

## LED Series ZDNY-SL-LED

### Feature

Use a single powerful LED (15W-200W) as the light source with our own intellectual property rights for LED encapsulation. Utilize the special design of multi-chip integrated single module for the light source. Choose the imported high brightness semiconductor chips.

Create an integrative design for heat sink and housing. The LED is closely connected to the crust. The heat from LED will be removed effectively through the heat dissipation wing and the air cross-ventilation. It ensures a 50000 hours life-span of LED. If it works 12 hours per day it can work over 10 years. The maintenance charges are much lower than other street lights.

The die-casting light housing can be an effective way of waterproof and dust proof. The surface of the light has been treated specially with the anodic oxidation and plastic sprayed. The whole light meets the standard of Ip65.

Apply the design of monomer ellipse reflector with spheroid cambered surface to improve the light uniformity and utilization ratio. It also can control the light in the range of the useful area. It reflects the energy-saving of the LED lights. Compared with sodium lamp it can save electricity energy more than to 60%.

No adverse glare. No frequent flash. It can eliminate the dazzling, visual fatigue and disturbance aroused by traditional street light. It also can improve the safety of the driving.

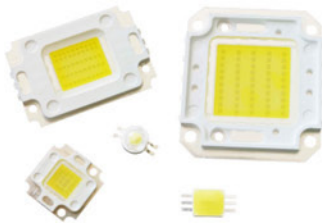
No start delay. No waiting. It can reach the normal lighting as soon as it is turned on. And avoid long time starting process of the traditional lights.

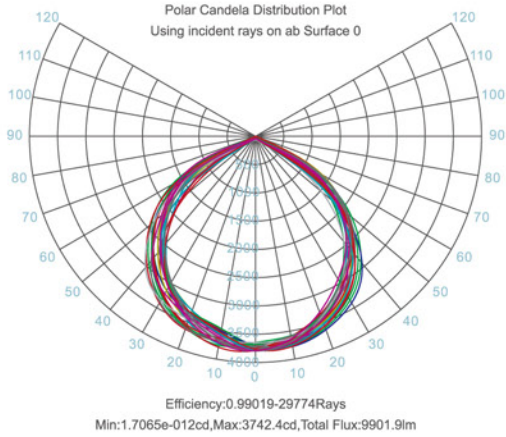
Environment friendly. It is the green and energy-saving lighting product. Never contain Lead, Hg or any other pollution elements.

It can work well together with the solar system, which can exert many merits such as working with direct current and lower voltage, working energy-saving and environment friendly. The connection of the solar panel and LED light sources provide a high reliability and a best cost-effective to the clients.

### Usage

City streets, pavements, squares, schools, parks, yards, residential district, factories and some other places where need outdoor lighting.





0.0	20.0	40.0	60.0	80.0	100.0	120.0	140.0	160.0
1.0	21.0	41.0	61.0	81.0	101.0	121.0	141.0	161.0
2.0	22.0	42.0	62.0	82.0	102.0	122.0	142.0	162.0
3.0	23.0	43.0	63.0	83.0	103.0	123.0	143.0	163.0
4.0	24.0	44.0	64.0	84.0	104.0	124.0	144.0	164.0
5.0	25.0	45.0	65.0	85.0	105.0	125.0	145.0	165.0
6.0	26.0	46.0	66.0	86.0	106.0	126.0	146.0	166.0
7.0	27.0	47.0	67.0	87.0	107.0	127.0	147.0	167.0
8.0	28.0	48.0	68.0	88.0	108.0	128.0	148.0	168.0
9.0	29.0	49.0	69.0	89.0	109.0	129.0	149.0	169.0
10.0	30.0	50.0	70.0	90.0	110.0	130.0	150.0	170.0
11.0	31.0	51.0	71.0	91.0	111.0	131.0	151.0	171.0
12.0	32.0	52.0	72.0	92.0	112.0	132.0	152.0	172.0
13.0	33.0	53.0	73.0	93.0	113.0	133.0	153.0	173.0
14.0	34.0	54.0	74.0	94.0	114.0	134.0	154.0	174.0
15.0	35.0	55.0	75.0	95.0	115.0	135.0	155.0	175.0
16.0	36.0	56.0	76.0	96.0	116.0	136.0	156.0	176.0
17.0	37.0	57.0	77.0	97.0	117.0	137.0	157.0	177.0
18.0	38.0	58.0	78.0	98.0	118.0	138.0	158.0	178.0
19.0	39.0	59.0	79.0	99.0	119.0	139.0	159.0	179.0

## LED Series ZDNY-SL-LED

Light Pole	Steel structure (hot dip galvanized and plastic-sprayed) 6~10 meters
Solar Panel	80Wp-150Wp Mono or poly crystalline
Battery Capacity	12V/50-200Ah(1 or 2pcs), Maintenance-free lead-acid battery/gel battery
Lighting Source	15W-200W LED, DC12-24V, AC110/220V
Controller	Intelligence control, overcharge protection, overdischarge protection, reverse-connection prevention, light control and timing control
Working Condition	-20°C ~ 50°C
Working Time	The system can continuously supply power for 3-5 days when it is rainy or cloudy

## Project Reference

- 1 30W LED 7m pole 10m width of the road
- 2 40W LED 8m pole 15m width of the road
- 3 60W LED 9m pole 20m width of the road
- 4 80W LED 10m pole 25m width of the road



## LED Technical Datasheet

Model		LED-12-20	LED-12-30	LED-12-40	LED-12-50	LED-12-60	LED-12-70	LED-12-100	LED-12-120	LED-12-150
Parameters		LED-24-20	LED-24-30	LED-24-40	LED-24-50	LED-24-60	LED-24-70	LED-24-100	LED-24-120	LED-24-150
Input Voltage		DC10 ~ 15V	DC10 ~ 15V	DC10 ~ 15V	DC10 ~ 15V	DC10 ~ 15V	DC10 ~ 15V	DC10 ~ 15V	DC10 ~ 15V	DC10 ~ 15V
		DC20 ~ 30V	DC20 ~ 30V	DC20 ~ 30V	DC20 ~ 30V	DC20 ~ 30V	DC20 ~ 30V	DC20 ~ 30V	DC20 ~ 30V	DC20 ~ 30V
Power Supply Efficiency		> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9
Rated Power		20W	30W	40W	50W	60W	70W	100W	120W	150W
Luminous Efficiency		> 90LM	> 90LM	> 90LM	> 90LM	> 90LM	> 90LM	> 90LM	> 90LM	> 90LM
Initial Flux Of LED Light		1600LM	2400LM	3200LM	4000LM	4800LM	5600LM	8000LM	9600LM	12000LM
Lighting Efficiency		> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%
Average Luminance		6m High	> 6	> 9	> 14	> 17	> 20	> 25		
		7m High	> 5	> 8	> 12	> 15	> 17	> 19	> 22	> 25
		8m High		> 6	> 9	> 10	> 13	> 15	> 18	> 23
		9m High			> 7	> 8	> 9	> 13	> 15	> 19
		10m High				> 6	> 7	> 10	> 12	> 15
		11m High								
		12m High								
Effective Illuminated Area		6m High	6*18m <sup>2</sup>	6*20m <sup>2</sup>	6*20m <sup>2</sup>	6*20m <sup>2</sup>	6*20m <sup>2</sup>	6*20m <sup>2</sup>		
		7m High	7*20m <sup>2</sup>	7*25m <sup>2</sup>	7*25m <sup>2</sup>	7*25m <sup>2</sup>	7*25m <sup>2</sup>	7*25m <sup>2</sup>	7*25m <sup>2</sup>	7*25m <sup>2</sup>
		8m High		8*30m <sup>2</sup>	8*30m <sup>2</sup>	8*30m <sup>2</sup>	8*30m <sup>2</sup>	8*30m <sup>2</sup>	8*30m <sup>2</sup>	8*30m <sup>2</sup>
		9m High			9*35m <sup>2</sup>	9*35m <sup>2</sup>	9*35m <sup>2</sup>	9*35m <sup>2</sup>	9*35m <sup>2</sup>	9*35m <sup>2</sup>
		10m High				10*35m <sup>2</sup>	10*35m <sup>2</sup>	10*35m <sup>2</sup>	10*35m <sup>2</sup>	10*35m <sup>2</sup>
		11m High								
		12m High								
Color Temperature		Warm White : 3000K ~ 3800K; True White : 4500K ~ 5500K								
CRI		> 75Ra								
Working Environment		Humidity : < 95% ; Environmental Temperature : -20 ~ 50°C								
Life Span		> 50000hrs								
Protection Grade		IP65								