

2012

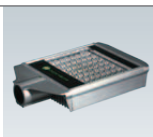


OUTDOOR LIGHTING PRODUCT CATALOGUE

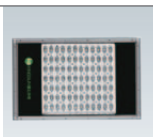


KINGSUN 勤上

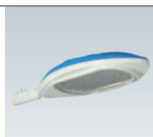
STREET LIGHT-RL



RL1A Street Light P07



RL1B Street Light P09



RL1G Street Light P11



RL1P Street Light P12



RL2R Street Light P15



RL2T Street Light P17

TUNNEL LIGHT-TL



TL1B Tunnel Light P19



TL1C Tunnel Light P21



TL1D Tunnel Light P22



TL2R Tunnel Light P23

FLOOD LIGHT-FL



FL1E Floodlight P25



FL1J Projector Luminaire P26



FL1N Projector Luminaire P29



FL2F Floodlight P30



FL2F Floodlight P31

COLUMN LUMINAIRES-PL



PL1A Column Luminaire P35



PL1F Column Luminaire P36

BOLLARD LUMINAIRES-BL



BL1B Bollard Luminaire P39

Wind/Solar Hybrid Street Light System	Wind/Solar Hybrid Street Light System	P40
---------------------------------------	---------------------------------------	-----

Guardian Lighting System	Guardian Lighting System	P46
--------------------------	--------------------------	-----

Smart LED	Smart LED Lamp Remote Wireless Intelligent Management System	P48
-----------	--	-----

Appendix	Light Distribution Category	P50
----------	-----------------------------	-----

Ordering Code Introduction

RL **1A** **1126** **A2** **40** **SG** **V24** **1** **1**
 1 2 3 4 5 6 7 8 9

1	Lamp Classification	BL: Bollard Luminares FL: Floodlight PL: Column Luminares RL: Street Light SL: Spotlight TL: Tunnel Light
2	Lamp Series	Series Code. Example: RL1A refers 1A series of Street Lights
3	Light Source	LED Type. Power Consumption
4	Light Distribution Type	A2 A3 A4 S1 S5 S7
5	Color Temperature	30: 3045±175K 40: 3985±275K 45: 4503±243K 50: 5028±283K 57: 5665±355K FC: Full Color RR: Red GG: Green BB: Blue YY: Yellow AM: Amber
6	Housing Color	BK: Black BW: Blue White CG: Cold Grey DG: Dark Grey MB: Matt Black SG: Silver Grey WH: White GY: Golden Yellow
7	Input Voltage	A22: AC 220-240V V24: AC 100-240V V27: AC 100-277V
8	Installation	1: Pole 2: Wall 3: Pendant 4: Ceiling 5: Recessed 0: Place
9	Control Mode	0: Without 1: Timing 2: ZigBee 3: DMX512 6: Photocell 7: Wire

Instructions

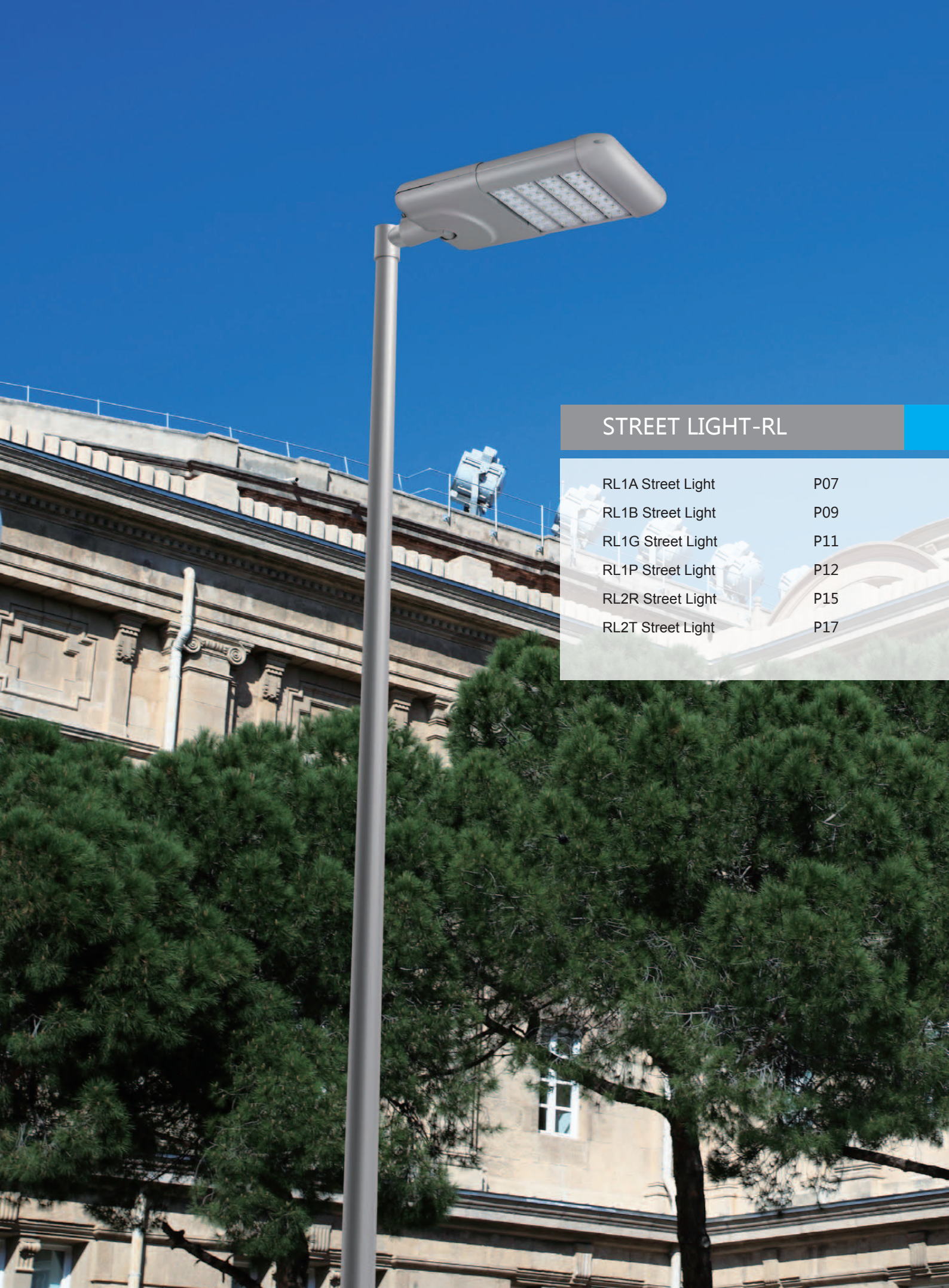
1. Definition of Ordering Code:

Ordering code consists of 19 letters and Arabic numbers, for example:

RL **1A** **1126** **A2** **40** **SG** **V24** **1** **1**
 Lamp Classification Lamp Series Light Source Light Distribution Type Color Temperature Housing Color Input Voltage Installation Control Mode

Means the product ordered is RL1A series with power consumption 126w, pole mounted, silver grey housing, A2 light distribution, color temperature ranged 3985±275K, input voltage AC240V and timing controller.

2. Products showed in the ordering info. are standard items in our company, and those with underlines are optional. If products with other different specifications or parameters are needed, please feel free to call us at 400 880 0816.



STREET LIGHT-RL

RL1A Street Light	P07
RL1B Street Light	P09
RL1G Street Light	P11
RL1P Street Light	P12
RL2R Street Light	P15
RL2T Street Light	P17



RL1A Street light

- Flat-plate design.
- Excellent heat dissipation design ensures long lifespan effectively.
- Patented asymmetrical lighting distribution system provides multiple options for different road lumenation requirements.
- Remote control system applicable for secondary energy saving.
- Easy installation and Maintenance.

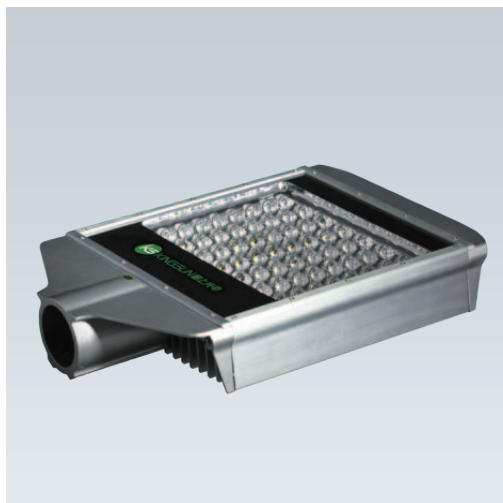
IP 65

Design Life
50,000hrs

Working Temp
-50°C ~ +35°C

Working Humidity
≤ 95%

Power Factor
> 0.95



Item No.	Wattage	Light Source	Rated Luminous Flux	CCT	Efficiency	Dimension(mm)
RL1A1028	32W	28W	2370 lm	3985±275K	>88%	L425×W297×H120
RL1A1042	48W	42W	3550 lm	3985±275K	>88%	L425×W297×H120
RL1A1056	64W	56W	4740 lm	3985±275K	>88%	L425×W297×H120
RL1A1070	78W	70W	5920 lm	3985±275K	>90%	L465×W297×H120
RL1A1084	93W	84W	7100 lm	3985±275K	>91%	L465×W297×H120
RL1A1098	108W	98W	8780 lm	3985±275K	>91%	L550×W297×H120
RL1A1112	123W	112W	9480 lm	3985±275K	>91%	L550×W297×H120
RL1A1126	139W	126W	10660 lm	3985±275K	>91%	L635×W297×H120
RL1A1140	154W	140W	11850 lm	3985±275K	>91%	L635×W297×H120
RL1A1154	170W	154W	13000 lm	3985±275K	>91%	L720×W297×H120
RL1A1168	185W	168W	14200 lm	3985±275K	>91%	L720×W297×H120
RL1A1182	200W	182W	15400 lm	3985±275K	>91%	L828×W297×H120
RL1A1196	216W	196W	16500 lm	3985±275K	>91%	L828×W297×H120

Ordering Info

Example: RL1A Street Light

Ordering Code **RL1A** **1126** **A2** **40** **SG** **V24** **1** **1**

1 Light Source

1028: 28W **1070:** 70W **1112:** 112W **1154:** 154W **1196:** 196W
1042: 42W **1084:** 84W **1126:** 126W **1168:** 168W
1056: 56W **1098:** 98W **1140:** 140W **1182:** 182W

2 Light Distribution

A2 **A4** **S1**

3 Color Temp

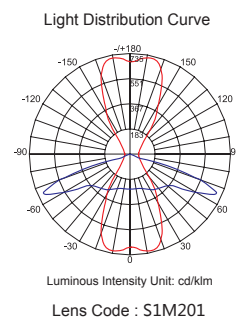
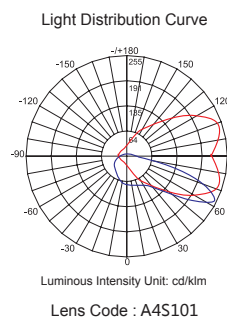
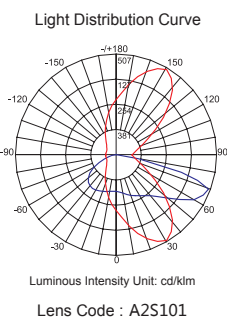
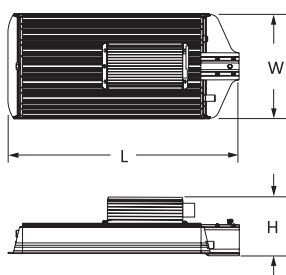
40: 3985±275K **45:** 4503±243K **50:** 5028±283K **57:** 5665±355 K

4 Input Voltage

A22: AC 220-240 V **V24:** AC 100-240 V **V27:** AC 100-277 V

5 Control Mode

0: Without **1:** Timing **2:** ZigBee

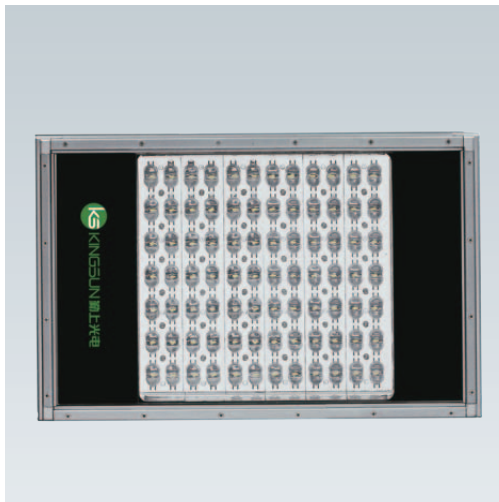




RL1B Street light

- Square and nice design.
- Aluminum alloy heat dissipation design ensures long lifespan effectively.
- Patented asymmetrical lighting distribution system provides multiple options for various road lumination requirements.
- Remote control system applicable for secondary energy saving.
- Easy installation with angle adjustable tilt.

IP 65



Item No.	Wattage	Light Source	Rated Luminous Flux	CCT	Efficiency	Dimension(mm)
RL1B1084	93W	84W	7100 lm	3985±275K	>91%	L467×W299×H197
RL1B1098	108W	98W	8290 lm	3985±275K	>91%	L467×W299×H197
RL1B1112	123W	112W	9470 lm	3985±275K	>91%	L467×W299×H197
RL1B1126	139W	126W	10600 lm	3985±275K	>91%	L552×W299×H277
RL1B1140	154W	140W	11800 lm	3985±275K	>91%	L552×W299×H277
RL1B1154	170W	154W	13790 lm	3985±275K	>91%	L637×W299×H277
RL1B1168	185W	168W	14210 lm	3985±275K	>91%	L637×W299×H277
RL1B1182	200W	182W	15400 lm	3985±275K	>91%	L745×W299×H277
RL1B1196	216W	196W	16580 lm	3985±275K	>91%	L745×W299×H277



Power Consumption ≤ 112W



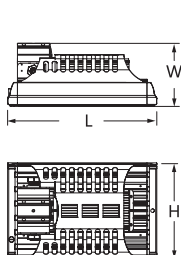
Power Consumption > 112W

Ordering Info

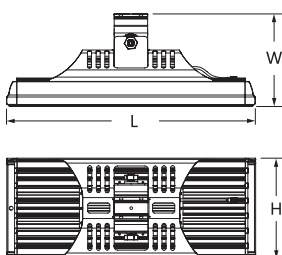
Example: RL1B Street Light

Ordering Code **RL1B** **1140** **A2** **40** **SG** **A22** **1** **0**
1 **2** **3** **4** **5**

1 Light Source	1084: 84W 1098: 98W 1112: 112W	1126: 126W 1140: 140W 1154: 154W	1168: 168W 1182: 182W 1196: 196W
2 Light Distribution	A2	A4	S1
3 Color Temp	40: 3985±275K	45: 4503±243K	50: 5028±283K 57: 5665±355 K
4 Input Voltage	A22: AC 220-240 V	V24: AC 100-240 V	V27: AC 100-277 V
5 Control Mode	0: Without	1: Timing	2: ZigBee

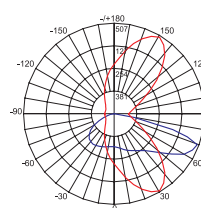


Power Consumption ≤ 112W



Power Consumption > 112W

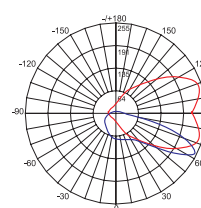
Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : A2S101

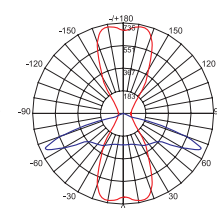
Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : A4S101

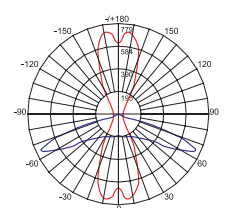
Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : S1M201

Light Distribution Curve



Luminous Intensity Unit : cd/klm

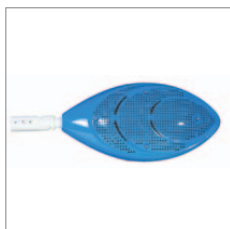
Lens Code : S1M202



RL1G Street light

- Smooth and clear casing, optional for different colors.
- Excellent heat dissipation system ensures long lifespan effectively.
- Remote control system applicable for secondary energy saving.
- Angle adjustable. High uniformity and intensity.

IP 65



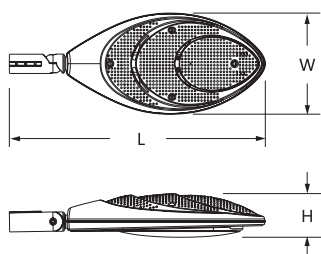
Item No.	Wattage	Light Source	Rated Luminous Flux	CCT	Efficiency	Dimension(mm)
RL1G1060	68W	60W	4760 lm	3985±275K	>88%	L959×W378×H163
RL1G1072	80W	72W	5710 lm	3985±275K	>90%	L959×W378×H163
RL1G1084	93W	84W	6660 lm	3985±275K	>91%	L959×W378×H163
RL1G1096	106W	96W	7610 lm	3985±275K	>91%	L959×W378×H163
RL1G1108	119W	108W	8560 lm	3985±275K	>91%	L959×W378×H163

Ordering Info

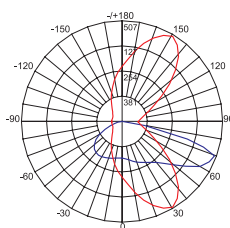
Example: RL1G Streetlight

Ordering Code **RL1G** **1108** **A2** **40** **BW** **V24** **1** **1**

1 Light Source	1060: 60W 1072: 72W	1084: 84W 1096: 96W	1108: 108W
2 Light Distribution	A2	A3	S1
3 Color Temp	40: 3985±275K	45: 4503±243K	50: 5028±283K 57: 5665±355 K
4 Input Voltage	V24: AC100-240V		
5 Control Mode	0: Without	1: Timing	2: ZigBee 6: Photocell



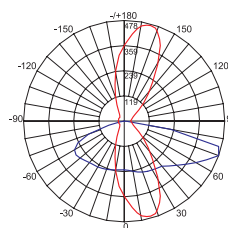
Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : A2S101

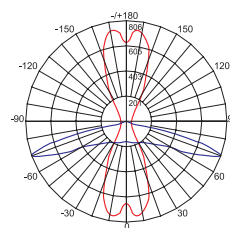
Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : A3L101

Light Distribution Curve



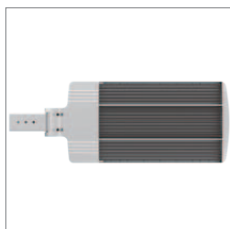
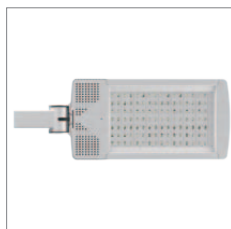
Luminous Intensity Unit : cd/klm

Lens Code : S1M203

RL1P Street light

- Ductile and slim structure design.
- Y-shape heat sink and optical-electrical chamber separation adopted, ensures long lifespan effectively.
- Angle adjustable, flexible with integral and separable installation.

IP 65



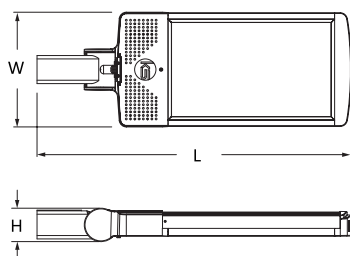
Item No.	Wattage	Light Source	Rated Luminous Flux	CCT	Efficiency	Dimension(mm)
RL1P1056	64W	56W	5400 lm	3985±275K	>88%	L664×W322×H108
RL1P1070	78W	70W	6600 lm	3985±275K	>90%	L714×W322×H108
RL1P1084	93W	84W	7800 lm	3985±275K	>91%	L764×W322×H108
RL1P1098	108W	98W	9120 lm	3985±275K	>91%	L814×W322×H108
RL1P1112	123W	112W	10600 lm	3985±275K	>91%	L864×W322×H108
RL1P1126	139W	126W	11500 lm	3985±275K	>91%	L914×W322×H108
RL1P1140	154W	140W	12700 lm	3985±275K	>91%	L964×W322×H108
RL1P1154	170W	154W	13900 lm	3985±275K	>91%	L1014×W322×H108
RL1P1168	185W	168W	15200 lm	3985±275K	>91%	L1064×W322×H108
RL1P1182	200W	182W	16400 lm	3985±275K	>91%	L1114×W322×H108

Ordering Info

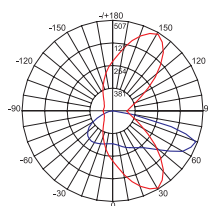
Example: RL1P Street Light

Ordering Code **RL1P** **1070** **A2** **40** **SG** **V24** **1** **1**
1 **2** **3** **4** **5**

1 Light Source	1056: 56W 1070: 70W 1084: 84W	1098: 98W 1112: 112W 1126: 126W	1140: 140W 1154: 151W 1168: 168W	1182: 182W
2 Light Distribution	A2	A3	S1	
3 Color Temp	40: 3985±275K	45: 4503±243K	50: 5028±283K	57: 5665±355 K
4 Housing Color	MB: Matt Black		SG: Silver Grey	
5 Control Mode	0: Without		1: Timing	2: ZigBee



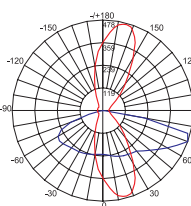
Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : A2S101

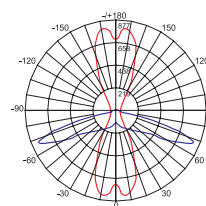
Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : A3L101

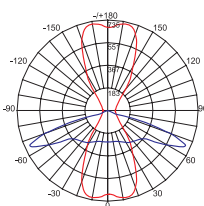
Light Distribution Curve



Luminous Intensity Unit : cd/klm

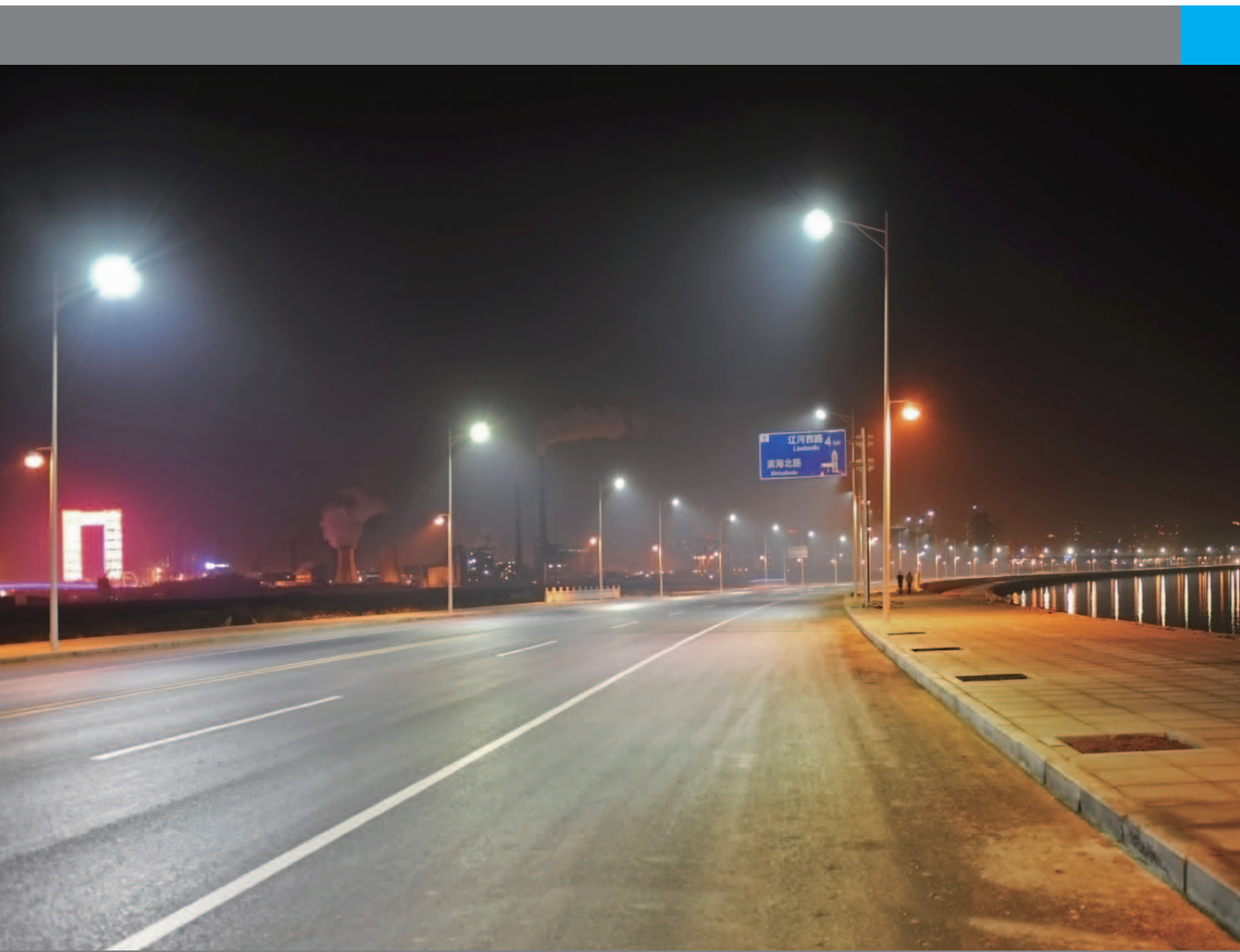
Lens Code : S1M101

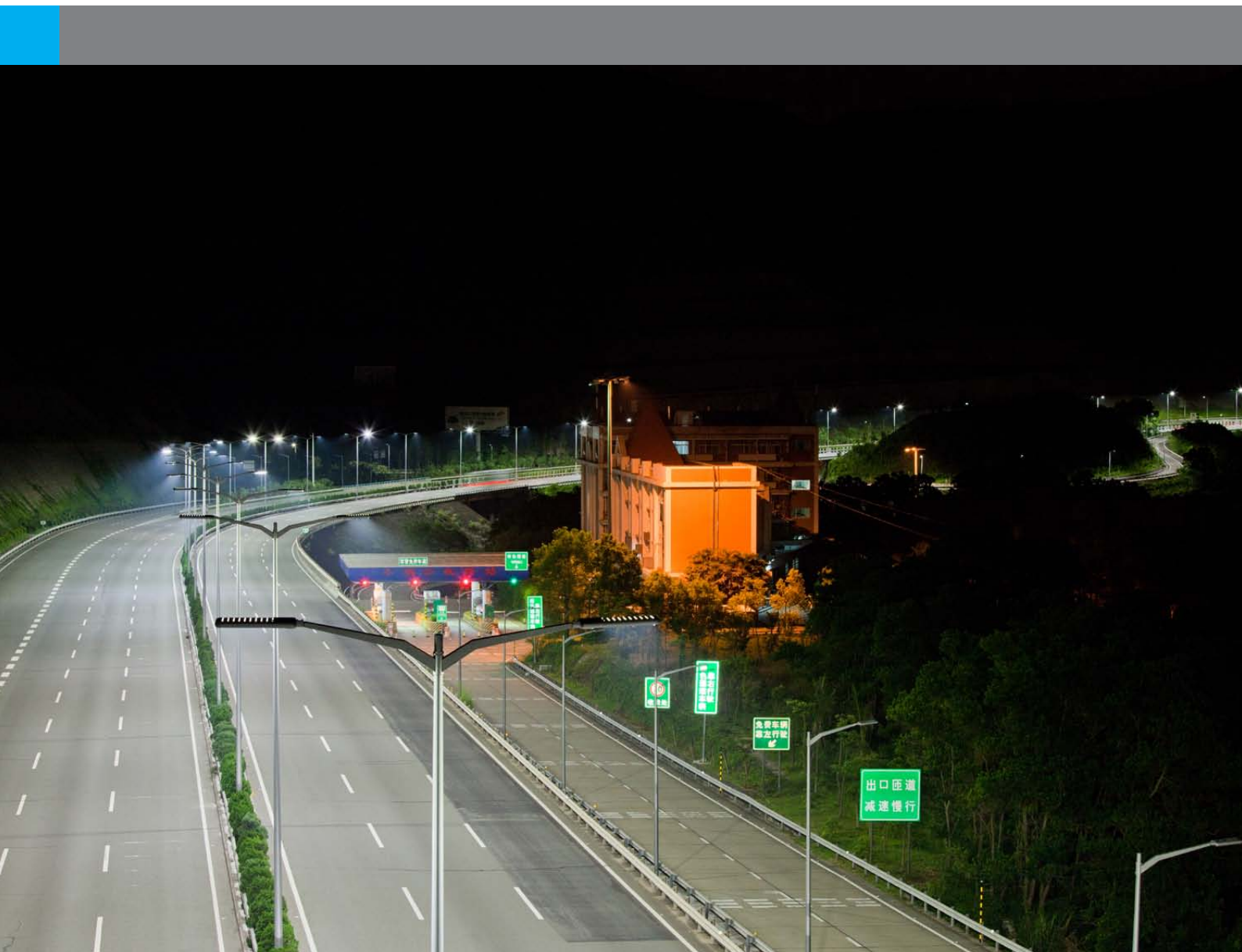
Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : S1M201





RL2R Street light

- Built-in chimney effect heat dissipation structure with self-cleaning function.
- Patented modular structure to realize power serialization by changing module quantity.
- Flexible drive allocation options for different regions.
- Angle adjustable, easy replacement.
- Tool-free maintenance.

IP 65



Item No.	Wattage	Module Qty	Rated Luminous Flux	CCT	Efficiency	Dimension(mm)
RL2R1014	31W	01	2500 lm	3985±275K	>91%	L491×W346×H102
RL2R1028	62W	02	5100 lm	3985±275K	>91%	L553×W346×H102
RL2R1042	93W	03	7700 lm	3985±275K	>91%	L615×W346×H102
RL2R1056	123W	04	9500 lm	3985±275K	>91%	L677×W346×H102
RL2R1070	154W	05	11900 lm	3985±275K	>91%	L739×W346×H102
RL2R1084	185W	06	14300 lm	3985±275K	>91%	L800×W346×H102
RL2R1098	216W	07	16600 lm	3985±275K	>91%	L863×W346×H102
RL2R1112	246W	08	19000 lm	3985±275K	>91%	L987×W346×H102
RL2R1126	277W	09	23000 lm	3985±275K	>91%	L988×W346×H102
RL2R1140	308W	10	26000 lm	3985±275K	>91%	L1050×W346×H102



Ordering Info

Example: RL2R Street Light

Ordering Code **RL2R** **1070** **A2** **50** **SG** **V27** **1** **1**
1 **2** **3** **4** **5** **6**

1 Light Source

1056: 112W **1098:** 196W
1070: 140W **1112:** 224W
1084: 168W

2 Light Distribution

A2 **A3** **A4** **S1**

3 Color Temp

40: 3985±275K **50:** 5028±283K **57:** 5665±355 K

4 Housing Color

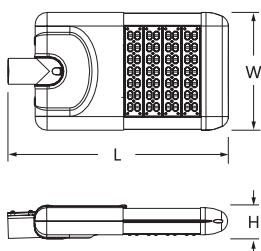
CG: Cold Grey **SG:** Silver Grey

5 Input Voltage

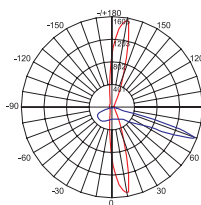
A22: AC 220-240 V **V27:** AC 100-277V

6 Control Mode

0: Without **1:** Timing **2:** ZigBee **6:** Photocell

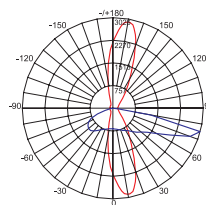


Light Distribution Curve



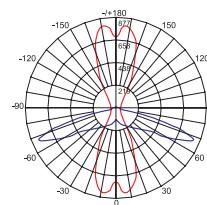
Luminous Intensity Unit : cd/klm
 Lens Code : A2M111

Light Distribution Curve



Luminous Intensity Unit : cd/klm
 Lens Code : A3L112

Light Distribution Curve



Luminous Intensity Unit : cd/klm
 Lens Code : S1M111



RL2T Street light

- Neat streamline design.
- Aluminum alloy adopted, good corrosion resistance with anodized or coating surface.
- Built-in chimney effect heat dissipation structure with self-cleaning function.
- Patented modular structure for power variation.
- Flexible drive allocation options for different regions.
- High luminance uniformity with accurate light distribution system.

IP 65



Item No.	Wattage	Module Qty	Rated Luminous Flux	CCT	Efficiency	Dimension(mm)
RL2T2803	93W	03	7100 lm	3985±275K	>91%	L302×W329×H158
RL2T2804	123W	04	9500 lm	3985±275K	>91%	L364×W329×H158
RL2T2805	154W	05	11900 lm	3985±275K	>91%	L426×W329×H158
RL2T2806	185W	06	14300 lm	3985±275K	>91%	L488×W329×H158
RL2T2807	216W	07	16600 lm	3985±275K	>91%	L550×W329×H158
RL2T2808	246W	08	19000 lm	3985±275K	>91%	L612×W329×H158



Ordering Info

Example: RL2T Street Light

Ordering Code **RL2T** **2804** **S1** **45** **SG** **V27** **1** **1**

1 Light Source

2803: 84W **2806:** 168W
2804: 112W **2807:** 196W
2805: 140W **2808:** 224W

2 Light Distribution

A2 **A3** **A4** **S1**

3 Color Temp

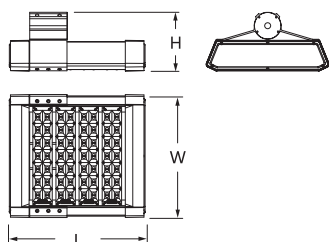
40: 3985±275K **50:** 5028±283K **57:** 5665±355 K

4 Housing Color

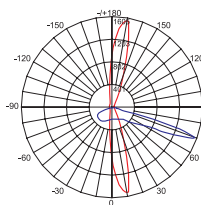
MB: Matt Black **CG:** Cold Grey **SG:** Silver Grey

5 Control Mode

0: Without **1:** Timing

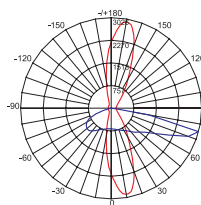


Light Distribution Curve



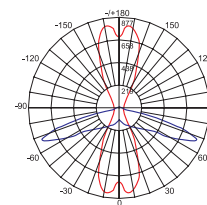
Luminous Intensity Unit : cd/klm
 Lens Code : A2M111

Light Distribution Curve

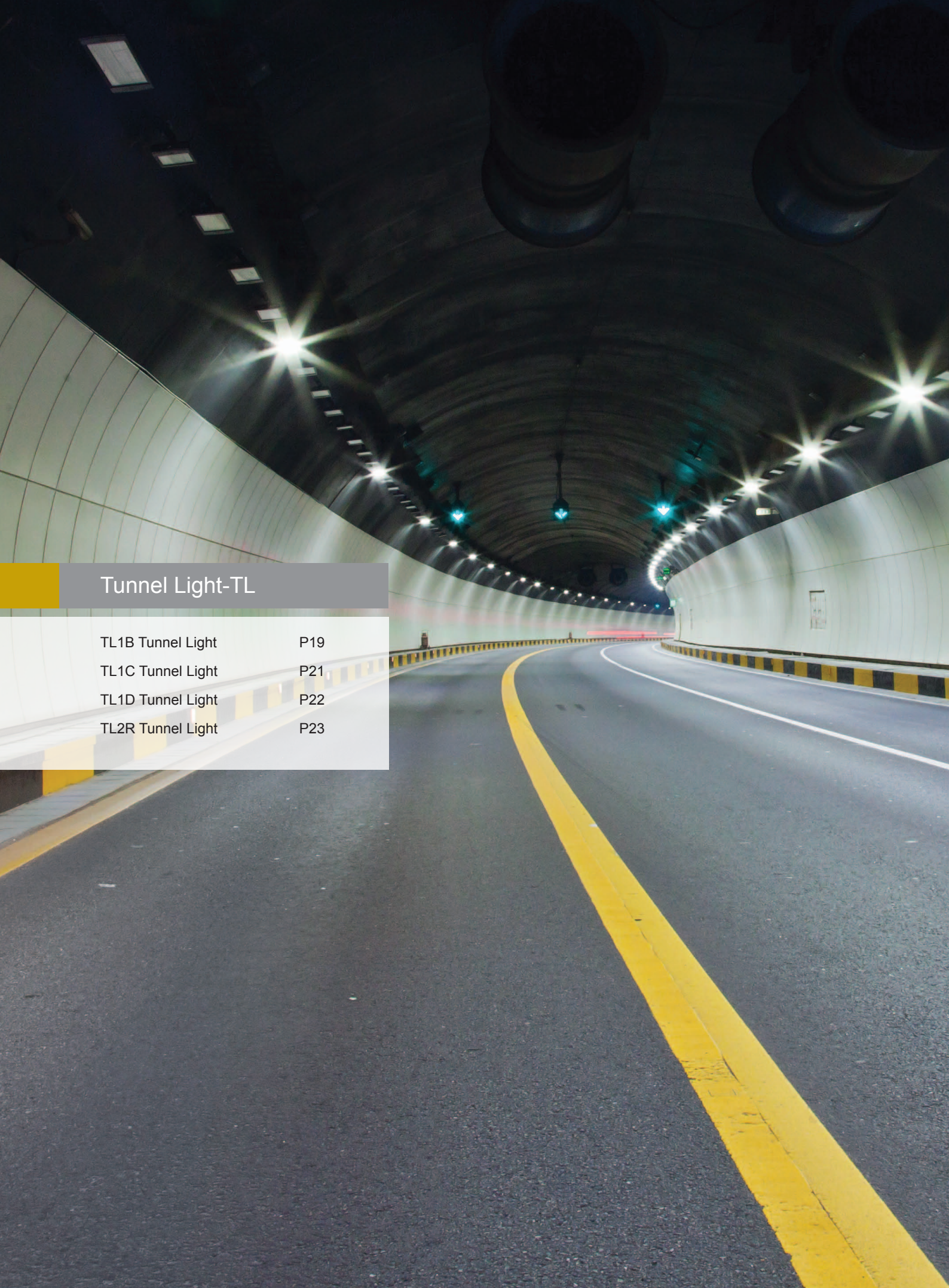


Luminous Intensity Unit : cd/klm
 Lens Code : A3L112

Light Distribution Curve



Luminous Intensity Unit : cd/klm
 Lens Code : S1M111



Tunnel Light-TL

TL1B Tunnel Light	P19
TL1C Tunnel Light	P21
TL1D Tunnel Light	P22
TL2R Tunnel Light	P23

TL1B Tunnel Light

- With nice appearance and good durability.
- Excellent emission effect with patented heat dissipation system.
- Automatic switch and dimming meet special requirements for tunnel lighting.
- Adjustable installation bracket suits different demands for all driveways.

IP 65

Design Life
50,000hrs

Working Temp
+50°C ~ -35°C

Working Humidity
≤ 95%

Power Factor
> 0.95

100-240V



Item No.	Wattage	Light Source	Rated Luminous Flux	CCT	Efficiency	Dimension(mm)
TL1B1028	32W	28W	1900 lm	5028±283K	> 88%	L342×W299×H210
TL1B1042	48W	42W	2850 lm	5028±283K	> 88%	L382×W299×H210
TL1B1056	64W	56W	3800 lm	5028±283K	> 88%	L382×W299×H210
TL1B1070	78W	70W	4760 lm	5028±283K	> 90%	L382×W299×H210
TL1B1084	93W	84W	5710 lm	5028±283K	> 91%	L382×W299×H210
TL1B1098	108W	98W	6660 lm	5028±283K	> 91%	L467×W299×H210
TL1B1112	123W	112W	7610 lm	5028±283K	> 91%	L467×W299×H210
TL1B1126	139W	126W	8560 lm	5028±283K	> 91%	L552×W299×H210
TL1B1140	154W	140W	9520 lm	5028±283K	> 91%	L552×W299×H210
TL1B1154	169W	154W	10400 lm	5028±283K	> 91%	L637×W299×H210
TL1B1168	185W	168W	11400 lm	5028±283K	> 91%	L637×W299×H210
TL1B1182	200W	182W	12300 lm	5028±283K	> 91%	L745×W299×H210
TL1B1196	216W	196W	13300 lm	5028±283K	> 91%	L745×W299×H210



Ordering Info

Example: TL1B Tunnel Light

Ordering Code TL1B 1168 S1 50 SG V24 2 0
1 2 3

1 Light Source

1028: 28W **1070:** 70W **1112:** 112W **1154:** 154W **1196:** 196W
1042: 42W **1084:** 84W **1126:** 126W **1168:** 168W
1056: 56W **1098:** 98W **1140:** 140W **1182:** 182W

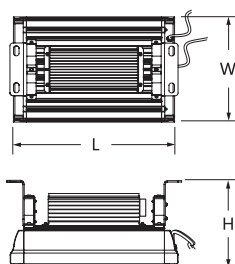
2 Light Distribution

A2

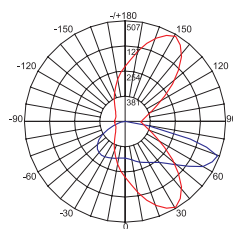
S1

3 Color Temp

30: 3045±175K **45:** 4503±243K **50:** 5028±283K **57:** 5665±355 K

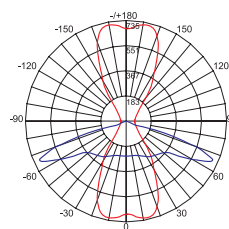


Light Distribution Curve



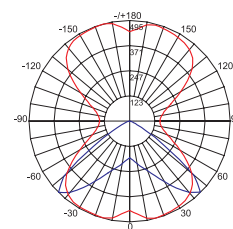
Luminous Intensity Unit : cd/klm
Lens Code : A2S101

Light Distribution Curve

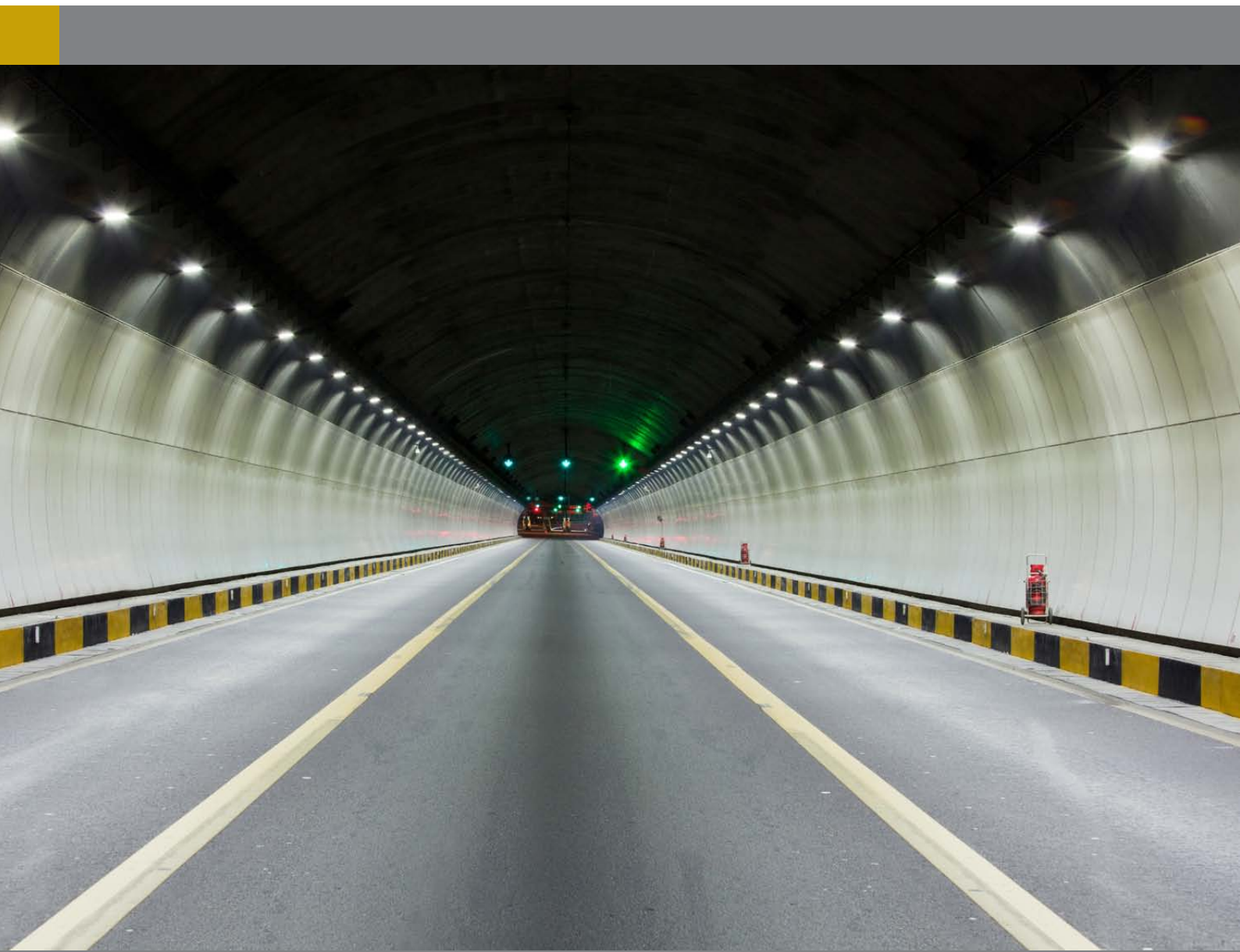


Luminous Intensity Unit : cd/klm
Lens Code : S1M201

Light Distribution Curve



Luminous Intensity Unit : cd/klm
Lens Code : S1S201



TL1C Tunnel Light

- With nice appearance and good durability.
- Patented heat dissipation system guarantees stable performance and long lifespan.
- Easy operation applied with spring clamp installation equipment.
- Adjustable installation bracket suits different demands for all driveways.

IP 65

Design Life
50,000hrs

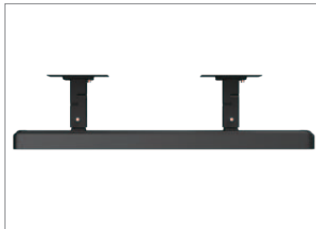
Working Temp
+50°C ~ -35°C

Working Humidity
≤ 95%

Power Factor
> 0.95



Power Consumption < 154W



Power Consumption ≥ 154W

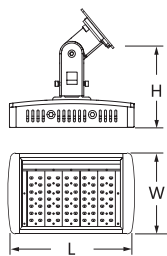
Item No.	Wattage	Light Source	Rated Luminous Flux	CCT	Efficiency	Dimension(mm)
TL1C1056	64W	56W	4420 lm	5028±283K	>88%	L432×W320×H288
TL1C1070	78W	70W	5570 lm	5028±283K	>90%	L502×W320×H288
TL1C1084	93W	84W	6660 lm	5028±283K	>91%	L572×W320×H288
TL1C1098	108W	98W	7750 lm	5028±283K	>91%	L642×W320×H288
TL1C1112	123W	112W	8840 lm	5028±283K	>91%	L712×W320×H288
TL1C1126	139W	126W	9990 lm	5028±283K	>91%	L782×W320×H288
TL1C1140	154W	140W	11080 lm	5028±283K	>91%	L852×W320×H288
TL1C1154	169W	154W	12240 lm	5028±283K	>91%	L922×W320×H288
TL1C1168	185W	168W	13320 lm	5028±283K	>91%	L992×W320×H288
TL1C1182	200W	182W	14410 lm	5028±283K	>91%	L1062×W320×H288
TL1C1196	216W	196W	15500 lm	5028±283K	>91%	L1132×W320×H288

Ordering Info

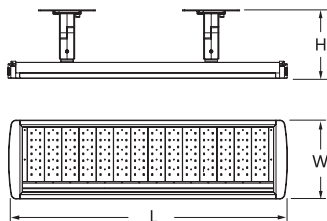
Example: TL1C Tunnel Light

Ordering Code TL1C 1154 A2 50 SG V27 2 0
1 2 3 4 5

1 Light Source	1056: 56W 1070: 70W 1084: 84W	1098: 98W 1112: 112W 1126: 126W	1140: 140W 1154: 154W 1168: 168W	1182: 182W 1196: 196W
2 Light Distribution	A2		A3	
3 Color Temp	45: 4503±243K		50: 5028±283K	
4 Housing Color	MB: Matt Black		SG: Silver Grey	
5 Input Voltage	V24: AC 100-240 V		V27: AC 100-277 V	

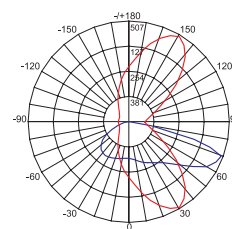


Power Consumption < 154W



Power Consumption ≥ 154W

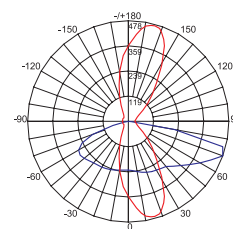
Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : A2S101

Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : A3L101

TL1D Tunnel Light

- With nice appearance and good durability.
- Patented heat dissipation system guarantees stable performance and long lifespan.
- Easy maintenance with independent chambers for light source and driver.
- Modular structure for power variation.
- Adjustable installation bracket suits different demands for all driveways.

IP 65

Design Life
50,000hrs

Working Temp
+50°C ~ -35°C

Working Humidity
≤ 95%

Power Factor
> 0.95

100-277V



Item No.	Wattage	Light Source	Rated Luminous Flux	CCT	Efficiency	Dimension(mm)
TL1D1056	64W	56W	4420 lm	5028±283K	>88%	L524×W320×H288
TL1D1070	78W	70W	5570 lm	5028±283K	>90%	L594×W320×H288
TL1D1084	93W	84W	6660 lm	5028±283K	>91%	L664×W320×H288
TL1D1098	108W	98W	7750 lm	5028±283K	>91%	L734×W320×H288
TL1D1112	123W	112W	8840 lm	5028±283K	>91%	L804×W320×H288
TL1D1126	139W	126W	9990 lm	5028±283K	>91%	L874×W320×H288
TL1D1140	154W	140W	11080 lm	5028±283K	>91%	L944×W320×H288
TL1D1154	169W	154W	12240 lm	5028±283K	>91%	L1014×W320×H288
TL1D1168	185W	168W	13320 lm	5028±283K	>91%	L1084×W320×H288
TL1D1182	200W	182W	14410 lm	5028±283K	>91%	L1154×W320×H288



Ordering Info

Example: TL1D Tunnel Light

Ordering Code TL1D **1154** **A2** **50** **SG** V27 2 0
1 2 3 4

1 Light Source

1056: 56W **1098:** 98W **1140:** 140W **1182:** 182W
1070: 70W **1112:** 112W **1154:** 154W
1084: 84W **1126:** 126W **1168:** 168W

2 Light Distribution

A2

A3

S1

3 Color Temp

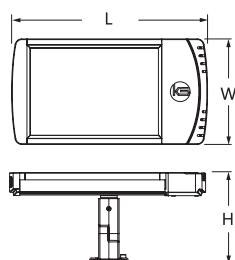
45: 4503±243K

50: 5028±283K

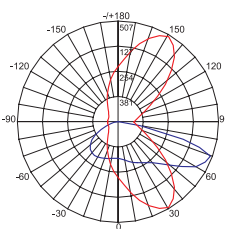
4 Housing Color

MB: Matt Black

SG: Silver Grey



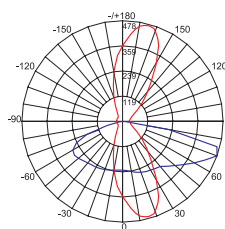
Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : A2S101

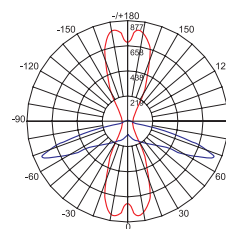
Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : A3L101

Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : S1M101

TL2R Tunnel Light

- Aluminum alloy housing and electrostatic sprayed surface reaches good resistance to corrosion, complying with RoHS standard.
- Built-in chimney effect thermal management system could solute the decrease of heat dissipation ability caused by dirt retention.
- Modular structure could be applied for power variation by module increase and decrease.
- Glareless lighting with Patented light distribution technology, safe for driving.
- Fast plug-in-out connector ensures a much easier maintenance.

IP 65



Item No.	Wattage	Light Source	Rated Luminous Flux	CCT	Efficiency	Dimension(mm)
TL2R2803	93W	03	7100 lm	5028±283K	>91%	L302×W330×H256
TL2R2804	123W	04	9500 lm	5028±283K	>91%	L364×W330×H256
TL2R2805	154W	05	11900 lm	5028±283K	>91%	L426×W330×H256
TL2R2806	185W	06	14200 lm	5028±283K	>91%	L488×W330×H256
TL2R2807	216W	07	16000 lm	5028±283K	>91%	L550×W330×H256
TL2R2808	246W	08	19000 lm	5028±283K	>91%	L612×W330×H256



Ordering Info

Example: TL2R Tunnel Light

Ordering Code TL2R **2808** **A2** **50** **MB** V27 2 0
1 2 3 4

1 Light Source

2803: 84W **2806:** 168W
2804: 112W **2807:** 196W
2805: 140W **2808:** 224W

2 Light Distribution

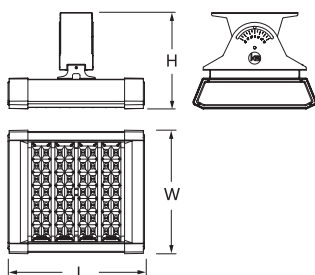
A2 A4 S1

3 Color Temp

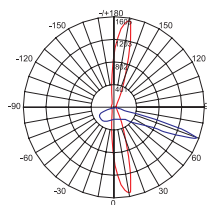
40: 3985±275K **45:** 4503±243K **50:** 5028±283K

4 Housing Color

MB: Matt Black **SG:** Silver Grey

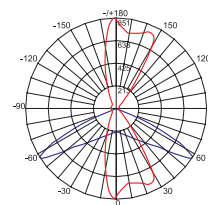


Light Distribution Curve



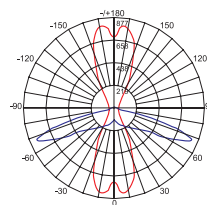
Luminous Intensity Unit : cd/klm
Lens Code : A2M111

Light Distribution Curve



Luminous Intensity Unit : cd/klm
Lens Code : A2S111

Light Distribution Curve



Luminous Intensity Unit : cd/klm
Lens Code : S1M111

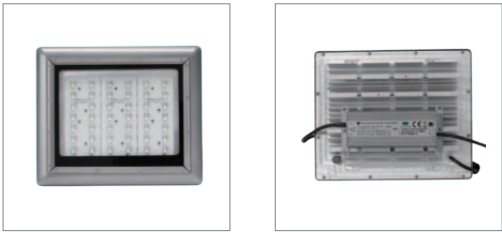


Floodlight-FL

FL1E Floodlight	P25
FL1J Projector Luminaires	P26
FL1N Projector Luminaires	P29
FL2F Parking Lot Light	P30

FL1E Recessed Floodlight

- Integrative design, recessed installation, exquisite and light.
- Good shock resistance with tempered glass front shade.
- Soft light emission and high uniformity.



IP 65

Design Life
50,000hrs

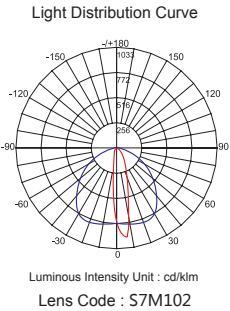
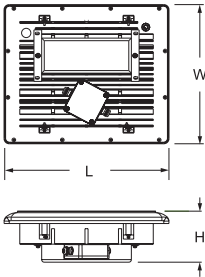
Working Temp
+50°C ~ -35°C

Working Humidity
≤ 95%

100-277V

Item No.	Wattage	Light Source	Rated Luminous Flux	Efficiency	CCT	Dimension(mm)
FL1E1042	48W	42W	3300 lm	> 88%	5028±283K	L320×W270×H109
FL1E1084	93W	84W	6600 lm	> 91%	5028±283K	L530×W270×H109

Ordering Info	Example: FL1E Flood Light			
	Ordering Code FL1E <u>1084</u> <u>S7</u> 50 SG V27 5 0			
		1	2	
1 Light Source	1042: 42W	1084: 84W		
2 Light Distribution	A2	A3	S1	S5



Types below are to be found in appendix

A3L101	A2S101	S1S101	S5N107
	A2S102	S1M101	S5M107
			S5M108
			S5M109

FL1J Projector Luminaires

- Matt black appearance, lens shade optional.
- Aluminum alloy adopted, good corrosion and shock resistance with anodized sprayed coating.
- Accurate light distribution design, highly focused light beam.
- Projection angle adjustable according to the height of the object, single color and full color solutions for option.
- High IP rate to adapt in harsh environment.

IP 65

Design Life
50,000hrs

Working Temp
+50°C ~ -35°C

Working Humidity
≤ 95%

100-240V



Item No.	Wattage	Light Source	LED Specification	LED Qty	CCT	Input Voltage	Dimension(mm)
FL1J1060	68W	60W	HP	60	FC	AC 100-240V	L330×W289×H265

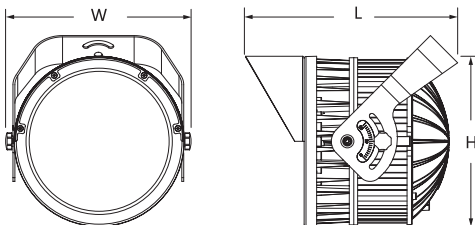


Ordering Info

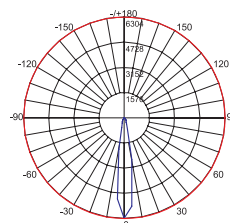
Example: FL1J Projector Luminaire

Ordering Code **FL1J** **1060** **S5** **40** **MB** **V24** **2** **0**
1 2 3

1 Color Temp/ Light Color	30: 3045±175K	40: 3985±275K	50: 5028±283K			
	RR: Red	GG: Green	BB: Blue	YY: Yellow	AM: Amber	FC: Full Color
2 Housing Color	MB: Matt Black			SG: Silver Grey		
3 Control Mode	0: Without			3: DMX512		



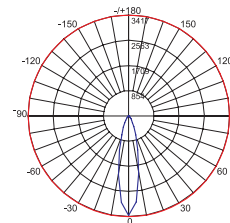
Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : S5001

Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : S5003

Types below are to be found in appendix

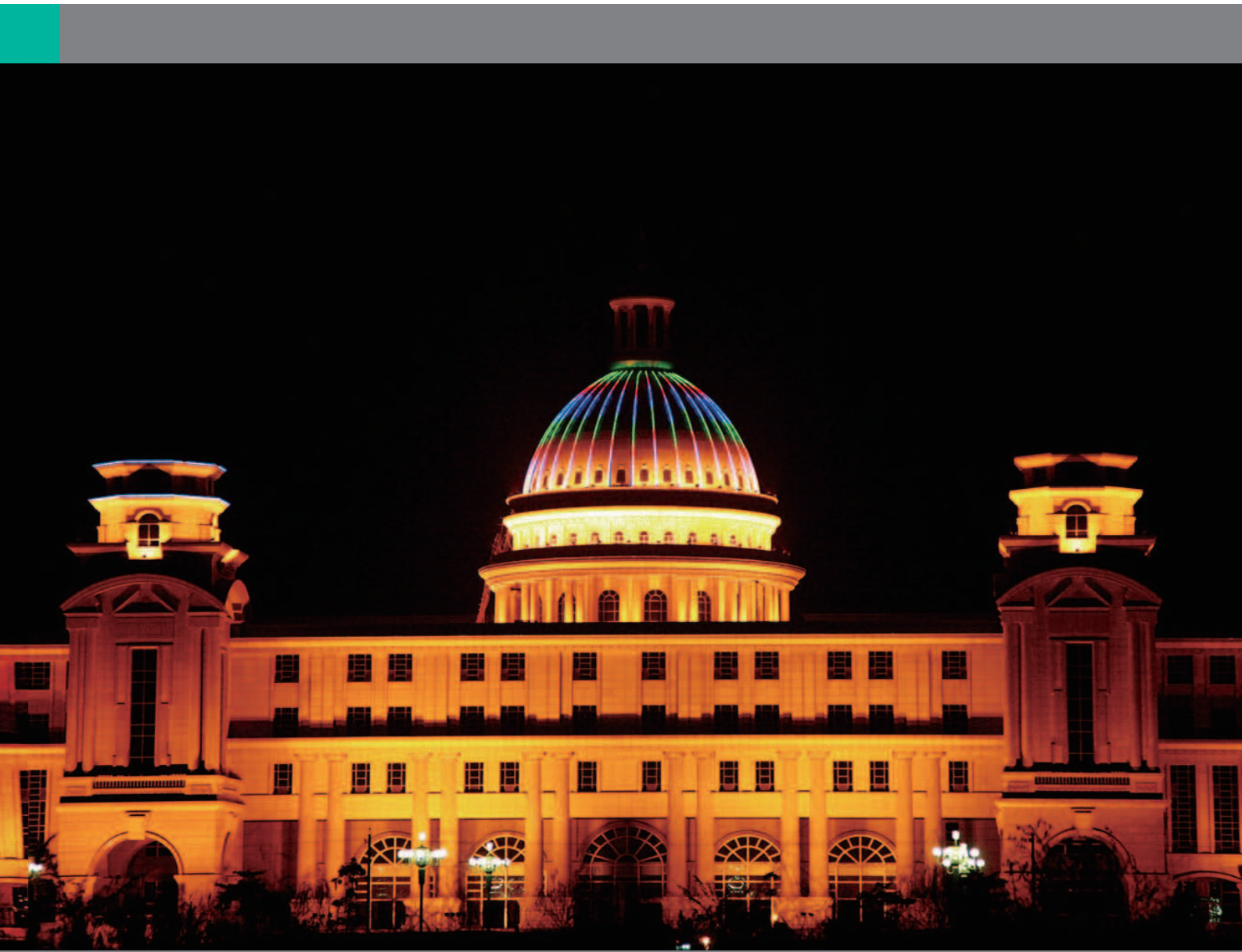
S5N107

S5M107

S5M108

S5M109





FL1N Projector Luminaires

- Rectangular shaped, simple appearance with classic black and white color match providing a comfortable vision
- Patented heat dissipation system guarantees steady performance and long lifespan.
- Narrow light angle, uniform light spots, wide illumination area.
- Projection angle adjustable according to different requirements, convenient and firm installation.

IP 65



Item No.	Wattage	Light Source	Rated Luminous Flux	Efficiency	CCT	Dimension(mm)
FL1N1056	64W	56W	4740 lm	>88%	5028±283K	L308×W320×H321
FL1N1070	78W	70W	5920 lm	>90%	5028±283K	L356×W320×H321
FL1N1084	93W	84W	7100 lm	>91%	5028±283K	L405×W320×H321
FL1N1098	108W	98W	8780 lm	>91%	5028±283K	L453×W320×H321
FL1N1112	123W	112W	9470 lm	>91%	5028±283K	L502×W320×H321
FL1N1126	139W	126W	10700 lm	>91%	5028±283K	L550×W320×H321
FL1N1140	154W	140W	11800 lm	>91%	5028±283K	L599×W320×H321
FL1N1154	169W	154W	13000 lm	>91%	5028±283K	L647×W320×H321
FL1N1168	185W	168W	14200 lm	>91%	5028±283K	L696×W320×H321

Ordering Info

Example: FL1N Projector Luminaire

Ordering Code **FL1N** **1112** **S5** **50** **MB** **V24** **2** **0**

1

2

3

1 Light Source

1056: 56W **1098:** 98W **1140:** 140W
1070: 70W **1112:** 112W **1154:** 154W
1084: 84W **1126:** 126W **1168:** 168W

2 Light Distribution

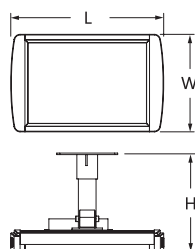
S5

S7

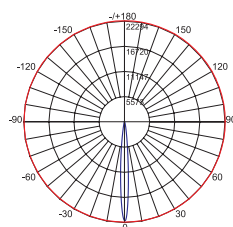
3 Installation Mode

1: Pole

2: Wall



Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : S5N103

S5N104

Types below are to be found in appendix

S5N105/S5N106

S5M101/S5M102

S5M103/S5M104

S5M105/S5M106

FL2F Floodlight

- Uniform luminance, glare-free, applicable for parking lot lighting.
- Aluminum alloy, high corrosion resistance and weather- resistance.
- Built-in chimney effect thermal management system with self-cleaning function and reliable performance.
- Patented removable-modules design for power variation.
- Flexible drive allocation options for different regions.

IP 65

Design Life
50,000hrs

Working Temp
+50°C ~ -35°C

Working Humidity
≤ 95%

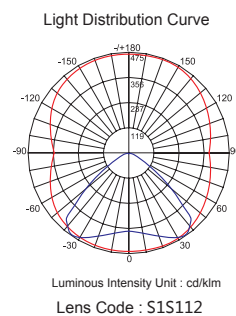
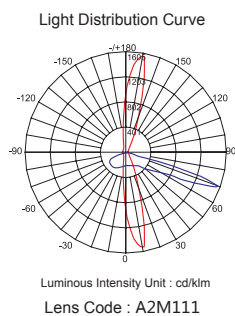
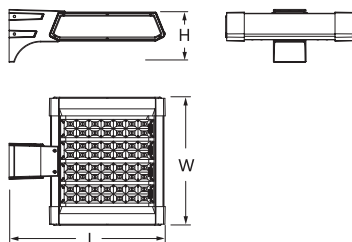
100-277V



Item No.	Wattage	Module Qty	Rated Luminous Flux	Efficiency	CCT	Dimension(mm)
FL2F28031	93W	03	7100 lm	>91%	5028±283K	L446×W302×H150
FL2F28041	123W	04	9500 lm	>91%	5028±283K	L446×W364×H150
FL2F28051	154W	05	11900 lm	>91%	5028±283K	L446×W426×H150
FL2F28061	185W	06	14200 lm	>91%	5028±283K	L446×W488×H150
FL2F28071	216W	07	16000 lm	>91%	5028±283K	L446×W550×H150
FL2F28081	246W	08	19000 lm	>91%	5028±283K	L446×W612×H150



Ordering Info	Example: FL2F Parking Lot Light			
	Ordering Code FL2F <u>2806</u> <u>S1</u> <u>50</u> <u>DG</u> V27 1 0			
		1	2	3 4
1 Light Source	2803: 84W 2804: 112W	2805: 140W 2806: 168W	2807: 196W 2808: 224W	
2 Light Distribution	A2		S1	
3 Color Temp	40: 3985±275K	45: 4503±243K	50: 5028±283K	57: 5665±355 K
4 Housing Color	MB: Matt Black	DG: Dark Grey	WH: White	



FL2F Floodlight

- Aluminum alloy, high corrosion resistance and weather-resistance
- Built-in chimney effect thermal management system with self-cleaning function and reliable performance.
- Patented removable-modules design for power variation.
- Flexible drive allocation options for different regions.

IP 65

Design Life
50,000hrs

Working Temp
-50°C ~ +35°C

Working Humidity
≤ 95%

100-277V



Item No.	Wattage	Module Qty	Rated Luminous Flux	Efficiency	CCT	Dimension(mm)
FL2F28030	93W	03	7100 lm	>91%	5028±283K	L302×W330×H129
FL2F28040	123W	04	9500 lm	>91%	5028±283K	L364×W330×H129
FL2F28050	154W	05	11900 lm	>91%	5028±283K	L426×W330×H129
FL2F28060	185W	06	14200 lm	>91%	5028±283K	L488×W330×H129
FL2F28070	216W	07	16000 lm	>91%	5028±283K	L550×W330×H129
FL2F28080	246W	08	19000 lm	>91%	5028±283K	L612×W330×H129



Ordering Info

Example: FL2F Floodlight

Ordering Code **FL2F** **2803** **A2** **50** **DG** **V27** **0** **0**
1 2 3 4

1 Light Source

2803: 84W **2806:** 168W
2804: 112W **2807:** 196W
2805: 140W **2808:** 224W

2 Light Distribution

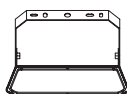
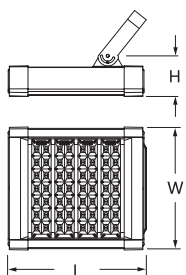
A2 **A4** **S1**

3 Color Temp

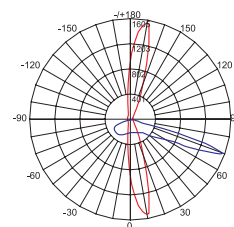
40: 3985±275K **45:** 4503±243K **50:** 5028±283K

4 Housing Color

MB: Matt Black **DG:** Dark Grey

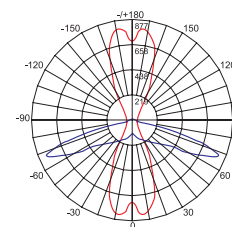


Light Distribution Curve

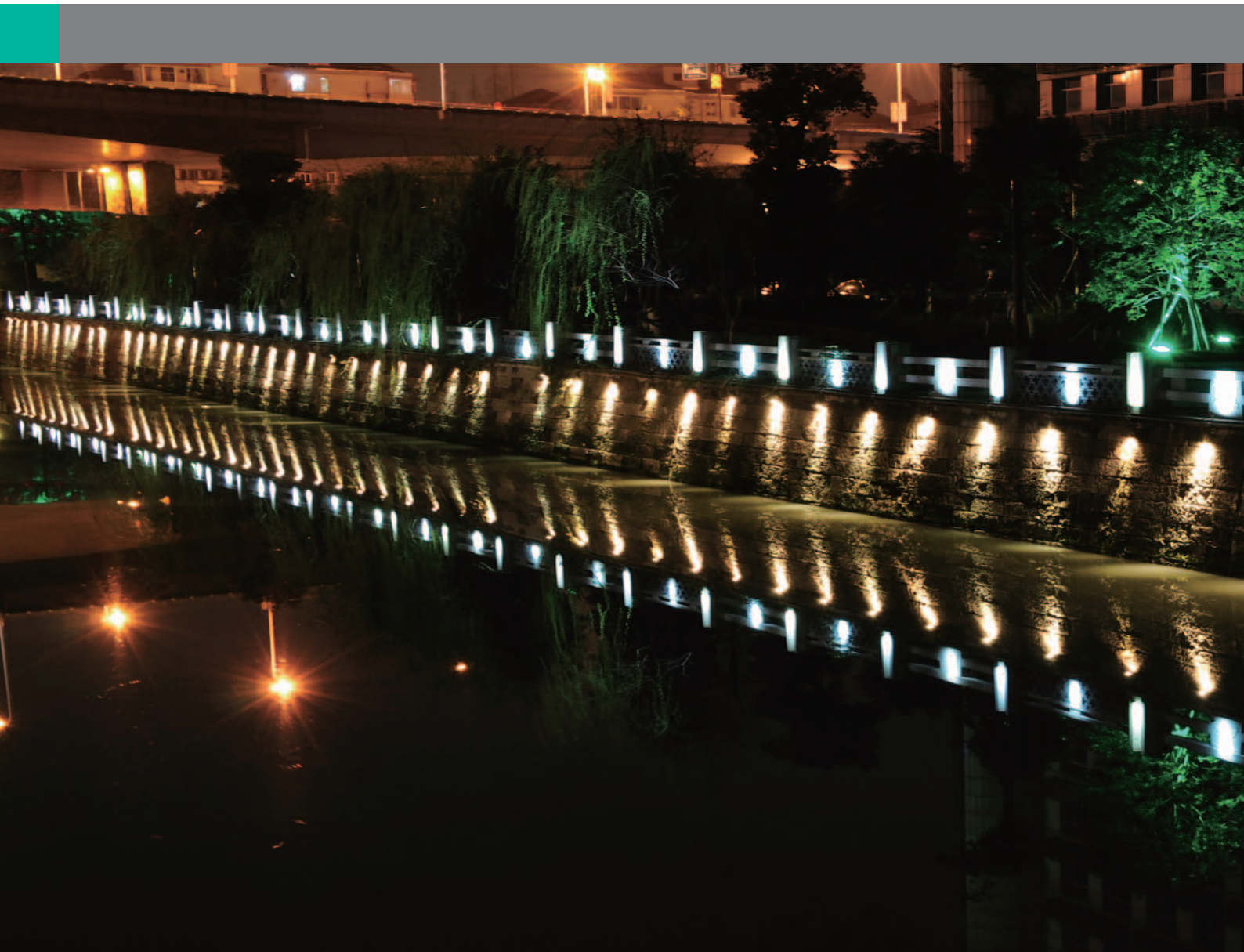


Luminous Intensity Unit : cd/klm
 Lens Code : A2M111

Light Distribution Curve



Luminous Intensity Unit : cd/klm
 Lens Code : S1M111







Column Luminaires - PL

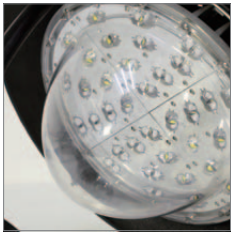
PL1A Column Luminaires P35

PL1F Column Luminaires P36

PL1A Column Luminaires

- Oliver-shape design increasing vivid atmospheres in parks, also nice decoration for landscape during the day.
- High Uniformity. Create peaceful atmospheres in the park.
- Solar-powered driver as options, secondary energy saving effects.
- long lifetime design, environmentally friendly.

IP 65



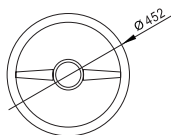
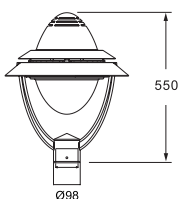
Item No.	Wattage	Light Source	Rated Luminous Flux	CCT	Efficiency	Power Factor
PL1A1024	28W	24W	2100 lm	5028±283K	>88%	>0.95
PL1A1036	41W	36W	3150 lm	5028±283K	>88%	>0.95
PL1A1048	55W	48W	4200 lm	5028±283K	>88%	>0.95

Ordering Info

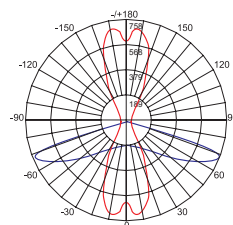
Example: PL1A Column Luminaires

Ordering Code **PL1A** **1036** **S1** **45** **BK** **A22** **1** **0**

1 Light Source	1024: 24W	1036: 36W	1048: 48W
2 Color Temp	45: 4503±243K		50: 5028±283K
3 Housing Color	BK: Black	MB: Matt Black	WH: White SG: Silver Grey



Light Distribution Curve

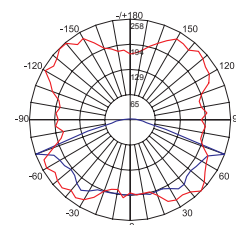


Luminous Intensity Unit : cd/klm

Lens Code : S1M201

linear Arrangement

Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : S1M201

Subulate Arrangement

PL1F Column Luminaires

- Dress-hat shape design full of European classical style.
- Symmetrical light distribution with high uniformity.
- Solar-powered driver to achieve secondary energy saving is optional.

IP 65



Item No.	Wattage	Light Source	Rated Luminous Flux	CCT	Efficiency	Power Factor
PL1F1012	14W	12W	1050 lm	5028±283K	>88%	>0.95
PL1F1024	28W	24W	2100 lm	5028±283K	>88%	>0.95
PL1F1036	41W	36W	3150 lm	5028±283K	>88%	>0.95
PL1F1048	55W	48W	4190 lm	5028±283K	>88%	>0.95
PL1F1060	68W	60W	5300 lm	5028±283K	>88%	>0.95



Ordering Info

Example: PL1F Column Luminaires

Ordering Code **PL1F** **1036** **S1** **50** **BK** **A22** **1** **0**

1 Light Source

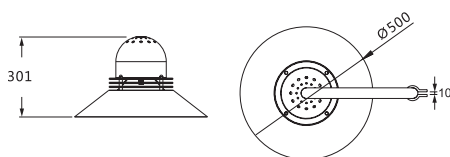
1012: 12W **1036:** 36W **1060:** 60W
1024: 24W **1048:** 48W

2 Color Temp

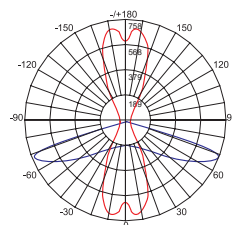
40: 3985±275K **45:** 4503±243K **50:** 5028±283K

3 Housing Color

BK: Black **MB:** Matt Black **WH:** White **SG:** Silver Grey



Light Distribution Curve

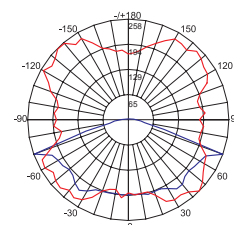


Luminous Intensity Unit : cd/klm

Lens Code : S1M201

linear arrangement

Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : S1M201

Subulate arrangement



A nighttime photograph of a garden path. The path is made of light-colored paving stones and is illuminated by several cylindrical bollard lights. The lights are placed along the path, casting a warm glow. The surrounding area is dark, with some foliage visible in the background. The overall mood is serene and modern.

Bollard Luminaires

BL1B Bollard Luminaires

P39

BL1B Bollard Luminaires

- Patented mushroom design increasing interest value of the nightview.
- Beautification and illumination functions are available with soft light and asymmetric light distribution.
- Safety treatment for sharp edges to prevent children injury.

IP 67



Item No.	Wattage	Light Source	LED Specification	LED Qty	CCT	Input Voltage	Dimension(mm)
BL1B1010	12W	10W	HP	10	5028±283K	AC 100-240V	Φ300×H419



Ordering Info

Example: BL1B Bollard Luminaires

Ordering Code **BL1B 1010 A4** 50 CG V24 0 0
1 2

1 Light Source

40: 3985±275K

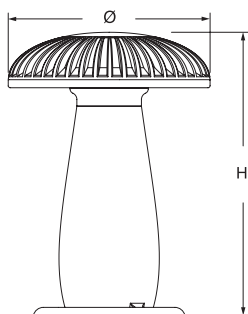
50: 5028±283K

2 Housing Color

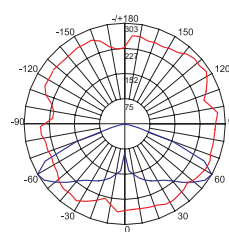
MB: Matt Black

CG: Cold Grey

WH: White



Light Distribution Curve



Luminous Intensity Unit : cd/klm

Lens Code : A4S101

Wind/Solar Hybrid Street Light System

Wind/Solar Hybrid Application System :

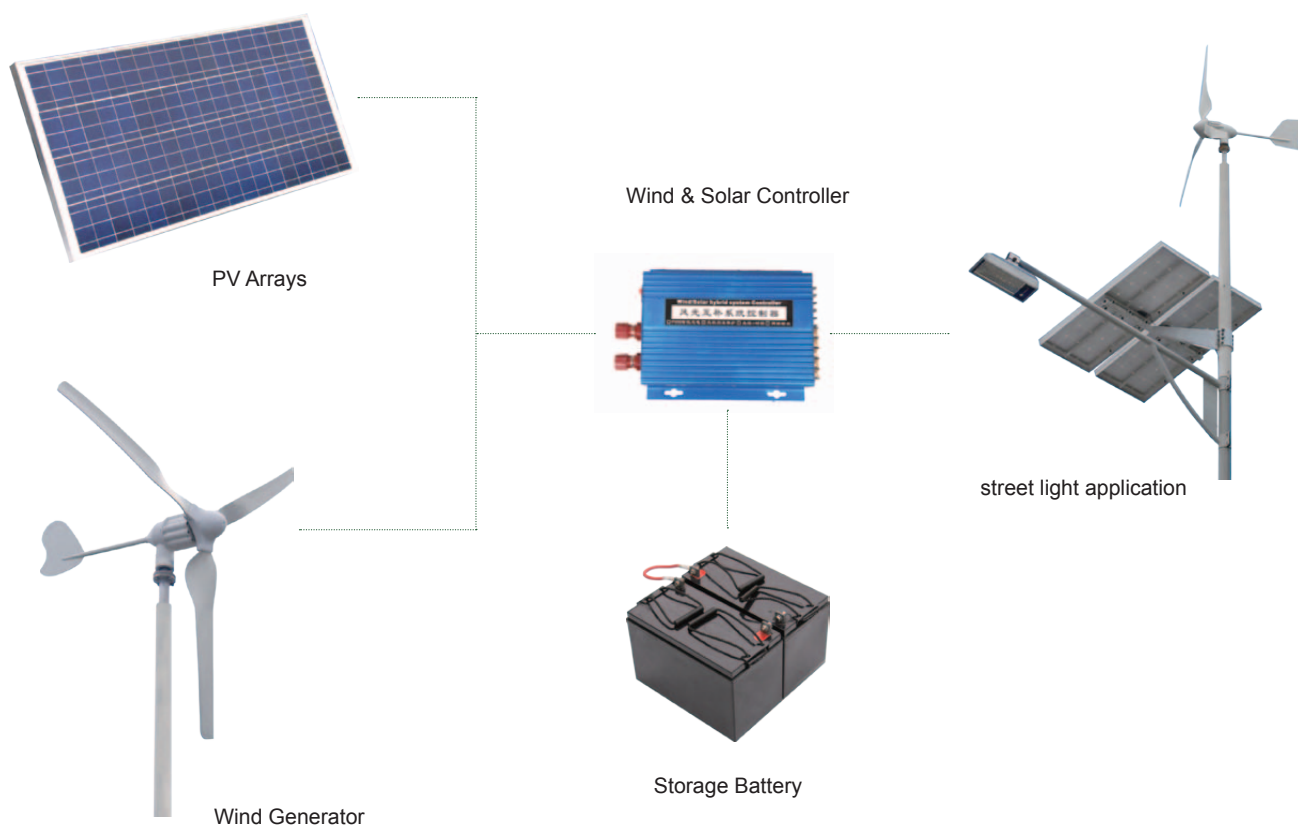
Kingsun LED solar & wind street light could work completely via utilizing wind and solar power without external power supply and contains mutually advantageous conjunction of wind and solar powered product. The energy generated by both wind and sun energy could be charged into batteries and transformed to electricity needed, and be switched on/off by intelligent control, with automatic sensor used for detection of light brightness level in environment without manually control.

System Description :

Kingsun LED solar & wind street light is powered with wind turbine generator and PV array.

System Composition :

Wind turbine generator, PV arrays, battery, LED street light, wind & solar controller (inverter), pole, cables and other accessories.



Power Supply System Sketch

Wind/Solar Hybrid Street Light System

System Configuration :

Kingsun Wind/Solar Hybrid Street Lamp System could provide rational allocation of capacity under certain circumstances according to the residual electricity loads, thus to ensure the reliability of power consumption and reduce the costs of built-up power generator system. For whatever extreme environment and power demand, Kingsun can provide the best design of suitable system to meet local residents' requirement.

System Features :

- 1、Energy saving and great reduction of electricity cost.
- 2、No need for cable pavement or constructions of power facility.
- 3、Local damage does not affect whole system even including large area of power failure.
- 4、Intelligent control without manually control, simple built-up, easy maintenance.



System Broader Applications :

Road, office, resident, enterprise, plant, service industry, advertisement industry, port, mountain, forest, railway, gas station, grassland farming, military camp, frontier, tourism, relay station, signal station of highway and railway, and any other places without grid-connected systems.

Type	Wind/Solar Hybrid Street Lamp					
System Consumption (W)	40	53	80	93	132	172
Spec(mm)	6000	6000	8000	8000	10000	10000
Application	Country road	Country road	Collector road	Collector road	Major road	Major road
PV Array	80	120	150	200	250	340
Wind Generator	300-400	300-400	400-600	400-600	600-800	600-800
Storage Battery	150AH	200AH	150AH	150AH	230AH	250AH
Control System	10A/12V	10A/12V	10A/24V	10A/24V	20A/24V	20A/24V
Daily Working Time (Energy Saving Mode)	10hrs	10hrs	10hrs	10hrs	10hrs	10hrs

Note : above data only used in windy and sunny region, different configuration for different region accordingly.

Wind/Solar Hybrid Street Light System

Wind & Solar Controller Features :

- 1、Two individual separate design of unloader and controller to avoid high temp of unloader to influence battery and controller
- 2、Circuit detection and automatic protection of unloader.
- 3、Power charge-discharge indication by intelligent fuzzy display, intelligent management for batteries, temperature compensation of charge controller (temperature sensor)
- 4、Uniform recharge batteries(automatic switch to fast charge/ floating charge)
- 5、Protection for reverse charge, overcharge, over discharge, overheating, overload and short circuit.
- 6、Anti-overcharge and anti-shock design to stabilize the system.
- 7、Optical or time control output available, or optical in combination with time control.
- 8、Optimized system design, adopt flexible control technology in rotation speed, output voltage, current, output power of wind generator to realizing precise power allocation. Start-up function and protection for dysfunctions of the wind generator adopted.

Wind & Solar Controller Parameters :

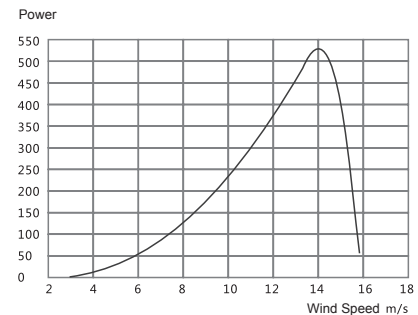
Item No	KS-10I	KS-20I	KS-30I
Rated Charge Current	10A	20A	30A
Rated Load Current	10A	20A	30A
System Voltage	DC24V/12V	DC24V/12V	DC24V/12V
Working Temperature	-25°C ~ +70°C	-25°C ~ +70°C	-25°C ~ +70°C
Overcharge Protection	14.4V/28.8V	14.4V/28.8V	14.4V/28.8V
Overcurrent Protection	10A	20A	30A
Floating Voltage	13.8V/27.6V	13.8V/27.6V	13.8V/27.6V
Charge Recovery Voltage	13.3V/26.6V	13.3V/26.6V	13.3V/26.6V
Over-discharge Voltage	10.5V/21V	10.5V/21V	10.5V/21V
Over-discharge Recovery Voltage	12V/24V	12V/24V	12V/24V
Temp. Compensation	-4mv/°C /2V	-4mv/°C /2V	-4mv/°C /2V
Overload and Short Circuit Protection	Yes	Yes	Yes
Controller Overheat Protection	Yes	Yes	Yes
Generator Over-speed Protection	Yes	Yes	Yes
Panel Converse Connection Protection	Yes	Yes	Yes
Control Mode	PWM charge	PWM charge	PWM charge

Wind/Solar Hybrid Street Light System

Wind Generator Features :

- 1、 Start-up and generating at a wind speed of 1.5m/s (lowest) with low start-up resisting moment(1/2 of national standard) (as the national standard of 1 / 12).
- 2、 Low start-up wind speed, efficient power generating at cut-in wind speed, power generation increased by 20% at the same wind velocity.
- 3、 Good stability, high safety, good heat dissipation.
- 4、 Glass fiber thermoplastic composite blades, high aerodynamic property, light weight, easy installation, long lifetime.
- 5、 Multifunction: Anti-wind, low noise, maintenance-free, anti- rust, anti- corrosion, moisture-proof, waterproof, anti-sandstorm.

Wind Generator Curve



400W / relationship between power and wind speed

Wind Generator Parameters :

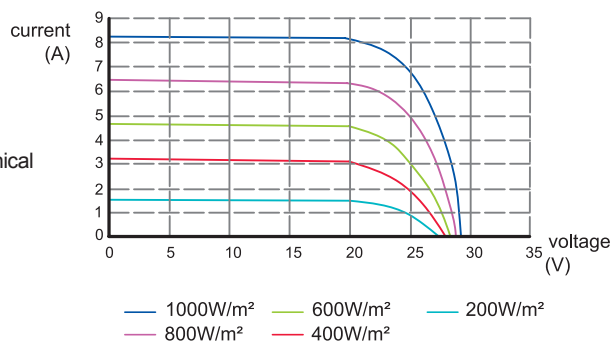
Item No	FD1.5-0.3	FD1.2-0.4	FD1.9-0.6	FD2.7-1.0
Start-up Wind Velocity	1.5m/s	2.3m/s	2.0m/s	3.0m/s
Cut-in Wind Velocity	2.5m/s	3m/s	2.8m/s	3.0m/s
Rated Wind Velocity	10m/s	12m/s	11m/s	12m/s
Survival Wind Velocity	50m/s	50m/s	50m/s	50m/s
Rated Output Power	300W	400W	600W	1000W
Rated DC Voltage	12V/24V	12V/24V	24V	24V/48V
Generator	brushless rare earth permanent-magnet	brushless rare earth permanent-magnet	brushless rare earth permanent-magnet	brushless rare earth permanent-magnet
Rotor Diameter	1.5m	1.4m	1.9m	2.7m
Spindle	Horizontal horizontal	Horizontal horizontal	Horizontal horizontal	Horizontal horizontal
Drive style	Direct drive	Direct drive	Direct drive	Direct drive
Blade	nylon&glass fiber	nylon&glass fiber	nylon&glass fiber	nylon&glass fiber

Wind/Solar Hybrid Street Light System

PV Arrays Features :

- 1、High-efficiency crystalline silicon solar cell film adopted, stable and high photoelectric conversion efficiency.
- 2、Long service life over 25 years with low decay.
- 3、No built-in angle button screw connection, strong sealing, high anti-mechanical intensity.
- 4、Dark blue silicon nitride coating of the surface reducing reflection, with uniform color and attractive appearance.
- 5、High transmittance glass packaging with high mechanical intensity.
- 6、Good weather resistance including anti-wind, anti-hail, etc.
- 7、Effective resistance from moisture and salty fog corrosion.
- 8、High power output of battery components guaranteed by quality solar cells.

PV Arrays Curve :



400~1000W/m² Wind Generator Curve

PV Arrays Spec/Type :

Item	Type	Spec	a	b	c	d	Power(W)
1	60(17)P 770×660	I	660	770	626	390	60-70
2	70(17)P900×660	I	660	900	626	510	70-80
3	80(17)P 1010×660	I	660	1010	626	510	75-90
4	80(17)P 1172×541	I	541	1172	507	592	75-85
5	80(17)P 1210×545	I	541	1172	511	610	75-85
6	130(17)P 1010×990	I	990	1010	946	510	110-140
7	120(17)P1470×680	I	680	1470	646	870	110-140
8	120(17)P1480×665	I	665	1480	621	780	110-140
9	170(35)P1580×808	I	808	1580	764	950	160-175
10	170(35)P1600×810	I	810	1600	766	970	160-175
11	180(23)P1310×990	I	990	1310	946	680	160-185
12	180(23)P1335×990	I	990	1335	946	720	160-185
13	190(26)P1495×990	I	990	1495	946	755	180-200
14	220(29)P1650×990	I	990	1650	946	1020	200-230
15	220(29)P1650×1030	I	1030	1650	986	1020	200-230
16	240(32)P1810×990	I	990	1810	946	1210,610	230-250
17	270(32)P1970×990	I	990	1970	946	1310,660	250-280

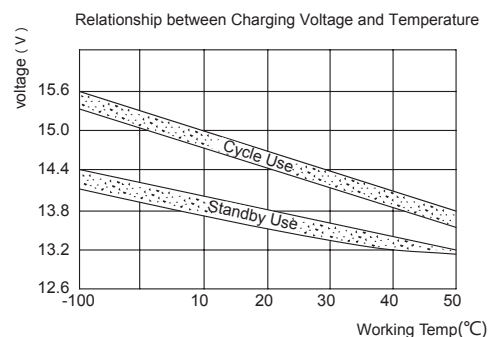
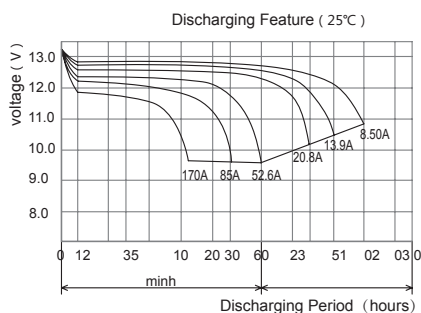
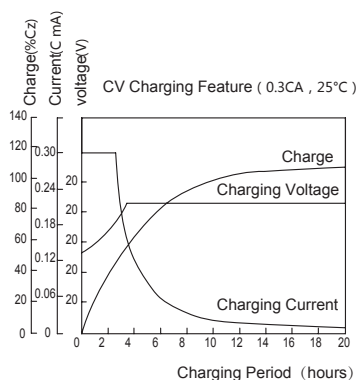
Wind/Solar Hybrid Street Light System

Storage Battery Features :

- 1、NM SiO₂ gel technology, 99% gas recombination rate, without water supply maintenance.
- 2、In accordance with air transportation condition.
- 3、UL certification approval.
- 4、CAD design: Pb-Ca-Sn grid alloy, suitable for high power discharge.
- 5、Low automatic discharge providing a long auto-float-charging and cycling lifespan.
- 6、SOP and inflammable ABS capping provided.
- 7、Anti-corrosion of polar column with water-proof lead wire connection.

Storage Battery Spec/Type :

Type	Nominal Voltage(V)	Capacity	Dimension / Weight,(mm/Kg[(±5%)])				
		(Ah)10HR	L	W	H	Total Height	Weight
6FM33D	12	31.4	195	130	155	168	10.2
6FM40D	12	38.8	197	165	170	170	13.5
6FM45D	12	41.8	197	165	170	170	13.8
6FM55D	12	51.7	239	132	205	215	18
6FM60D	12	58.7	258	166	206	215	24
6FM65D	12	60.7	350	167	179	179	23.4
6FM75D	12	74.1	258	166	206	215	24
6FM80D	12	75.6	350	167	179	179	24
6FM90D	12	88.6	306	169	208	215	30
6FM100D	12	95.5	330	171	214	222	32
6FM120D	12	113	410	176	227	227	38
6FM150D	12	143	485	172	240	240	47
6FM200D	12	187	522	238	218	223	65

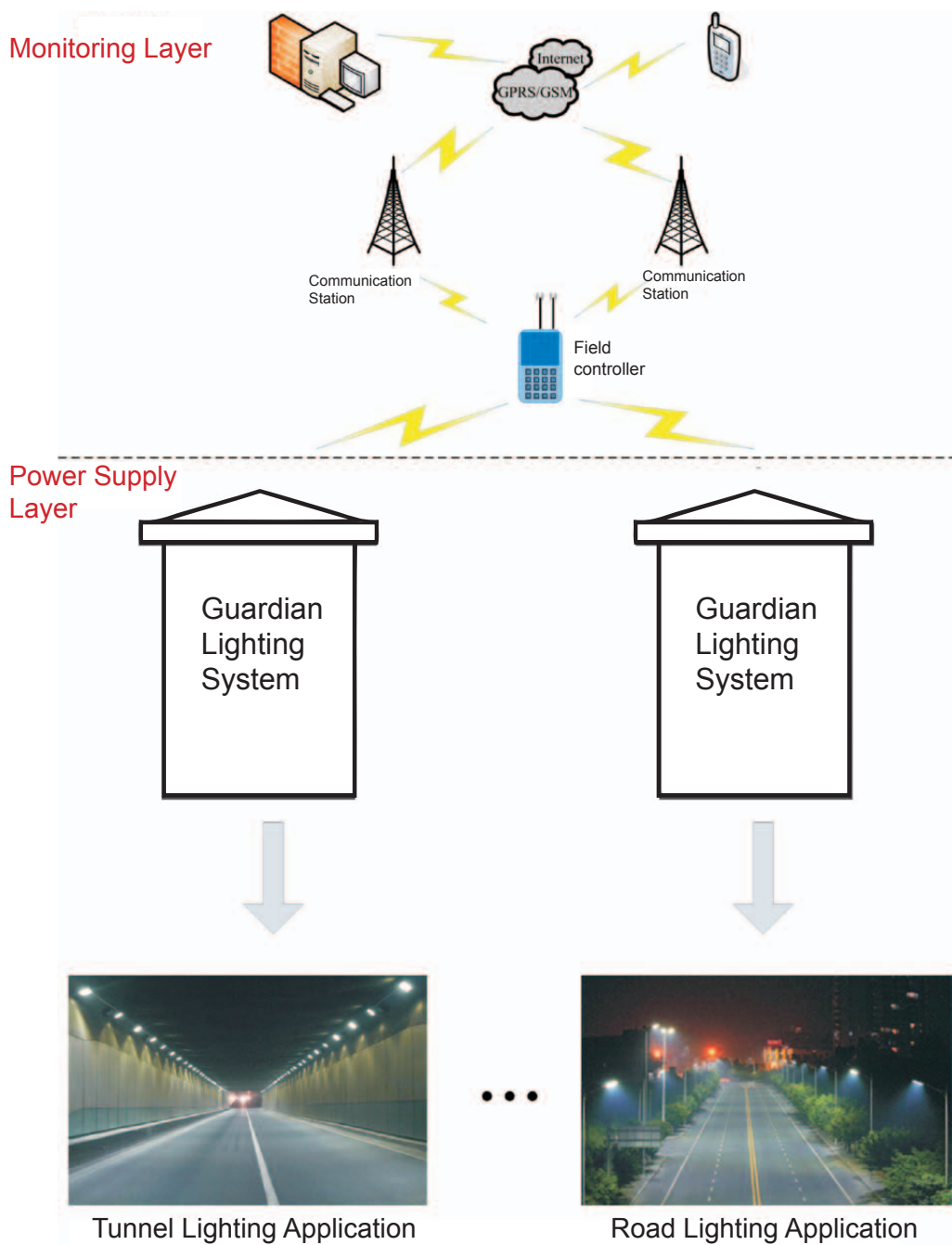


Guardian Lighting System

I 、 System Introduction

The basic causes for most failures of current LED lighting products, especially LED indoor lighting products, are some easily damaged components such as switch power supply . Therefore, Kingsun innovates the first Guardian Lighting System worldwide with three years' R&D and production experience, which is the overturning solution to reliability and stability of LED lighting products, making customers energy saving, efforts saving and money saving.

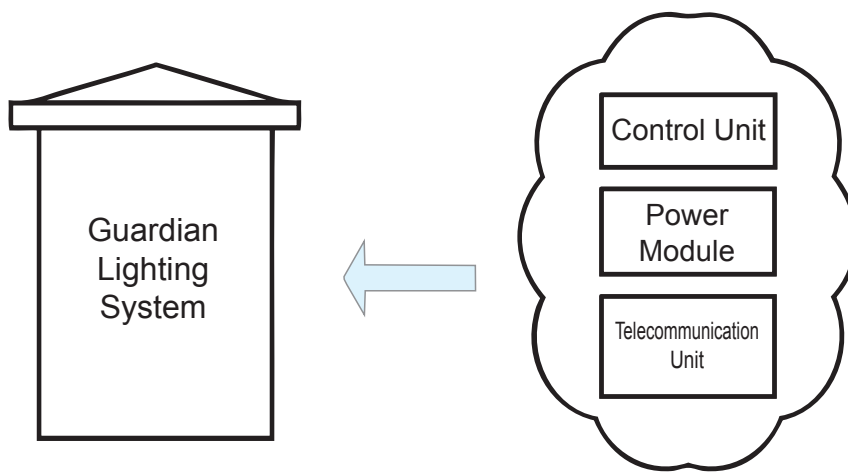
II、 System Framework



III、Functions and Features

- Supply LED lamp with DC directly, simplifying lamp circuit, decreasing operation temperature and lamp weight, improving the stability greatly and prolonging lamp's lifespan
- Excellent energy-saving plan. Power factor up to 0.99, could effectively reduce the reactive power consumption, and reduce outdoor wires usage, low harmonic wave volume less than 5%, effectively reducing the impact of power supply quality.
- High reliability by fully protected power supply with features as anti-surge, short circuit protection and N +1 backup function of power supply module.
- Remote and automatic controlling dimming function applicable combined with Kingsun's LED LAMP REMOTE WIRELESS INTELLIGENT MANAGEMENT SYSTEM; no additional signal control wire needed for system and lamps connection to adjust lighting accordingly and automatic remote fault alarm for power supply and lamp available.
- Lamp fault notifications issued by SMS for customers' convenience. In case of any lighting failures, the system could automatically switch the power supply module to keep lights working and send notifications to administrators for maintenance.
- Easy maintenance: Unnecessary with special tools, traffic closing, power cut-off or lifting equipment for maintenance.
- completely suitable for the existing electrical wiring and efficient than existing single AC power supply, highly cost-effective.

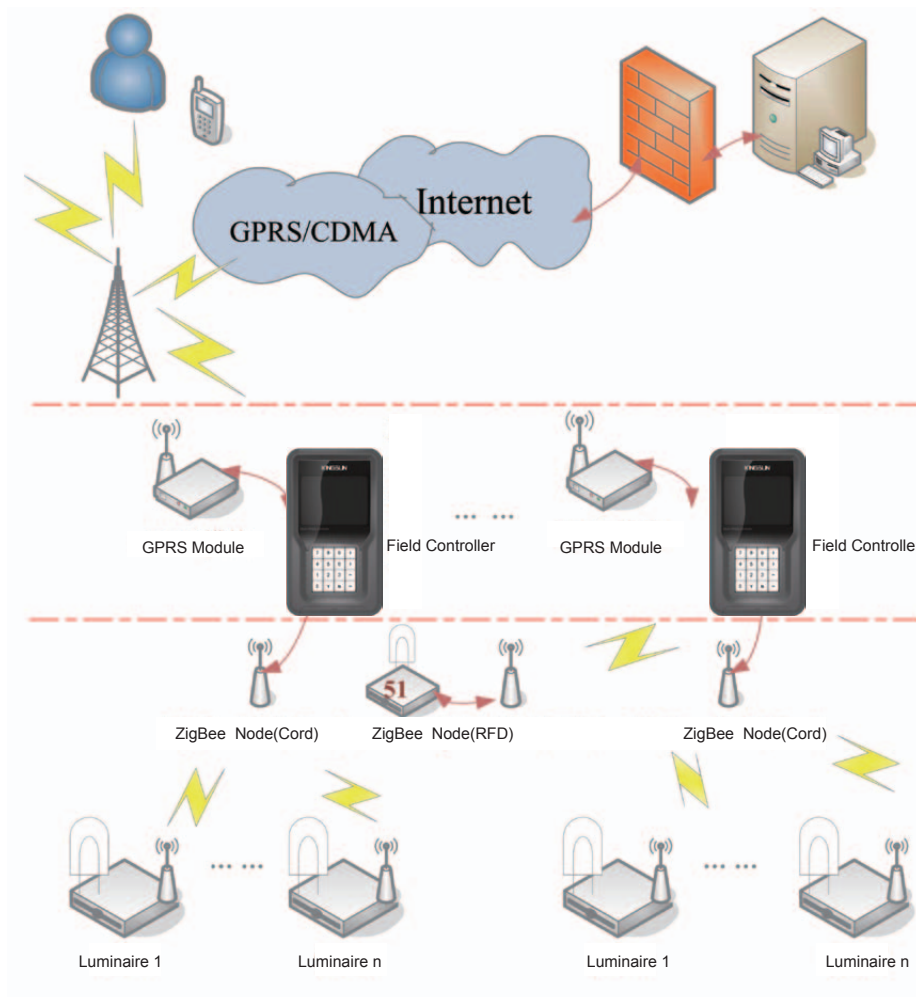
V、System Composition



Smart LED Light Remote Wireless Intelligent Management System

Remote Control system Scheme :

Computer sends messages including controlling orders, etc. to field controller through internet and GPRS network, then field controller releases messages to each lamp's node by Radio Frequency. One field controller could manage all lamps in its field, and many controllers could be connected to one or more computers with GPRS network to realize remote management. Messages could be sent between computer and each single lamp mutually.



I 、 System Function

- 1、 Control :
 - (1) Group Control: 0%-100% dimming control for a single road or couple roads in a region.
 - (2) Individual Control: For any lamp in one field.
 - (3) Intelligent Control: Adjusting automatically lamps' working time and designated brightness according to the coordinate.
- 2、 Detection: Info-collection function for gathering operational parameters such as, current, temperature, etc., which could be analyzed through lamp controller or PC.
- 3、 Expert Diagnoses: Instant information could be fed back to PC in case of any abnormality as communication dysfunction, high current or temperature, etc., then PC software would make alarms and records in file.
- 4、 Secondary Energy Saving: Lamps could automatically adjust power and brightness by previous designated time settings for secondary energy saving.

Smart LED Light Remote Wireless Intelligent Management System

II、Main Technical Data

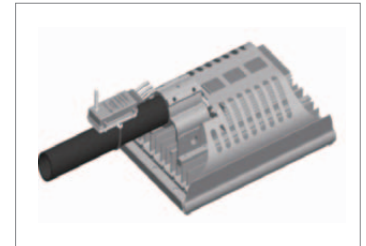
- 1、LED lamp wireless controller covers a range with over 2km diameter;
- 2、Average system response time is 3.13 seconds.
- 3、One LED lamp wireless controller could control 9998 nodes.
- 4、Electricity saving rate is over 20% (Field measurement 24.1%).



Picture 1

III、System Application

- 1、Traffic lighting as expressway, city street, tunnel, etc.
- 2、Stadium lighting as exhibition center, workshop, venue, meeting hall, etc.
- 3、Plaza lighting.



Picture 2

V、Hardware Introduction

- 1、Terminal module (Picture 1)
- 2、Terminal module installation sketch (Picture 2)
- 3、Field controller (Picture 3): all terminals in each field are controlled by field controller. Except for controlling and detection function, the controller can be externally fitted to a brightness collection device to adjust lamp dimming in some field.



Picture 3

VI、PC Software

Background PC controlling software could be functioned with detection, controlling and management by secondary programming (Picture 4).



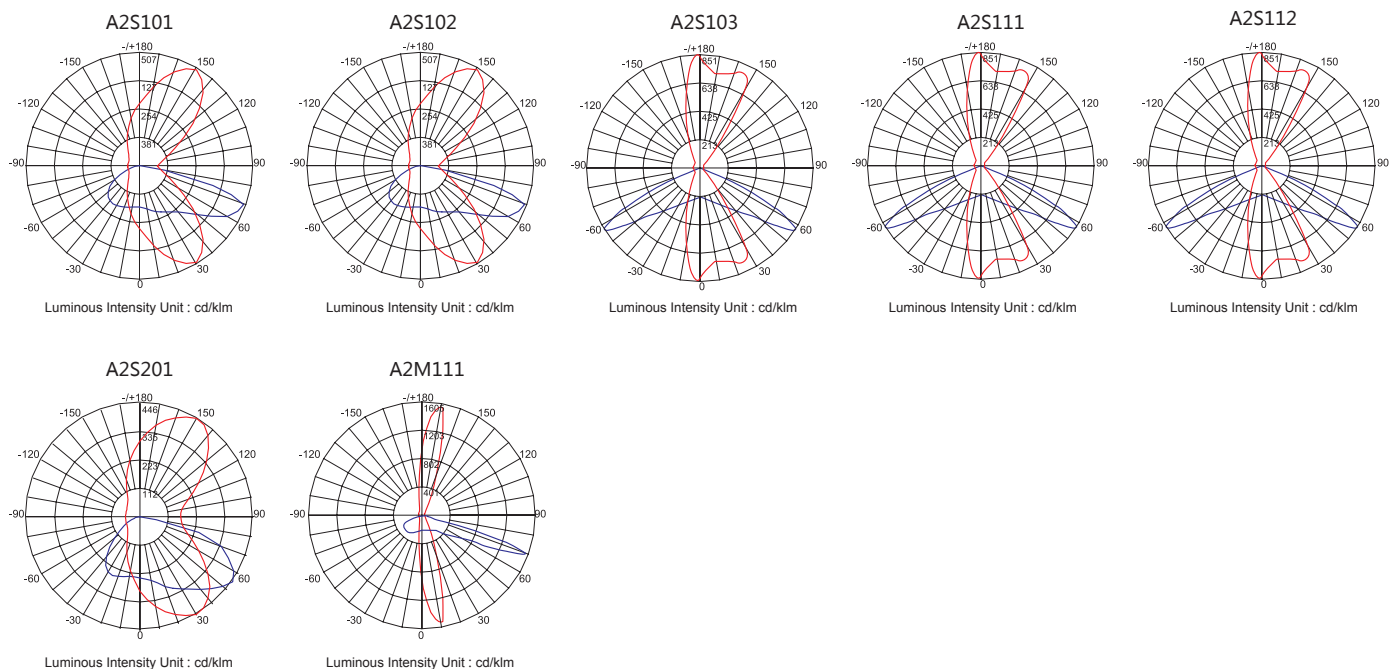
Picture 4

VII、Relative Certifications

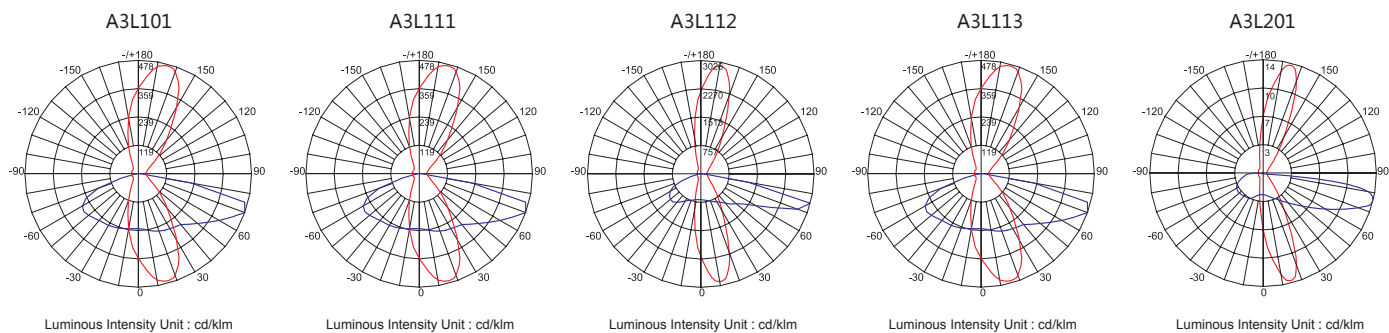


Appendix : Light Distribution Category

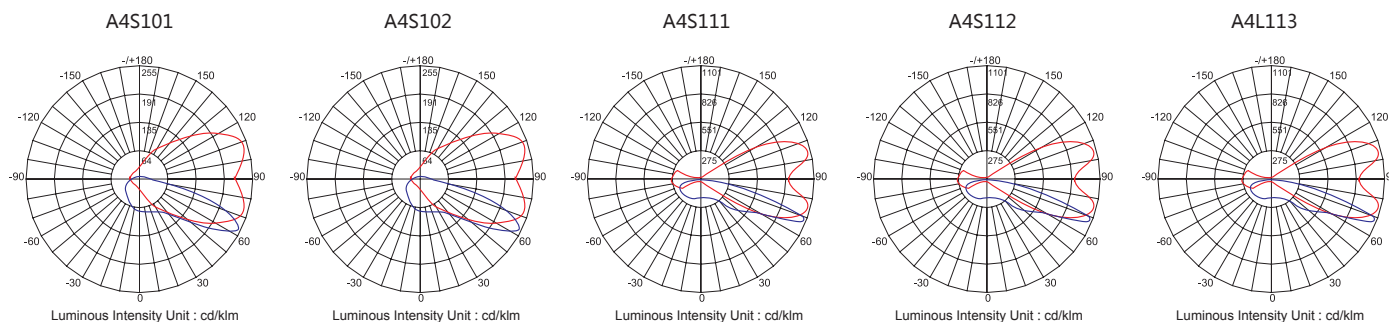
A2



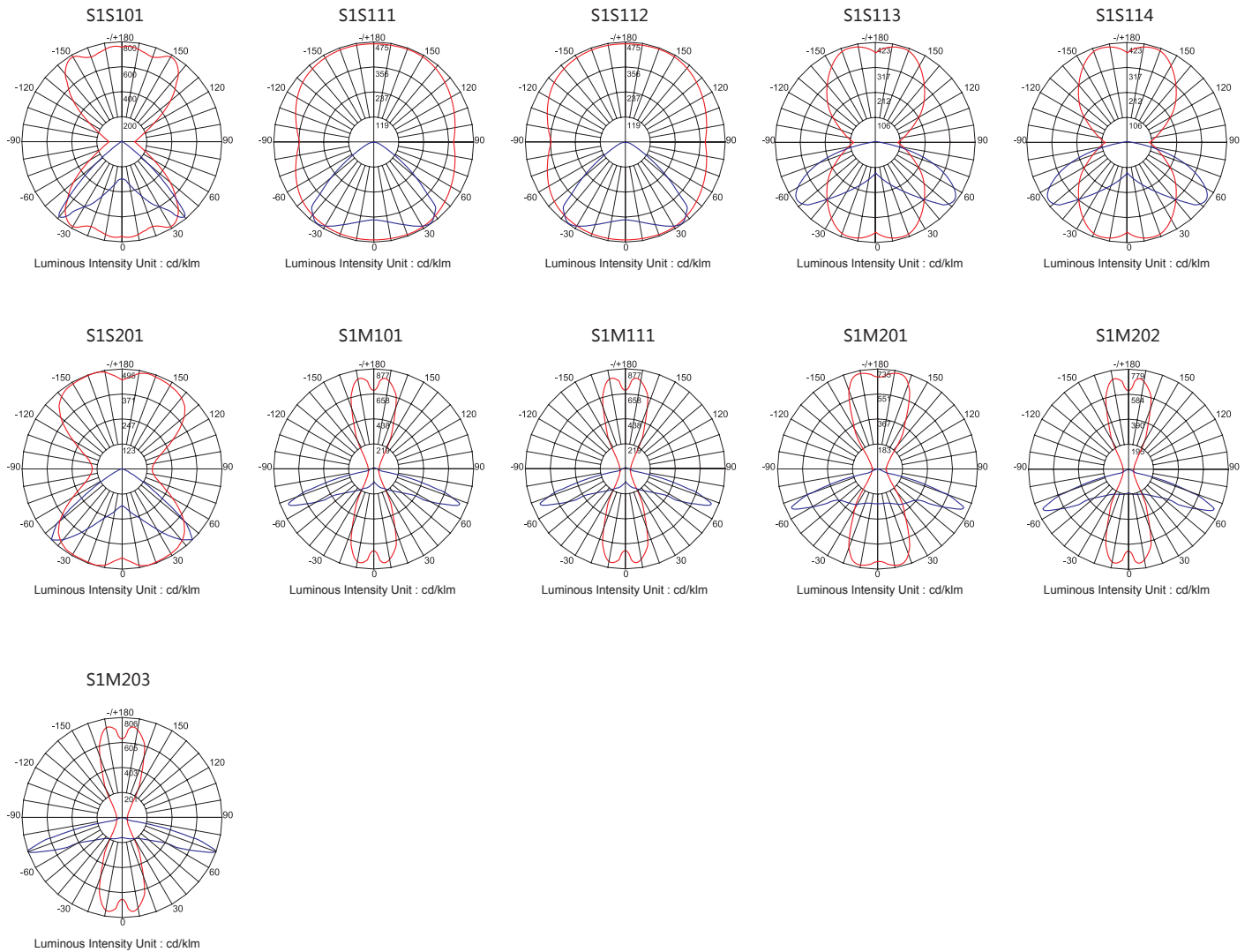
A3



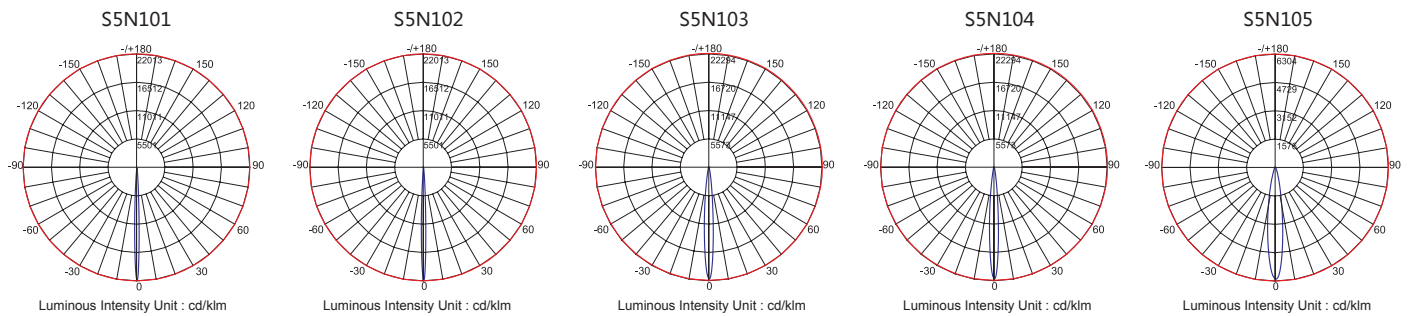
A4



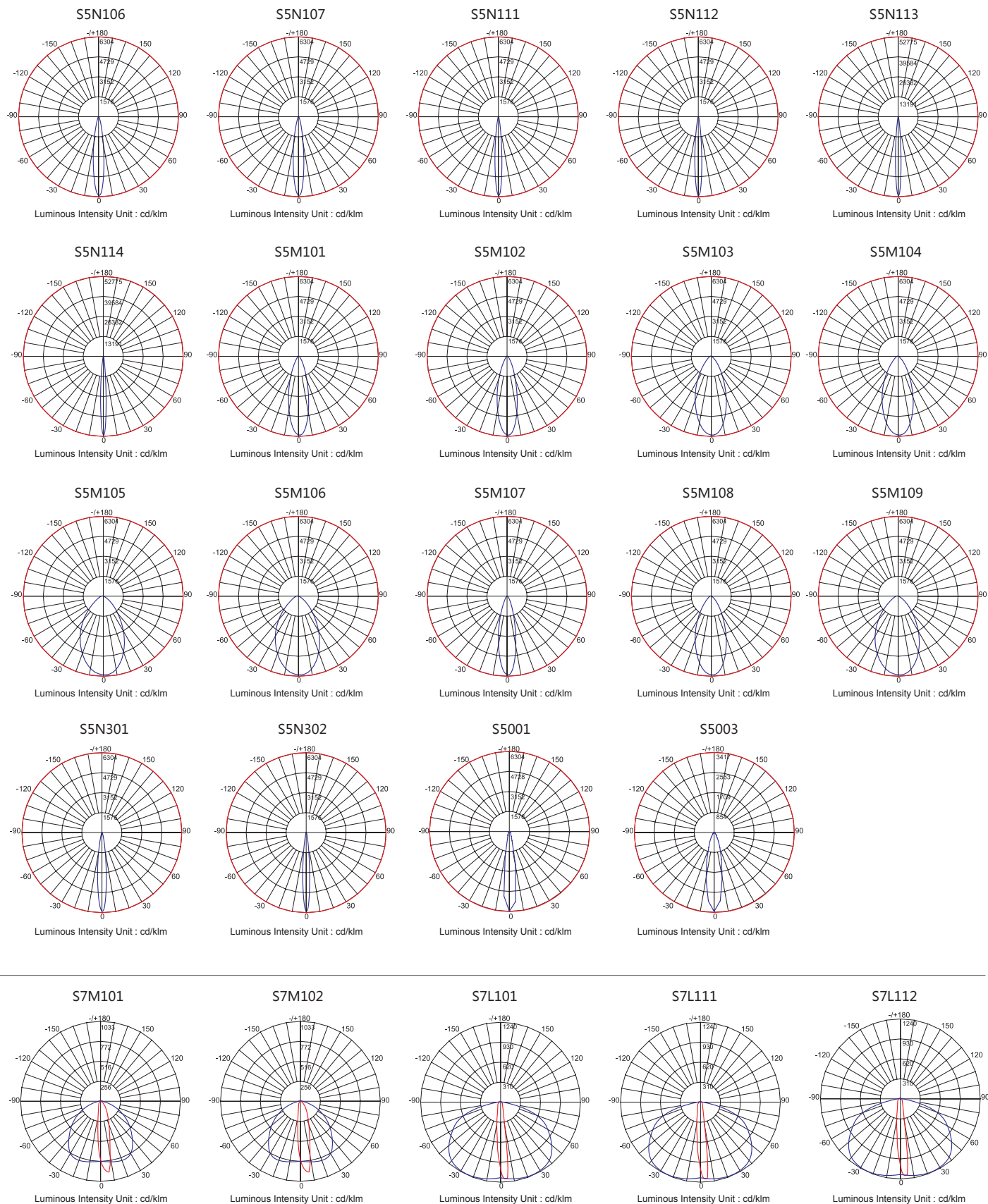
S1



S5



Appendix : Light Distribution Category



S7

Kingsun Branch Contact List

Kingsun Semiconductor Illumination Technology Research Institute

Address: Hengjiangxia Administration Zone, Changping, Dongguan, Guangdong, China 523565

Tel: +86-769-81185816

Fax: +86-769-83395679

Guangdong Kingsun Semiconductor Illumination Technology & Engineering Co.,Ltd.

Address: Hengjiangxia Administration Zone, Changping, Dongguan, Guangdong, China 523565

Tel: +86-769-83395678

Fax: +86-769-83395679

Kingsun Industry (Hongkong) Co.,Ltd.

Tel: (852)-27233183

Fax: (852)-27242209

Address: 806, 8F, Tower A, 39 Hung Hom Commercial Center, Ma Tou Wai Road, Hung Hom, Kowloon, HK

Shenzhen Kingsun Energy Saving Science & Technology Co.,Ltd.

Address: 20C, Tower 2, China Phoenix Building, Shennan Road, Futian District, Shenzhen, China

Tel: +86-755-82942120

Fax: +86-755-82940966

www.kingsun-china.com

Customer Service Hotline: 400 880 0816

KINGSUN OPTOELECTRONIC CO.,LTD

Address: Hengjiangxia Administration Zone,
Changping, Dongguan, Guangdong, China 523565

Tel: +86-769-83395678

Fax: +86-769-83395679

*The product design and specification are subject to change without prior notice.
All rights reserved. Copy prohibited without the permission of Kingsun Optoelectronic co.,ltd.