- F. High-quality LED chips, PHILIPS3030 or 5050 optional, stable overall performance, pretty long lifetime.

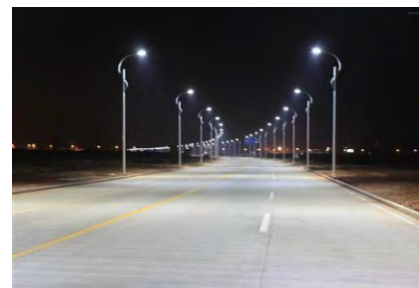


### Applications:

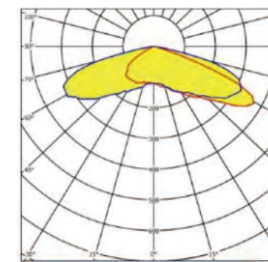
Mainly used for road lighting, including high-speed road, slip road, industrial areas, residential , packing lot and etc.

### Technical Parameter:

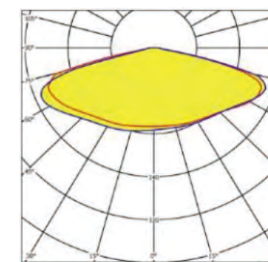
Model No.	Power (W)	LED type	LED's (pcs)	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle(°)	IP&IK	Pole Dia(mm)	Size(mm)		
										L	W	H
ST34-30W	30W	SMD5050	28	100-277	>150	3000-6500	TYPE II	IP66&IK10	φ60	481	312	93
ST34-50W	50W		28	100-277	>150	3000-6500	TYPE III			481	312	93
ST34-60W	60W		28	100-277	>150	3000-6500	TYPE V			481	312	93
ST34-80W	80W	SMD3030	42 (5050) 112 (3030)	100-277	>150(5050) >130(3030)	3000-6500	TYPE II	IP66&IK10	φ60	524	312	93
ST34-100W	100W			100-277		3000-6500	TYPE III			524	312	93
ST34-120W	120W			100-277		3000-6500	TYPE V			524	312	93
ST34-100W	100W	SMD5050		100-277		3000-6500	TYPE II	IP66&IK10	φ60	651	312	93
ST34-120W	120W		84 (5050)	100-277	>150(5050)	3000-6500	TYPE III			651	312	93
ST34-150W	150W		224 (3030)	100-277	>130(3030)	3000-6500	TYPE V			651	312	93
ST34-200W	200W	SMD3030		100-277		3000-6500	TYPE II	IP66&IK10	φ60	778	312	93
ST34-200W	200W		126 (5050)	100-277	>150(5050)	3000-6500	TYPE III			778	312	93
ST34-250W	250W		336 (3030)	100-277	>130(3030)	3000-6500	TYPE V			778	312	93



TYPE II



TYPE III



TYPE V

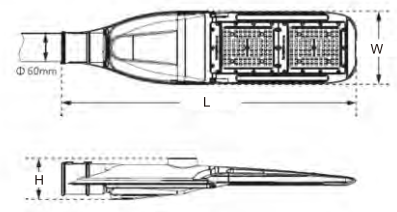




## ❖ ST25 Series

### Product Features:

- A. Light shell integrated cooling technology, efficient heat dissipation performance.
- B. Dual coupling IP66 protection, high waterproof rating.
- C. Intelligent constant current drive technology, breakthrough power supply life bottlenecks.
- D. Use high-quality Philips 3030 or 5050 chips and intelligent drive, to reach high luminous efficiency, stable performance, long life. Performance-cost rate is pretty high, warranty time is 5 years.

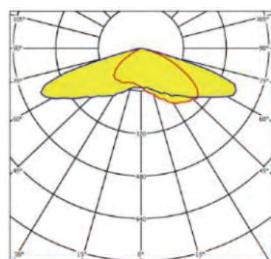


### Applications:

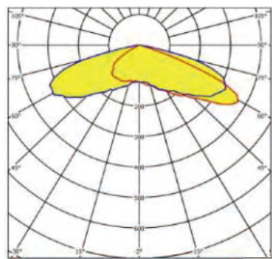
Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

### Technical Parameter:

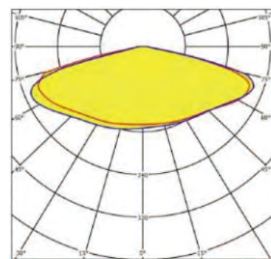
Model No.	Power	LED type	LED's (pcs)	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP&IK	Pole Dia(mm)	Size(mm)		
										L	W	H
ST25-1	20~50W	SMD3030	80	100-277	>150	3000-6500	TYPE II	IP66&IK10	φ60	447	179	77
							TYPE III					
ST25-1	20~50W	SMD3030	28	100-277	>160	3000-6500	TYPE V					
ST25-2	60~100W	SMD3030	160	100-277	>150	3000-6500	TYPE II	IP66&IK10	φ60	717	178	99
							TYPE III					
ST25-2	60~100W	SMD3030	56	100-277	>160	3000-6500	TYPE V					



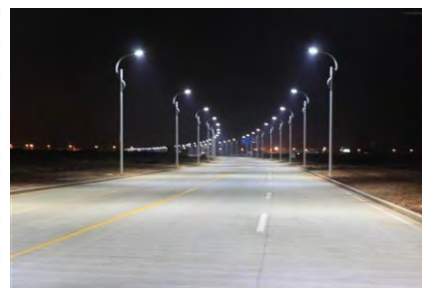
TYPE II



TYPE III



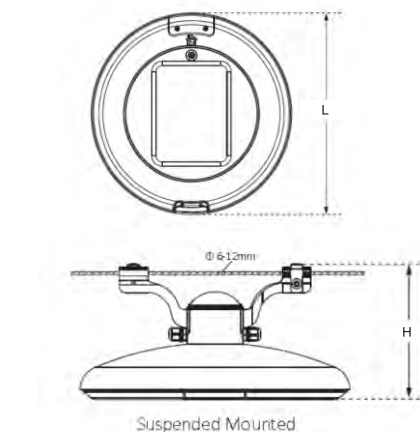
TYPE V



## ❖ ST26D Series

### Product Features:

- A. Overall aluminum die casting, heat sink fins, good heat dissipation.
- B. Use UL standard lock, the overall structure is compact, sophisticated design work;
- C. Metal connecting portion, all stainless steel, corrosion-resistant, durable;
- D. Professional lens design, 5 different angles for different lighting requirements of the road;
- E. Using PHILIPS3030 LED chip, stable overall performance, long life of 60,000 hours above.
- F. With CLASS II elcetrical protection degree, widely used to pend between two buildings, without poles.

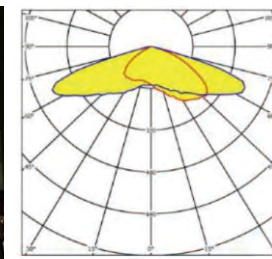


### Applications:

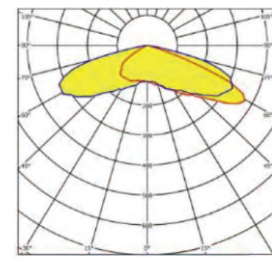
Widely used for urban Road, parking, bike path, garden, plaza, residential area and etc

### Technical Parameter:

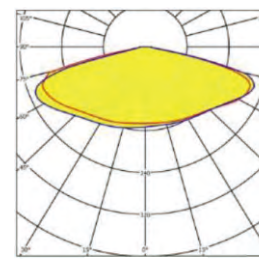
Model No.	Power (W)	LED type	LED's (pcs)	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP	Hole Dia(mm)	Product Size(mm)		
										L	W	H
ST26-27WD	27	SMD3030	72	100-277V	>130	3000-6500	TYPE II TYPE III TYPE V	IP66/IK08	6~12	480	480	240
ST26-37WD	37	SMD3030	96	100-277V	>130	3000-6500		IP66/IK08	6~12	480	480	240
ST26-56WD	56	SMD3030	120	100-277V	>130	3000-6500		IP66/IK08	6~12	480	480	240
ST26-70WD	70	SMD3030	144	100-277V	>130	3000-6500		IP66/IK08	6~12	480	480	240
ST26-90WD	90	SMD3030	168	100-277V	>130	3000-6500		IP66/IK08	6~12	480	480	240
ST26-120WD	120	SMD3030	168	100-277V	>125	3000-6500		IP66/IK08	6~12	480	480	240



TYPE II



TYPE III



TYPE V





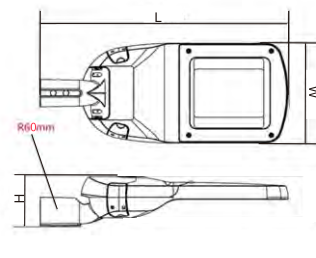
## ST29 Series

### Product Features:

- A. High pressure die-casting aluminum housing wth quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD3030 Led chips and high quality driver, assures long lifetime.
- D. Multiple beam angle optics for options according to various lighting applications.

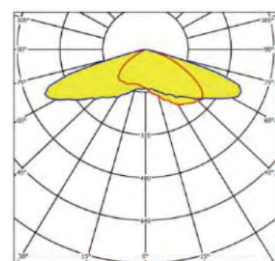
### Applications:

Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

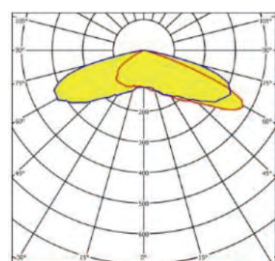


### Technical Parameter:

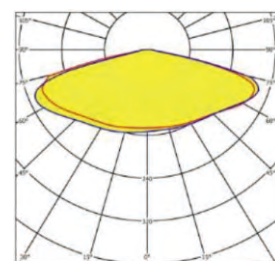
Model No.	Power (W)	LED type	LED's (pcs)	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP&IK	Pole Dia(mm)	Size(mm)		
										L	W	H
ST29-30Wmi	30	SMD3030	72	100-277	>130	3000-6500	TYPE II TYPE III TYPE V	IP66&IK09	φ60	535	200	120
ST29-40Wmi	40	SMD3030	72	100-277	>130	3000-6500				535	200	120
ST29-50Wmi	50	SMD3030	72	100-277	>130	3000-6500				535	200	120
ST29-60WS	60	SMD3030	144	100-277	>130	3000-6500	TYPE II TYPE III TYPE V	IP66&IK09	φ60	620	235	125
ST29-80WS	80	SMD3030	144	100-277	>130	3000-6500				620	235	125
ST29-100WS	100	SMD3030	144	100-277	>130	3000-6500				620	235	125
ST29-100WM	100	SMD3030	192	100-277	>130	3000-6500	TYPE II TYPE III TYPE V	IP66&IK09	φ60	690	260	130
ST29-120WM	120	SMD3030	192	100-277	>130	3000-6500				690	260	130
ST29-150WM	150	SMD3030	192	100-277	>130	3000-6500				690	260	130
ST29-160WL	160	SMD3030	240	100-277	>130	3000-6500	TYPE II TYPE III TYPE V	IP66&IK09	φ60	810	320	135
ST29-180WL	180	SMD3030	240	100-277	>130	3000-6500				810	320	135
ST29-200WL	200	SMD3030	240	100-277	>130	3000-6500				810	320	135



TYPE II



TYPE III



TYPE V



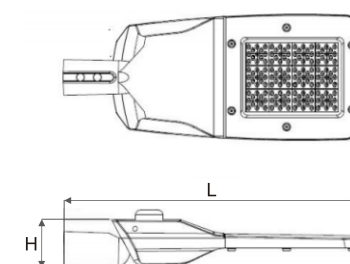
## ST31 Series

### Product Features:

- A. High pressure die-casting aluminum housing wth quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD3030 Led chips and high quality driver, assures long lifetime.
- D. Multiple beam angle optics for options according to various lighting applications.

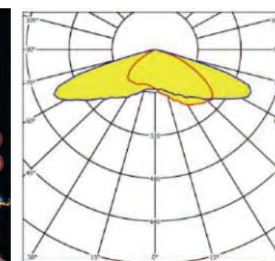
### Applications:

Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

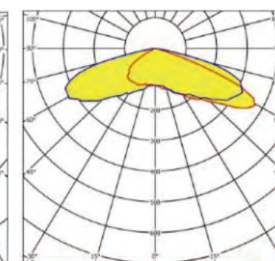


### Technical Parameter:

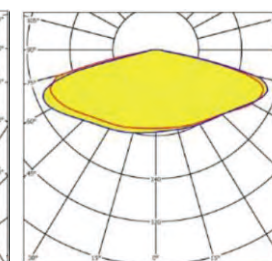
Model No.	Power (W)	LED type	LED's (pcs)	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP&IK	Pole Dia(mm)	Size(mm)		
										L	W	H
ST31-40WS	40	SMD3030	96	100-277	>130	3000-6500K	TYPE II TYPE III TYPE V	IP66&IK08	φ60	508	203	110
ST31-60WS	60	SMD3030	96	100-277	>130	3000-6500K				508	203	110
ST31-80WM	80	SMD3030	192	100-277	>130	3000-6500K				508	203	110
ST31-100WM	100	SMD3030	192	100-277	>130	3000-6500K	TYPE II TYPE III TYPE V	IP66&IK08	φ60	655	275	110
ST31-120WM	120	SMD3030	192	100-277	>130	3000-6500K				655	275	110
ST31-150WM	150	SMD3030	192	100-277	>130	3000-6500K				655	275	110
ST31-180WL	180	SMD3030	320	100-277	>130	3000-6500K	TYPE II TYPE III TYPE V	IP66&IK08	φ60	760	328	110
ST31-200WL	200	SMD3030	320	100-277	>130	3000-6500K				760	328	110



TYPE II



TYPE III



TYPE V

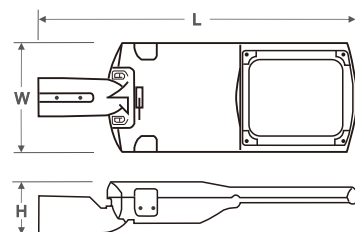




## ST33 Series

### Product Features:

- A. High pressure die-casting aluminum housing wth quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD3030 Led chips and high quality driver, assures long lifetime.
- D. Multiple beam angle optics for options according to various lighting applications.
- E. Equipped with a spirit level for easy installation and effective horizontal angle calibration.
- F. With movable handle, the installation angle is adjustable from 0-90 °; the lamp housing can be opened manually, and the power is automatically cut off, which is convenient for maintenance.

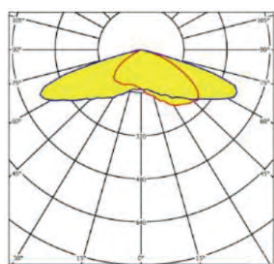


### Applications:

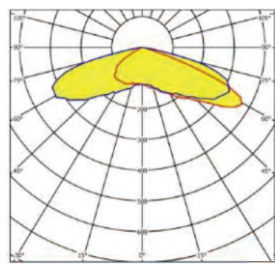
Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

### Technical Parameter:

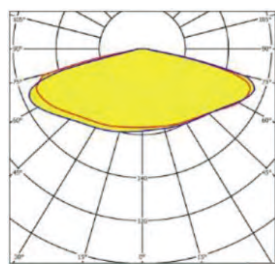
Model No.	Power	LED type	LED's (pcs)	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP&IK	Pole Dia(mm)	Size(mm)		
										L	W	H
ST33-40W	40W	SMD3030	96	100-277	>130	3000-6500	TYPE II TYPE III TYPE V	IP66&IK09	φ60	644	220	108
ST33-60W	60W	SMD3030	96	100-277	>130	3000-6500	TYPE V	IP66&IK09	φ60	644	220	108
ST33-80W	80W	SMD3030	192	100-277	>130	3000-6500		IP66&IK09	φ60	644	220	108
ST33-100W	100W	SMD3030	192	100-277	>130	3000-6500	TYPE II TYPE III TYPE V	IP66&IK09	φ60	719	270	109
ST33-120W	120W	SMD3030	192	100-277	>130	3000-6500		IP66&IK09	φ60	719	270	109
ST33-150W	150W	SMD3030	192	100-277	>130	3000-6500		IP66&IK09	φ60	719	270	109
ST33-180W	180W	SMD3030	320	100-277	>130	3000-6500	TYPE II TYPE III TYPE V	IP66&IK09	φ60	773	320	109
ST33-200W	200W	SMD3030	320	100-277	>130	3000-6500		IP66&IK09	φ60	773	320	109



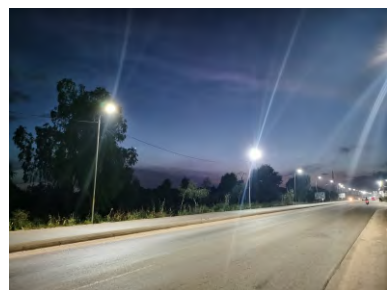
TYPE II



TYPE III



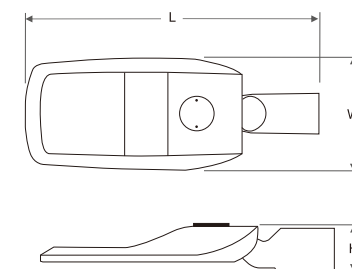
TYPE V



## ST35 Series

### Product Features:

- A. High pressure die-casting aluminum housing wth quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD3030 Led chips and high quality driver, assures long lifetime.
- D. Multiple beam angle optics for options according to various lighting applications.
- E. Equipped with a spirit level for easy installation and effective horizontal angle calibration.
- F. With movable handle, the installation angle is adjustable from 0-90 °; the lamp housing can be opened manually, and the power is automatically cut off, which is convenient for maintenance.

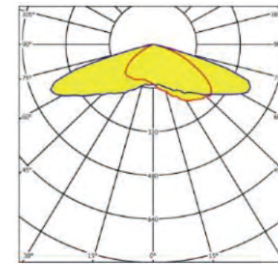


### Applications:

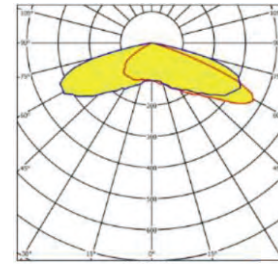
Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

### Technical Parameter:

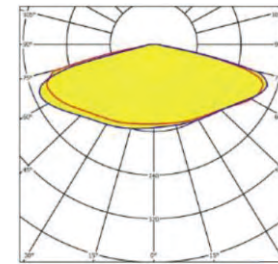
Model No.	Power	LED type	LED's (pcs)	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP&IK	Pole Dia(mm)	Size(mm)		
										L	W	H
ST35-40W	40W	SMD3030	96	100-277	>130	3000-6500	TYPE II TYPE III TYPE V	IP66&IK09	φ60	561	214	88
ST35-60W	60W	SMD3030	96	100-277	>130	3000-6500		IP66&IK09	φ60	561	214	88
ST35-80W	80W	SMD3030	192	100-277	>130	3000-6500		IP66&IK09	φ60	561	214	88
ST35-100W	100W	SMD3030	192	100-277	>130	3000-6500	TYPE II TYPE III TYPE V	IP66&IK09	φ60	679	281	90
ST35-120W	120W	SMD3030	192	100-277	>130	3000-6500		IP66&IK09	φ60	679	281	90
ST35-150W	150W	SMD3030	192	100-277	>130	3000-6500		IP66&IK09	φ60	679	281	90
ST35-180W	180W	SMD3030	320	100-277	>130	3000-6500	TYPE II TYPE III TYPE V	IP66&IK09	φ60	714	320	90
ST35-200W	200W	SMD3030	320	100-277	>130	3000-6500		IP66&IK09	φ60	714	320	90



TYPE II



TYPE III



TYPE V

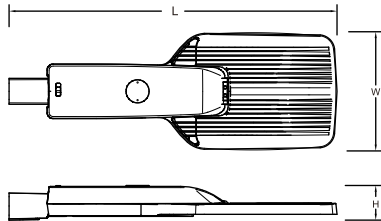




### ST38 Series

#### Product Features:

- A. High pressure die-casting aluminum housing with quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD3030 Led chips and high quality driver, assures long lifetime.
- D. Multiple beam angle optics for options according to various lighting applications.
- E. Equipped with a spirit level for easy installation and effective horizontal angle calibration.
- F. With movable handle, the installation angle is adjustable from 0-90 °; the lamp housing can be opened manually, and the power is automatically cut off, which is convenient for maintenance.

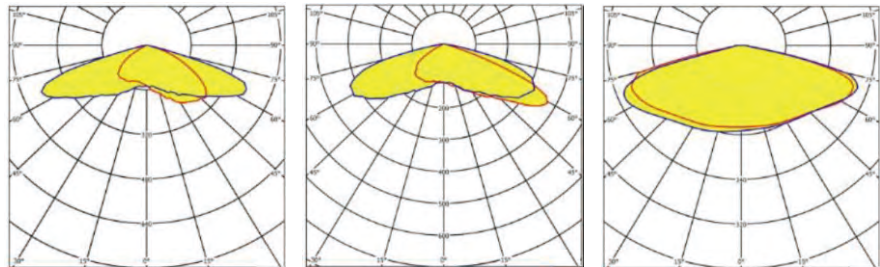


#### Applications:

Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

#### Technical Parameter:

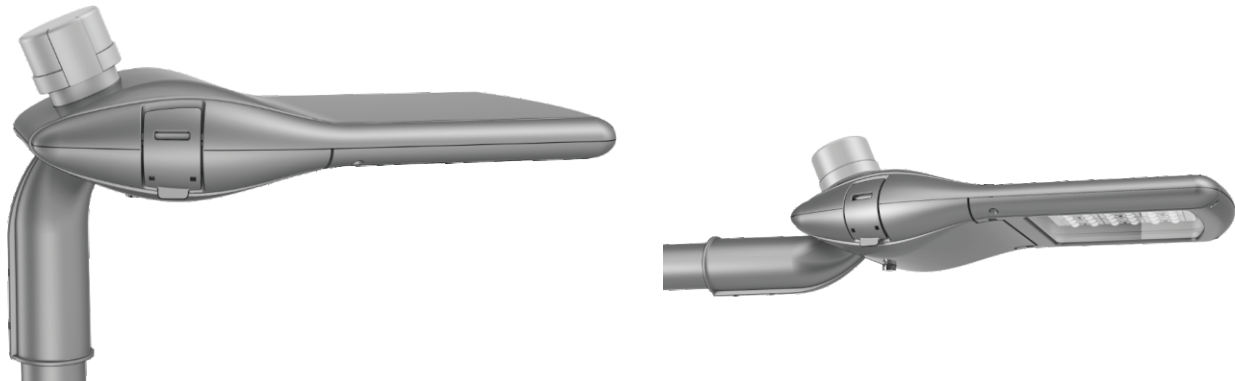
Model No.	Power	LED type	LED's (pcs)	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP&IK	Pole Dia(mm)	Size(mm)		
										L	W	H
ST38-40WS	40W	SMD3030	96	100-277	>130	3000-6500	TYPE II	IP66&IK09	φ60	680	230	98
ST38-60WS	60W	SMD3030	96	100-277	>130	3000-6500	TYPE III	IP66&IK09	φ60	680	230	98
ST38-80WM	80W	SMD3030	192	100-277	>130	3000-6500	TYPE V	IP66&IK09	φ60	799	284	98
ST38-100WM	100W	SMD3030	192	100-277	>130	3000-6500	TYPE II	IP66&IK09	φ60	799	284	98
ST38-120WM	120W	SMD3030	192	100-277	>130	3000-6500	TYPE III	IP66&IK09	φ60	799	284	98
ST38-150WM	150W	SMD3030	192	100-277	>130	3000-6500	TYPE V	IP66&IK09	φ60	799	284	98
ST38-180WL	180W	SMD3030	320	100-277	>130	3000-6500	TYPE II	IP66&IK09	φ60	928	337	98
ST38-200WL	200W	SMD3030	320	100-277	>130	3000-6500	TYPE III	IP66&IK09	φ60	928	337	98
							TYPE V	IP66&IK09	φ60	928	337	98



TYPE II

TYPE III

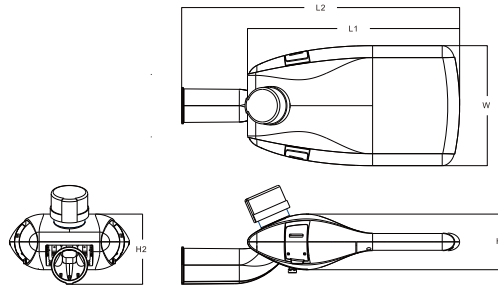
TYPE V



### ST39 Series

#### Product Features:

- A. High pressure die-casting aluminum housing with quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD3030 or 5050 chips and high quality driver, assures long lifetime.
- D. Multiple beam angle optics for options according to various lighting applications.
- E. With movable handle, the installation angle is adjustable from 0-90 °; the lamp housing can be opened manually, and the power is automatically cut off, which is convenient for maintenance.

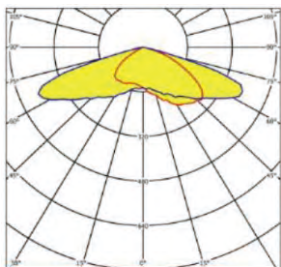


#### Applications:

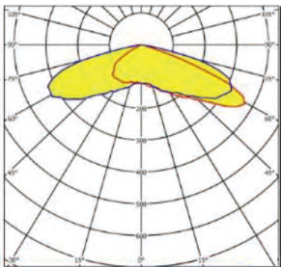
Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

#### Technical Parameter:

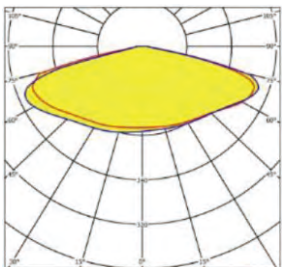
Model No.	Power	LED type	LED's (pcs)	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP&IK	Pole Dia(mm)	Size(mm)					
										L1	L2	W	H1	H2	
ST39-40WS	40W	SMD3030	72	100-277	>130	3000-6500	TYPE II	IP66&IK09	φ60	442	579	250	116	146	
ST39-50WS	50W	SMD3030	72	100-277	>130	3000-6500	TYPE III	IP66&IK09	φ60	442	579	250	116	146	
ST39-60WM	60W	SMD3030	72	100-277	>130	3000-6500	TYPE V	IP66&IK09	φ60	442	579	250	116	146	
ST39-80WM	80W	SMD3030	144	100-277	>130	3000-6500	TYPE II	IP66&IK09	φ60	525	660	300	105	138	
ST39-100WM	100W	SMD3030	144	100-277	>130	3000-6500	TYPE III	IP66&IK09	φ60	525	660	300	105	138	
ST39-120WM	120W	SMD3030	144	100-277	>130	3000-6500	TYPE V	IP66&IK09	φ60	525	660	300	105	138	
ST39-150WL	150W	SMD3030	256	100-277	>130	3000-6500	TYPE II	IP66&IK09	φ60	596	731	325	116	143	
ST39-180WL	180W	SMD3030	256	100-277	>130	3000-6500	TYPE III	IP66&IK09	φ60	596	731	325	116	143	
ST39-200WL	200W	SMD3030	256	100-277	>130	3000-6500	TYPE V	IP66&IK09	φ60	596	731	325	116	143	



TYPE II



TYPE III



TYPE V





### ST40 Series

#### Product Features:

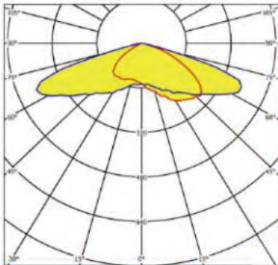
- A. High pressure die-casting aluminum housing wth quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD3030 or 5050 chips and high quality driver, assures long lifetime.
- D. Multiple beam angle optics for options according to various lighting applications.
- E. Fixed angle or movable handle optional, the installation angle is adjustable from 0-90 °

#### Applications:

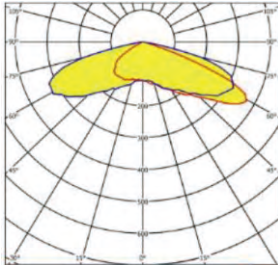
Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

#### Technical Parameter:

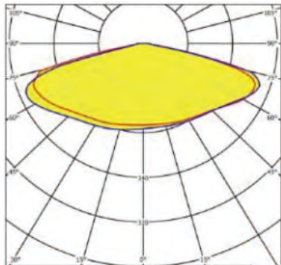
Model No.	Power	LED type	LED's	Input Volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP&IK	Pole Dia(mm)	Size(mm)		
										L	W	H
ST40-30W	30W	SMD3030 SMD5050	48PCS 24PCS	100-277	>140	3000-6500	TYPE II	IP66/IK09	φ48	348	173	77
ST40-40W	40W			100-277	>140	3000-6500	TYPE II	IP66/IK09	φ48	348	173	77
ST40-50W	50W			100-277	>140	3000-6500	TYPE II	IP66/IK09	φ48	348	173	77
ST40-60W	60W	SMD3030 SMD5050	160PCS 48 PCS	100-277	>140	3000-6500	TYPE II	IP66/IK09	φ60	425	230	88
ST40-80W	80W			100-277	>140	3000-6500	TYPE II	IP66/IK09	φ60	425	230	88
ST40-100W	100W			100-277	>140	3000-6500	TYPE II	IP66/IK09	φ60	425	230	88
ST40-120W	120W	SMD3030 SMD5050	192PCS 96 PCS	100-277	>140	3000-6500	TYPE II	IP66/IK09	φ60	425	230	88
ST40-120W	120W			100-277	>140	3000-6500	TYPE II	IP66/IK09	φ60	555	311	88
ST40-150W	150W			100-277	>140	3000-6500	TYPE II	IP66/IK09	φ60	555	311	88
ST40-160W	160W			100-277	>140	3000-6500	TYPE II	IP66/IK09	φ60	555	311	88



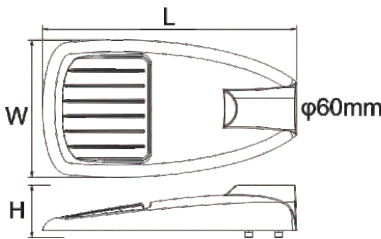
TYPE II



TYPE III



TYPE V



### ST41 Series

#### Product Features:

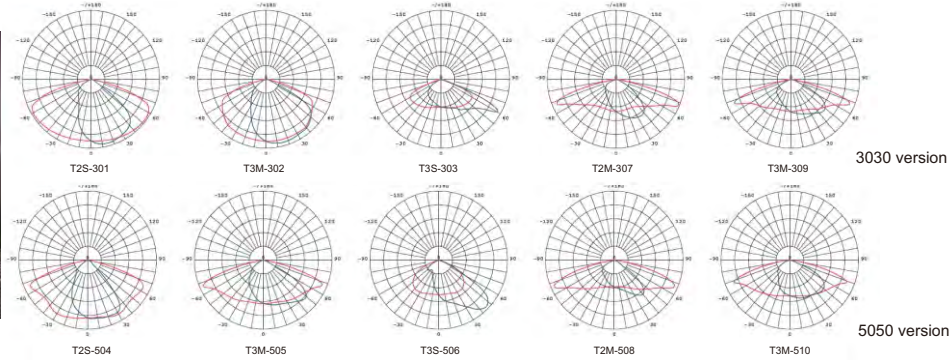
- A. High pressure die-casting aluminum housing wth quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD3030 or 5050 chips and high quality driver, assures long lifetime.
- D. Multiple beam angle optics for options according to various lighting applications.
- E. With movable handle, the installation angle is adjustable from 0-90 °; the lamp housing can be opened manually, and the power is automatically cut off, which is convenient for maintenance.

#### Applications:

Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

#### Technical Parameter:

Model No.	Power (W)	Input Volt (V)	LED type	LED's (pcs)	Lumen (LM/W)	CCT (K)	Beam Angle	IP&IK	Pole Dia(mm)	Size(mm)		
										L	W	H
ST41-40WS	40	100-277	SMD3030 SMD5050	64/24	>140@3030 >160@5050	3000-6500	TYPE II TYPE III	IP66&IK10	φ60	610	190	143
ST41-60WS	60	100-277		96/36		3000-6500		IP66&IK10	φ60	610	190	143
ST41-80WS	80	100-277		96/36		3000-6500		IP66&IK10	φ60	610	190	143
ST41-100WM	100	100-277	SMD3030 SMD5050	168/60	>140@3030 >160@5050	3000-6500	TYPE II TYPE III	IP66&IK10	φ60	660	240	143
ST41-120WM	120	100-277		192/72		3000-6500		IP66&IK10	φ60	660	240	143
ST41-150WM	150	100-277		192/72		3000-6500		IP66&IK10	φ60	660	240	143
ST41-180WL	180	100-277	SMD3030 SMD5050	288/104	>140@3030 >160@5050	3000-6500	TYPE II TYPE III	IP66&IK10	φ60	762	290	143
ST41-200WL	200	100-277		320/120		3000-6500		IP66&IK10	φ60	762	290	143
ST41-240WL	240	100-277		384/144		3000-6500		IP66&IK10	φ60	762	290	143

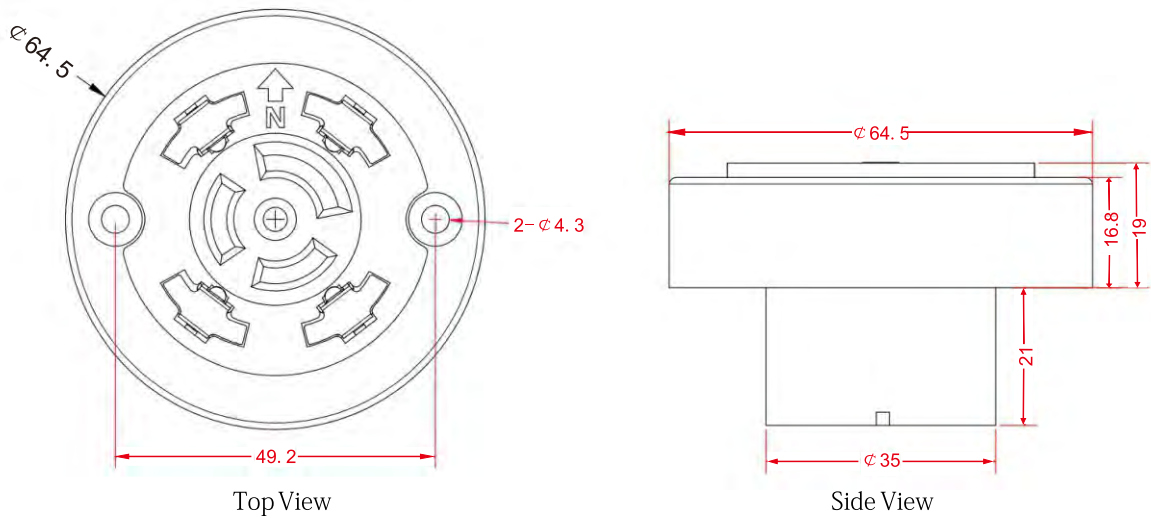




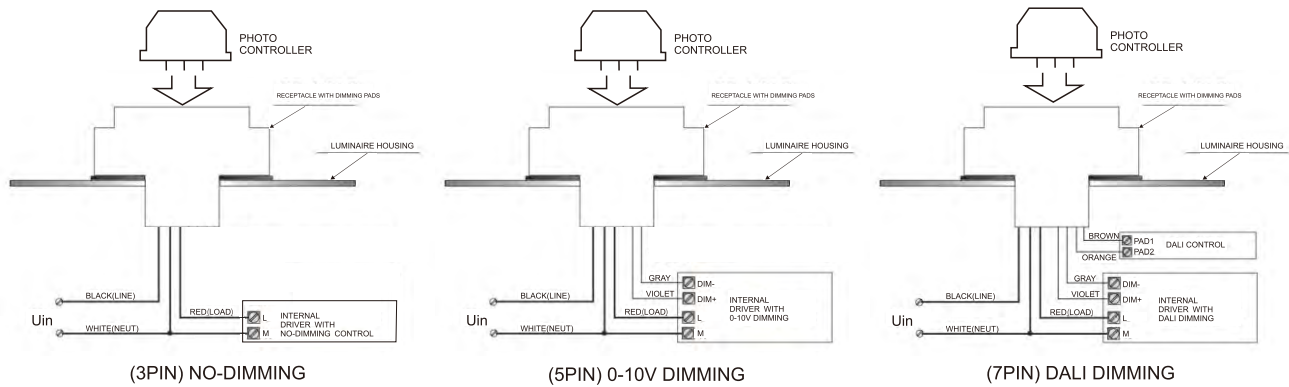
(NEMA) INTELLIGENT  
STREET LIGHTING SOLUTION



PRODUCT DIMENSIONS(7 Pin for Dimming)



WIRING DIAGRAM



External locking control drive socket

Meets ANSI C136.41 & UL773 standards

Street Lights | Light Controllers | Parking Lighting

Model No.	Function	Power contact		Dimming contact	
		Rated current	Rated voltage	Rated current	Rated voltage
JL-230F	3PIN (power supply)	15A	480V AC/DC	//	//
JL-240FXB	5PIN (power supply+2 signals)	15A	480V AC/DC	0.25A max	30 VDC max
JL-240FXA	7PIN (power supply+4 signals)	15A	480V AC/DC	0.25A max	30 VDC max

cUR certification meets UL 773 standard

**Material**

- Copper alloy, tin-plated nickel plating
- Copper alloy, nickel plated
- Polyester PBT fiberglass, UL 94V-0 flammability rating

Light control switch | controller | short circuit cap

Meets ANSI C136.41 & UL773 standards

Light switch

Model No.	Input voltage	Circuit type	IP degree	PF	On/off time
JL-205C15-IP54F	100-277V AC	Analog	IP54	Low	3~20S ON/OFF
JL-205C15-IP65F	100-277V AC	Analog	IP65	Low	3~20S ON/OFF
JL-215C15-IP54F	100-277V AC	Analog	IP54	High	3~20S ON/OFF
JL-215C15-IP65F	100-277V AC	Analog	IP65	High	3~20S ON/OFF
JL-207C5F15SP-IP54F	100-277V AC	Digital	IP54	High	3~20S ON/OFF
JL-207C5F15SP-IP65F	100-277V AC	Digital	IP65	High	3~20S ON/OFF

Controller

Model No.	Communication Method	Transmission Distance	Input voltage	Dimming	Switch Number
JL-245CZ	Zigbee	500m	100-277V AC	0~10V DC	10000
JL-246CG	Zigbee + LTE	500m+2000m	100-277V AC	0~10V DC	10000
JL-245CN	NB-IoT	2000m	100-277V AC	0~10V DC	10000

**Characteristics**

- Remote switch, dimming
- Single lamp current, voltage, power factor, power and temperature detection, etc.
- Intelligent adjustment of street lights according to weather conditions and actual illuminance

Short circuit cap | open hat

Model No.	Input voltage	Max current	Shell Material	Features	Operation Temperature
JL-208-IP66	100-480V AC	15A	Anti-UV PC	Connect AC line-in to load	40°C~70°C

**Characteristics**

- Switch brightness threshold is different to prevent false triggering
- 3-wire NEMA interface for compatibility with multiple loads
- IP65 protection rating
- High quality and stable performance



(ZHAGA) INTELLIGENT STREET LIGHTING SOLUTION

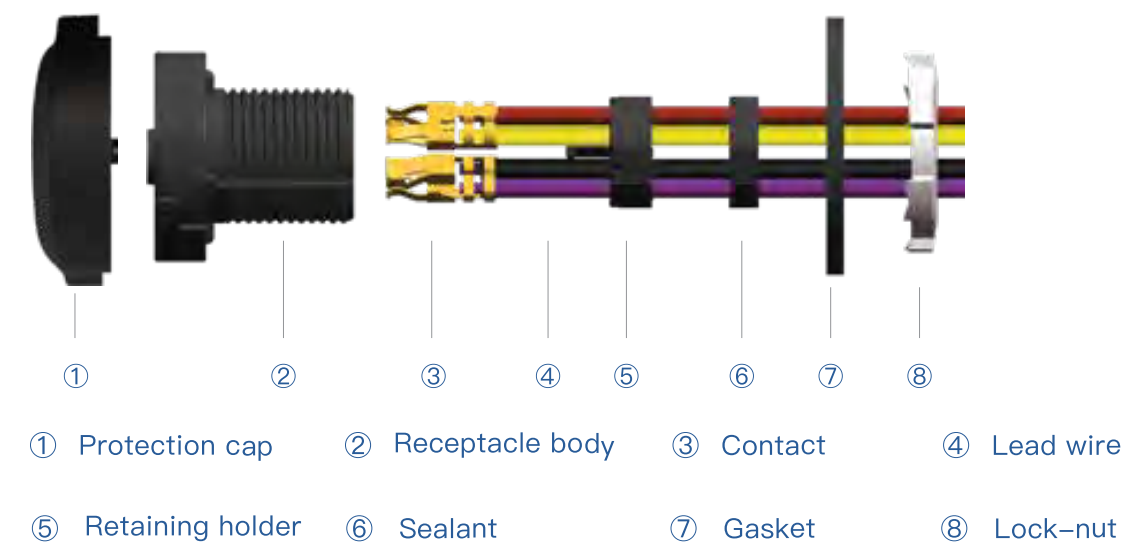
In 2013, the US ANSI C136.41 launched the NEMA standard interface; in 2018, the EU launched the ZHAGA BOOK18 standard interface. At the same time, the US ANSI is preparing relevant standards so that the street light controller can upgrade the docking LED drive power in a standardized manner.



NEMA VS ZHAGA

ITEMS	NEMA	ZHAGA	Advantage over NEMA
Structural cost	High	Low	The structure cost is about 1/3 of the NEMA interface
Electronic cost	High	Low	Under the same functional specifications, the electronic material cost is about \$ 2.0 less.
Volume	Big	Small	The volume is about 1/5 ~ 1/20 of NEMA products (according to the specific model)
Installation location	On the top	Any position	The difference in structural parts makes ZHAGA interface can be installed in any direction
IP rating	High in single direction	High in all directions	Any installation direction, ZHAGA interface can reach IP65 protection level
Power supply	AC	DC	Facilitates the application under various voltages conditions around the world
Applicable scene	Less	Many	Because of small size, easy installation and all-direction IP65 ZHAGA is suitable for almost any interface lighting applications

PRODUCT LAYERING DIAGRAM



Interface definition:

- 1) Contact rating: 1.5A, 30V (typical value 24V).
- 2) Support hot plug function: plug and play, plug and play.
- 3) 4 contacts:
  - PIN1 (red): 24VDC + (European regulation brown / American regulation red).
  - PIN2 (black): DALI standard protocol interface / ground wire [GND / DALI-] (European gray / American black).
  - PIN3 (red): DALI standard protocol interface [DALI +] (European blue / American purple).
  - PIN4 (red): conventional input and output (I / O) [GPIO] (European regulation black / American regulation yellow).

Control method:

- 1. Light control.
- 2. Remote system platform control.
- 3. Other local sensors and remote coordination control.

Applicable scene:

ZHAGA series light controller is a smart twist lock type light controller developed according to ZHAGA BOOK18 interface standard. According to different models, they are equipped with different sensors (light sensor, infrared, microwave, etc.) and different wireless communication (BLE, WIFI, ZIGBEE, etc.). The dimming method is DALI / 0-10V / PWM. It is widely used in applications such as roads, parks, shopping malls, offices, factories, and parking lots.

**JL-701A** Local control

Light sensor switch (0 / 10V)  
Ultra low cost  
Interference light source to prevent false triggering  
IP66

Applicable scene:  
Road, lawn, courtyard, park

● Size

JL-701A

**JL-7X1** Local + wireless control

Light dimming (0 / 10V/DALI)  
Strategy customization  
Reduce brightness at midnight  
IP66  
Multi wireless control  
Interference light source to prevent false triggering  
Light reflection compensation

Applicable scene:  
Road, lawn, courtyard, park

● Size

JL-7X1

**JL-7X2** Local + wireless control

Light sense + microwave  
(0 / 10V/DALI)  
Power saving  
IP66  
Multi wireless control  
Interference light source to prevent false triggering  
Strategy customization

Applicable scene:  
Parking garage, factory, park, courtyard, corridor, office, home

● Size

JL-7X2



# Background of intelligent lighting



High power consumption



CLINTON  
CLIMATE  
INITIATIVE

Climate and Environment protection

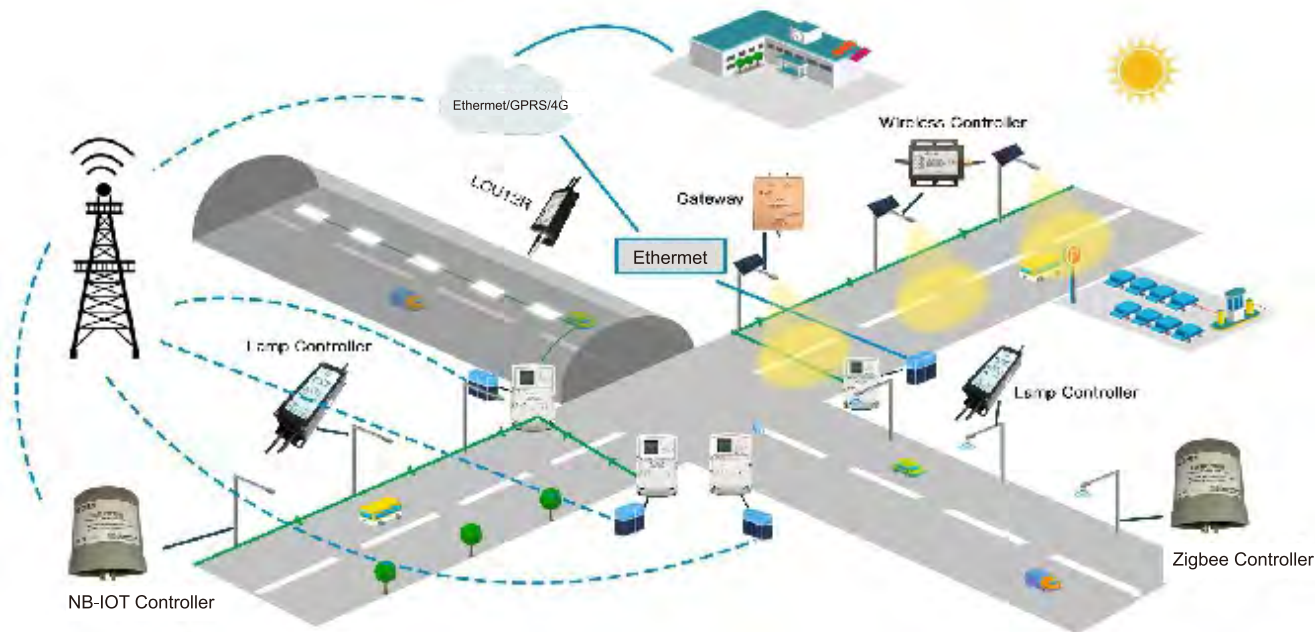


Smart city developing

## Benefits by intelligent lighting:

- 1- Conventional street lights are accelerating to change with LED luminaires in road and urban.
- 2- Relying on citizens to report faults of street lights.
- 3- Can not control and monitor your streetlights by remote or retrieve vital information.
- 4- No idea of burning hours of streetlights and their rest life as well as precisely consumption of KWH.
- 5- Request for the right level or switch on/off of lighting at the right place and time without compromising in advance.

# Intelligent Lighting Solutions

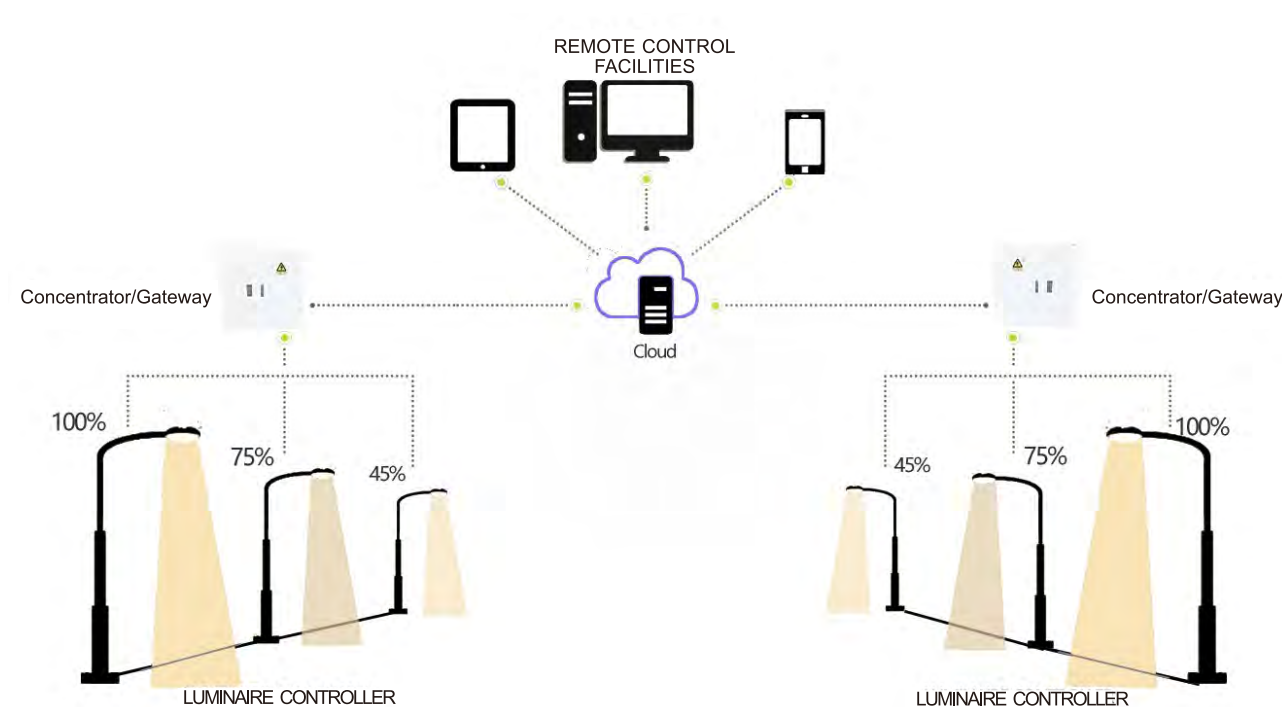


## Solutions Comparison

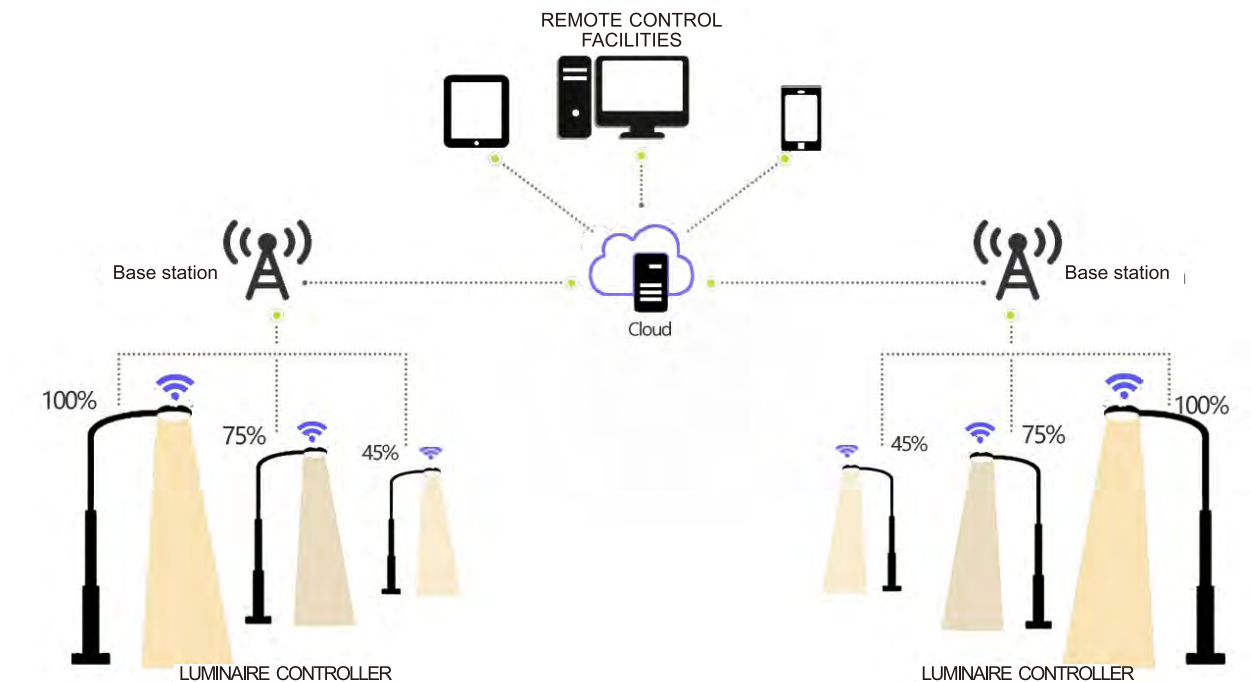
ITEMS	PLC	ZIGBEE	GPRS	LORA
Frequency Band	/	470M/868M /915M /2.4G Hz	850/900/1800 MHz	470/868/915 MHz
Comm. Distance	Node to Node: 500m	Node to Node: 150m	Unlimited	10-15KM ideally
Comm. Speed	5.5-20Kbps	250 Kbps	115K bps	0.2~37.5 Kbps
Dis-advantage	Comm distance short High maintenance -cost Weak anti -intefere nce	Interfered by other radio 255 nodes connect Max Short comm. distance	Data loss	Low speed comm.
Advantage	Security Data comm stable No need comm. cable	Auto -mesh High comm speed	Good Security Good anti -interference Short time accessing Low power consu mption Low maintenance High comm.speed	Good Security Good anti -interference Low power consumption Low maintenance Multi -connections,Wlan Free frequency



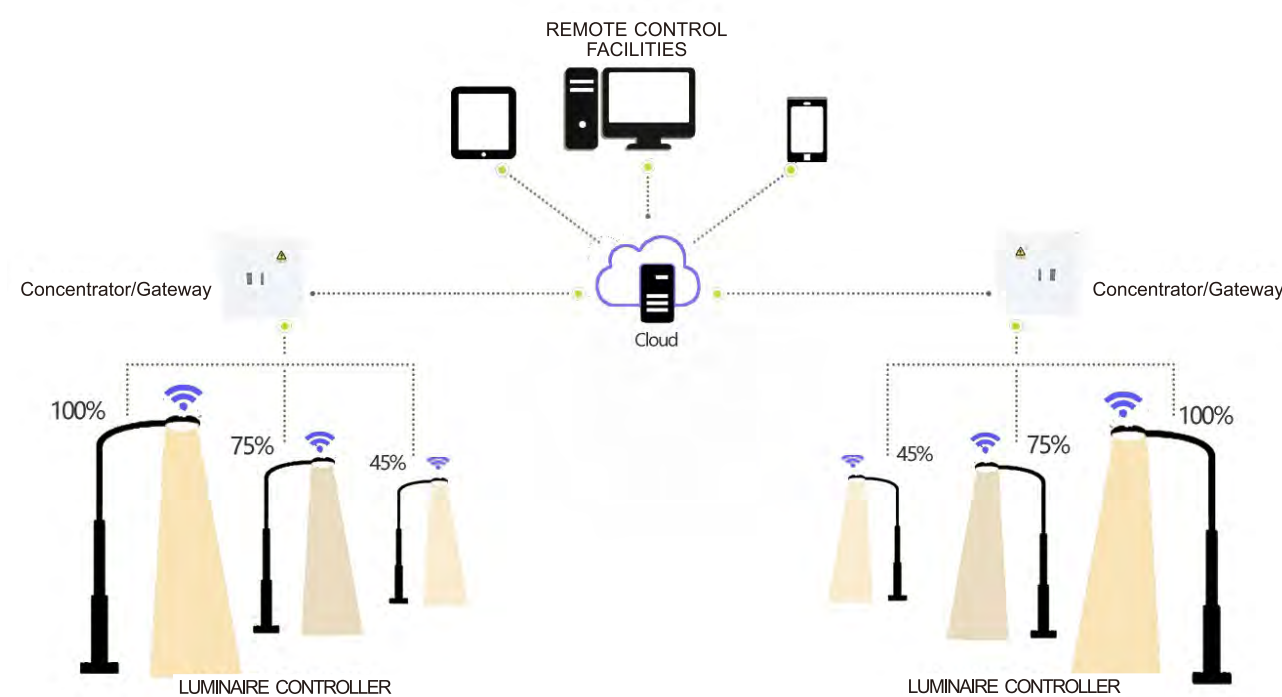
# PLC lighting solution



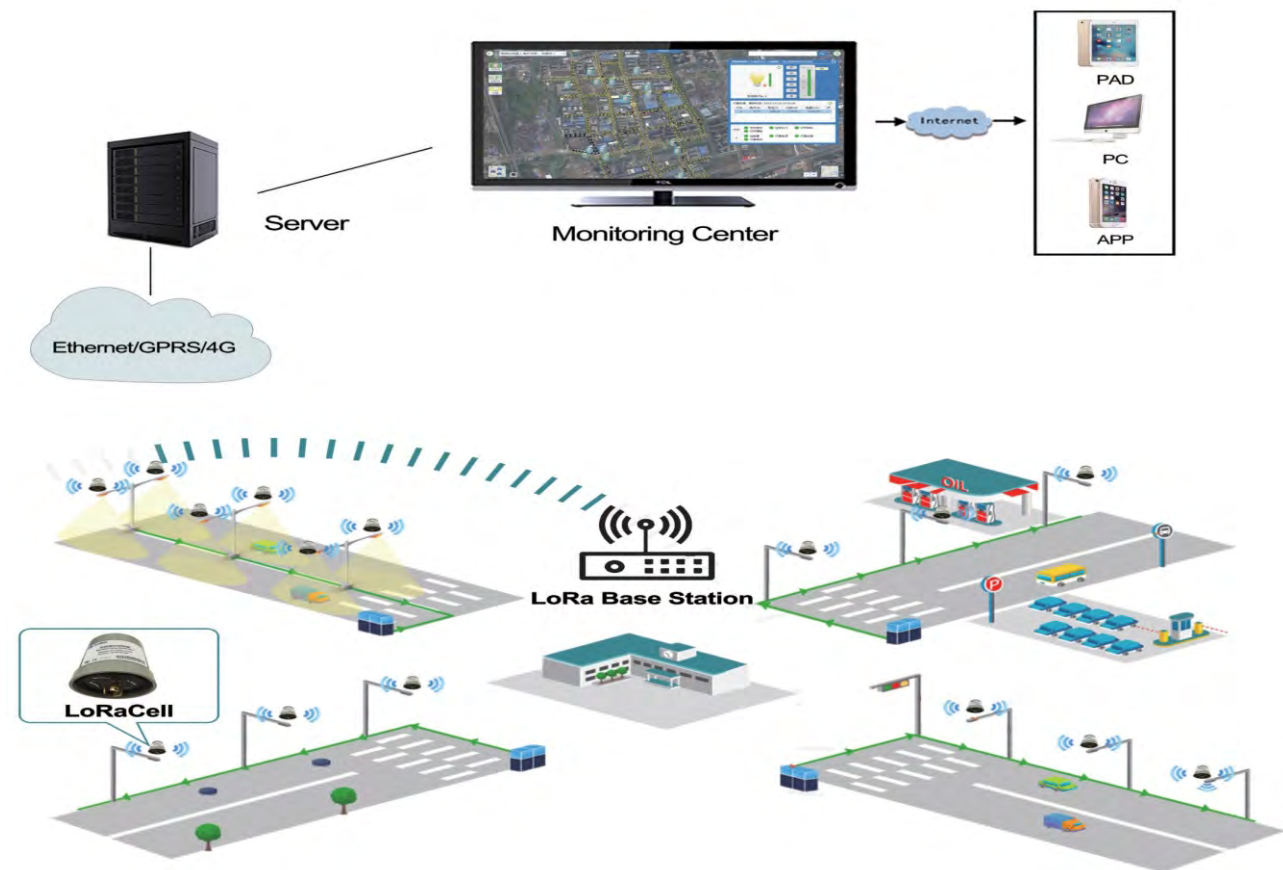
# GPRS/4G-LTE Solution



# Zigbee lighting solution



# LORA Solution





SOLAR LIGHTING

10W-80W





## ❖ IST7 Series

### Product Features:

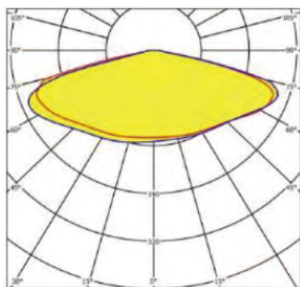
- A. Innovative, super-slim and beautiful integrated design.
- B. Mono-silicon solar panels, much higher efficiency compared to poly-silicon panels.
- C. Powerful lithium battery, cycling time is 1500 times plus, long lifetime and high security.
- D. Top SMD5050 chips, efficiency up to be 180lm/W, 50% higher than traditional chips.
- E. Infrared sensor, more sensitive to human movement, avoiding interference from others.
- F. Intelligent MPPT controller, high charging efficiency, with various protection functions.
- G. With functions of light control, human infrared sensor, bluetooth APP and patchway indicator.

### Applications:

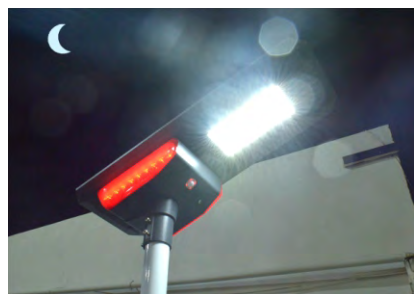
Widely used in the public area lighting branch, industrial areas, parks, gardens, squares and so on.

### Technical Parameters:

Model	Lamp Power	LED Type	LED's (pcs)	Solar Panel	Lithium Battery	Sensor	Dimming	Lumen (lm/w)	Beam Angle	IP Degree	Pole Dia(mm)	Size(mm)		
												L	W	H
IST7-5030	30W	LUXEON5050	42(1)	50W/18V	260WH/11.1V	PIR	Time+Sensor	>150	TYPE V-S	IP66	φ60	925	360	270
IST7-6040	40W	LUXEON5050	42(1)	60W/18V	317WH/11.1V	PIR	Time+Sensor	>150	TYPE V-S	IP66	φ60	1105	360	270
IST7-7050	50W	LUXEON5050	60(1)	70W/18V	346WH/11.1V	PIR	Time+Sensor	>150	TYPE V-S	IP66	φ60	1250	360	270
IST7-8060	60W	LUXEON5050	60(1)	80W/18V	404WH/11.1V	PIR	Time+Sensor	>150	TYPE V-S	IP66	φ60	1430	360	270
IST7-9070	70W	LUXEON5050	84(2)	90W/18V	462WH/11.1V	PIR	Time+Sensor	>150	TYPE V-S	IP66	φ60	1575	360	270
IST7-9080	80W	LUXEON5050	84(2)	90W/18V	520WH/11.1V	PIR	Time+Sensor	>150	TYPE V-S	IP66	φ60	1575	360	270
IST7-1010	100W	LUXEON5050	126(3)	100W/18V	693WH/11.1V	PIR	Time+Sensor	>150	TYPE V-S	IP66	φ60	1755	360	270
IST7-1212	120W	LUXEON5050	126(3)	120W/18V	808WH/11.1V	PIR	Time+Sensor	>150	TYPE V-S	IP66	φ60	1965	360	270



TYPE V



## ❖ IST9 Series

### Product Features:

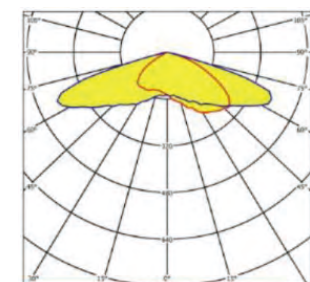
- A. The overall design is compact and the structure is novel; the protection level of the whole lamp is high, reaching IP66.
  - B. The installation method is the same as the conventional street lamp; and no additional cable is needed, which is very simple and the installation cost is low.
  - C. Using Philips LUXOEN 5050 LED chips, color temperature 4000-6500K optional; light efficacy is up to 160LM/W or more.
  - D. Built-in microwave sensor, can realize intelligent switch, save energy to the greatest extent, extend working time.
- Two working models for options: 1) 4 hours full power + 8 hours microwave induction (100% of people, 30% of people); 2) 12-hour microwave induction (100% of people and 30% of people), for different applications.

### Applications:

Widely used in the public area lighting branch, industrial areas, parks, gardens, squares and etc.

### Technical Parameters:

Model	Lamp Power	LED Type	Solar Panel	Lithium Battery	Sensor	Dimming	Lumen (lm/W)	Beam Angle	IP Degree	Pole Dia(mm)	Size(mm)		
											L	W	H
IST9-3020	20W	LUXEON5050(1)	30W/18V	220WH/11.1V	Motion/PIR	Time+Sensor	>160	TYPE II-S	IP66	φ60	750	257	102
IST9-3030	30W	LUXEON5050(2)	30W/18V	330WH/11.1V	Motion/PIR	Time+Sensor	>160	TYPE II-S	IP66	φ60	750	257	102
IST9-5040	40W	LUXEON5050(3)	50W/18V	440WH/11.1V	Motion/PIR	Time+Sensor	>160	TYPE II-S	IP66	φ60	945	298	126
IST9-5050	50W	LUXEON5050(4)	50W/18V	550WH/11.1V	Motion/PIR	Time+Sensor	>160	TYPE II-S	IP66	φ60	945	298	126



TYPE II





## ❖ IST10 Series

### Product Features:

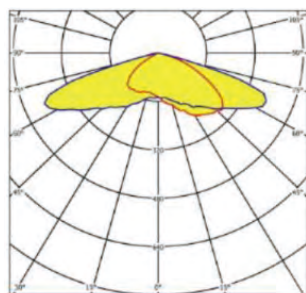
- A. The overall design is compact and the structure is novel; the protection level of the whole lamp is high, reaching IP66.
  - B. The installation method is the same as the conventional street lamp; and no additional cable is needed, which is very simple and the installation cost is low.
  - C. Using Philips LUXOEN 3030 LED chips, color temperature 4000-6500K optional; light efficacy is up to 150LM/W or more.
  - "D. Built-in microwave sensor, can realize intelligent switch, save energy to the greatest extent, extend working time.
- Default working model: 4H, 100%; 4H, 50% when somebody and 15% when nobody; 8H, 30% when somebody and 15% when nobody."
- Of course, other models can be set according to the requests from the clients.

### Applications:

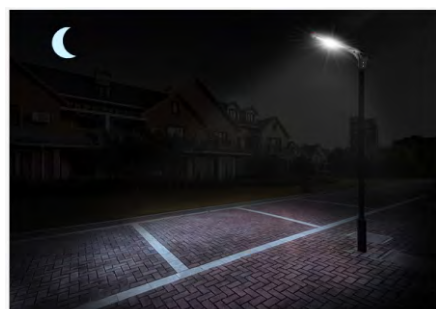
Widely used in the public area lighting branch, industrial areas, parks, gardens, squares and etc.

### Technical Parameters:

Model	Lamp Power	LED Type	Solar Panel	Lithium Battery	Sensor	Dimming	Lumen (lm/W)	Beam Angle	IP Degree	Pole Dia(mm)	Size(mm)		
											L	W	H
IST10-1515	15W	LUXOEN3030	15W/18V	58WH/11.1V	PIR	Time+Sensor	>150	TYPE II-S	IP66	φ60	760	180	220
IST10-2020	20W	LUXOEN3030	20W/18V	115WH/11.1V	PIR	Time+Sensor	>150	TYPE II-S	IP66	φ60	1080	180	220
IST10-3030	30W	LUXOEN3030	30W/18V	173WH/11.1V	PIR	Time+Sensor	>150	TYPE II-S	IP66	φ60	1410	180	220
IST10-4040	40W	LUXOEN3030	40W/18V	231WH/11.1V	PIR	Time+Sensor	>150	TYPE II-S	IP66	φ60	1730	180	220



TYPE II



## ❖ DST1 Series

### Product Features:

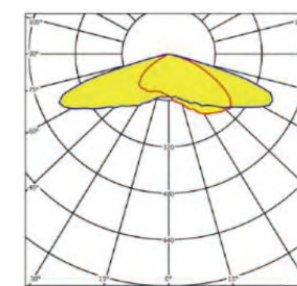
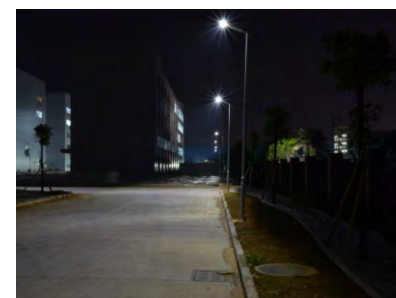
- A. Innovative, simple and beautiful integrated design.
- B. Modular light source, high luminous efficiency, low assembly costs.
- C. Mono-silicon solar panel, with higher efficiency compared to mono-silicon type.
- D. Lithium iron phosphate battery, with longer life and better environmental protection.
- E. Microwave sensor, the distance can be 10-12m, according to different distance requirement.
- F. Intelligently adjust lumen output by 100%~20%, according to time and site personnel situation.
- G. IP66 protection class, reliable performance, extending lifetime to 50,000 hours, 3 years warranty.

### Applications:

Widely used in the public area lighting branch, industrial areas, parks, gardens and squares.

### Technical Parameters:

Model	Lamp Power	LED Type	Solar Panel	Lithium Battery	Sensor	Dimming	Beam Angle	Lumen (lm/w)	Pole Dia(mm)	Pole Height
DST1-4010	10W	LUXEON3030	40W/18V	115WH/6.4V	Motion	Time+Sensor	TYPE II-S	>160	φ60	2-4m
DST1-5015	15W	LUXEON3030	50W/18V	160WH/6.4V	Motion	Time+Sensor	TYPE II-S	>160	φ60	3-5m
DST1-6020	20W	LUXEON3030	60W/18V	224WH/6.4V	Motion	Time+Sensor	TYPE II-S	>160	φ60	4-6m
DST1-9030	30W	LUXEON3030	90W/18V	345WH/6.4V	Motion	Time+Sensor	TYPE II-S	>160	φ60	5-8m



TYPE II





## ❖ DST2 Series

### Product Features:

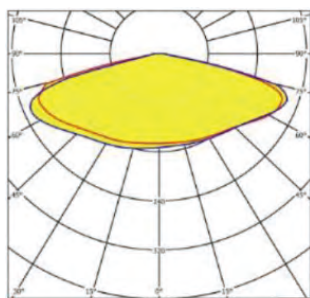
- A. Innovative, simple and beautiful all-in-two integrated design.
- B. Mono-silicon solar panels, much higher efficiency compared to poly-silicon panels.
- C. Powerful lithium battery, cycling time is 1500 times plus, long lifetime and high security.
- D. Top SMD5050 chips, up to be 150lm/W, much higher than traditional chips 120lm/W.
- E. Infrared sensor, more sensitive to human movement, avoiding interference from others.
- F. Intelligent MPPT controller, high charging efficiency, with various protection functions.
- G. With functions of light control, human infrared sensor, bluetooth APP and patchway indicator.

### Applications:

Widely used in the public area lighting branch, industrial areas, parks, gardens, squares and so on.

### Technical Parameters:

Model	Lamp Power	LED Type	Solar Panel	Lithium Battery	Sensor	Control	Beam Angle	Lumen (lm/W)	Pole Dia(mm)	Pole Height
DST2-4030	30W	LUXEON5050	50W/18V	233WH/11.1V	PIR	Sensor+APP	TYPE V-S	> 150	φ60	5-7m
DST2-5040	40W	LUXEON5050	50W/18V	289WH/11.1V	PIR	Sensor+APP	TYPE V-S	> 150	φ60	6-8m
DST2-6050	50W	LUXEON5050	70W/18V	344WH/11.1V	PIR	Sensor+APP	TYPE V-S	> 150	φ60	6-9m
DST2-7060	60W	LUXEON5050	70W/18V	400WH/11.1V	PIR	Sensor+APP	TYPE V-S	> 150	φ60	7-10m



TYPE V



## ❖ DST3 Series

### Product Features:

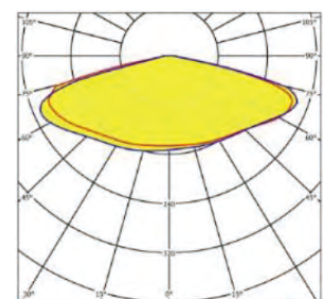
- A. Innovative, simple and beautiful integrated design.
- B. Modular light source, high luminous efficiency, low assembly costs.
- C. Mono-silicon solar panel, with higher efficiency compared to poly-silicon type.
- D. Long-life Li-NCM battery, with longer life and better environmental protection.
- E. PIR sensor, the distance can be 8-10m, according to different distance requirement.
- F. Intelligently adjust lumen output by 100%~20%, according to time and site personnel situation.
- G. IP66 protection class, reliable performance, extending lifetime to 30,000 hours, 3 years warranty.

### Applications:

Widely used in the public area lighting branch, industrial areas, parks, gardens and squares.

### Technical Parameters:

Model	Lamp Power	LED Type	Solar Panel	Lithium Battery	Sensor	Dimming	Beam Angle	Lumen (lm/w)	Pole Dia(mm)	Pole Height
DST3-3540	40W	LUXEON3030	35W/18V	115WH/11.1V	PIR	Sensor+APP	TYPE V-S	>150	φ60	6-8m
DST3-5060	60W	LUXEON3030	50W/18V	173WH/11.1V	PIR	Sensor+APP	TYPE V-S	>150	φ60	7-9m
DST3-6580	80W	LUXEON3030	65W/18V	231WH/11.1V	PIR	Sensor+APP	TYPE V-S	>150	φ60	8-10m



TYPE V





## ❖ DST5 Series

### Product Features:

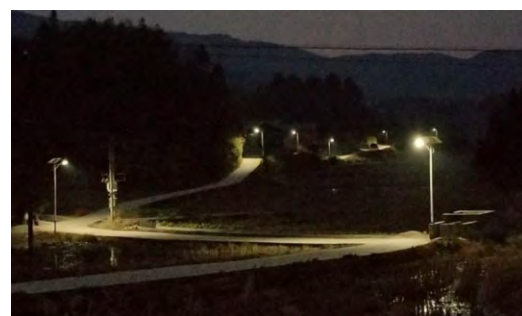
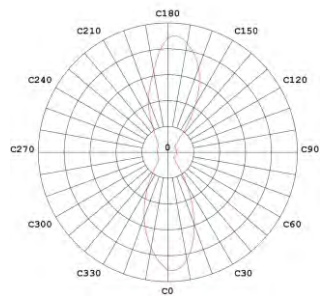
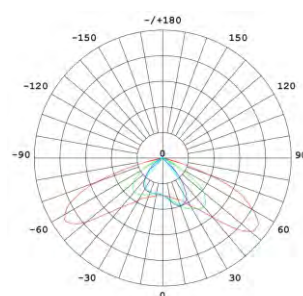
- A. Innovative, simple and beautiful integrated design.
- B. Modular light source, high luminous efficiency, low assembly costs.
- C. Mono-silicon solar panel, with higher efficiency compared to poly-silicon type.
- D. Long-life LiFePO4 battery, with longer life and better environmental protection.
- E. Motion sensor, the distance can be 8-10m, according to different distance requirement.
- F. Intelligently adjust lumen output by 100%~20%, according to time and site personnel situation.
- G. IP66 protection class, reliable performance, extending lifetime to 30,000 hours, 3 years warranty.

### Applications:

Widely used in the public area lighting branch, industrial areas, parks, gardens and squares.

### Technical Parameters:

Model	Lamp Power	LED Type	Solar Panel	Lithium Battery	Sensor	Dimming	Beam Angle	Lumen (lm/w)	Parts	Pole Dia(mm)	Pole Height
DST5-0603	3W	SMD2835	6W/4.5V	16WH/3.2V	Motion	Sensor+time	TYPE I-S	>160	All-in-one	φ40	2-3m
DST5-1006	6W	SMD2835	10W/4.5V	32WH/3.2V	Motion	Sensor+time	TYPE I-S	>160	All-in-one	φ48	2-3m
DST5-1509	9W	SMD2835	15W/4.5V	48WH/3.2V	Motion	Sensor+time	TYPE I-S	>160	All-in-one	φ48	3-4m
DST5-3012	12W	SMD2835	30W/6V	64WH/3.2V	Motion	Sensor+time	TYPE I-S	>160	All-in-two	φ48	3-4m
DST5-4515	15W	SMD2835	45W/6V	96WH/3.2V	Motion	Sensor+time	TYPE I-S	>160	All-in-two	φ48	3-5m



## ❖ DSF1 Series

### Product Features:

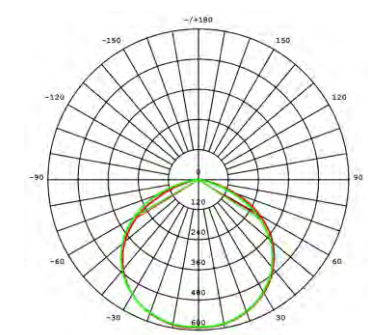
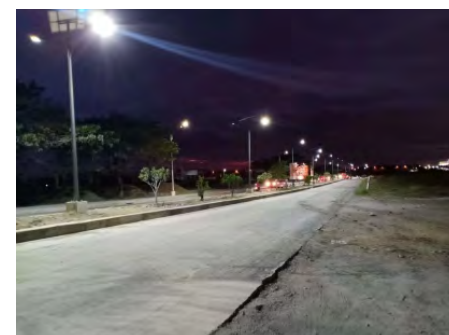
- A. Innovative, simple and beautiful integrated design.
- B. Modular light source, high luminous efficiency, low assembly costs.
- C. Poly-silicon solar panel, with higher efficiency compared to other brands.
- D. Long-life LiFePO4 battery, with longer life and better environmental protection.
- E. Time timing only, Default setting, 10m-100%+1H- 70%+4H- 50%+1H- 40%+1H- 25%+1H- 20%or can be set by remote controller to be 3H, 5H or 8H constant output.
- F. Intelligently adjust lumen output by 100%~20%, according to time and site personnel situation.
- G. IP66 protection class, reliable performance, extending lifetime to 30,000 hours, 3 years warranty.

### Applications:

Widely used in the public area lighting branch, industrial areas, parks, gardens and squares.

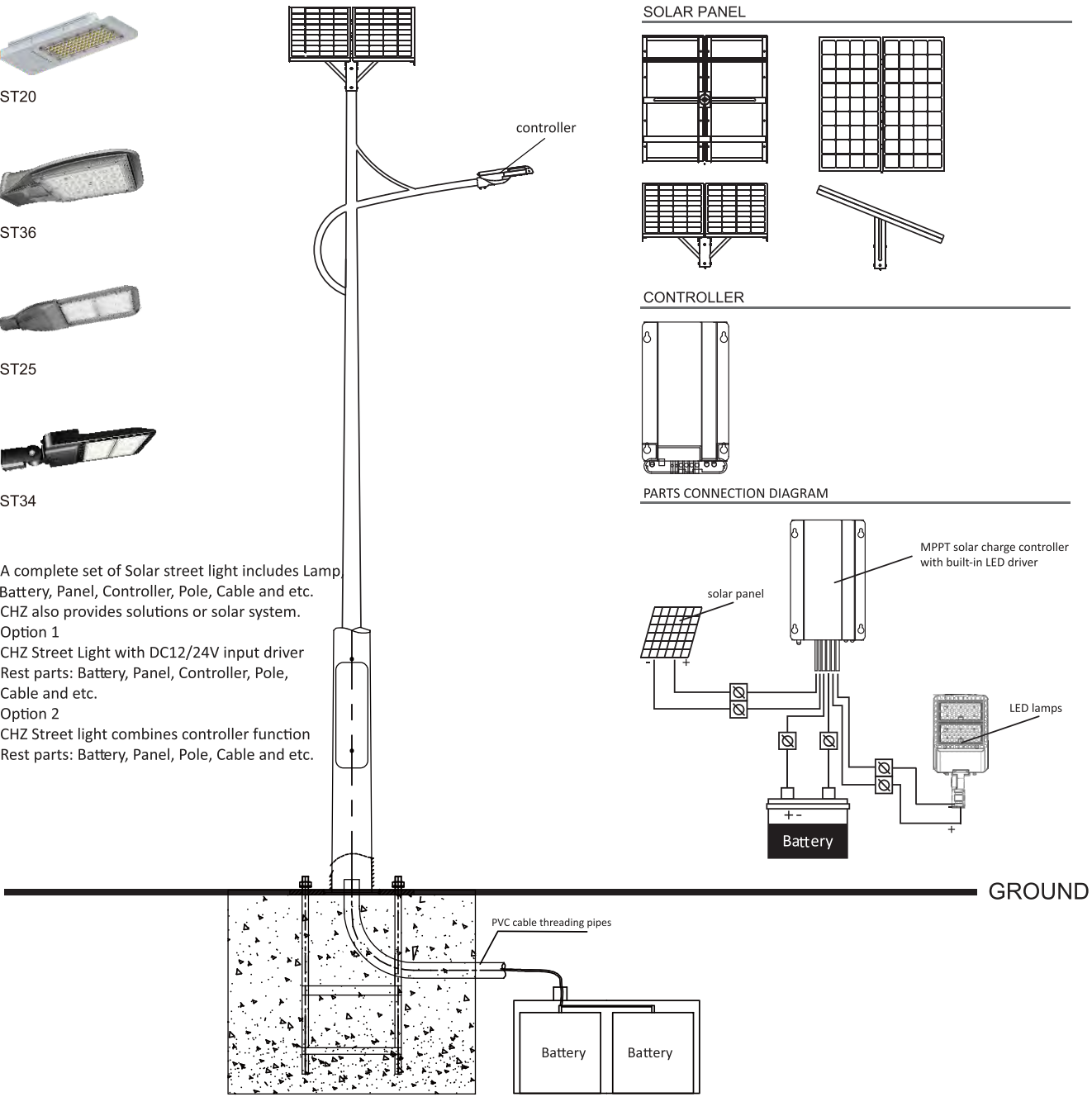
### Technical Parameters:

Model No.	Lamp Power	LED Type	S/P	Solar Panel	Lithium Battery	Sensor	Dimming	Beam Angle	Lumen (lm/w)
DSF1-1006	6W	SMD2835	1S119P	10W/6V	32WH/3.2V	NO	Time dimming	120°	>160
DSF1-2012	12W	SMD2835	1S166P	20W/6V	48WH/3.2V	NO	Time dimming	120°	>160
DSF1-2518	18W	SMD2835	1S237P	25W/6V	64WH/3.2V	NO	Time dimming	120°	>160





# Seperated Solar Light System



A complete set of Solar street light includes Lamp, Battery, Panel, Controller, Pole, Cable and etc. CHZ also provides solutions or solar system.

Option 1  
CHZ Street Light with DC12/24V input driver  
Rest parts: Battery, Panel, Controller, Pole, Cable and etc.

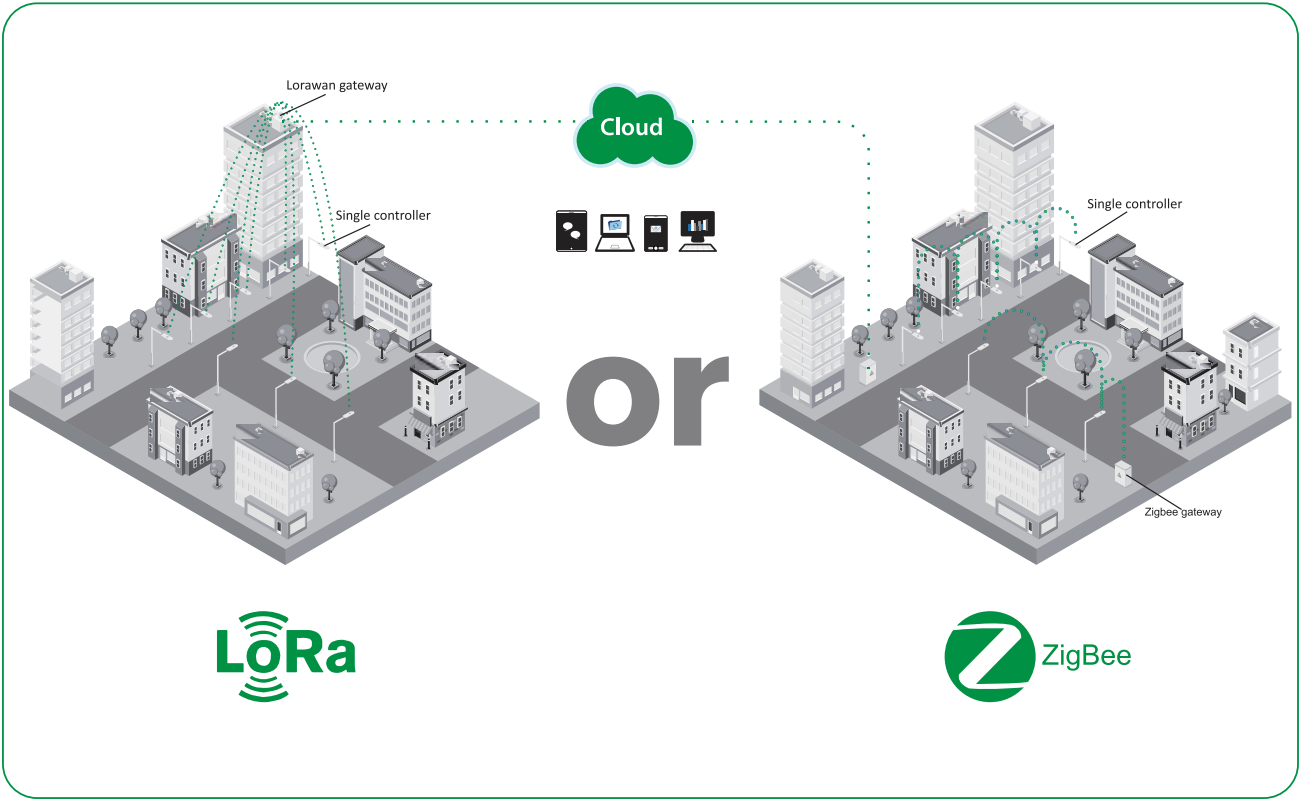
Option 2  
CHZ Street light combines controller function  
Rest parts: Battery, Panel, Pole, Cable and etc.

### Customized service

Due to each city has its own sunshine condition, and customers have different working hours and rainy days on request.

If you want to know more exact configuration, please contact us for below questions:

1. What is the geographical locatiion your solar LED street lighting system will be installed?
2. How many hours per night the LED street light works?
3. How many days to backup in case of continuous rainy days?
4. Do you need dimming the LED street light (during the off-peak hours)?
5. Do you have any other requirements?



# Intelligent Control System

CHZ provides a total solution for intelligence street lighting system. CHZ street light intelligence system is made up by software, gateway, single light controller. The gateway is installed in the distribution cabinet, the single light controller is installed in the lighting terminal. It proceeds with communication via GPRS/4G LITE wireless network or cable network & monitor center and proceeds with communication via ZIGBEE/ LORA.

Gateway can control each single light controller via receiving, executing, forwarding PC management software, which can control each lamp’s switching on/ off or dimming, then save electric energy. It can also monitor the lamps’ electric energy to achieve failure lamps function. Gateway can built-in DO to achieve street light loop control, it can connect with other equipment to collect local illumination, temperature and other information, feedback to PC management software and achieve to monitor the current information.

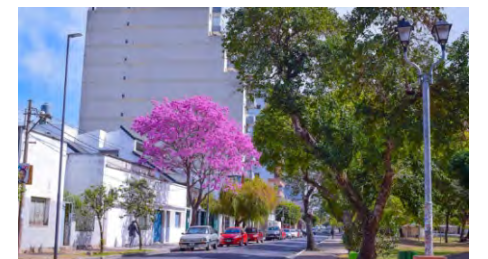
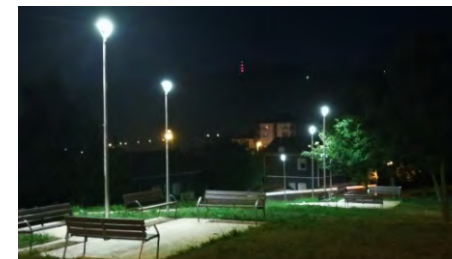
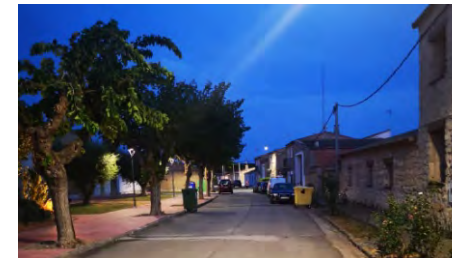
At present, all our series of LED street lights can be combined with the intelligence street lighting system...

If you want to know more, please contact CHZ Team.



# INSTALLATIONS

## STREET LIGHTING

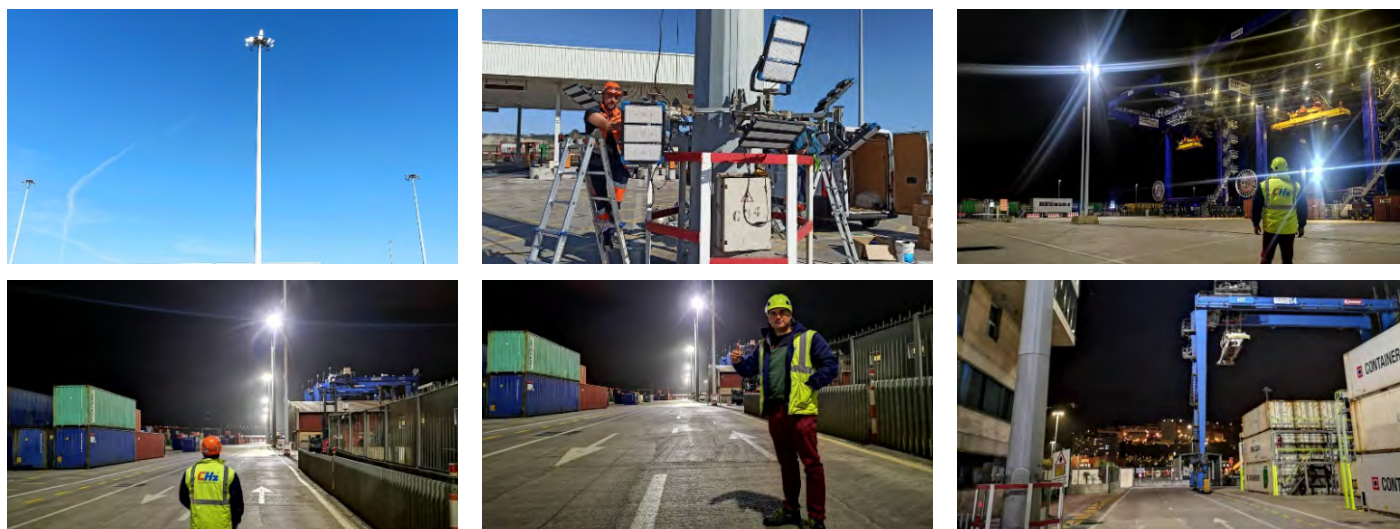




## SPORTS



## PORT



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