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**FERNANDO NAVARRETE
GONZALO DE ANDRÉS**



OFFICIAL PARTNER



CHZ-LIGHTING

ROAD LIGHTING

(2024-2025)

Creative Lighting, Healthy Living

Profile

SHANGHAI CHZ LIGHTING CO.,LTD., established in 2013, is one of the leading manufacturers of LED lighting products in China. Our headquarter is located at Jiading of Shanghai, we have three production bases in Shanghai, Hangzhou and Ningbo city, with a total of 12,000m² plant area and 1.0M sets of LED lights' production per year.

We adhere to the idea of "technology first", and cooperate with Fudan University to continuously develop new products. Our products have covered office lighting, industrial lighting, flood lighting, stadium lighting, road lighting, and solar lighting. We offer, not only qualified lights, but also complete intelligent lighting solutions.

By continuous high investment on management and R&D, we has passed ISO9001, ISO14001, ISO45001 and ISO50001 system certifications. Meanwhile, we have got ENEC, ENEC++, CE, CB and ETL quality certifications proved by famous labs, such as TUV. Moreover, we have been rewarded lots of honors by the government, such as "National High-tech Enterprise", "Shanghai Technological Enterprise" and etc.

Our products have been exported to over 80 countries around the world and used for thousands of public projects. By high quality and excellent service, "CHZ LIGHTING" has won very good reputation in those markets. We will continue to work hard and tirelessly strive to build "CHZ LIGHTING" as one globally renowned brand.

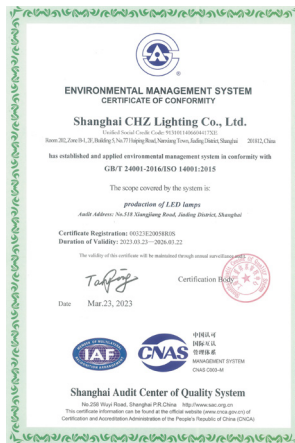
Awards



Qualification



ISO9001



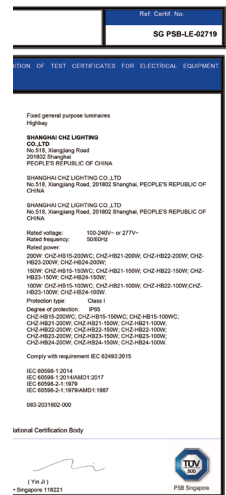
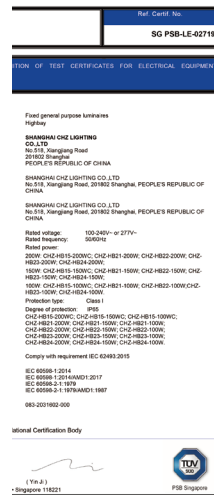
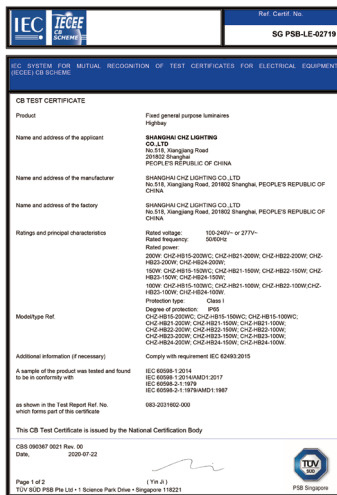
ISO14001



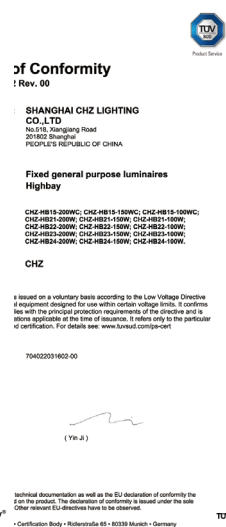
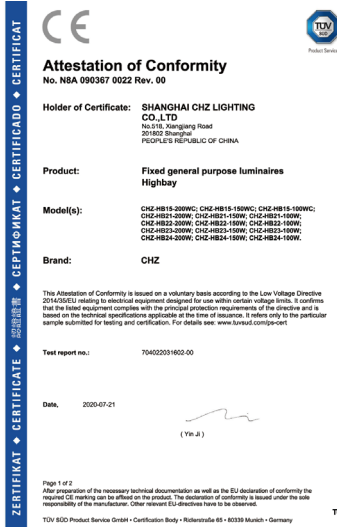
ISO45001



ISO50001



CB Certification



CE Certification

◆ Company Image



Shanghai Headquator



Europe Company



Spain Warehouse



Marketing Department



R&D Department



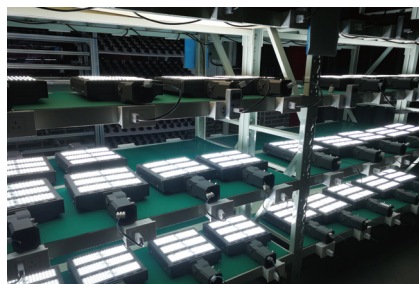
Training Meeting



Assembling line



Testing Line



Old Aging



Outdoor Development



Argentina team



Team action



Spain Team



Spain Team



Shareholder Dinner

ROAD LIGHTING

20W-250W



CHz[®]**Road Lighting**

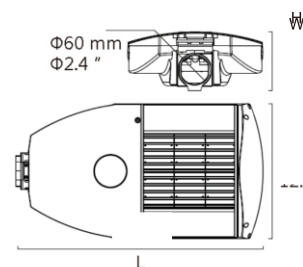
CE CB ROHS



◆ ST12 Series

Product Feature:

- 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 SMD5050 and MW driver, stable overall performance, life time 90,000 hours above.

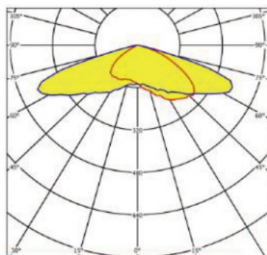


Application:

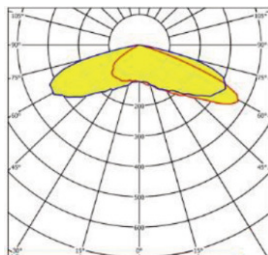
Mainly used for road lighting, including high way, high-speed road, slip road and other places of public lighting.

Technical Parameters:

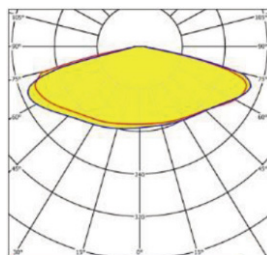
Model No.	Power (W)	LED TYPE	LED's (pcs)	Input volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP/IK	Pole Dia(mm)	Product Size(mm)		
										L	W	H
ST12-50W	50	SMD5050	1×32	100-277	>160	3000-5700		IP66/IK10	φ60	431	316	136
ST12-100W	100	SMD5050	2×32	100-277	>160	3000-5700		IP66/IK10	φ60	504	316	136
ST12-150W	150	SMD5050	3×32	100-277	>160	3000-5700		IP66/IK10	φ60	577	316	136
ST12-200W	200	SMD5050	4×32	100-277	>160	3000-5700	TYPE II	IP66/IK10	φ60	650	316	136
ST12-60W	60	SMD5050	1×32	100-277	>160	3000-5700	TYPE III	IP66/IK10	φ60	431	316	136
ST12-120W	120	SMD5050	2×32	100-277	>160	3000-5700	TYPE V	IP66/IK10	φ60	504	316	136
ST12-180W	180	SMD5050	3×32	100-277	>160	3000-5700		IP66/IK10	φ60	577	316	136
ST12-240W	240	SMD5050	4×32	100-277	>160	3000-5700		IP66/IK10	φ60	650	316	136



TYPE II



TYPE III



TYPE V





ROHS CB CE

CH₂[®]

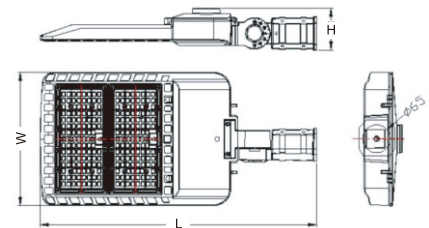
Road Lighting



ST34 Series

Product Feature:

- 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 SMD5050 or 3030 chips and MW driver, stable overall performance, life time 90,000 hours above.

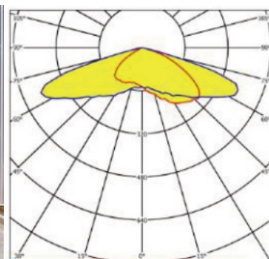
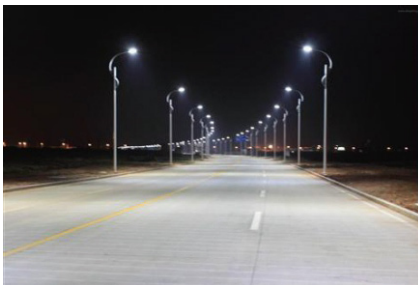


Application:

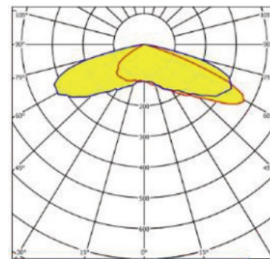
Mainly used for road lighting, including high-speed road, slip road, industrial areas, residential, parking lot, etc.

Technical Parameters:

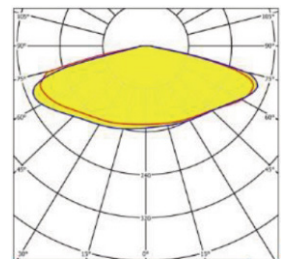
Model No.	Power (W)	LED type	LED`s (pcs)	Input volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP/IK	Pole Dia(mm)	Product Size(mm)			
										L	W	H	
ST34-30W	30	SMD5050	28	100-277	>150	3000-6500	TYPE II TYPE III TYPE V	IP66/IK10	φ60	481	312	93	
ST34-50W	50			100-277				IP66/IK10	φ60	481	312	93	
ST34-60W	60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



TYPE II



TYPE III



TYPE V

CHz[®]**Road Lighting**

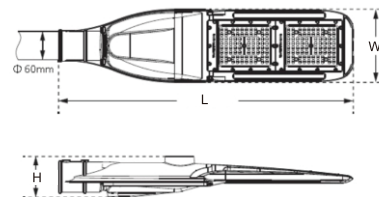
CE CB ROHS



◆ ST25 Series

Product Feature:

- 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 SMD3030 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.

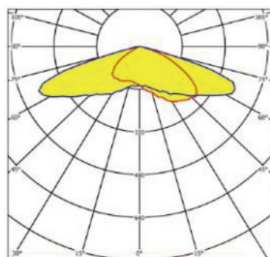


Application:

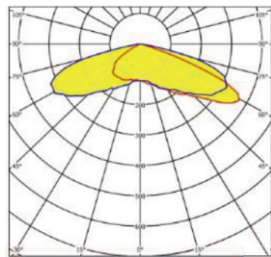
Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

Technical Parameters:

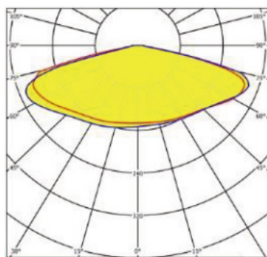
Model No.	Power (W)	LED TYPE	LED's (pcs)	Input volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP/IK	Pole Dia(mm)	Product Size(mm)		
										L	W	H
ST25-1	20~50	SMD3030	80	100-277	>150	3000-6500		IP66/IK10	φ60	447	179	77
ST25-1	20~50	SMD3030	28	100-277	>160	3000-6500	TYPE II	IP66/IK10	φ60	447	179	77
ST25-2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



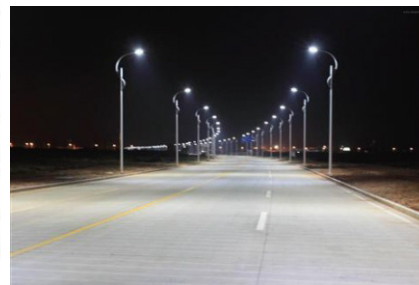
TYPE II



TYPE III



TYPE V





ROHS CB CE

CHz[®]**Road Lighting**

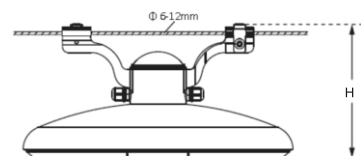
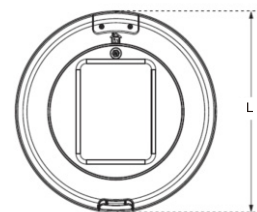
◆ ST26D Series

Product Feature:

- 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 SMD3030 LED chip, stable overall performance, long life of 60,000 hours above.
- F. With CLASS II electrical protection degree, widely used to pend between two buildings, without poles.

Application:

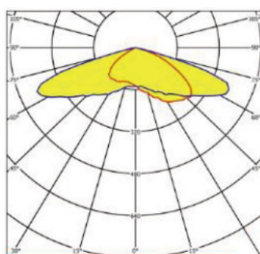
Widely used for urban Road, parking, bike path, garden, plaza, residential area and etc



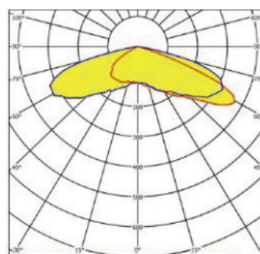
Suspended Mounted

Technical Parameters:

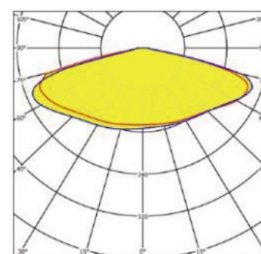
Model No.	Power (W)	LED TYPE	LED's (pcs)	Input volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP/IK	Pole Dia(mm)	Product Size(mm)		
										L	W	H
ST26-27W	27	SMD3030	72	100-277	>130	3000-6500	TYPE II TYPE III TYPE V	IP66/IK08	6~12	480	480	240
ST26-37W	37	SMD3030	96	100-277	>130	3000-6500		IP66/IK08	6~12	480	480	240
ST26-56W	57	SMD3030	120	100-277	>130	3000-6500		IP66/IK08	6~12	480	480	240
ST26-70W	70	SMD3030	144	100-277	>130	3000-6500		IP66/IK08	6~12	480	480	240
ST26-90W	90	SMD3030	168	100-277	>130	3000-6500		IP66/IK08	6~12	480	480	240
ST26-120W	120	SMD3030	168	100-277	>130	3000-6500		IP66/IK08	6~12	480	480	240



TYPE II



TYPE III



TYPE V

CHz[®]**Road Lighting**

CE CB ROHS



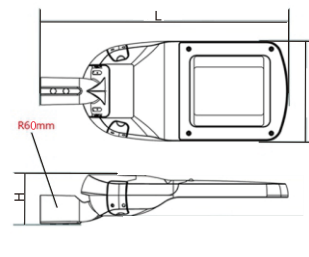
◆ ST29 Series

Product Feature:

- A. High pressure die-casting aluminum housing with quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD5050 Led chips and high quality driver, assures long lifetime.
- D. Multiple beam angle optics for options according to various lighting applications.

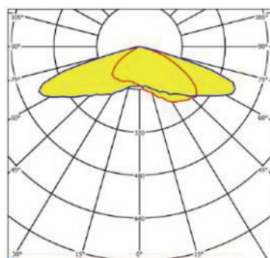
Application:

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.

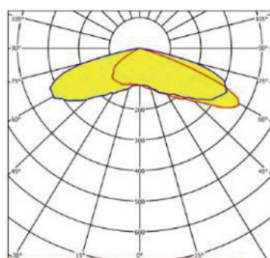


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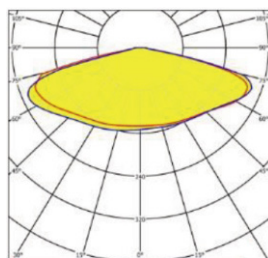
Model No.	Power (W)	LED type	LED's (pcs)	Input volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP/IK	Pole Dia(mm)	Product Size(mm)		
ST29-30W	30	SMD5050	36	100-277	>150	3000-6500	TYPE II TYPE III TYPE V	IP66/IK09	φ60	535	312	93
ST29-40W	40	SMD5050	36	100-277	>150	3000-6500		IP66/IK09	φ60	535	312	93
ST29-50W	50	SMD5050	36	100-277	>150	3000-6500		IP66/IK09	φ60	535	312	93
ST29-60W	60	SMD5050	54	100-277	>150	3000-6500		IP66/IK09	φ60	620	312	93
ST29-80W	80	SMD5050	54	100-277	>150	3000-6500		IP66/IK09	φ60	620	312	93
ST29-100W	100	SMD5050	54	100-277	>150	3000-6500		IP66/IK09	φ60	620	312	93
ST29-100W	100	SMD5050	72	100-277	>150	3000-6500		IP66/IK09	φ60	690	312	93
ST29-120W	120	SMD5050	72	100-277	>150	3000-6500		IP66/IK09	φ60	690	312	93
ST29-150W	150	SMD5050	72	100-277	>150	3000-6500		IP66/IK09	φ60	690	312	93
ST29-160W	160	SMD5050	120	100-277	>150	3000-6500		IP66/IK09	φ60	810	312	93
ST29-180W	180	SMD5050	120	100-277	>150	3000-6500		IP66/IK09	φ60	810	312	93
ST29-200W	200	SMD5050	120	100-277	>150	3000-6500		IP66/IK09	φ60	810	320	135



TYPE II



TYPE III



TYPE V





ROHS CB CE

CH₂[®]

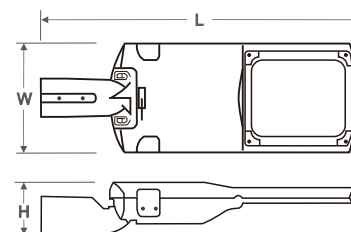
Road Lighting



ST33 Series

Product Feature:

- A. High pressure die-casting aluminum housing with quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD5050 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.

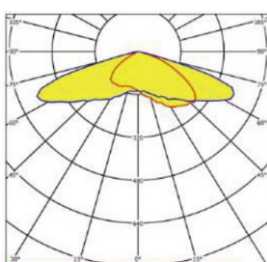


Application:

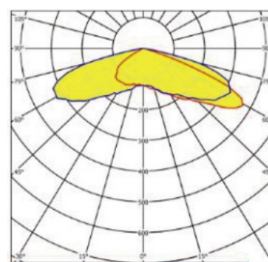
Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

Technical Parameters:

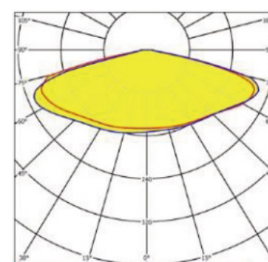
Model No.	Power (W)	LED TYPE	LED's (pcs)	Input volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP/IK	Pole Dia(mm)	Product Size(mm)		
										L	W	H
ST33-40W	40	SMD5050	24	100-277	>150	3000-6500		IP66/IK09	φ60	640	220	108
ST33-60W	60	SMD5050	24	100-277	>150	3000-6500		IP66/IK09	φ60	640	220	108
ST33-80W	80	SMD5050	48	100-277	>150	3000-6500		IP66/IK09	φ60	640	220	108
ST33-100W	100	SMD5050	48	100-277	>150	3000-6500	TYPE II TYPE III TYPE V	IP66/IK09	φ60	719	270	109
ST33-120W	120	SMD5050	48	100-277	>150	3000-6500		IP66/IK09	φ60	719	270	109
ST33-150W	150	SMD5050	48	100-277	>150	3000-6500		IP66/IK09	φ60	719	270	109
ST33-180W	180	SMD5050	80	100-277	>150	3000-6500		IP66/IK09	φ60	773	320	109
ST33-200W	200	SMD5050	80	100-277	>150	3000-6500		IP66/IK09	φ60	773	320	109



TYPE II



TYPE III



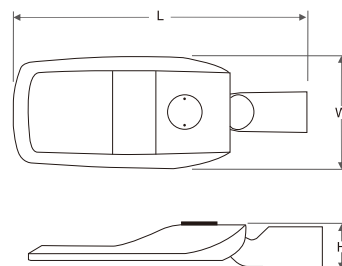
TYPE V



ST35 Series

Product Feature:

- A. High pressure die-casting aluminum housing with quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD5050 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.

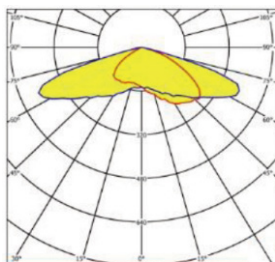


Application:

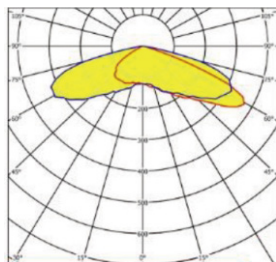
Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

Technical Parameters:

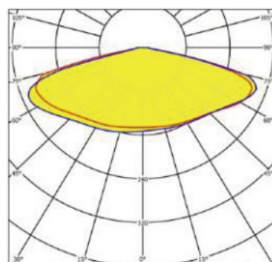
Model No.	Power (W)	LED TYPE	LED's (pcs)	Input volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP/IK	Pole Dia(mm)	Product Size(mm)		
										L	W	H
ST35-40W	40	SMD5050	24	100-277	>150	3000-6500		IP66/IK09	φ60	561	214	88
ST35-60W	60	SMD5050	24	100-277	>150	3000-6500		IP66/IK09	φ60	561	214	88
ST35-80W	80	SMD5050	48	100-277	>150	3000-6500		IP66/IK09	φ60	561	214	88
ST35-100W	100	SMD5050	48	100-277	>150	3000-6500	TYPE II	IP66/IK09	φ60	679	281	90
ST35-120W	120	SMD5050	48	100-277	>150	3000-6500	TYPE III	IP66/IK09	φ60	679	281	90
ST35-150W	150	SMD5050	48	100-277	>150	3000-6500	TYPE V	IP66/IK09	φ60	679	281	90
ST35-180W	180	SMD5050	80	100-277	>150	3000-6500		IP66/IK09	φ60	714	320	90
ST35-200W	200	SMD5050	80	100-277	>150	3000-6500		IP66/IK09	φ60	714	320	90



TYPE II



TYPE III



TYPE V



ROHS CB CE

CH₂[®]

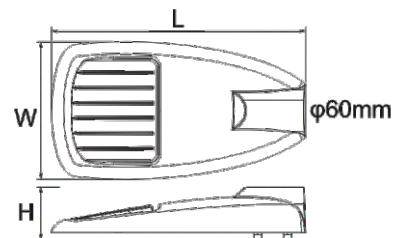
Road Lighting

◆ ST40 Series



Product Feature:

- A. High pressure die-casting aluminum housing with quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD5050 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 °

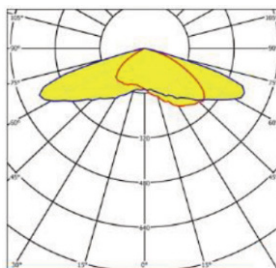
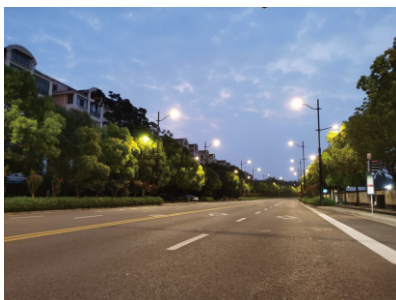


Application:

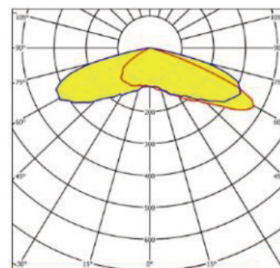
Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

Technical Parameters:

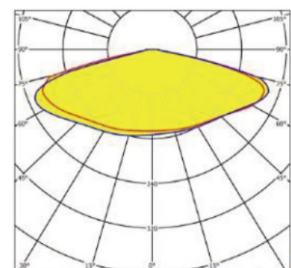
Model No.	Power (W)	LED TYPE	LED's (pcs)	Input volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP/IK	Pole Dia(mm)	Product Size(mm)		
										L	W	H
ST40-60W	60	SMD5050	48	100-277	>150	3000-6500	TYPE II	IP66/IK09	φ60	425	230	88
ST40-80W	80	SMD5050	48	100-277	>150	3000-6500	TYPE II	IP66/IK09	φ60	425	230	88
ST40-100W	100	SMD5050	48	100-277	>150	3000-6500	TYPE II	IP66/IK09	φ60	425	230	88
ST40-120W	120	SMD5050	48	100-277	>150	3000-6500	TYPE II	IP66/IK09	φ60	425	230	88
ST40-120W	120	SMD5050	96	100-277	>150	3000-6500	TYPE II	IP66/IK09	φ60	555	311	88
ST40-150W	150	SMD5050	96	100-277	>150	3000-6500	TYPE II	IP66/IK09	φ60	555	311	88
ST40-160W	160	SMD5050	96	100-277	>150	3000-6500	TYPE II	IP66/IK09	φ60	555	311	88



TYPE II



TYPE III



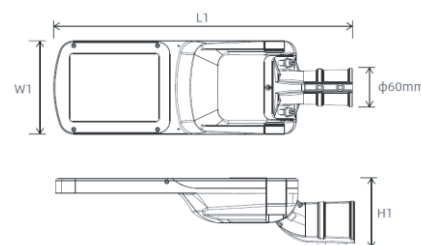
TYPE V

CHz[®]**Road Lighting**CE CB ROHS 

◆ ST41 Series

Product Feature:

- 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.

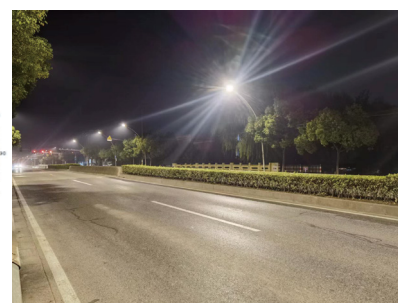
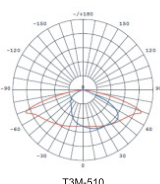
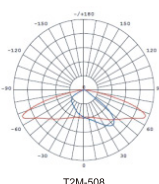
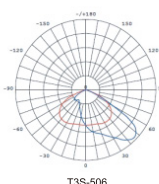
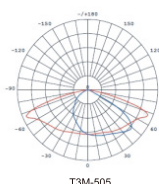
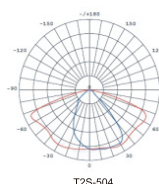


Application:

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 Parameters:

Model No.	Power (W)	LED TYPE	LED's (pcs)	Input volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP/IK	Pole Dia(mm)	Product Size(mm)		
										L	W	H
ST41-40W	40	SMD5050	24	100-277	>160	3000-6500	TYPE II	IP66/IK10	φ60	610	190	143
ST41-60W	60	SMD5050	36	100-277	>160	3000-6500	TYPE II	IP66/IK10	φ60	610	190	143
ST41-80W	80	SMD5050	36	100-277	>160	3000-6500	TYPE II	IP66/IK10	φ60	610	190	143
ST41-100W	100	SMD5050	60	100-277	>160	3000-6500	TYPE II	IP66/IK10	φ60	660	240	143
ST41-120W	120	SMD5050	72	100-277	>160	3000-6500	TYPE II	IP66/IK10	φ60	660	240	143
ST41-150W	150	SMD5050	72	100-277	>160	3000-6500	TYPE II	IP66/IK10	φ60	660	240	143
ST41-180W	180	SMD5050	104	100-277	>160	3000-6500	TYPE II	IP66/IK10	φ60	762	290	143
ST41-200W	200	SMD5050	120	100-277	>160	3000-6500	TYPE II	IP66/IK10	φ60	762	290	143
ST41-240W	240	SMD5050	144	100-277	>160	3000-6500	TYPE II	IP66/IK10	φ60	762	290	143





ROHS CB CE

CH₂[®]

Road Lighting



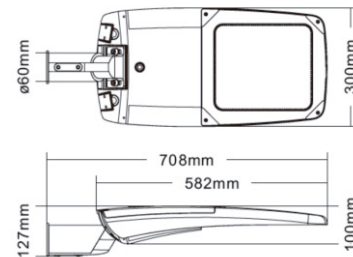
ST42 Series

Product Feature:

- A. High pressure die-casting aluminum housing with quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD5050 chips and high quality driver, assures long lifetime.
- D. Multiple beam angle optics for options according to various lighting applications.
- E. Integrated handle and heat-sink housing together, this structure will be more strong and cost-saving.

Application:

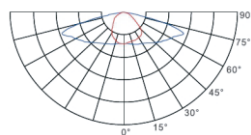
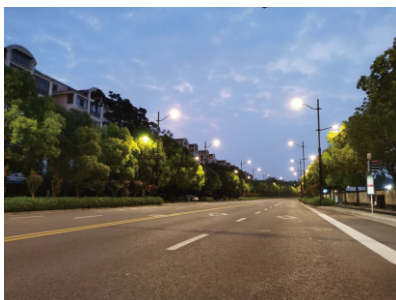
Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.



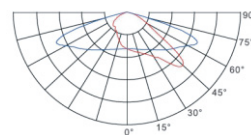
100W

Technical Parameters:

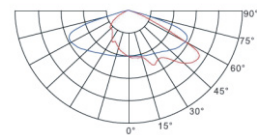
Model No.	Power (W)	LED type	LED's (pcs)	Input volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP/IK	Pole Dia(mm)	Product Size(mm)		
										L	W	H
ST42-40W	40	SMD5050	36	100-277	>160	3000-6500	TYPE I TYPE II TYPE III	IP66/IK09	φ60	587	222	127
ST42-50W	50	SMD5050	36	100-277	>160	3000-6500		IP66/IK09	φ60	587	222	127
ST42-60W	60	SMD5050	36	100-277	>160	3000-6500		IP66/IK09	φ60	587	222	127
ST42-80W	80	SMD5050	36	100-277	>160	3000-6500		IP66/IK09	φ60	587	222	127
ST42-80W	80	SMD5050	72	100-277	>160	3000-6500		IP66/IK09	φ60	708	300	127
ST42-100W	100	SMD5050	72	100-277	>160	3000-6500		IP66/IK09	φ60	708	300	127
ST42-120W	120	SMD5050	72	100-277	>160	3000-6500		IP66/IK09	φ60	708	300	127
ST42-150W	150	SMD5050	72	100-277	>160	3000-6500		IP66/IK09	φ60	708	300	127
ST42-180W	180	SMD5050	120	100-277	>160	3000-6500		IP66/IK09	φ60	810	330	130
ST42-200W	200	SMD5050	120	100-277	>160	3000-6500		IP66/IK09	φ60	810	330	130
ST42-240W	240	SMD5050	120	100-277	>160	3000-6500		IP66/IK09	φ60	810	330	130



TYPE I



TYPE II



TYPE III

CHz[®]**Road Lighting**CE CB ROHS 

◆ ST43 Series

Product Feature:

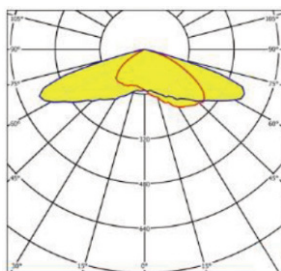
- A. High pressure die-casting aluminum housing with quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD2835 chips and high quality driver, assures long lifetime.
- D. Multiple beam angle optics for options according to various lighting applications.
- E. Integrated handle and heat-sink housing together, this structure will be more strong and cost-saving.

Application:

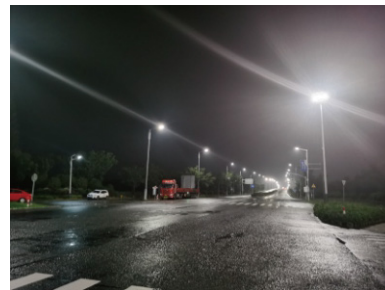
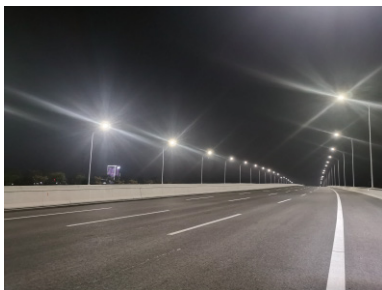
Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.

Technical Parameters:

Model No.	Power (W)	LED TYPE	LED's (pcs)	Input volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP/IK	Pole Dia(mm)	Product Size(mm)		
										L	W	H
ST43-30W	30	SMD2835	56	100-277	>140	3000-6500	140°×70°	IP66/IK09	φ60	425	108	96
ST43-50W	50	SMD2835	96	100-277	>140	3000-6500	140°×70°	IP66/IK09	φ60	477	138	96
ST43-100W	100	SMD2835	192	100-277	>140	3000-6500	140°×70°	IP66/IK09	φ60	566	177	96
ST43-150W	150	SMD2835	270	100-277	>140	3000-6500	140°×70°	IP66/IK09	φ60	650	210	96
ST43-200W	200	SMD2835	384	100-277	>140	3000-6500	140°×70°	IP66/IK09	φ60	719	244	96



TYPE II





ROHS CB CE

CH₂[®]

Road Lighting



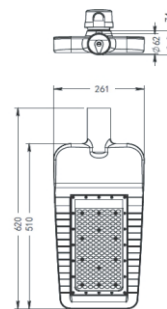
◆ ST44 Series

Product Feature:

- A. High pressure die-casting aluminum housing with quick heat ventilation.
- B. Excellent thermal management and outstanding self-cleaning capability.
- C. High efficient SMD5050 chips and high quality driver, assures long lifetime.
- D. Multiple beam angle optics for options according to various lighting applications.
- E. Integrated handle and heat-sink housing together, this structure will be more strong and cost-saving.

Application:

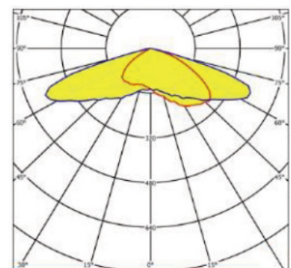
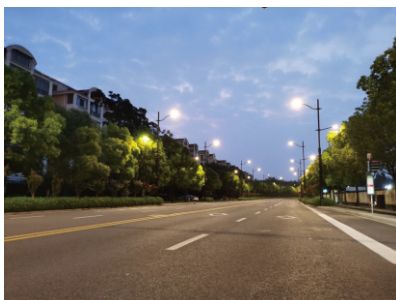
Widely used in trunk roads, highways, elevated roads, streets, bridges, sidewalks and other road lighting, as well as squares, schools, parks and other outdoor lighting needs.



150W

Technical Parameters:

Model No.	Power (W)	LED TYPE	LED's (pcs)	Input volt (V)	Lumen (LM/W)	CCT (K)	Beam Angle	IP/IK	Pole Dia(mm)	Product Size(mm)		
										L	W	H
ST44-50W	50	SMD5050	32	100-277	>150	3000-6500	TYPE II	IP66/IK09	φ60	459	193	74
ST44-100W	100	SMD5050	60	100-277	>150	3000-6500	TYPE II	IP66/IK09	φ60	532	228	74
ST44-150W	150	SMD5050	84	100-277	>150	3000-6500	TYPE II	IP66/IK09	φ60	620	261	74
ST44-200W	200	SMD5050	120	100-277	>150	3000-6500	TYPE II	IP66/IK09	φ60	698	292	74

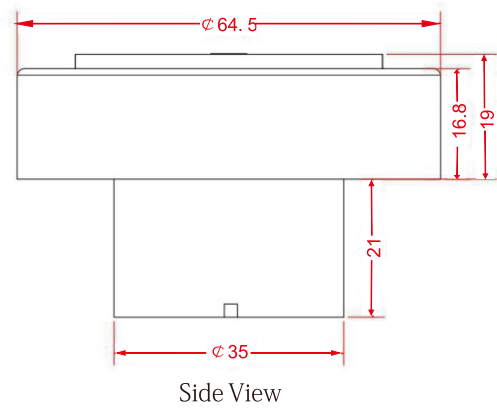
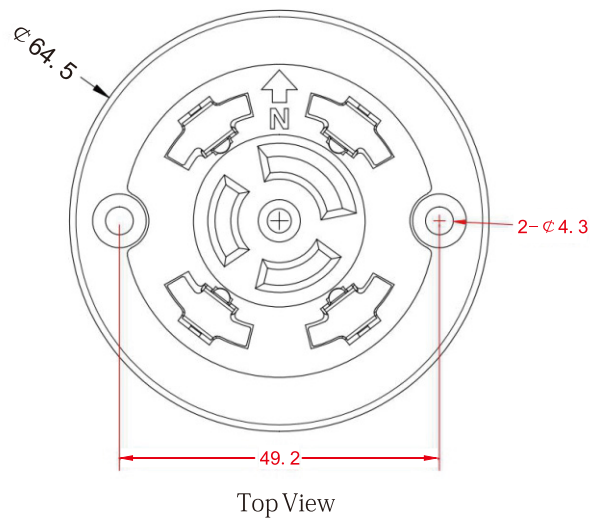


TYPE II

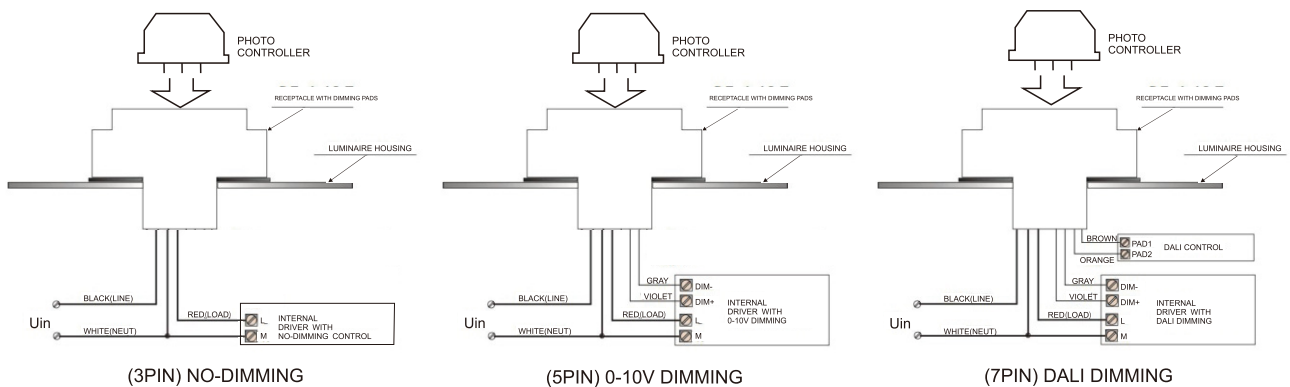
(NEMA) INTELLIGENT STREET LIGHTING SOLUTION



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

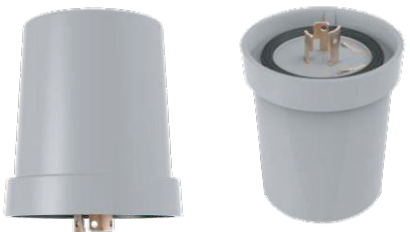
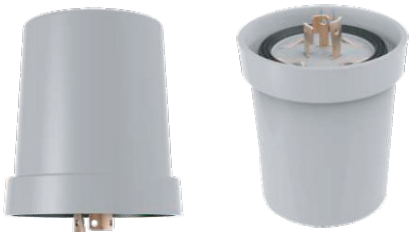
Model No.	Communication Method	Transmission Distance	Input voltage	Dimming	Switch Number
JL-245CZ	Zigbee	500m	100-277V AC	0~10V DC	10000
JL-246CG	Zigbee + LTE	500m+2000m	100-277V AC	0~10V DC	10000
JL-245CN	NB-IoT	2000m	100-277V AC	0~10V DC	10000

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

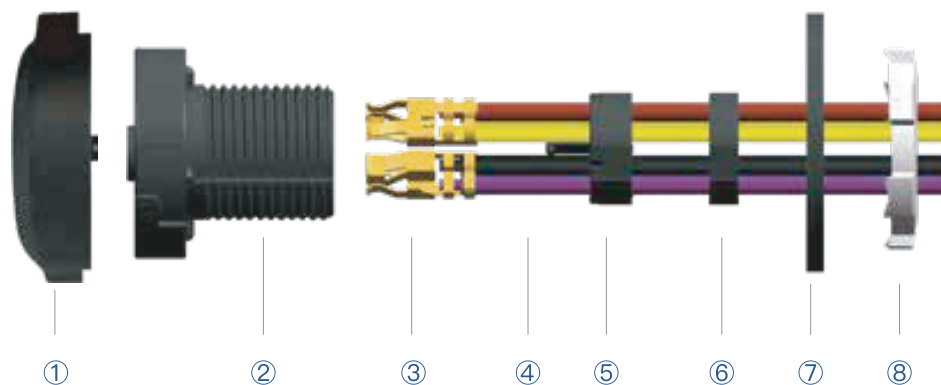
In 2013, the US ANSI C136.41 launched the NEMA standard interface; in 2018, the EU launched the ZHAGA BOOK18 standard interface. At the same time, the US ANSI is preparing relevant standards so that the street light controller can upgrade the docking LED drive power in a standardized manner.



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



- ① Protection cap ② Receptacle body ③ Contact ④ Lead wire
- ⑤ Retaining holder ⑥ Sealant ⑦ Gasket ⑧ Lock-nut

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.

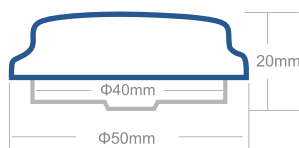
JL-701A	JL-7X1	JL-7X2
Local control	Local + wireless control	Local + wireless control
		
- Light sensor switch (0 / 10V) - Ultra low cost - Interference light source to prevent false triggering - IP66	- Light dimming (0 / 10V/DALI) - Strategy customization - Reduce brightness at midnight - IP66 - Multi wireless control - Interference light source to prevent false triggering - Light reflection compensation	- Light sense + microwave (0 / 10V/DALI) - Power saving - IP66 - Multi wireless control - Interference light source to prevent false triggering - Strategy customization

Applicable scene:
Road, lawn, courtyard, park

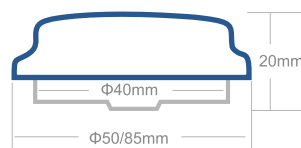
Applicable scene:
Road, lawn, courtyard, park

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

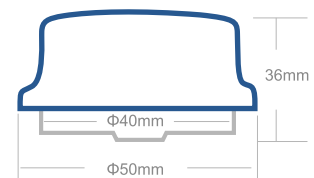
● Size



JL-701A



JL-7X1



JL-7X2

Background of intelligent lighting



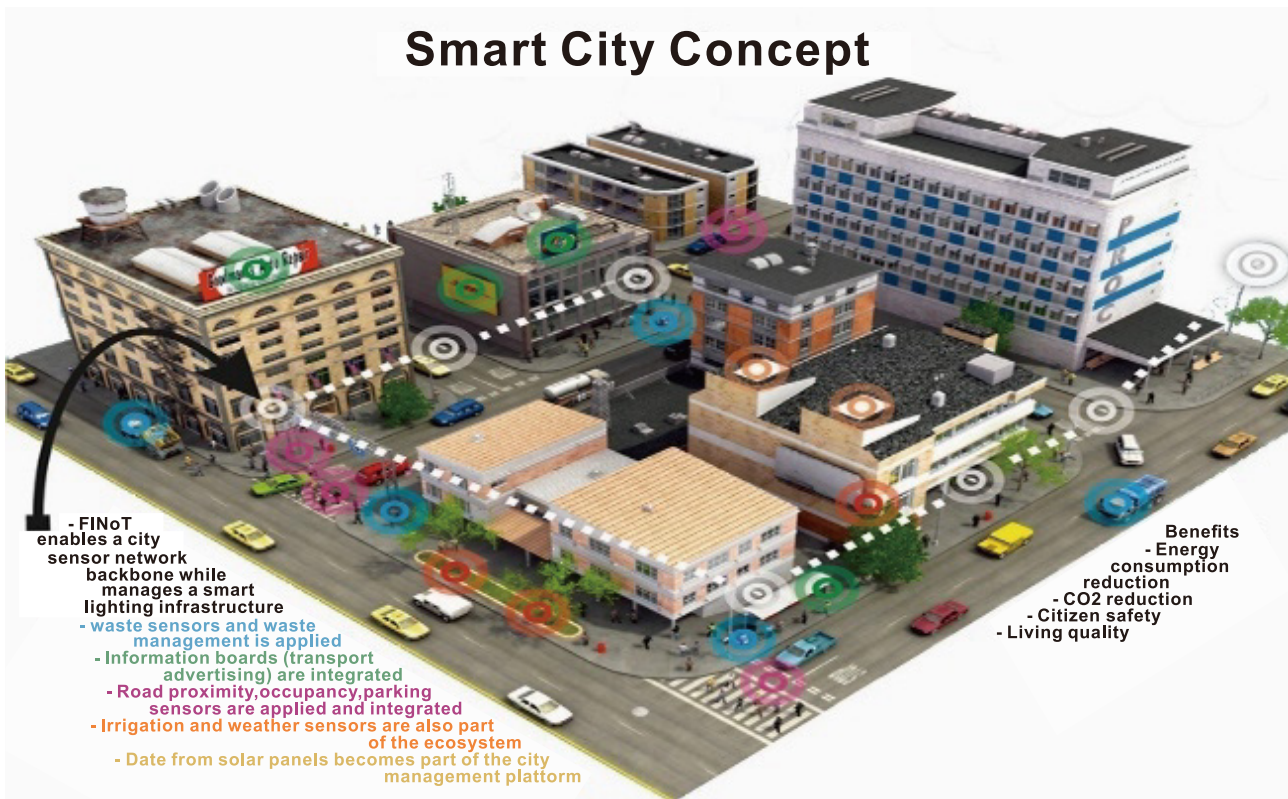
High power consumption



CLINTON
CLIMATE
INITIATIVE

Climate and Environment protection

Smart City Concept

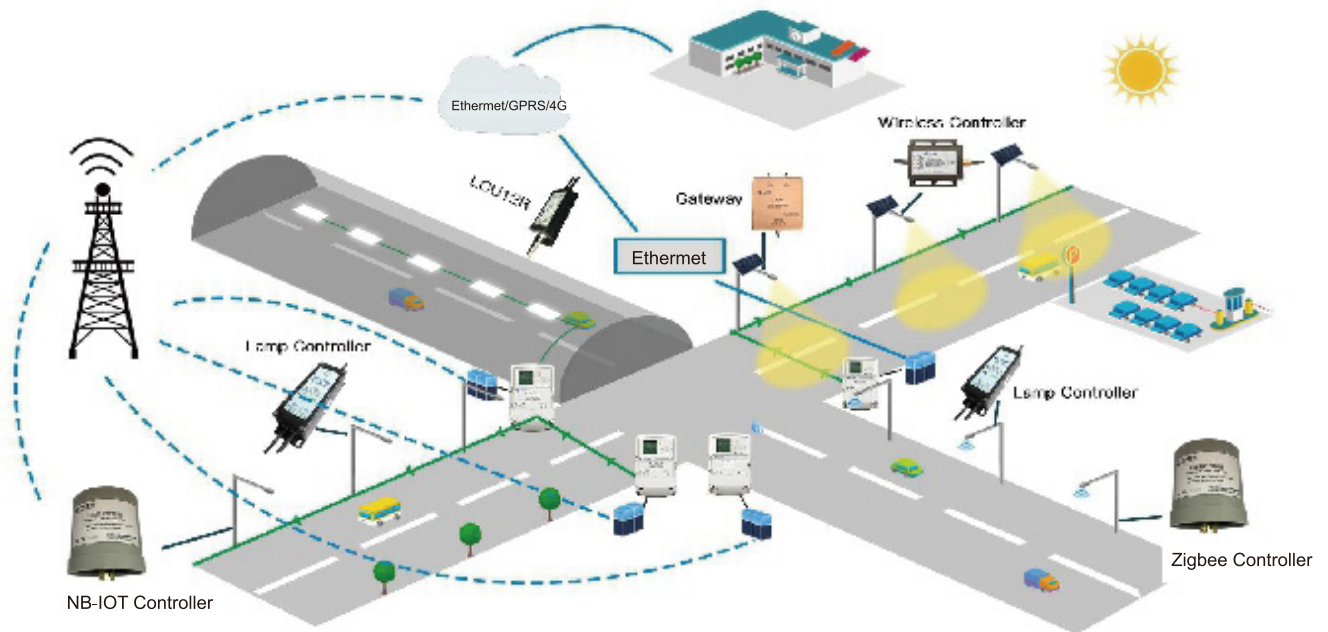


Smart city developing

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.

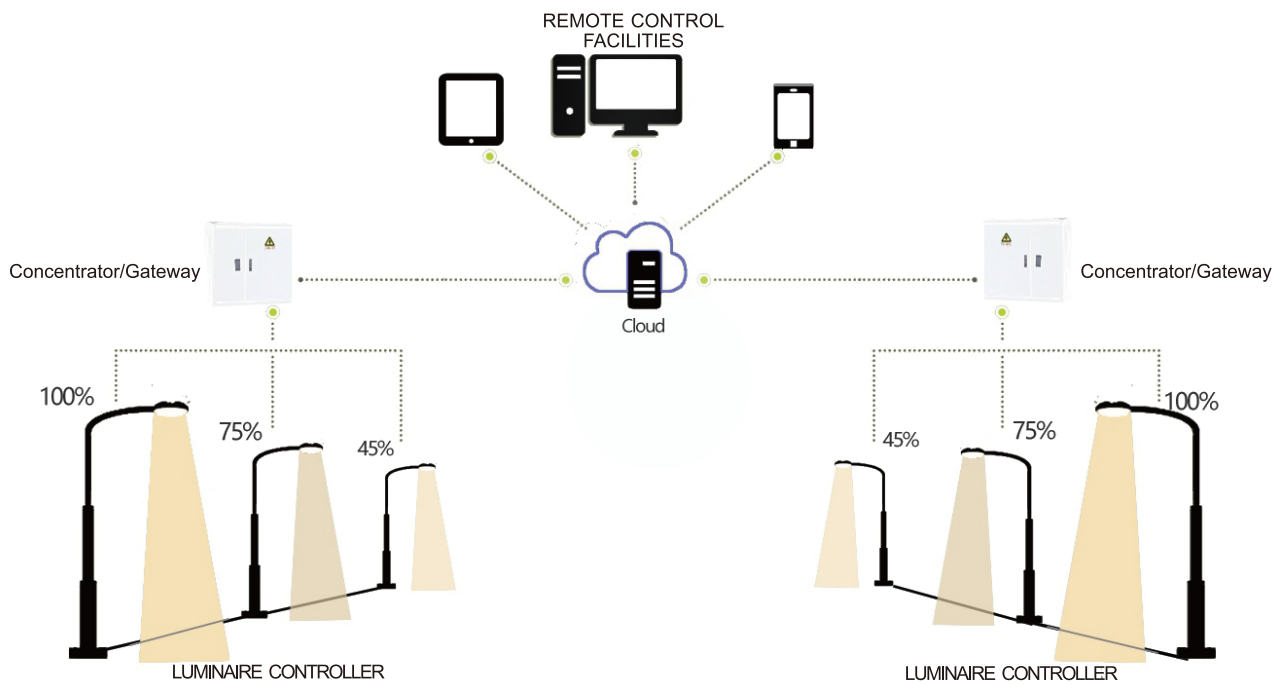
Intelligent Lighting Solutions



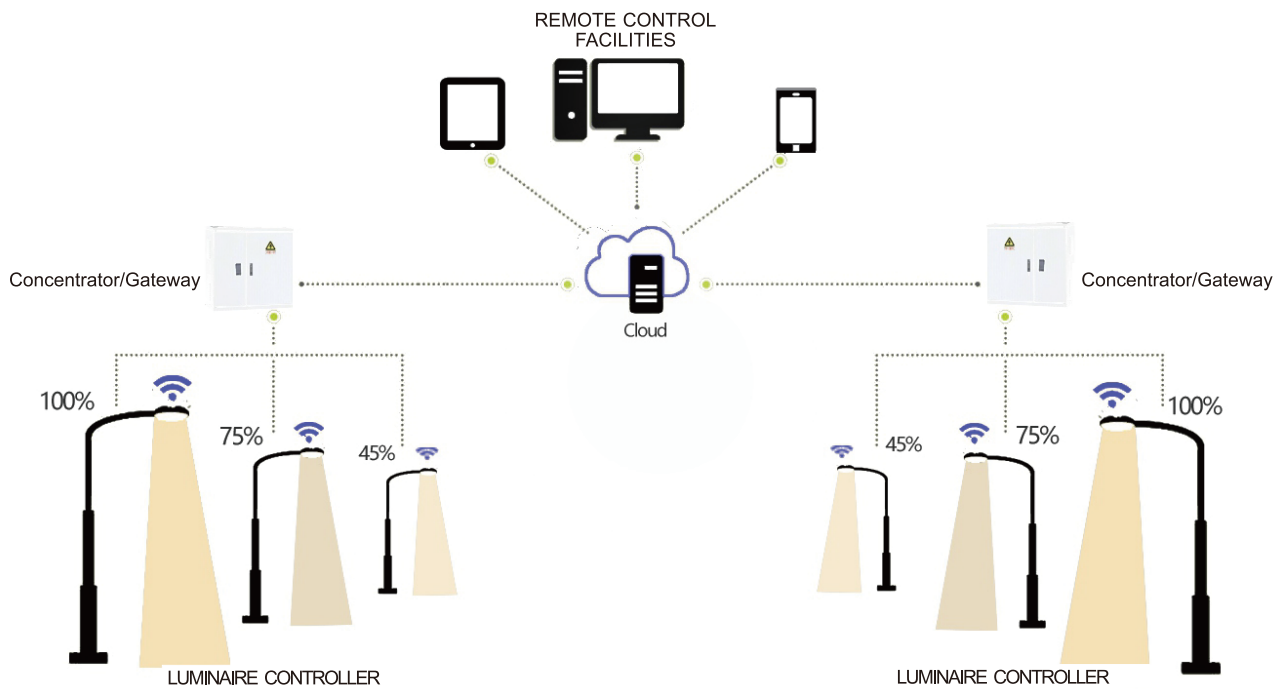
Solutions Comparison

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 -intefe rence	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

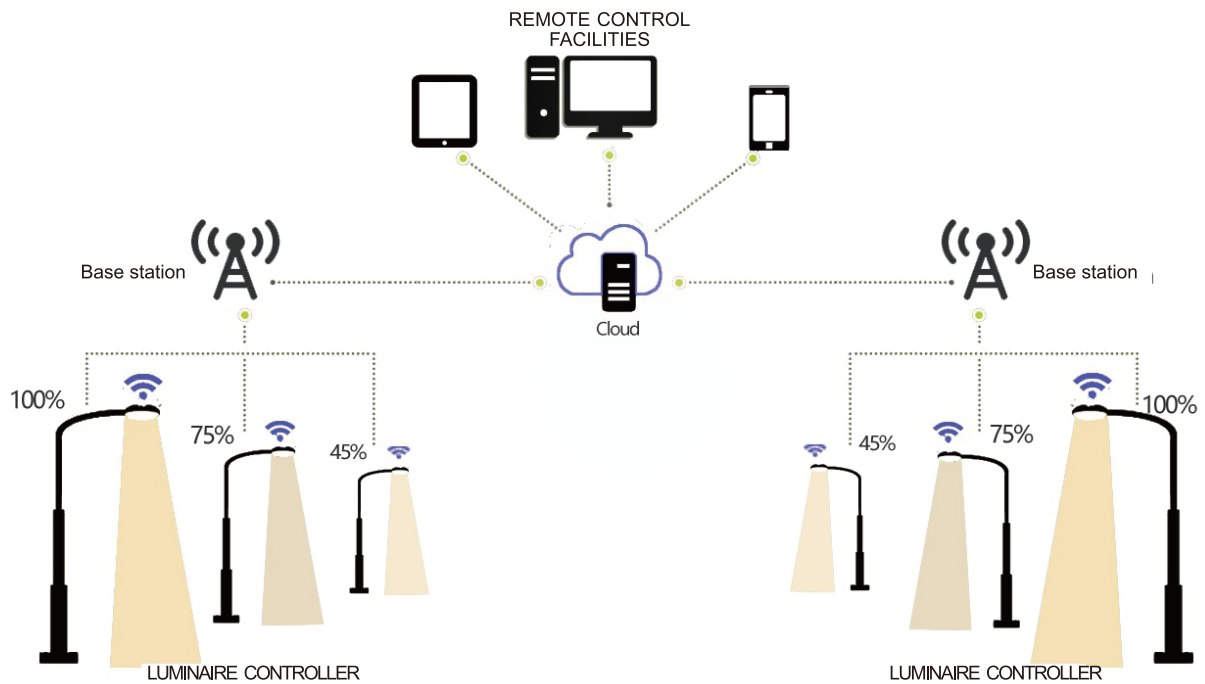
PLC lighting solution



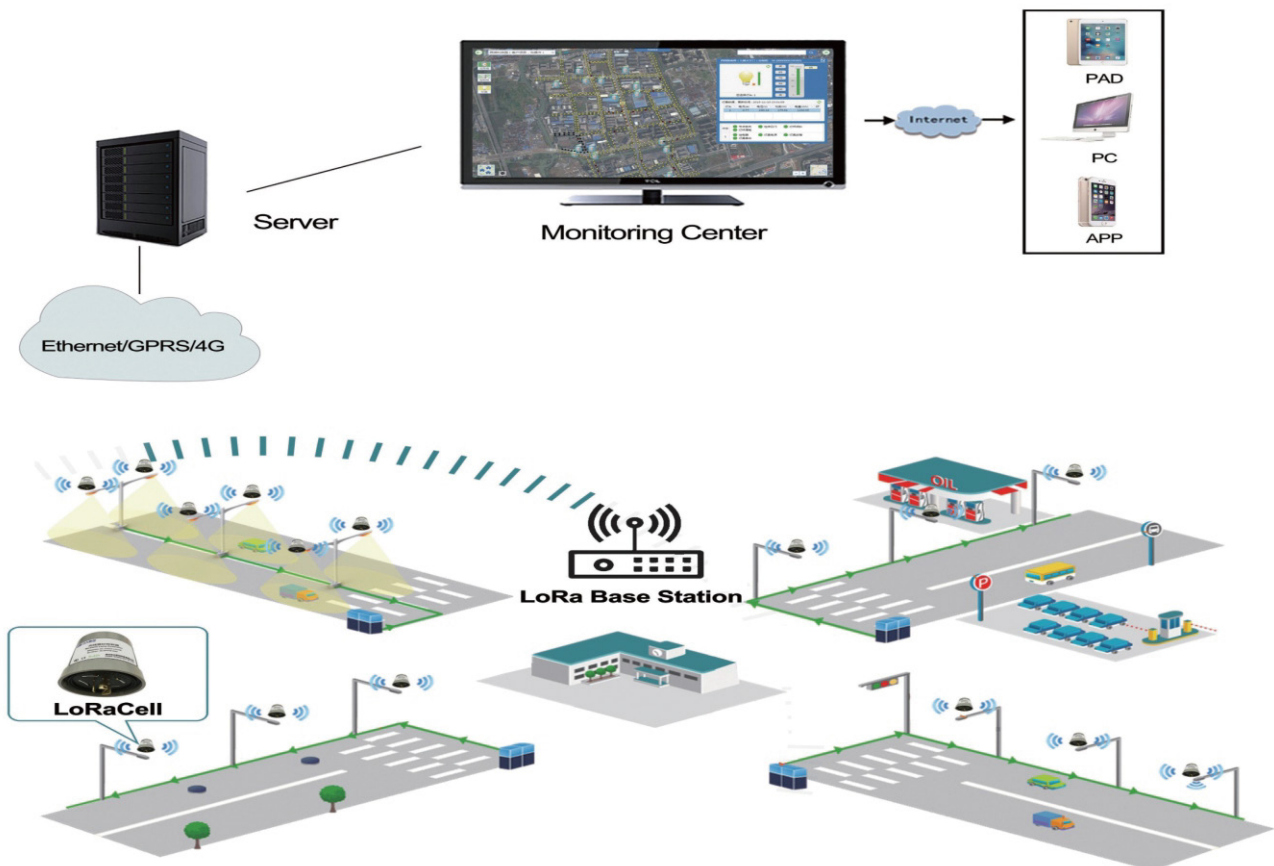
Zigbee lighting solution



GPRS/4G-LTE Solution



LORA Solution





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