

**Shenzhen TOCHLighting Technology Co., Ltd.**

Add: 4F,Bldg B,Jingbei Industrial Park,Shihuan Rd,Shiyan Street,  
Bao'an District, Shenzhen China

Tel: 0086-(755)3397 4788

Fax: 0086-(755)3397 4787

Website: [www.tochlight.com](http://www.tochlight.com)



Sales Team



E-Catalog



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# PRODUCT CATALOG 2025



## About Us

Shenzhen Tochlighting Technology Co., Ltd. is a high-tech modern enterprise focusing on providing all-round application solutions for global outdoor lighting customers. Its headquarters and production base are located in Bao'an District, Shenzhen City, Guangdong Province.

As an innovative enterprise that insists on independent research and development of core technologies, the company has strong R&D and design capabilities. From program development and design to large-scale mass production, can quickly realize customer-customized lighting application requirements and create products with patent guarantees and brand added value. High range of products. The company has successively passed the ISO9001 quality management system, ISO14001 environmental management system, and ISO45001 occupational health and safety management system, and established reliability laboratories covering optical testing, material analysis, EMC, and environmental simulation. The main products launched by the company include LED module series, LED street lamp series, LED industrial and high bay lamp series, LED floodlight series, LED stadium lamp series, etc., and its application scenarios cover road lighting, industrial and mining lighting, tunnel lighting, venue lighting and special lighting field. In recent years, based on the existing technology accumulation, the company has actively deployed new fields such as intelligent lighting, healthy lighting, and special lighting, and can provide customers with professional intelligent lighting solutions.

With the development of the business, the customer base covers more than 40 countries and regions around the world. The products have passed the certification requirements of different countries and regions: certification and testing by ETL, ENEC, CE, ROHS, LM-80, LM-79, CQC and other authoritative organizations.

Since the establishment of the company, Tochlighting Technology has always adhered to the orientation of customers and market demand, with the aim of product innovation and quality first, to provide customers with the highest quality products and the most professional technical services, and to provide healthy lighting for all human beings and a green earth. The cause contributes our part.

## Corporate Vision

To provide quality products and services, to become a world-class LED packaging company and lighting solutions provider.



## Our Factory



LED Encapsulation Workshop



Assembly Line



Vibration Equipment



Salt Spray Test Equipment



Cold & Hot Shock Test Chamber



Automatic Aging Line



Rain Test Equipment



Thermostatic & Humidity Test Chamber

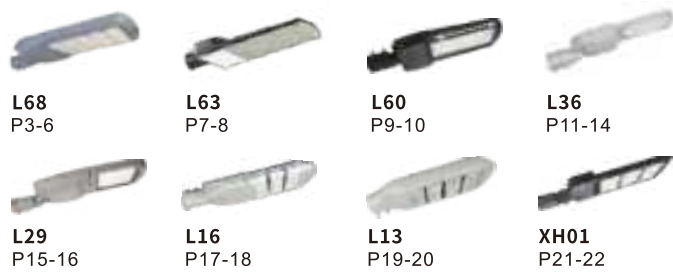


Automated Aging Line



IES Test Darkroom

LED Street Light Series



LED Urban Light Series



LED Flood Light Series



LED Stadium Light Series



UFO High Bay Light Series



LED Module (5050)



LED Module (3030)







## LED Street Light

TOCHLIGHTING has developed and upgraded all different design of LED street light. From traditional glass cover design to newest modular design LED public lighting, We have used latest LED tech & matured fixture design proposal upon LED lamp to achieve high performance of finished product.





## L68 Street Light

L68 LED modular street light are most updated & innovating product.

The louver design improves heating dissipation, also avoiding dust, water to pile up together. Buckle design is better for maintenance in future.



**Easy Open Design**

**Integrated Back Cover**

Buckle Design

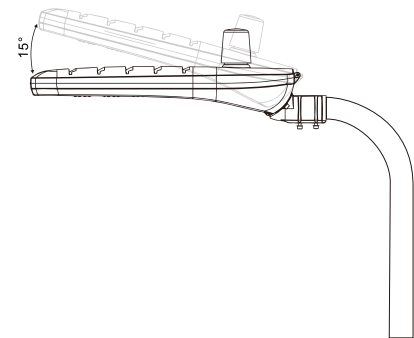


Louver Design

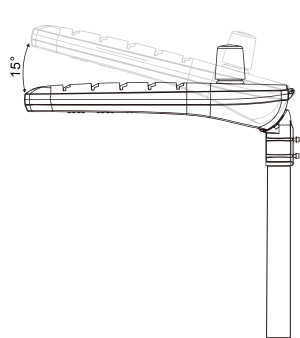


Installation

Horizontal installation



Vertical installation



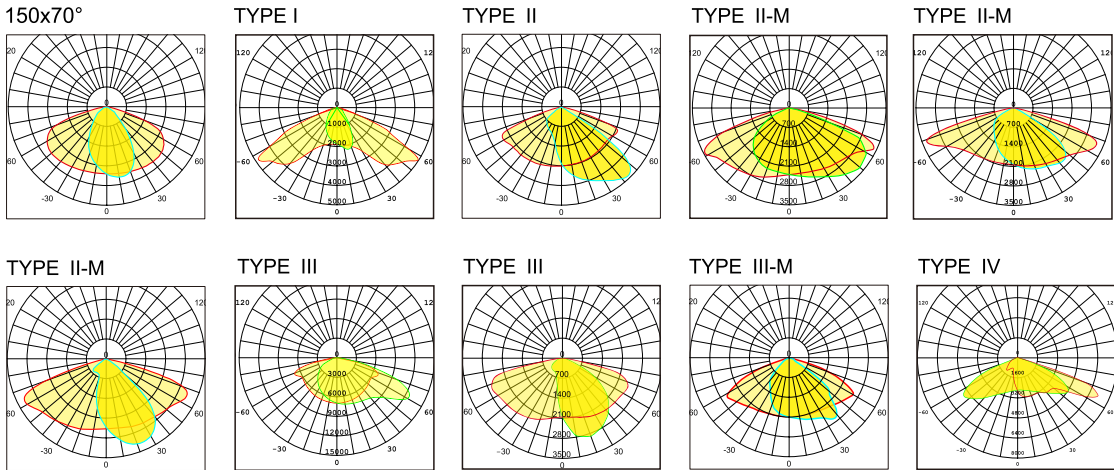
Parameters

| Electric Data   |                             |              |              |              |              |
|-----------------|-----------------------------|--------------|--------------|--------------|--------------|
| Model           | TL-L6801-50                 | TL-L6802-100 | TL-L6803-150 | TL-L6804-200 | TL-L6805-250 |
| Power           | 50W                         | 100W         | 150W         | 200W         | 250W         |
| Power Factor    | >0.95                       |              |              |              |              |
| Power Supply    | MOSO/Sosen/Inventronics     |              |              |              |              |
| Working Voltage | 90-305V/249-528V AC,50/60Hz |              |              |              |              |

| Photometric Specifications |                                    |         |         |         |         |
|----------------------------|------------------------------------|---------|---------|---------|---------|
| LEDs                       | 5050 LED                           |         |         |         |         |
| Ra                         | >70(>80,>90 optional)              |         |         |         |         |
| Luminous Efficiency        | 175±5lm/w                          |         |         |         |         |
| Luminous Flux(±5%)         | 8750lm                             | 17500lm | 26250lm | 35000lm | 43750lm |
| CCT                        | 2200K/2700K3000K/4000K/5000K/6000K |         |         |         |         |

| Mechanical Specifications |                        |             |             |             |             |
|---------------------------|------------------------|-------------|-------------|-------------|-------------|
| IP/IK Rate                | IP66/IK10              |             |             |             |             |
| Working Environment       | -40°C~50°C, 20%~90% RH |             |             |             |             |
| Dimmable                  | 1-10V,DALI,LORA SYSTEM |             |             |             |             |
| N.W.(KG)                  | 5.38                   | 7.2         | 8.1         | 9.1         | 10.1        |
| Lamp Size(mm)             | 437x340x134            | 583x340x134 | 583x340x134 | 769x340x139 | 769x340x139 |

Light Distribution Curve



Certificates





# L63 Street Light

L63 ultra-thin design street lighting, is economic and cost-saving product.

Power ranges from 30W to 200W. This fixture provides a very cost effective solution for most of urban road lighting.

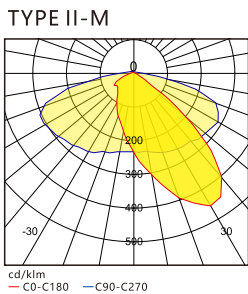
## Parameters

| Electric Data   |                         |             |              |              |              |              |
|-----------------|-------------------------|-------------|--------------|--------------|--------------|--------------|
| Model           | TL-L6301-30             | TL-L6301-60 | TL-L6302-100 | TL-L6302-120 | TL-L6302-150 | TL-L6303-200 |
| Power           | 30W                     | 60W         | 100W         | 120W         | 150W         | 200W         |
| Power Factor    | >0.95                   |             |              |              |              |              |
| Power Supply    | MOSO/Sosen/Inventronics |             |              |              |              |              |
| Working Voltage | AC90-305V 50/60Hz       |             |              |              |              |              |

| Photometric Specifications |                         |        |         |         |         |         |
|----------------------------|-------------------------|--------|---------|---------|---------|---------|
| LEDs                       | 3030 LED                |        |         |         |         |         |
| Ra                         | >70                     |        |         |         |         |         |
| Luminous Efficiency        | 140-160lm/w             |        |         |         |         |         |
| LEDs Qty                   | 96pcs                   | 96pcs  | 184pcs  | 184pcs  | 184pcs  | 288pcs  |
| Luminous Flux(±5%)         | 4500lm                  | 9000lm | 15000lm | 18000lm | 22500lm | 30000lm |
| CCT                        | 3000K/4000K/5000K/6000K |        |         |         |         |         |

| Mechanical Specifications |              |              |              |
|---------------------------|--------------|--------------|--------------|
| IP/IK Rate                | IP66/IK08    |              |              |
| N.W.(KG)                  | 1.73         | 3.10         | 3.68         |
| Light size (mm)           | 445x170x89.5 | 535x230x89.5 | 600x260x89.5 |

## Light Distribution Curve



## Certificates







# L60 Street Light

L60 ultra-thin design street light, is an economic and cost-saving product.

Power ranges from 30W to 180W. This fixture provides a very cost effective solution for most of urban road lighting.

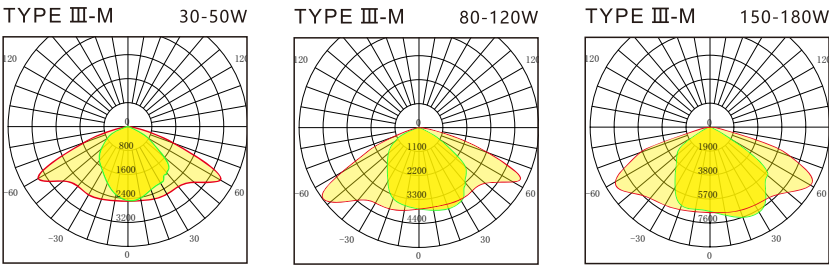
## Parameters

| Electric Data   |                         |            |            |             |             |             |
|-----------------|-------------------------|------------|------------|-------------|-------------|-------------|
| Model           | TL-L601-30              | TL-L601-50 | TL-L602-80 | TL-L602-120 | TL-L603-150 | TL-L603-180 |
| Power           | 30W                     | 50W        | 80W        | 120W        | 150W        | 180W        |
| Power Factor    | >0.95                   |            |            |             |             |             |
| Power Supply    | MOSO/Sosen/Inventronics |            |            |             |             |             |
| Working Voltage | AC90-305V 50/60Hz       |            |            |             |             |             |

| Photometric Specifications |                         |        |         |         |         |         |
|----------------------------|-------------------------|--------|---------|---------|---------|---------|
| LEDs                       | 3030 LED                |        |         |         |         |         |
| Ra                         | >70(>80,>90 optional)   |        |         |         |         |         |
| Luminous Efficiency        | 130-150lm/w             |        |         |         |         |         |
| LEDs Qty                   | 36pcs                   | 56pcs  | 80pcs   | 128pcs  | 176pcs  | 216pcs  |
| Luminous Flux(±5%)         | 4200lm                  | 7000lm | 11200lm | 16800lm | 21000lm | 25200lm |
| CCT                        | 3000K/4000K/5000K/6000K |        |         |         |         |         |

| Mechanical Specifications |                        |            |            |
|---------------------------|------------------------|------------|------------|
| IP/IK Rate                | IP66/IK10              |            |            |
| Working Environment       | -40°C~50°C, 20%~90% RH |            |            |
| Dimmable                  | 1-10V, DALI            |            |            |
| N.W.(KG)                  | 1.73                   | 3.10       | 3.68       |
| Lamp Size(mm)             | 424x160x84             | 535x247x96 | 616x247x96 |

## Light Distribution Curve



## Certificates





## L36 Street Light

L36 ultra-thin design street light, is an economic and cost-saving product.

Power ranges from 30W to 350W. This luminaire provides a very cost effective solution for most of urban road lighting.

## Main Features

- High pressure die-cast aluminium alloy housing .
- Substantial friction resistant powder spraying process surface treatment.
- Adopt multi-chips package 5050 LEDs. Stable performance,



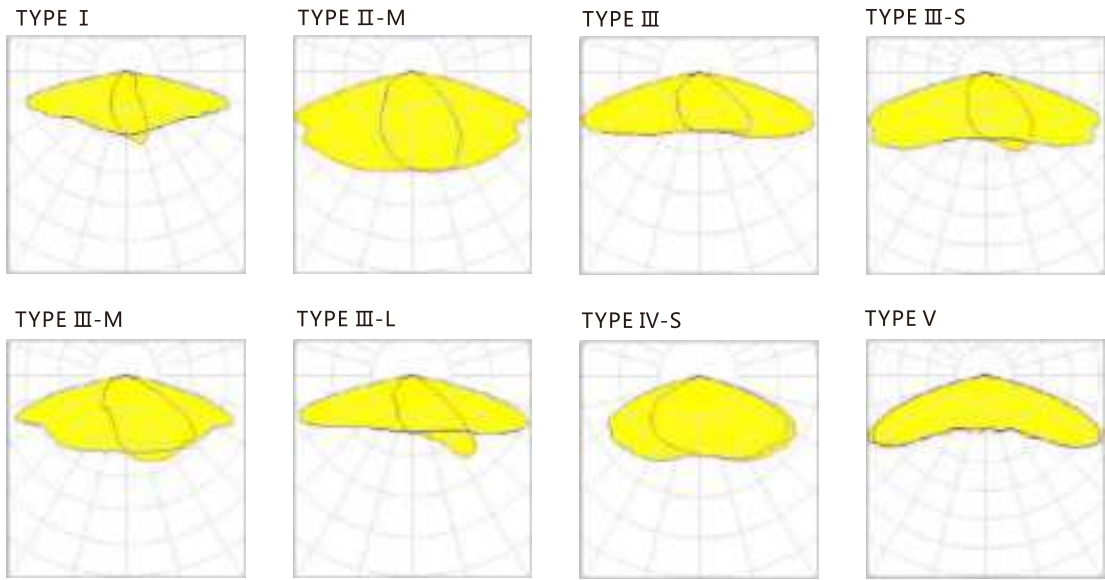
Parameters

| Electric Data   |                         |           |           |            |            |            |            |            |            |            |
|-----------------|-------------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| Model           | TL-L36-30               | TL-L36-60 | TL-L36-80 | TL-L36-100 | TL-L36-120 | TL-L36-150 | TL-L36-200 | TL-L36-250 | TL-L36-300 | TL-L36-350 |
| Power           | 30W                     | 60W       | 80W       | 100W       | 120W       | 150W       | 200W       | 250W       | 300W       | 350W       |
| Power Factor    | >0.95                   |           |           |            |            |            |            |            |            |            |
| Power Supply    | MOSO/Sosen/Inventronics |           |           |            |            |            |            |            |            |            |
| Working Voltage | AC90-305V 50/60Hz       |           |           |            |            |            |            |            |            |            |

| Photometric Specifications |                         |        |         |         |         |         |         |         |         |         |
|----------------------------|-------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| LEDs                       | 5050 LED                |        |         |         |         |         |         |         |         |         |
| Ra                         | >70(>80,>90 optional)   |        |         |         |         |         |         |         |         |         |
| Luminous Efficiency        | 150-170lm/w             |        |         |         |         |         |         |         |         |         |
| LEDs Qty                   | 24pcs                   | 36pcs  | 48pcs   | 54pcs   | 72pcs   | 72pcs   | 120pcs  | 144pcs  | 192pcs  | 192pcs  |
| Luminous Flux(±5%)         | 4800lm                  | 9600lm | 12800lm | 16000lm | 19200lm | 24000lm | 32000lm | 38750lm | 48000lm | 52500lm |
| CCT                        | 3000K/4000K/5000K/6000K |        |         |         |         |         |         |         |         |         |

| Mechanical Specifications |                       |     |             |     |     |     |             |     |     |     |
|---------------------------|-----------------------|-----|-------------|-----|-----|-----|-------------|-----|-----|-----|
| IP/IK Rate                | IP66/IK10             |     |             |     |     |     |             |     |     |     |
| Working Environment       | -40°C~50°C,20%~90% RH |     |             |     |     |     |             |     |     |     |
| Dimmable                  | 1-10V,DALI            |     |             |     |     |     |             |     |     |     |
| N.W.(KG)                  | 3.5                   | 3.7 | 5.4         | 5.5 | 5.8 | 5.8 | 7.1         | 7.1 | 9.5 | 9.7 |
| Lamp Size(mm)             | 565x180x128           |     | 670x240x128 |     |     |     | 790x300x128 |     |     |     |

Light Distribution Curve

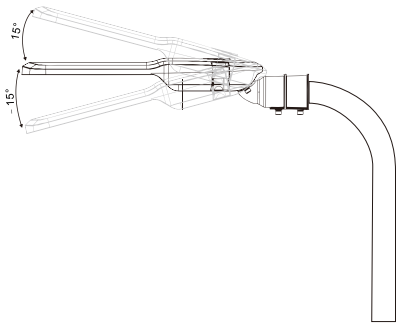


Certificates

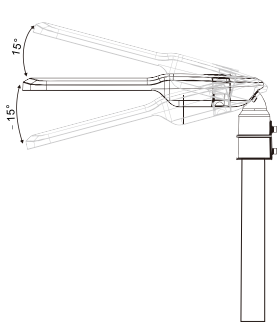


Installation

Horizontal installation



Vertical installation







## L29 Street Light

L29 LED Street Light is a smart design for traditional market. Power range covered from 30W-200W.

With tempered glass and high efficiency 5050 LEDs. Modular lens design provide various beam angle.

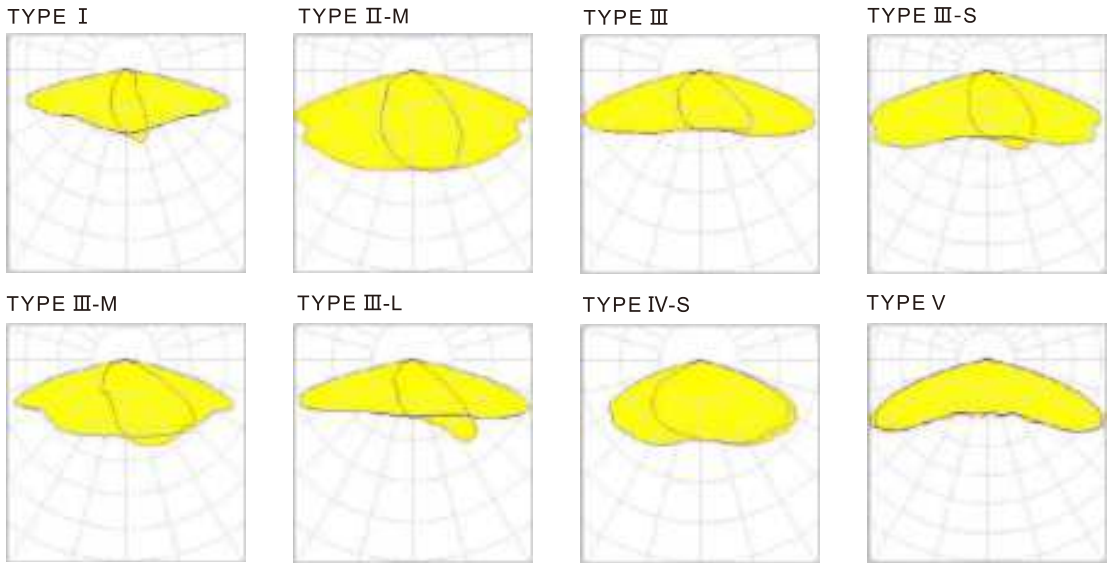
## Parameters

| Electric Data   |                         |           |           |           |           |            |            |            |            |            |
|-----------------|-------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|
| Model           | TL-L29-30               | TL-L29-50 | TL-L29-60 | TL-L29-80 | TL-L29-90 | TL-L29-100 | TL-L29-120 | TL-L29-150 | TL-L29-180 | TL-L29-200 |
| Power           | 30W                     | 50W       | 60W       | 80W       | 90W       | 100W       | 120W       | 150W       | 180W       | 200W       |
| Power Factor    | >0.95                   |           |           |           |           |            |            |            |            |            |
| Power Supply    | MOSO/Sosen/Inventronics |           |           |           |           |            |            |            |            |            |
| Working Voltage | AC90-305V 50/60Hz       |           |           |           |           |            |            |            |            |            |

| Photometric Specifications |                         |        |        |         |         |         |         |         |         |         |
|----------------------------|-------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| LEDs                       | 5050 LED                |        |        |         |         |         |         |         |         |         |
| Ra                         | >70(>80,>90 optional)   |        |        |         |         |         |         |         |         |         |
| Luminous Efficiency        | 150-160lm/w             |        |        |         |         |         |         |         |         |         |
| LEDs Qty                   | 24pcs                   | 36pcs  | 36pcs  | 48pcs   | 72pcs   | 72pcs   | 72pcs   | 90pcs   | 120pcs  | 120pcs  |
| Luminous Flux(±5%)         | 4500lm                  | 7500lm | 9000lm | 12000lm | 14400lm | 16000lm | 19200lm | 24000lm | 28800lm | 32000lm |
| CCT                        | 3000K/4000K/5000K/6000K |        |        |         |         |         |         |         |         |         |

| Mechanical Specifications |                       |  |  |             |  |  |  |             |  |  |
|---------------------------|-----------------------|--|--|-------------|--|--|--|-------------|--|--|
| IP/IK Rate                | IP66/IK09             |  |  |             |  |  |  |             |  |  |
| Working Environment       | -40°C~50°C,20%~90% RH |  |  |             |  |  |  |             |  |  |
| Dimmable                  | 1-10V,DALI            |  |  |             |  |  |  |             |  |  |
| N.W.(KG)                  | 4.6                   |  |  | 6.2         |  |  |  | 8.9         |  |  |
| Lamp Size(mm)             | 606×231×122           |  |  | 699×279×122 |  |  |  | 814×346×128 |  |  |

## Light Distribution Curve



## Certificates



## L16 Street Light

175LM/W Professional Roadway Light

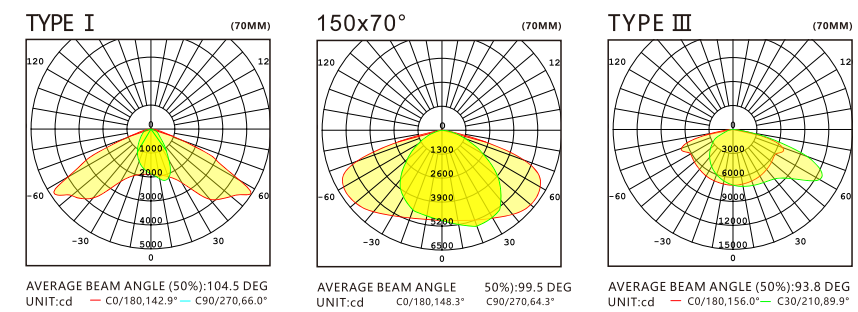
## Parameters

| Electric Data   |                             |              |              |              |              |
|-----------------|-----------------------------|--------------|--------------|--------------|--------------|
| Model           | TL-L1601-50                 | TL-L1602-100 | TL-L1603-150 | TL-L1604-200 | TL-L1605-250 |
| Power           | 50W                         | 100W         | 150W         | 200W         | 250W         |
| Power Factor    | >0.95                       |              |              |              |              |
| Power Supply    | MOSO/Sosen/Inventronics     |              |              |              |              |
| Working Voltage | 90-305V/249-528V AC,50/60Hz |              |              |              |              |

| Photometric Specifications |                         |         |         |         |         |
|----------------------------|-------------------------|---------|---------|---------|---------|
| LEDs                       | 5050 LED                |         |         |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |         |         |
| Luminous Efficiency        | 175±5lm/w               |         |         |         |         |
| LEDs Qty                   | 28pcs                   | 56pcs   | 84pcs   | 112pcs  | 140pcs  |
| Luminous Flux(±5%)         | 8750lm                  | 17500lm | 26250lm | 35000lm | 43750lm |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |         |         |

| Mechanical Specifications |                       |             |             |             |             |
|---------------------------|-----------------------|-------------|-------------|-------------|-------------|
| IP/IK Rate                | IP66/IK10             |             |             |             |             |
| Working Environment       | -40°C~50°C,20%~90% RH |             |             |             |             |
| Dimmable                  | 1-10V,DALI            |             |             |             |             |
| N.W.(KG)                  | 4.8                   | 5.7         | 6.6         | 7.5         | 8.4         |
| Lamp Size(mm)             | 539x328x100           | 611x328x100 | 692x328x100 | 773x328x100 | 854x328x100 |

## Light Distribution Curve



## Certificates



# L13 Street Light



## Application



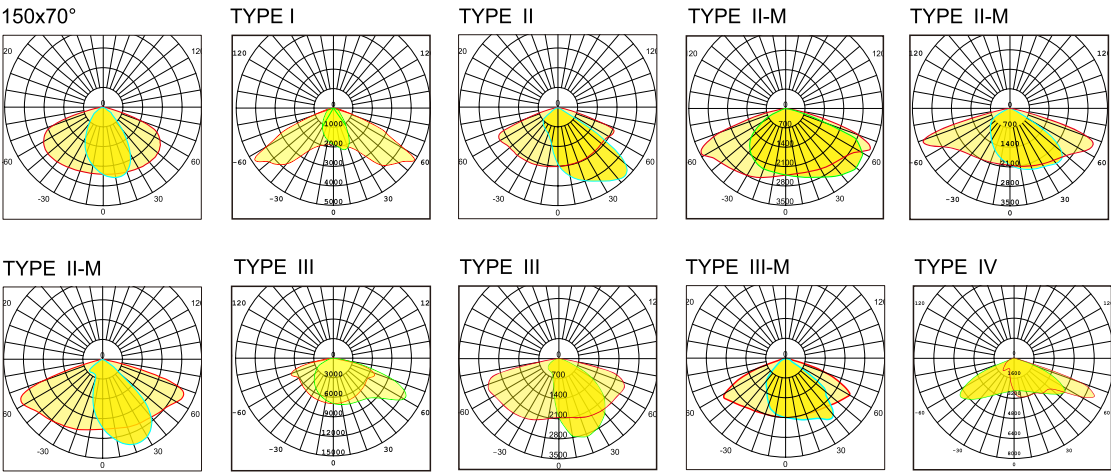
# Parameters

| Electric Data   |                             |              |              |              |              |
|-----------------|-----------------------------|--------------|--------------|--------------|--------------|
| Model           | TL-L1301-50                 | TL-L1302-100 | TL-L1303-150 | TL-L1304-200 | TL-L1305-250 |
| Power           | 50W                         | 100W         | 150W         | 200W         | 250W         |
| Power Factor    | >0.95                       |              |              |              |              |
| Power Supply    | MOSO/Sosen/Inventronics     |              |              |              |              |
| Working Voltage | 90-305V/249-528V AC,50/60Hz |              |              |              |              |

| Photometric Specifications |                         |         |         |         |         |
|----------------------------|-------------------------|---------|---------|---------|---------|
| LEDs                       | 5050 LED                |         |         |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |         |         |
| Luminous Efficiency        | 175±5lm/w               |         |         |         |         |
| LEDs Qty                   | 28pcs                   | 56pcs   | 84pcs   | 112pcs  | 140pcs  |
| Luminous Flux(±5%)         | 8750lm                  | 17500lm | 26250lm | 35000lm | 43750lm |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |         |         |

| Mechanical Specifications |                       |            |            |            |            |
|---------------------------|-----------------------|------------|------------|------------|------------|
| IP/IK Rate                | IP66/IK10             |            |            |            |            |
| Working Environment       | -40°C~50°C,20%~90% RH |            |            |            |            |
| Dimmable                  | 1-10V,DALI            |            |            |            |            |
| N.W.(KG)                  | 3.2                   | 8.8        | 9.6        | 11.6       | 13.2       |
| Lamp Size(mm)             | 405x336x98            | 571x336x98 | 571x336x98 | 738x336x98 | 738x336x98 |

# Light Distribution Curve





Type A

## LED Shoebox Light

High way, urban roads and secondary roads, sidewalk, residential area, industry sites, square area, parking lot, logistics park and other street lighting applications.



Type B

Type C

Type D

Type E

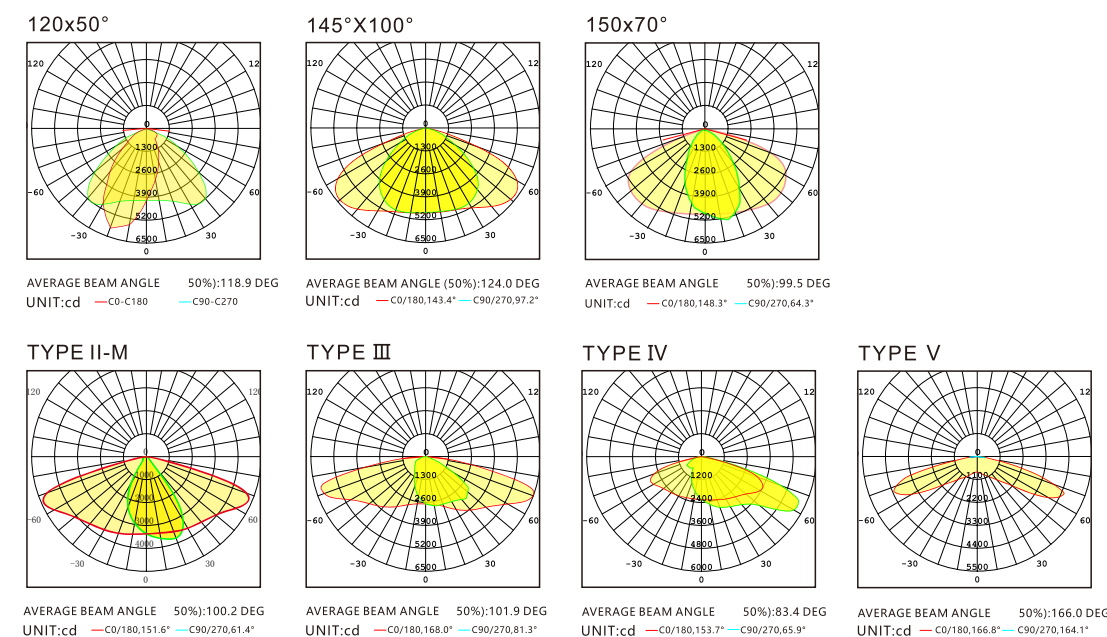
## Parameters

| Electric Data   |                             |             |              |               |               |               |               |               |
|-----------------|-----------------------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|
| Model           | TL-XH01S-30                 | TL-XH01S-50 | TL-XH0101-70 | TL-XH0101-100 | TL-XH0102-150 | TL-XH0102-200 | TL-XH0103-240 | TL-XH0103-300 |
| Power           | 30W                         | 50W         | 70W          | 100W          | 150W          | 200W          | 240W          | 300W          |
| Power Factor    | >0.95                       |             |              |               |               |               |               |               |
| Power Supply    | MOSO/Sosen/Inventronics     |             |              |               |               |               |               |               |
| Working Voltage | 90-305V/249-528V AC,50/60Hz |             |              |               |               |               |               |               |

| Photometric Specifications                 |                         |             |             |                                                       |             |             |             |             |
|--------------------------------------------|-------------------------|-------------|-------------|-------------------------------------------------------|-------------|-------------|-------------|-------------|
| LEDs                                       | 5050 LED                |             |             |                                                       |             |             |             |             |
| Ra                                         | >70(>80,>90 optional)   |             |             |                                                       |             |             |             |             |
| LEDs Qty                                   | 28pcs                   | 28pcs       | 42pcs       | 42pcs                                                 | 84pcs       | 84pcs       | 126pcs      | 126pcs      |
| Beam angle                                 | 150x70° (30W,50W)       |             |             | Type II-M,III,IV,V,120x50°,145x100°,150x70° (70-300W) |             |             |             |             |
| Efficiency<br>(145x100°,150x70°)           | 165-175lm/w             | 155-165lm/w | 165-175lm/w | 155-165lm/w                                           | 165-175lm/w | 155-165lm/w | 165-175lm/w | 155-165lm/w |
| Efficiency<br>(Type II-M,III,IV,V,120x50°) | 160-170lm/w             | 150-160lm/w | 165-175lm/w | 145-155lm/w                                           | 155-165lm/w | 145-155lm/w | 155-165lm/w | 145-155lm/w |
| CCT                                        | 3000K/4000K/5000K/6000K |             |             |                                                       |             |             |             |             |

| Mechanical Specifications |                       |            |            |            |            |            |            |            |
|---------------------------|-----------------------|------------|------------|------------|------------|------------|------------|------------|
| IP/IK Rate                | IP66/IK10             |            |            |            |            |            |            |            |
| Working Environment       | -40°C~50°C,20%~90% RH |            |            |            |            |            |            |            |
| N.W.(KG)                  | 2.4                   | 2.5        | 4.6        | 5.5        | 5.6        | 6.5        | 6.5        | 6.5        |
| Lamp Size(mm)             | 481x312x93            | 481x312x93 | 524x312x93 | 651x312x93 | 651x312x93 | 778x312x93 | 778x312x93 | 778x312x93 |

## Light Distribution Curve







# GL02 LED Urban Light

- Available from 20W-80W
- Excellent heat radiation,optical and electrical ability.
- Die-cast aluminum body with pure polyester Electrostatic spray.
- With 5mm super white toughened glass
- Humanized design concept,easy to install andmaintain.
- IP66 rated engine compartment sealed with temperedglass.
- Ergonomicand dedicated lighting distributions area available for various road way applications.



A



B



C



D

## Parameters

| Electric Data   |                                     |     |     |     |     |     |     |
|-----------------|-------------------------------------|-----|-----|-----|-----|-----|-----|
| Model           | TL-GL02-Power- <b>X-CCC-DDD-Z-M</b> |     |     |     |     |     |     |
| Power           | 20W                                 | 30W | 40W | 50W | 60W | 70W | 80W |
| Power Factor    | >0.95                               |     |     |     |     |     |     |
| Power Supply    | MOSO/Sosen/Inventronics             |     |     |     |     |     |     |
| Working Voltage | AC90-305V 50/60Hz                   |     |     |     |     |     |     |

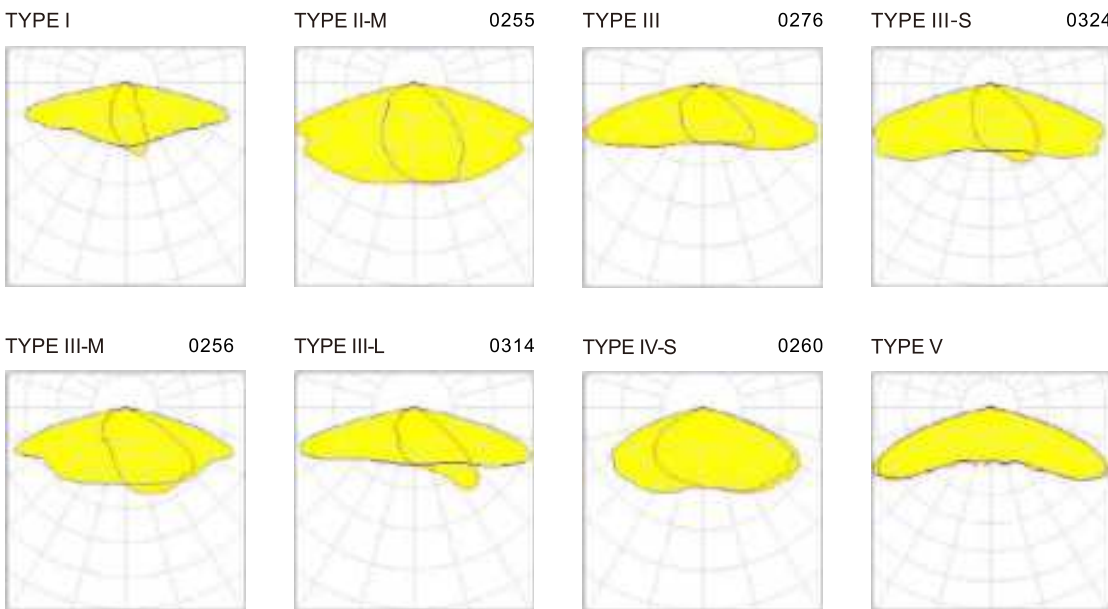
| Photometric Specifications |                         |          |          |          |          |         |         |
|----------------------------|-------------------------|----------|----------|----------|----------|---------|---------|
| LEDs                       | 5050 LED                |          |          |          |          |         |         |
| Ra                         | >70(>80,>90 optional)   |          |          |          |          |         |         |
| Luminous Efficiency        | 140~160lm/w             |          |          |          |          |         |         |
| LEDs Qty                   | 24-36pcs                | 24-36pcs | 24-36pcs | 24-36pcs | 24-36pcs | 48pcs   | 48pcs   |
| Luminous Flux(±5%)         | 3000lm                  | 4500lm   | 6000lm   | 7500lm   | 9000lm   | 10500lm | 12000lm |
| CCT                        | 3000K/4000K/5000K/6000K |          |          |          |          |         |         |

| Mechanical Specifications |                       |
|---------------------------|-----------------------|
| IP/IK Rate                | IP66/IK10             |
| Working Environment       | -40°C~50°C,20%~90% RH |
| Dimmable                  | DALI/1-10V/PWM/Timer  |

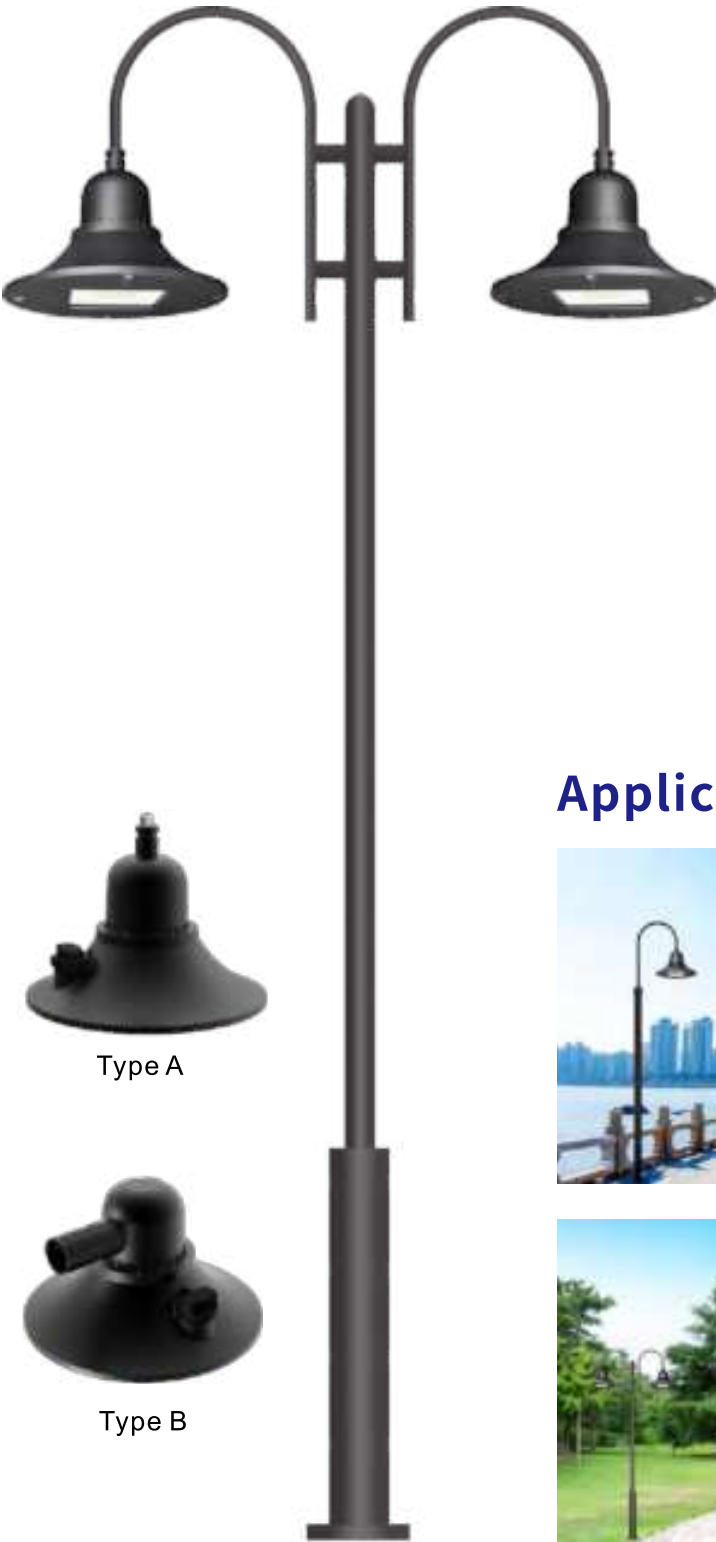
### TL-GL02-Power-**X-CCC-DDD-Z-M**

- X** Installation Mode ("A", "B", "C", "D")
- CCC** Color Temperature: 30K is for 3000K, 40K is for 4000K
- DDD** Driver (SPA for Sosen PA, IBT2 for EBS BT2)
- Z** Nema (N) - Zhaga (Z) - Nothing (0)
- M** Short Circuit Cap ("0" means without, "1" means with) ONLY FOR NEMA

## Light Distribution Curve



# GL03 LED Urban Light



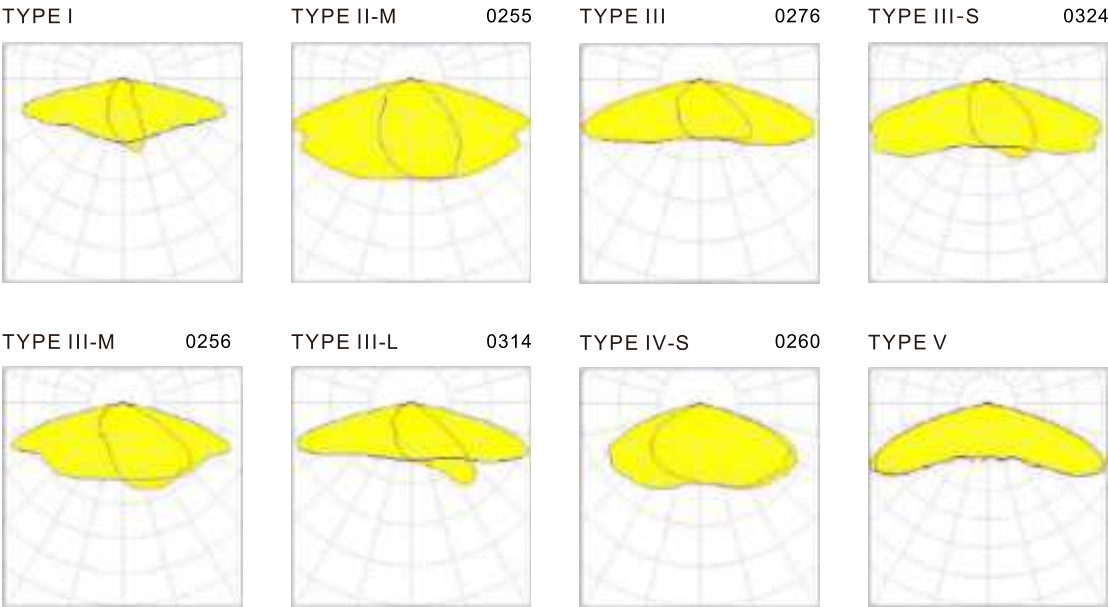
## Application



## Parameters

| Electric Data              |                               |            |            |            |            |            |            |            |             |
|----------------------------|-------------------------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Model                      | TL-GL03-20                    | TL-GL03-30 | TL-GL03-40 | TL-GL03-50 | TL-GL03-60 | TL-GL03-70 | TL-GL03-80 | TL-GL03-90 | TL-GL03-100 |
| Power                      | 20W                           | 30W        | 40W        | 50W        | 60W        | 70W        | 80W        | 90W        | 100W        |
| Power Factor               | >0.95                         |            |            |            |            |            |            |            |             |
| Power Supply               | MOSO/Sosen/Inventronics       |            |            |            |            |            |            |            |             |
| Working Voltage            | AC90-305V 50/60Hz             |            |            |            |            |            |            |            |             |
|                            |                               |            |            |            |            |            |            |            |             |
| Photometric Specifications |                               |            |            |            |            |            |            |            |             |
| LEDs                       | 5050 LED                      |            |            |            |            |            |            |            |             |
| Ra                         | >70(>80,>90 optional)         |            |            |            |            |            |            |            |             |
| Luminous Efficiency        | 150±10lm/w                    |            |            |            |            |            |            |            |             |
| LEDs Qty                   | 24pcs                         | 24pcs      | 24pcs      | 36pcs      | 36pcs      | 54pcs      | 54pcs      | 54pcs      | 54pcs       |
| Luminous Flux(±5%)         | 3000lm                        | 4500lm     | 6000lm     | 7500lm     | 9000lm     | 10500lm    | 12000lm    | 13500lm    | 15000lm     |
| CCT                        | 3000K/4000K/5000K/6000K       |            |            |            |            |            |            |            |             |
|                            |                               |            |            |            |            |            |            |            |             |
| Mechanical Specifications  |                               |            |            |            |            |            |            |            |             |
| IP/IK Rate                 | IP66/IK09                     |            |            |            |            |            |            |            |             |
| Working Environment        | -40℃~50℃,20%~90% RH           |            |            |            |            |            |            |            |             |
| Lens Material              | PC lens+Temperaed glass cover |            |            |            |            |            |            |            |             |
| N.W.(KG)                   | 7.8                           | 7.8        | 7.8        | 7.8        | 7.8        | 7.8        | 8.0        | 8.0        | 8.0         |
| Lamp Size(mm)              | 500x500x385                   |            |            |            |            |            |            |            |             |

## Light Distribution Curve





# LED Flood Light

LED modular flood light,widely used for outdoor soccer fields,tennis court and basket court,ranging from 50W to 500W.



# V5 LED Flood Light

V5 series is the most cost-effective product among all LEPOWER's industrial lights.

High efficiency based on advanced LED technology, Luminous output over 40% higher than other competitor's products.



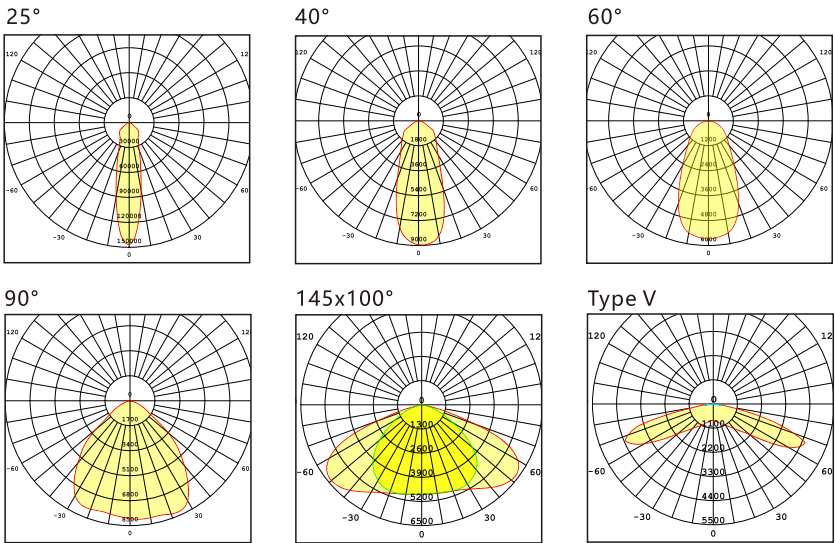
## Parameters

| Electric Data   |                         |           |           |           |           |           |           |           |
|-----------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Model           | TL-HB0501               | TL-HB0502 | TL-HB0503 | TL-HB0504 | TL-HB0505 | TL-HB0506 | TL-HB0508 | TL-HB0510 |
| Power           | 50W                     | 100W      | 150W      | 200W      | 250W      | 300W      | 400W      | 500W      |
| Power Factor    | >0.95                   |           |           |           |           |           |           |           |
| Power Supply    | MOSO/Sosen/Inventronics |           |           |           |           |           |           |           |
| Working Voltage | AC90-305V,50/60Hz       |           |           |           |           |           |           |           |

| Photometric Specifications |                         |         |         |         |         |         |         |         |
|----------------------------|-------------------------|---------|---------|---------|---------|---------|---------|---------|
| LEDs                       | 5050 LED                |         |         |         |         |         |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |         |         |         |         |         |
| Luminous Efficiency        | 175±5lm/w               |         |         |         |         |         |         |         |
| LEDs Qty                   | 28pcs                   | 56pcs   | 84pcs   | 112pcs  | 140pcs  | 168pcs  | 224pcs  | 280pcs  |
| Luminous Flux(±5%)         | 9000lm                  | 18000lm | 27000lm | 36000lm | 45000lm | 54000lm | 72000lm | 90000lm |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |         |         |         |         |         |

| Mechanical Specifications |                        |             |             |             |                 |             |             |             |  |
|---------------------------|------------------------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|--|
| IP/IK Rate                | IP66/IK10              |             |             |             |                 |             |             |             |  |
| Inclination Angle         | 180°(50W-150W)         |             |             |             | 150°(200W-500W) |             |             |             |  |
| Lens Material             | PC                     |             |             |             |                 |             |             |             |  |
| Dimmable                  | 1-10V,DALI,PWM         |             |             |             |                 |             |             |             |  |
| N.W.(KG)                  | 2.1                    | 3.3         | 4.0         | 5.2         | 6.1             | 7.7         | 10.2        | 12.4        |  |
| Lamp size (mm)            | 305x88x222             | 305x176x222 | 305x264x222 | 305x352x222 | 305x440x222     | 610x264x222 | 610x352x222 | 610x440x222 |  |
| Working Environment       | -40°C~50°C, 20%~90% RH |             |             |             |                 |             |             |             |  |
| Storage Temperature       | -45°C~55°C, 10%~90% RH |             |             |             |                 |             |             |             |  |

## Light Distribution Curve





# V5B LED Flood Light

V5B series flood light is an economic and competitive product. It provides cost-saving and super higher lumen,longer lifespan, lower price than other companies product.

Meanwhile,optional beam angle for different case requirements, impressived heat sink design,up to 600W with 84000lm ensure V5B to offer good performance always.



Standard



Add Frame



Add Frame&Back Cover

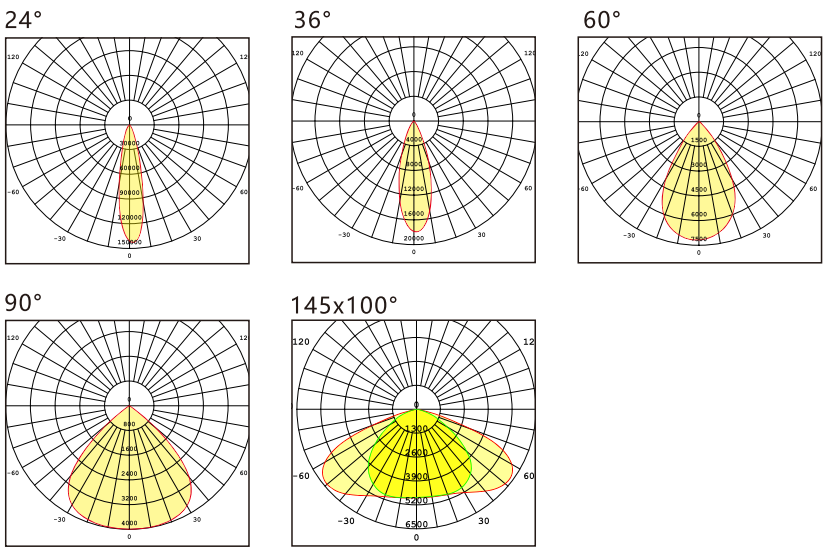
# Parameters

| Electric Data   |                         |              |              |              |              |              |              |              |              |
|-----------------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Model           | TL-V5B01-50             | TL-V5B02-100 | TL-V5B03-150 | TL-V5B04-200 | TL-V5B05-250 | TL-V5B06-300 | TL-V5B08-400 | TL-V5B10-500 | TL-V5B12-600 |
| Power           | 50W                     | 100W         | 150W         | 200W         | 250W         | 300W         | 400W         | 500W         | 600W         |
| Power Factor    | >0.95                   |              |              |              |              |              |              |              |              |
| Power Supply    | MOSO/Sosen/Inventronics |              |              |              |              |              |              |              |              |
| Working Voltage | AC90-305V,50/60Hz       |              |              |              |              |              |              |              |              |

| Photometric Specifications |                         |         |         |         |         |         |         |         |         |
|----------------------------|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| LEDs                       | 5050 LED                |         |         |         |         |         |         |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |         |         |         |         |         |         |
| Luminous Efficiency        | 140±5lm/w               |         |         |         |         |         |         |         |         |
| LEDs Qty                   | 64pcs                   | 128pcs  | 192pcs  | 256pcs  | 320pcs  | 384pcs  | 512pcs  | 640pcs  | 768pcs  |
| Luminous Flux(±5%)         | 7000lm                  | 14000lm | 21000lm | 28000lm | 35000lm | 42000lm | 56000lm | 70000lm | 84000lm |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |         |         |         |         |         |         |

| Mechanical Specifications |                |             |             |             |                |             |             |             |             |
|---------------------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|-------------|-------------|
| IP/IK Rate                | IP66/IK10      |             |             |             |                |             |             |             |             |
| Lifespan                  | >50,000 Hours  |             |             |             |                |             |             |             |             |
| Inclination Angle         | ±180°(50/100W) |             |             |             | ±60°(150-600W) |             |             |             |             |
| Lens Material             | PC             |             |             |             |                |             |             |             |             |
| N.W.(KG)                  | 3.2            | 4.3         | 5.2         | 6.8         | 8.0            | 9.2         | 13.0        | 15.2        | 17.6        |
| Lamp size (mm)            | 335x91x193     | 335x170x193 | 335x247x193 | 335x325x193 | 403x335x193    | 481x335x193 | 642x335x193 | 642x403x193 | 642x481x193 |

# Light Distribution Curve





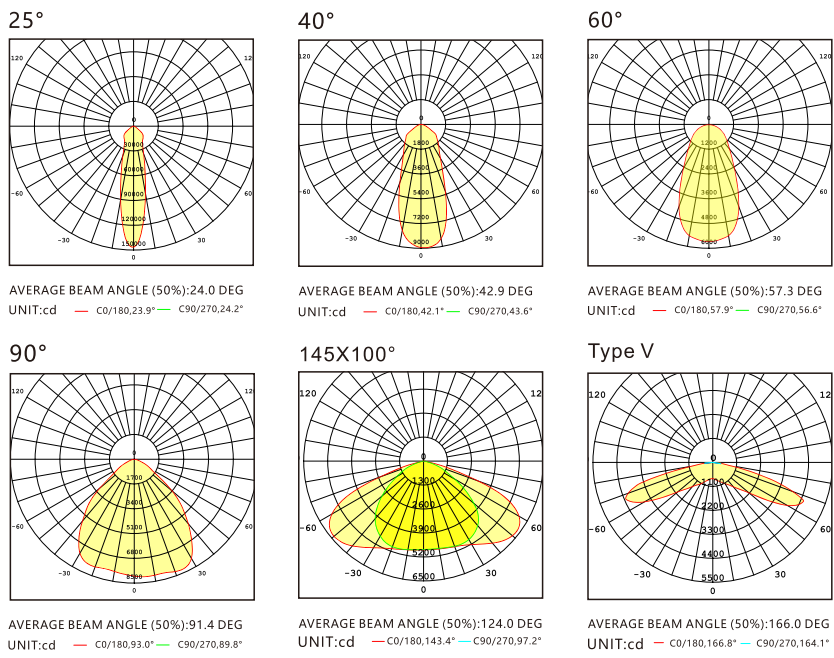
# V6B LED Flood Light

V6B series LED modular flood light are ultimate replacement light fixtures. Has been developed to ensure maximum energy efficiency in combination with modern technologies in LED lighting innovation.

## Parameters

| Electric Data              |                         |             |             |             |             |             |             |             |  |
|----------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Model                      | TL-HB06B01              | TL-HB06B02  | TL-HB06B03  | TL-HB06B04  | TL-HB06B05  | TL-HB06B06  | TL-HB06B08  | TL-HB06B10  |  |
| Power                      | 50W                     | 100W        | 150W        | 200W        | 250W        | 300W        | 400W        | 500W        |  |
| Power Factor               | >0.95                   |             |             |             |             |             |             |             |  |
| Power Supply               | MOSO/Sosen/Inventronics |             |             |             |             |             |             |             |  |
| Working Voltage            | AC90-305V,50/60Hz       |             |             |             |             |             |             |             |  |
|                            |                         |             |             |             |             |             |             |             |  |
| Photometric Specifications |                         |             |             |             |             |             |             |             |  |
| LEDs                       | 5050 LED                |             |             |             |             |             |             |             |  |
| Ra                         | >70(>80,>90 optional)   |             |             |             |             |             |             |             |  |
| Luminous Efficiency        | 175±5lm/w               |             |             |             |             |             |             |             |  |
| LEDs Qty                   | 28pcs                   | 56pcs       | 84pcs       | 112pcs      | 140pcs      | 168pcs      | 224pcs      | 280pcs      |  |
| CCT                        | 3000K/4000K/5000K/6000K |             |             |             |             |             |             |             |  |
|                            |                         |             |             |             |             |             |             |             |  |
| Mechanical Specifications  |                         |             |             |             |             |             |             |             |  |
| IP/IK Rate                 | IP66/IK10               |             |             |             |             |             |             |             |  |
| Inclination Angle          | 100°                    |             |             |             |             |             |             |             |  |
| N.W.(KG)                   | 2.5                     | 3.6         | 4.0         | 5.0         | 6.0         | 9.0         | 11.0        | 13.0        |  |
| Lamp size (mm)             | 260x85x174              | 260x168x174 | 260x260x174 | 260x350x174 | 440x260x174 | 520x260x174 | 520x360x174 | 520x440x174 |  |
| Working Environment        | -40°C~50°C, 20%~90% RH  |             |             |             |             |             |             |             |  |
| Storage Temperature        | -45°C~55°C, 10%~90% RH  |             |             |             |             |             |             |             |  |

## Light Distribution Curve



# V26 LED tunnel light



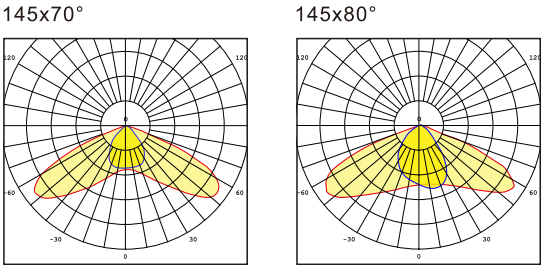
## Parameters

| Electric Data   |                         |             |              |              |              |              |
|-----------------|-------------------------|-------------|--------------|--------------|--------------|--------------|
| Model           | TL-V2601-30             | TL-V2601-50 | TL-V2601-100 | TL-V2602-120 | TL-V2602-150 | TL-V2602-200 |
| Power           | 30W                     | 50W         | 100W         | 120W         | 150W         | 200W         |
| Power Factor    | >0.95                   |             |              |              |              |              |
| Power Supply    | MOSO/Sosen/Inventronics |             |              |              |              |              |
| Working Voltage | AC90-305V,50/60Hz       |             |              |              |              |              |

| Photometric Specifications |                         |        |         |         |         |         |
|----------------------------|-------------------------|--------|---------|---------|---------|---------|
| LEDs                       | 3030 LED                |        |         |         |         |         |
| Ra                         | >70(>80,>90 optional)   |        |         |         |         |         |
| Luminous Efficiency        | 145±5lm/w               |        |         |         |         |         |
| LEDs Qty                   | 102pcs                  | 102pcs | 102pcs  | 204pcs  | 204pcs  | 204pcs  |
| Luminous Flux(±5%)         | 4350lm                  | 7250lm | 14500lm | 17400lm | 21750lm | 29000lm |
| CCT                        | 3000K/4000K/5000K/6000K |        |         |         |         |         |

| Mechanical Specifications |               |             |             |             |             |             |
|---------------------------|---------------|-------------|-------------|-------------|-------------|-------------|
| IP/IK Rate                | IP66/IK10     |             |             |             |             |             |
| Lifespan                  | >50,000 Hours |             |             |             |             |             |
| Inclination Angle         | ±180°         |             |             |             |             |             |
| Lens Material             | PC            |             |             |             |             |             |
| N.W.(KG)                  | 1.46          | 1.46        | 1.46        | 2.9         | 2.9         | 2.9         |
| Lamp size (mm)            | 272x126x122   | 272x126x122 | 272x126x122 | 504x126x122 | 504x126x122 | 504x126x122 |

## Light Distribution Curve







## LED Stadium Light

TOCHLIGHTING customized fixture proposal utilizing different beam spread for client's lighting demands, meeting high standard professional TV show broadcasting requirements.

Power ranges from 300W to 1800W, featured shape design with excellent performance aluminum heat-sink, individual kits easy assembly design.

- |                                                                                                    |                                                                                                      |                                                                                                        |                                                                                                              |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <br>Football  | <br>Hockey      | <br>Tennis        | <br>Rugby               |
| <br>Athletics | <br>Golf course | <br>Playing court | <br>Baseball / Softball |



# V18 LED Stadium Light

V18 LED stadium lamp is patented fin heat sink design product,with high efficiency LED, various beam angles for different lighting application.

Range from 300W to 1800W,used to televisue for professional CCTV high uniformity,lifespan more than 50000 hours



## Parameters

| Electric Data   |                         |              |              |               |               |               |
|-----------------|-------------------------|--------------|--------------|---------------|---------------|---------------|
| Model           | TL-V1801-300            | TL-V1802-500 | TL-V1803-900 | TL-V1804-1200 | TL-V1806-1500 | TL-V1806-1800 |
| Power           | 300W                    | 500W         | 900W         | 1200W         | 1500W         | 1800W         |
| Power Factor    | >0.95                   |              |              |               |               |               |
| Power Supply    | MOSO/Sosen/Inventronics |              |              |               |               |               |
| Working Voltage | AC90-305V,50/60Hz       |              |              |               |               |               |

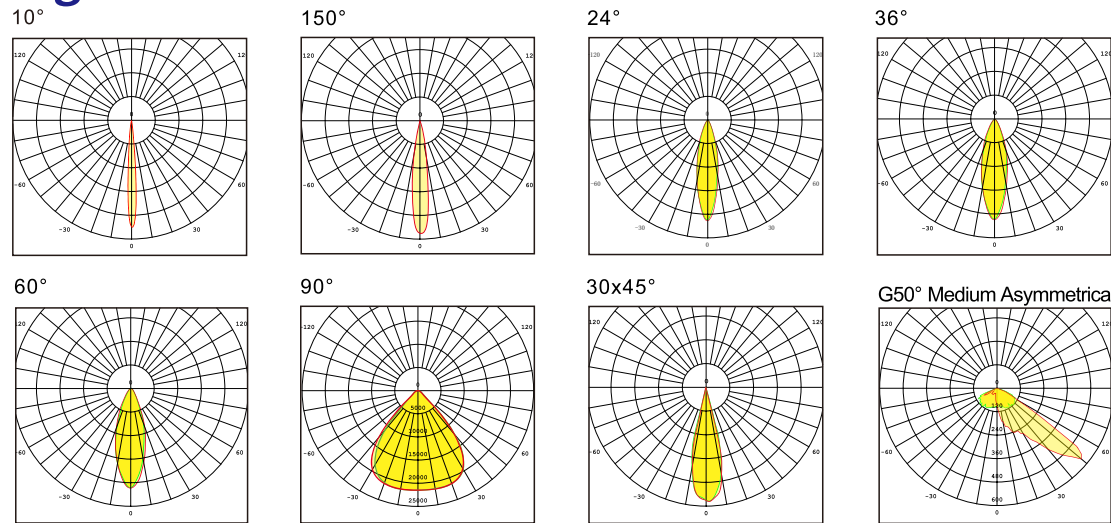
| Photometric Specifications |                         |
|----------------------------|-------------------------|
| Ra                         | >70(>80,>90 optional)   |
| CCT                        | 3000K/4000K/5000K/6000K |

| LEDs                           | OSRAM 3737 LED (10°/15°/G50°) |         |          |          |          |          |
|--------------------------------|-------------------------------|---------|----------|----------|----------|----------|
| 3737 LEDs (10°/15°)<br>115LM/W | 39pcs                         | 78pcs   | 117pcs   | 156pcs   | 234pcs   | 234pcs   |
| Luminous Flux(±5%)             | 34500lm                       | 57500lm | 103500lm | 138000lm | 172500lm | 207000lm |
| 3737 LEDs (G50°)<br>130LM/W    | 64pcs                         | 128pcs  | 192pcs   | 256pcs   | 320pcs   | 320pcs   |
| Luminous Flux(±5%)             | 39000lm                       | 65000lm | 117000lm | 156000lm | 195000lm | 234000lm |

| LEDs                          | 5050 LED(24°/36°/60°/90°/30X45°) |         |          |          |          |          |
|-------------------------------|----------------------------------|---------|----------|----------|----------|----------|
| 5050 LEDs                     | 124pcs                           | 248pcs  | 372pcs   | 496pcs   | 744pcs   | 774pcs   |
| Luminous Flux(±5%)<br>160LM/W | 48000lm                          | 80000lm | 144000lm | 192000lm | 240000lm | 288000lm |

| Mechanical Specifications |                       |             |             |                   |             |             |  |
|---------------------------|-----------------------|-------------|-------------|-------------------|-------------|-------------|--|
| IP/IK Rate                | IP66/IK10             |             |             |                   |             |             |  |
| Inclination Angle         | ±180°(<1000W)         |             |             | 120°&180°(≥1000W) |             |             |  |
| Working Environment       | -45°C~55°C,10%~90% RH |             |             |                   |             |             |  |
| N.W.(KG)                  | 5.6                   | 13.5        | 19.5        | 25                | 35          | 35          |  |
| Lamp Size(mm)             | 345x325x163           | 409x500x163 | 409x748x163 | 745x557x163       | 745x807x163 | 745x807x163 |  |

## Light Distribution Curve



# V19 LED Stadium Light

V19 LED stadium lamp is patented Fin heat sink design product,with high efficiency LED,various of beam angle for different lighting application.  
Range from 200W to 1200W,used to televise for professional CCTV high uniformity.



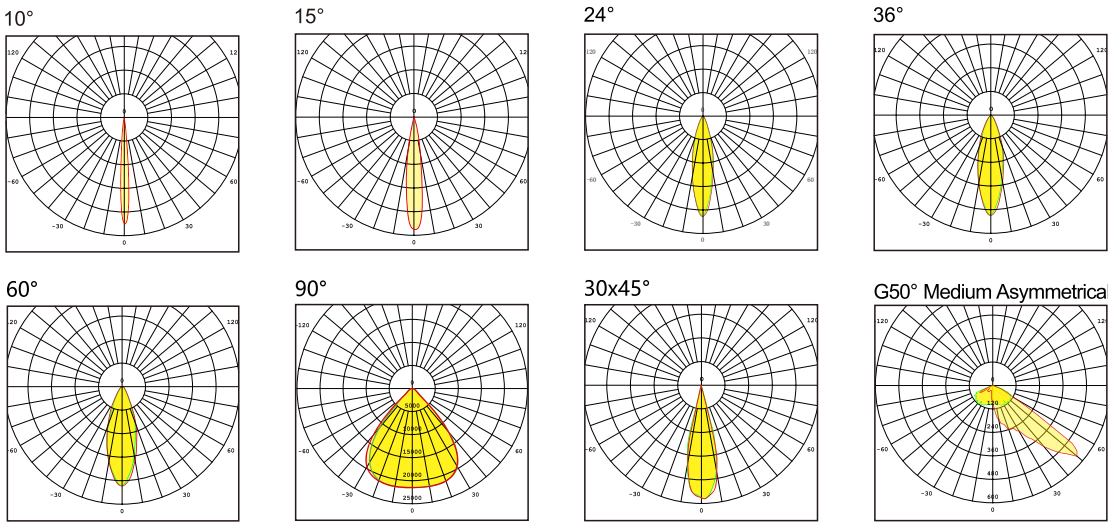
# Parameters

| Electric Data   |                         |              |              |              |               |
|-----------------|-------------------------|--------------|--------------|--------------|---------------|
| Model           | TL-V1901-200            | TL-V1902-400 | TL-V1903-600 | TL-V1904-800 | TL-V1906-1200 |
| Power           | 200W                    | 400W         | 600W         | 800W         | 1200W         |
| Power Factor    | >0.95                   |              |              |              |               |
| Power Supply    | MOSO/Sosen/Inventronics |              |              |              |               |
| Working Voltage | AC90-305V,50/60Hz       |              |              |              |               |

| Photometric Specifications    |                                   |         |         |          |          |
|-------------------------------|-----------------------------------|---------|---------|----------|----------|
| Ra                            | >70(>80,>90 optional)             |         |         |          |          |
| CCT                           | 3000K/4000K/5000K/6000K           |         |         |          |          |
| LEDs                          | OSRAM 3737 LED (10°/15°/G50°)     |         |         |          |          |
| Luminous Efficiency           | 125lm/w                           |         |         |          |          |
| 3737 LEDs Qty (10°/15°)       | 39pcs                             | 78pcs   | 117pcs  | 156pcs   | 234pcs   |
| 3535 LEDs Qty (G50°)          | 64pcs                             | 128pcs  | 192pcs  | 256pcs   | 320pcs   |
| Luminous Flux(±5%)            | 25000lm                           | 50000lm | 75000lm | 100000lm | 150000lm |
| LEDs                          | 5050 LED (24°/36°/60°/90°/30X45°) |         |         |          |          |
| 5050 LEDs Qty                 | 124pcs                            | 248pcs  | 372pcs  | 496pcs   | 744pcs   |
| Luminous Flux(±5%)<br>160LM/W | 33000lm                           | 66000lm | 99000lm | 132000lm | 198000lm |

| Mechanical Specifications |                       |             |             |             |             |
|---------------------------|-----------------------|-------------|-------------|-------------|-------------|
| IP/IK Rate                | IP66/IK10             |             |             |             |             |
| Inclination Angle         | -90°~180°             |             |             |             |             |
| Working Environment       | -45°C~55°C,10%~90% RH |             |             |             |             |
| N.W.(KG)                  | 5.0                   | 8.5         | 12.5        | 16.2        | 22.5        |
| Lamp Size(mm)             | 404x327x113           | 404x530x113 | 404x720x113 | 724x555x113 | 724x740x113 |

# Light Distribution Curve





# V20 LED Stadium Light

V20 LED flood light is high purity extruded aluminum design, it is a very economical and practical lamp with various of beam angle for different lighting application. Wide power range from 100W to 500W, used to common sport filed and area lighting.



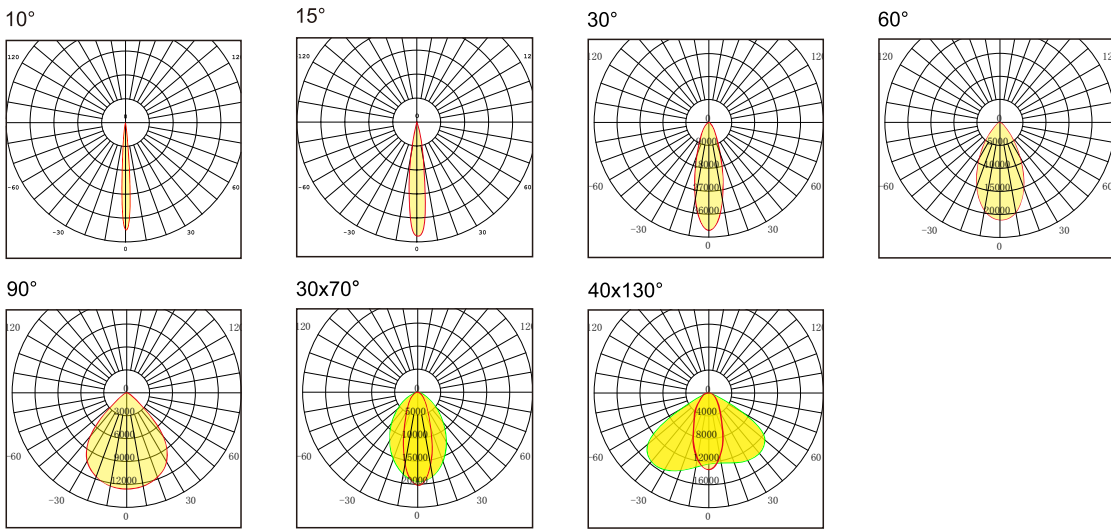
## Parameters

| Electric Data   |                         |              |              |              |              |
|-----------------|-------------------------|--------------|--------------|--------------|--------------|
| Model           | TL-V2001-100            | TL-V2002-200 | TL-V2003-300 | TL-V2004-400 | TL-V2005-500 |
| Power           | 100W                    | 200W         | 300W         | 400W         | 500W         |
| Power Factor    | >0.95                   |              |              |              |              |
| Power Supply    | MOSO/Sosen/Inventronics |              |              |              |              |
| Working Voltage | AC90-305V,50/60Hz       |              |              |              |              |

| Photometric Specifications |                          |         |         |         |         |
|----------------------------|--------------------------|---------|---------|---------|---------|
| LEDs                       | 3535 LED/5050LED/3030LED |         |         |         |         |
| Ra                         | >70(>80,>90 optional)    |         |         |         |         |
| Luminous Efficiency        | 145±5lm/w                |         |         |         |         |
| LEDs Qty (3535)            | 32pcs                    | 64pcs   | 96pcs   | 128pcs  | 160pcs  |
| LEDs Qty (5050)            | 46pcs                    | 92pcs   | 138pcs  | 184pcs  | 230pcs  |
| LEDs Qty (3030)            | 112pcs                   | 224pcs  | 336pcs  | 448pcs  | 560pcs  |
| Luminous Flux(±5%)         | 14500lm                  | 29000lm | 43500lm | 58000lm | 72500lm |
| CCT                        | 3000K/4000K/5000K/6000K  |         |         |         |         |

| Mechanical Specifications |                 |               |               |               |               |
|---------------------------|-----------------|---------------|---------------|---------------|---------------|
| IP/IK Rate                | IP66/IK10       |               |               |               |               |
| Lifespan                  | >50,000 Hours   |               |               |               |               |
| Inclination Angle         | -90°~180°       |               |               |               |               |
| Body Material             | Aluminum6063-T5 |               |               |               |               |
| Lens Material             | PC              |               |               |               |               |
| N.W.(KG)                  | 2.5             | 4.5           | 6.7           | 8.0           | 10.2          |
| Lamp Size(mm)             | 320x100x180.5   | 320x210x180.5 | 320x320x180.5 | 320x430x180.5 | 320x540x180.5 |

## Light Distribution Curve







## LED High Bay Light

Widely used in Factory, Workshop, Warehouse, Logistics Centre, Exhibition Hall, Gymnasium, Shipyards, Mining, Petrol Station, Supermarket, etc.



## S2 High Bay Light

S2 UFO high bay light series from 100W-240W. Classic outlook with excellent system efficiency 180lm/w. Patented heat dissipation design with lower weight.

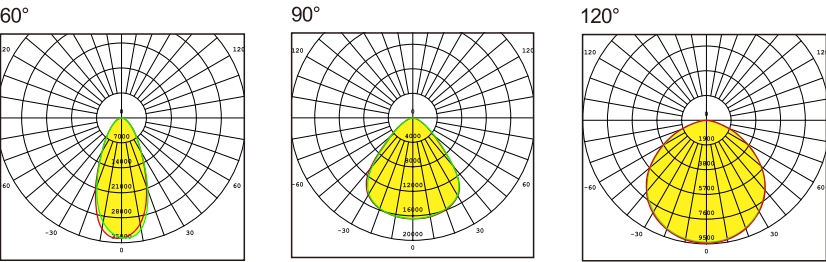
Super energy saving. 150W can replace 400W HID. Smart control with 0-10V, PWM, Microwave Motion Sensor and Bluetooth Motion sensor.



## Parameters

| Electric Data              |                                              |           |           |           |           |
|----------------------------|----------------------------------------------|-----------|-----------|-----------|-----------|
| Model                      | TL-S2-100                                    | TL-S2-120 | TL-S2-150 | TL-S2-200 | TL-S2-240 |
| Power                      | 100W                                         | 120W      | 150W      | 200W      | 240W      |
| Input Voltage              | AC 100-277V, 50/60Hz                         |           |           |           |           |
| Photometric Specifications |                                              |           |           |           |           |
| LEDs                       | Lumileds 2835                                |           |           |           |           |
| Ra                         | >70(>80,>90 optional)                        |           |           |           |           |
| Luminous Efficiency        | 165±5lm/w                                    |           |           |           |           |
| Luminous Flux(±5%)         | 16500lm                                      | 19800lm   | 24750lm   | 33000lm   | 39600lm   |
| LEDs                       | Lumileds 2835 (High Lumen)                   |           |           |           |           |
| Ra                         | >70                                          |           |           |           |           |
| Luminous Efficiency        | 180lm/w                                      |           |           |           |           |
| Luminous Flux(±5%)         | 18000lm                                      | 21600lm   | 27000lm   | 36000lm   | 43200lm   |
| CCT                        | 3000K/4000K/5000K/6000K                      |           |           |           |           |
| Mechanical Specifications  |                                              |           |           |           |           |
| IP Rate                    | IP65                                         |           |           |           |           |
| Working Environment        | -40℃~50℃,20%~90% RH                          |           |           |           |           |
| Storage Temperature        | -45℃~55℃,10%~90% RH                          |           |           |           |           |
| Body Material              | Aluminum6063-T5                              |           |           |           |           |
| Lens Material              | PC                                           |           |           |           |           |
| Dimmable                   | 0-10V/PWM/Microwave Motion Sensor(Bluetooth) |           |           |           |           |
| N.W.(KG)                   | 2.8                                          | 2.8       | 2.9       | 3.4       | 3.5       |
| Size(mm)                   | Ø320xH188                                    |           |           |           |           |

## Light Distribution Curve



## Certificates

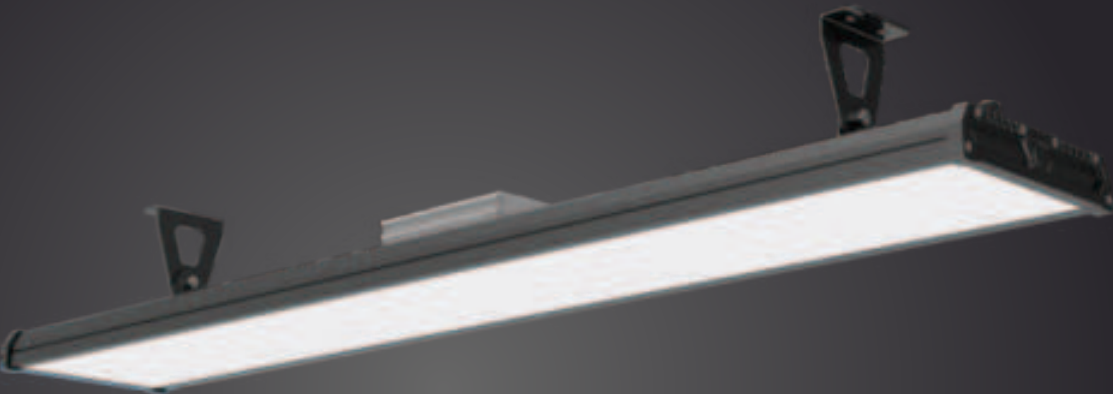




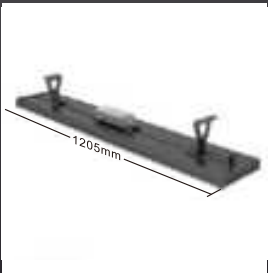
# T20 LED Linear High Bay

T20 linear high bay is the perfect lighting choice for a wide range of applications including warehousing, logistics, retail, manufacturing, production & refrigeration.

Smart sensor design and more optional installation type can meet different needs.



Installation Way



Standard Length

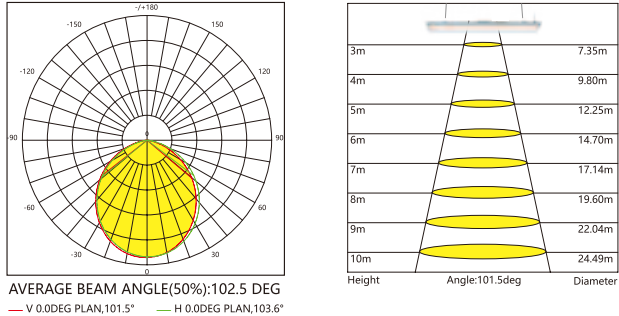


Smart Dimming System

# Parameters

| Electric Data                   |                                               |           |           |           |            |            |            |                 |            |            |
|---------------------------------|-----------------------------------------------|-----------|-----------|-----------|------------|------------|------------|-----------------|------------|------------|
| Model                           | TL-T20-50                                     | TL-T20-60 | TL-T20-70 | TL-T20-90 | TL-T20-100 | TL-T20-110 | TL-T20-120 | TL-T20-150      | TL-T20-180 | TL-T20-200 |
| Power                           | 50W                                           | 60W       | 70W       | 90W       | 100W       | 110W       | 120W       | 150W            | 180W       | 200W       |
| Input Voltage                   | AC 100-277V 50/60Hz (Battery backup optional) |           |           |           |            |            |            |                 |            |            |
| Photometric Specifications      |                                               |           |           |           |            |            |            |                 |            |            |
| Beam Angle                      | 100°                                          |           |           |           |            |            |            |                 |            |            |
| Luminous Efficiency<br>(±5lm/w) | 130lm/w                                       |           |           |           |            |            |            |                 |            |            |
| CCT                             | 3000K/4000K/5000K/5700K/6500K                 |           |           |           |            |            |            |                 |            |            |
| Luminous Flux(±5%)              | 6250lm                                        | 7500lm    | 8750lm    | 11700lm   | 13000lm    | 14300lm    | 15600lm    | 19500lm         | 23400lm    | 26000lm    |
| LEDs                            | Lumileds 2835                                 |           |           |           |            |            |            |                 |            |            |
| Ra                              | ≥70 (≥80 optional)                            |           |           |           |            |            |            |                 |            |            |
| LED Qty                         | 288                                           | 288       | 288       | 288       | 288        | 288        | 288        | 576             | 576        | 576        |
| Mechanical Specifications       |                                               |           |           |           |            |            |            |                 |            |            |
| IP Rate                         | IP65                                          |           |           |           |            |            |            |                 |            |            |
| Working Environment             | -40°C~ 45°C, ≤ 85%RH                          |           |           |           |            |            |            |                 |            |            |
| Storage Temperature             | -45°C~ 50°C, ≤ 90%RH                          |           |           |           |            |            |            |                 |            |            |
| Body Material                   | AL6063-T5+Q235                                |           |           |           |            |            |            |                 |            |            |
| Lamp Cover Material             | Temperaed glass cover                         |           |           |           |            |            |            |                 |            |            |
| Dimmable                        | 0-10V/PWM/Sensor                              |           |           |           |            |            |            |                 |            |            |
| Lifespan                        | >50,000 Hours (Ta=30°C@L70)                   |           |           |           |            |            |            |                 |            |            |
| N.W.(KG/PCS )                   | 4.5                                           | 4.5       | 4.5       | 4.5       | 4.5        | 4.5        | 4.5        | 6               | 6          | 6          |
| Lamp Size(mm)                   | L1205×W156×H165                               |           |           |           |            |            |            | L1205*W210*H165 |            |            |

# Light Distribution Curve



# LED Module

TOCHLIGHTING patented design LED module is developed for integrated outdoor&industrial lighting application. It's high luminous efficiency,optional beam angles and wide power range nearly meet all lighting application requirements.



L16 Street Light



LED Shoebox Light



L13 Street Light



V5 Flood Light



L18 Street Light



L68 Street Light



LED Street Light Module



V6 Flood Light



V18 Stadium Light

# M18C 5050 LED Street Light Module (70mm)



## Main Features

- Use prefect anodizing aluminum alloy heatsink,improve the service life of radiator.
- Excellent operating temperature -40°C ~ 50°C.
- High performance design with multi-chips package 5050 LED source.Stable performance,low light failure and no dead lights.
- Standard beam angle Type II suitable for most of road lighting.
- High safety,low voltage input voltage is safe for people, which effectively prevents electric shock and electric leakage.
- Easy to assemble and maintain with national standard M15 electrical interface, achieved plugged and play,only need loosening the screw during maintenance.
- Green product,no UV,IR radiation or mercury pollution.Passed IEC62471.
- With excellent housing design reach IP66 rating.
- Life-span over 50,000 hours,5 years warranty.







## External Design



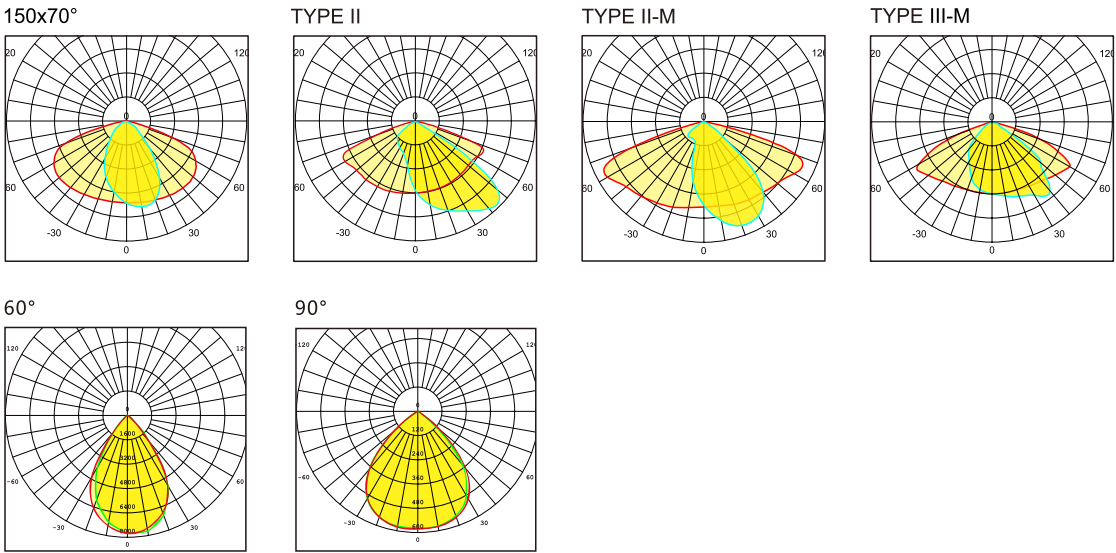
## Parameters

| Electric Data |              |       |       |       |
|---------------|--------------|-------|-------|-------|
| Model         | TL-M18C-5050 |       |       |       |
| Power         | 30W          | 40W   | 50W   | 60W   |
| Input Voltage | 48V          |       |       |       |
| Input Current | 0.63A        | 0.84A | 1.05A | 1.25A |

| Photometric Specifications                             |                         |         |         |         |
|--------------------------------------------------------|-------------------------|---------|---------|---------|
| LEDs                                                   | 5050 LED                |         |         |         |
| Ra                                                     | > 70(>80,>90 optional)  |         |         |         |
| CCT                                                    | 3000K/4000K/5000K/6000K |         |         |         |
| LED Qty                                                | 32pcs                   |         |         |         |
| Luminous Efficiency(±5%)<br>150x70°/Type III-M/60°/90° | 210lm/w                 | 205lm/w | 200lm/w | 195lm/w |
| Luminous Efficiency(±5%)<br>Type II/Type II-M          | 190lm/w                 | 185lm/w | 180lm/w | 175lm/w |

| Mechanical Specifications |                       |
|---------------------------|-----------------------|
| IP Rate                   | IP66                  |
| Working Environment       | -40°C~50°C,20%~90% RH |
| Storage Temperature       | -45°C~55°C,10%~90% RH |
| Body Material             | Aluminum AL6063-T5    |
| Lens Material             | PC                    |
| Connector Size            | M15                   |
| Wire Length               | 200mm/300mm optional  |
| Module Size(mm)           | 300x70x37             |

## Light Distribution Curve



# 5050 LED Street Light Module (70mm)



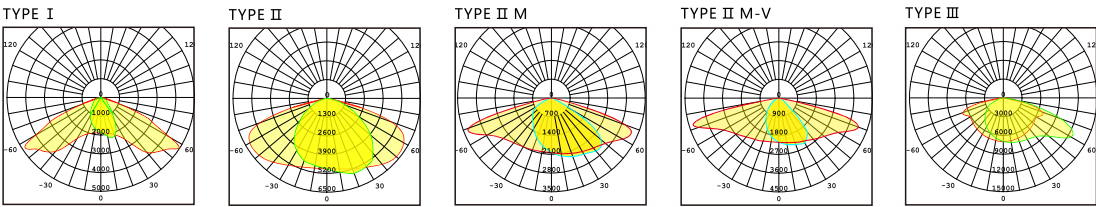
## Parameters

| Electric Data |               |       |       |       |
|---------------|---------------|-------|-------|-------|
| Model         | TL-MSL5028-70 |       |       |       |
| Power         | 30W           | 40W   | 50W   | 60W   |
| Input Voltage | 42-48V        |       |       |       |
| Input Current | 0.7A          | 0.91A | 1.11A | 1.31A |

| Photometric Specifications |                         |         |         |         |
|----------------------------|-------------------------|---------|---------|---------|
| LEDs                       | 5050 LED                |         |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |         |
| Luminous Efficiency        | 200lm/w                 | 195lm/w | 190lm/w | 180lm/w |
| Luminous Flux(±5%)         | 6000lm                  | 7800lm  | 9500lm  | 10800lm |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |         |
| LED Qty                    | 28pcs                   |         |         |         |

| Mechanical Specifications |                     |
|---------------------------|---------------------|
| IP Rate                   | IP66                |
| Working Environment       | -40℃~50℃,20%~90% RH |
| Storage Temperature       | -45℃~55℃,10%~90% RH |
| Body Material             | Aluminum6063-T5     |
| Lens Material             | PC                  |
| Connector Size            | M15                 |
| Module Size(mm)           | 300x70x54           |

## Light Distribution Curve





### LED Chip

Use customized chip from TOP 5 LED chip manufacturer,delivering high luminous efficiency up to 250lm/w.

### Heat Sink

Aluminium Heat sink alloy with powder spraying process. Anti-corrosion,no toxicity or pollution.

### Waterproof Connector

IP67 Plug and play connector.

### Diffuser

Self-developed patent lens. Super high transmittance lens over 98%.

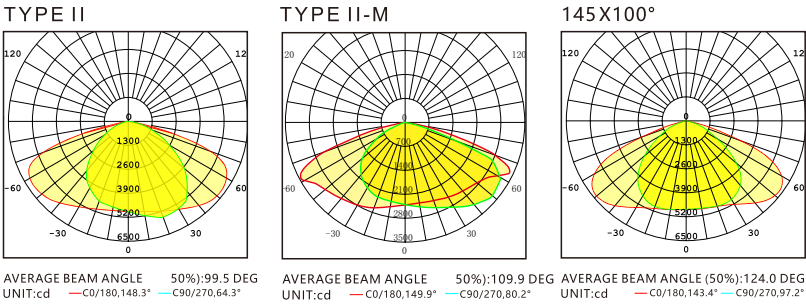
### Parameters

| Electric Data |               |       |       |       |
|---------------|---------------|-------|-------|-------|
| Model         | TL-MSL5028-75 |       |       |       |
| Power         | 30W           | 40W   | 50W   | 60W   |
| Input Voltage | 42-48V        |       |       |       |
| Input Current | 0.72A         | 0.93A | 1.14A | 1.33A |

| Photometric Specifications |                         |         |         |         |
|----------------------------|-------------------------|---------|---------|---------|
| LEDs                       | 5050 LED                |         |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |         |
| Luminous Efficiency        | 200lm/w                 | 195lm/w | 190lm/w | 180lm/w |
| Luminous Flux(±5%)         | 6000lm                  | 7800lm  | 9500lm  | 10800lm |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |         |
| LED Qty                    | 28pcs                   |         |         |         |

| Mechanical Specifications |                       |
|---------------------------|-----------------------|
| IP Rate                   | IP66                  |
| Working Environment       | -40°C~50°C,20%~90% RH |
| Storage Temperature       | -45°C~55°C,10%~90% RH |
| Body Material             | Aluminum6063-T5       |
| Lens Material             | PC                    |
| Connector Size            | M15                   |
| Module Size(mm)           | 300x75x50             |

### Light Distribution Curve

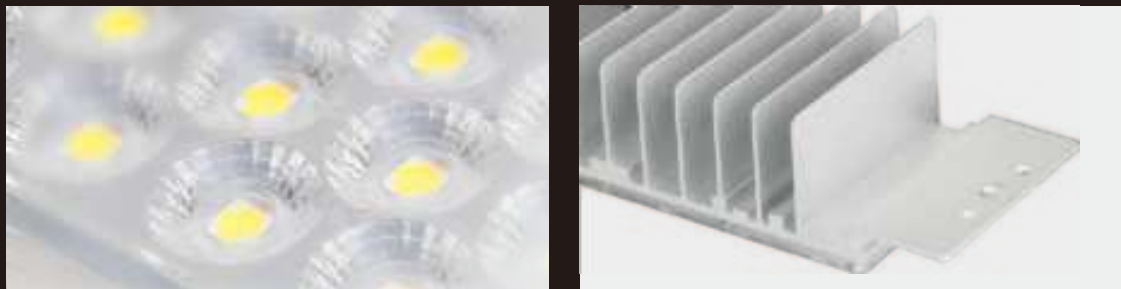




# 5050 LED High Bay Light Module (75mm)



## External Design



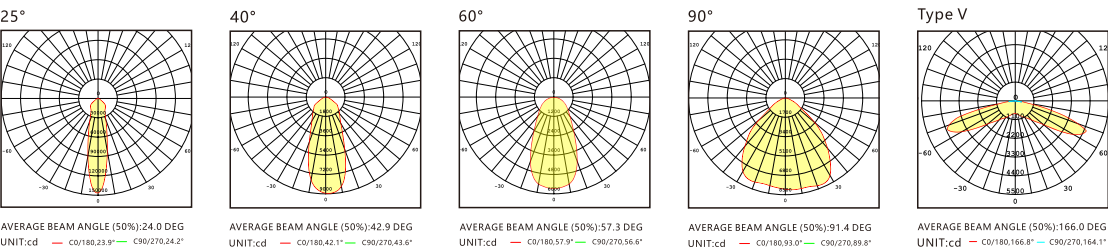
## Parameters

| Electric Data |               |       |       |       |
|---------------|---------------|-------|-------|-------|
| Model         | TL-MHB5028-75 |       |       |       |
| Power         | 30W           | 40W   | 50W   | 60W   |
| Input Voltage | 42-48V        |       |       |       |
| Input Current | 0.72A         | 0.93A | 1.14A | 1.33A |

| Photometric Specifications |                         |         |         |         |
|----------------------------|-------------------------|---------|---------|---------|
| LEDs                       | 5050 LED                |         |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |         |
| Luminous Efficiency        | 200lm/w                 | 195lm/w | 190lm/w | 180lm/w |
| Luminous Flux(±5%)         | 6000lm                  | 7800lm  | 9500lm  | 10800lm |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |         |
| LED Qty                    | 28pcs                   |         |         |         |

| Mechanical Specifications |                       |
|---------------------------|-----------------------|
| IP Rate                   | IP67                  |
| Working Environment       | -40°C~50°C,20%~90% RH |
| Storage Temperature       | -45°C~55°C,10%~90% RH |
| Body Material             | Aluminum6063-T5       |
| Lens Material             | PC                    |
| Connector Size            | M15                   |
| Module Size(mm)           | 300x76x54             |

## Light Distribution Curve



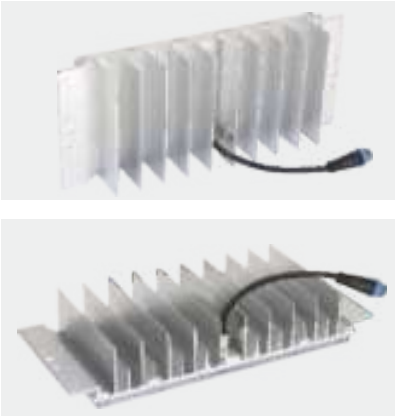
# 5050 LED Shoebox Light Module (120mm)



## Features

- Various photometric lens
- Excellent heat dissipation

## External Design



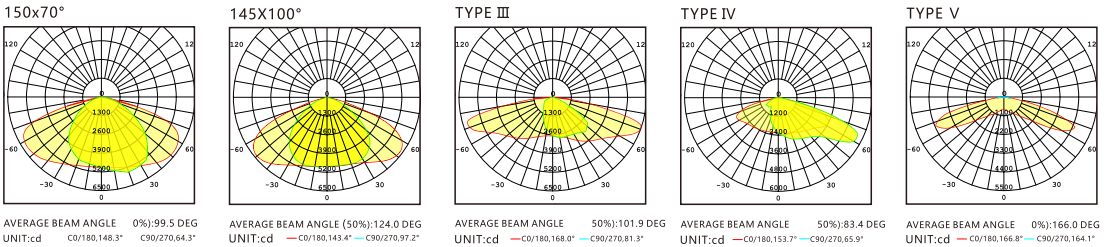
# Parameters

| Electric Data |            |       |       |       |
|---------------|------------|-------|-------|-------|
| Model         | TL-MSL5042 |       |       |       |
| Power         | 50W        | 60W   | 70W   | 80W   |
| Input Voltage | 42-48V     |       |       |       |
| Input Current | 1.16A      | 1.36A | 1.56A | 1.74A |

| Photometric Specifications |                         |         |         |         |
|----------------------------|-------------------------|---------|---------|---------|
| LEDs                       | 5050 LED                |         |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |         |
| Luminous Efficiency        | 195lm/w                 | 190lm/w | 185lm/w | 180lm/w |
| Luminous Flux(±5%)         | 9750lm                  | 11400lm | 12950lm | 14400lm |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |         |
| LED Qty                    | 42pcs                   |         |         |         |

| Mechanical Specifications |                       |
|---------------------------|-----------------------|
| IP Rate                   | IP66                  |
| Working Environment       | -40°C~50°C,20%~90% RH |
| Storage Temperature       | -45°C~55°C,10%~90% RH |
| Body Material             | Aluminum6063-T5       |
| Lens Material             | PC                    |
| Connector Size            | M15                   |
| Module Size(mm)           | 300x120x58            |

# Light Distribution Curve



# 8778 Series Street Light Module (Vertical)



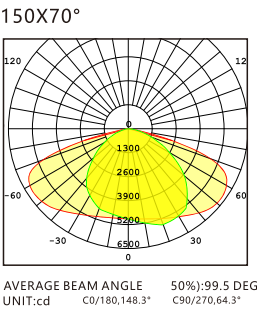
# Parameters

| Electric Data |                |       |       |
|---------------|----------------|-------|-------|
| Model         | TL-MSL5030-150 |       |       |
| Power         | 30W            | 40W   | 50W   |
| Input Voltage | 42-48V         |       |       |
| Input Current | 0.7A           | 0.91A | 1.11A |

| Photometric Specifications |                         |         |         |
|----------------------------|-------------------------|---------|---------|
| LEDs                       | 5050 LED                |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |
| Luminous Efficiency        | 200lm/w                 | 195lm/w | 190lm/w |
| Luminous Flux(±5%)         | 6000lm                  | 7800lm  | 9500lm  |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |
| LED Qty                    | 30pcs                   |         |         |

| Mechanical Specifications |                     |
|---------------------------|---------------------|
| IP Rate                   | IP66                |
| Working Environment       | -40℃~50℃,20%~90% RH |
| Storage Temperature       | -45℃~55℃,10%~90% RH |
| Body Material             | Aluminum6063-T5     |
| Lens Material             | PC                  |
| Connector Size            | M15                 |
| Module Size(mm)           | 172x150x42          |

# Light Distribution Curve





# M17 5050 LED Light Module(72mm)



## LED Chip

Use customized chip from TOP 5 LED chip manufacturer,delivering high luminous efficiency up to 250lm/w.

## Diffuser

Self-developed patent lens. Super high transmittance lens over 98%.

## Technics

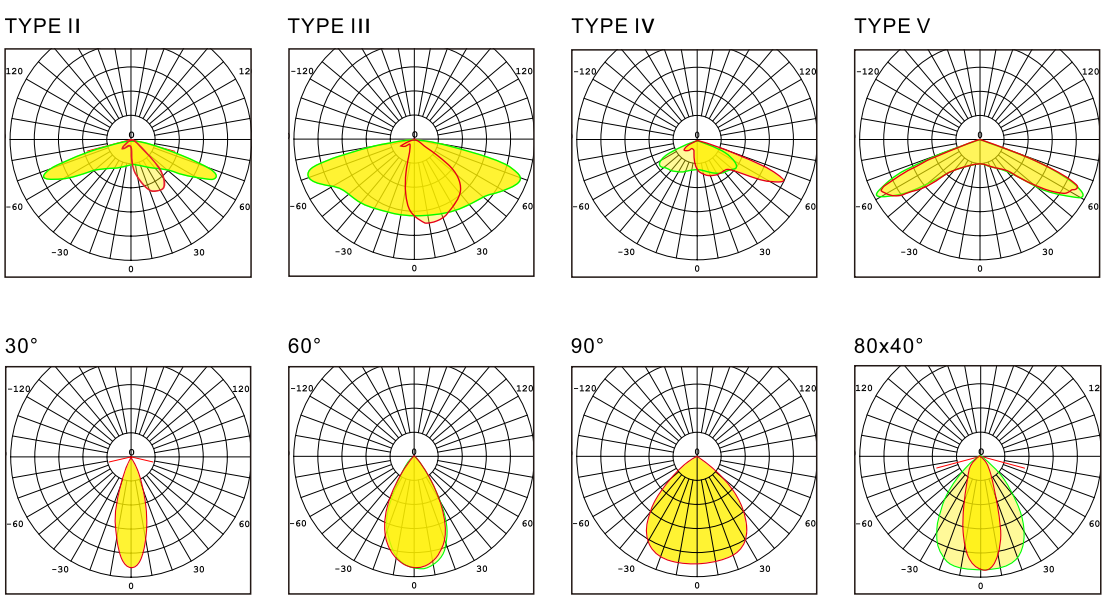
The anodizing aluminium alloy material with smooth surface processing.



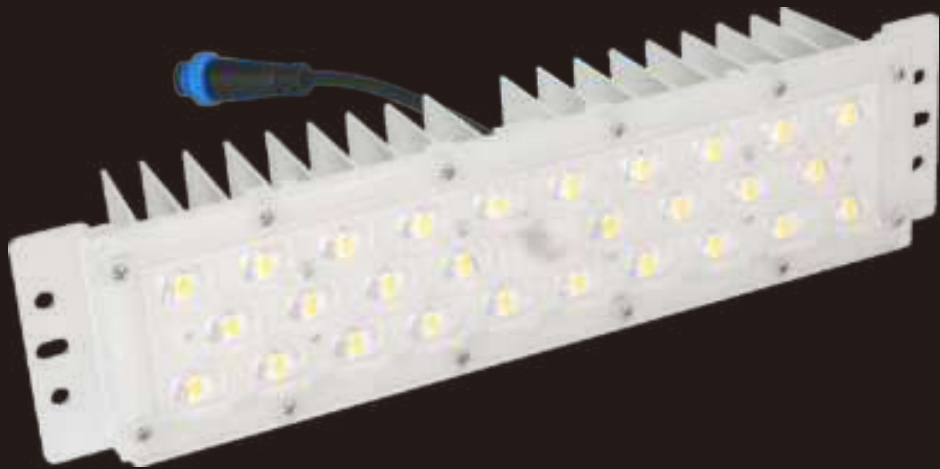
## Parameters

| Electric Data              |                         |         |         |         |
|----------------------------|-------------------------|---------|---------|---------|
| Model                      | TL-M175012              |         |         |         |
| Power                      | 12W                     | 20W     | 30W     | 40W     |
| Input Voltage              | 48V                     |         |         |         |
| Input Current              | 0.25A                   | 0.42A   | 0.36A   | 0.83A   |
|                            |                         |         |         |         |
| Photometric Specifications |                         |         |         |         |
| LEDs                       | 5050 LED                |         |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |         |
| Luminous Efficiency        | 185lm/w                 | 175lm/w | 165lm/w | 155lm/w |
| Luminous Flux(±5%)         | 2220lm                  | 3500lm  | 4950lm  | 6200lm  |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |         |
| LED Qty                    | 12pcs                   |         |         |         |
|                            |                         |         |         |         |
| Mechanical Specifications  |                         |         |         |         |
| IP Rate                    | IP66                    |         |         |         |
| Working Environment        | -40℃~50℃,20%~90% RH     |         |         |         |
| Storage Temperature        | -45℃~55℃,10%~90% RH     |         |         |         |
| Body Material              | Aluminum6063-T5         |         |         |         |
| Lens Material              | PC                      |         |         |         |
| Connector Size             | M15                     |         |         |         |
| Module Size(mm)            | 200x72x55               |         |         |         |

## Light Distribution Curve



# M30 LED Light Module



## Parameters

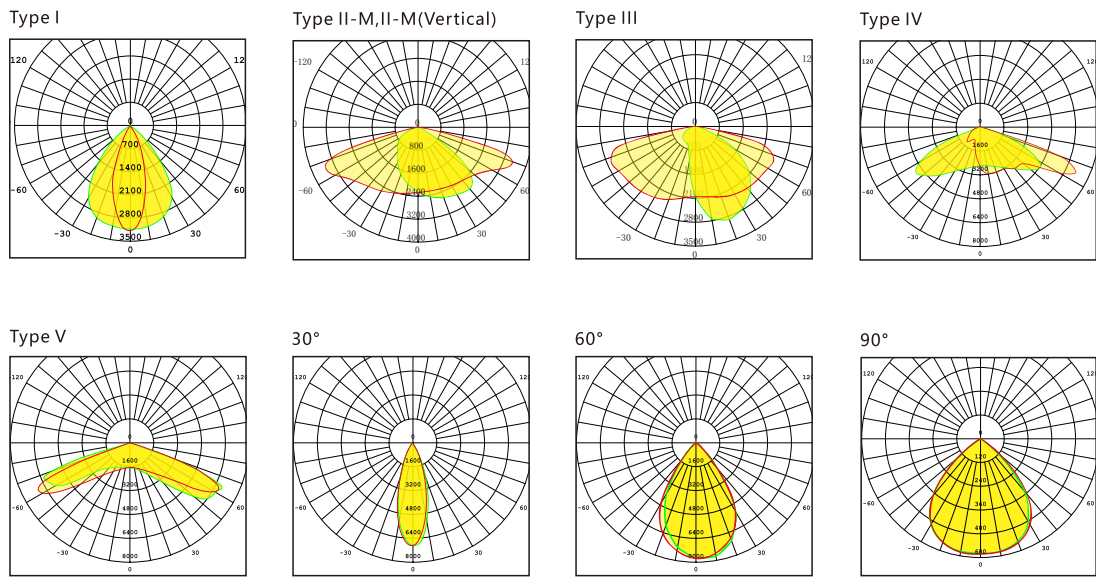
| Electric Data              |                         |         |         |         |
|----------------------------|-------------------------|---------|---------|---------|
| Model                      | TL-M30                  |         |         |         |
| Power                      | 30W                     | 40W     | 50W     | 60W     |
| Input Voltage              | 48V                     |         |         |         |
| Input Current              | 0.63A                   | 0.84A   | 1.05A   | 1.25A   |
|                            |                         |         |         |         |
| Photometric Specifications |                         |         |         |         |
| LEDs                       | 5050 LED                |         |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |         |
| Luminous Efficiency        | 190lm/w                 | 180lm/w | 170lm/w | 160lm/w |
| Luminous Flux(±5%)         | 5700lm                  | 7200lm  | 8500lm  | 9600lm  |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |         |
| LED Qty                    | 28pcs                   |         |         |         |
|                            |                         |         |         |         |
| Mechanical Specifications  |                         |         |         |         |
| IP Rate                    | IP66/IK10               |         |         |         |
| Working Environment        | -40℃~50℃,20%~90% RH     |         |         |         |
| Storage Temperature        | -45℃~55℃,10%~90% RH     |         |         |         |
| Lens Material              | PC                      |         |         |         |
| Connector Size             | M15                     |         |         |         |
| Module Size(mm)            | 300x70x52.7             |         |         |         |

## Application

### External Design



## Light Distribution Curve



# M37 LED Light Module

Built-in LED driver design

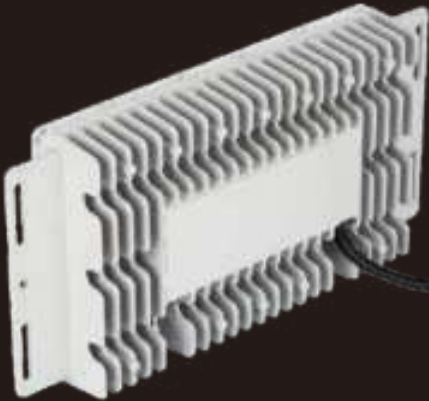
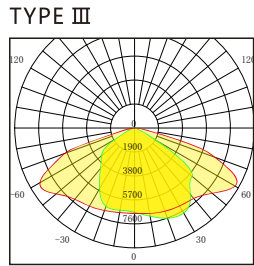


## Parameters

| Electric Data              |                                     |                       |         |
|----------------------------|-------------------------------------|-----------------------|---------|
| Model                      | TL-M37                              |                       |         |
| Power                      | 100W                                | 120W                  | 150W    |
| Input Voltage              | AC120-277V,50/60Hz                  |                       |         |
|                            |                                     |                       |         |
| Photometric Specifications |                                     |                       |         |
| LEDs                       | 3030/5050 LED                       |                       |         |
| Ra                         | >70                                 |                       |         |
| Luminous Efficiency        | 130-140lm/w(3030),150-160lm/w(5050) |                       |         |
| Luminous Flux(3030)        | 13500lm                             | 16200lm               | 20250lm |
| Luminous Flux(5050)        | 15500lm                             | 18600lm               | 22500lm |
| CCT                        | 3000K/4000K/5000K/6000K             |                       |         |
| LED Qty(3030)              | 140pcs                              | 200pcs                | 240pcs  |
| LED Qty(5050)              | 60pcs                               | 60pcs                 | 75pcs   |
|                            |                                     |                       |         |
| Mechanical Specifications  |                                     |                       |         |
| IP Rate                    | IP66/IK10                           |                       |         |
| Working Environment        | -40°C~50°C,20%~90% RH               |                       |         |
| Storage Temperature        | -45°C~55°C,10%~90% RH               |                       |         |
| Body Material              | ADC12                               |                       |         |
| Lens Material              | PC                                  |                       |         |
| Cable Length               | 600mm ( M15 connector optional)     |                       |         |
| Module Size(mm)            | 300x146x43(100W)                    | 300x146x47(120W-150W) |         |

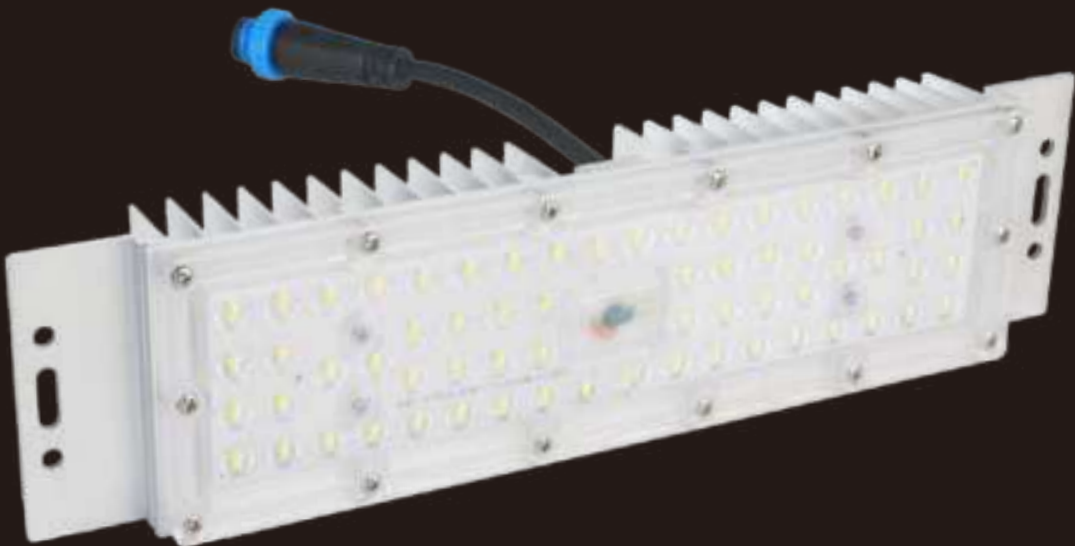
## Application

## Light Distribution Curve





# M18C 3030 LED Street Light Module (70mm)



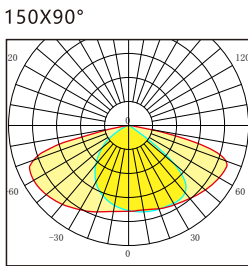
## Parameters

| Electric Data |              |      |     |      |
|---------------|--------------|------|-----|------|
| Model         | TL-M18C-3030 |      |     |      |
| Power         | 30W          | 40W  | 50W | 60W  |
| Input Voltage | 48V          |      |     |      |
| Input Current | 0.6A         | 0.8A | 1A  | 1.2A |

| Photometric Specifications |                         |         |         |         |
|----------------------------|-------------------------|---------|---------|---------|
| LEDs                       | 3030 LED                |         |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |         |
| Luminous Efficiency        | 180lm/w                 | 175lm/w | 170lm/w | 165lm/w |
| Luminous Flux(±5%)         | 5400lm                  | 7000lm  | 8500lm  | 9900lm  |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |         |
| LED Qty                    | 64pcs                   |         |         |         |

| Mechanical Specifications |                       |
|---------------------------|-----------------------|
| IP Rate                   | IP66                  |
| Working Environment       | -40°C~50°C,20%~90% RH |
| Storage Temperature       | -45°C~55°C,10%~90% RH |
| Body Material             | Aluminum AL6063-T5    |
| Lens Material             | PC                    |
| Connector Size            | M15                   |
| Module Size(mm)           | 300x70x37             |

## Light Distribution Curve



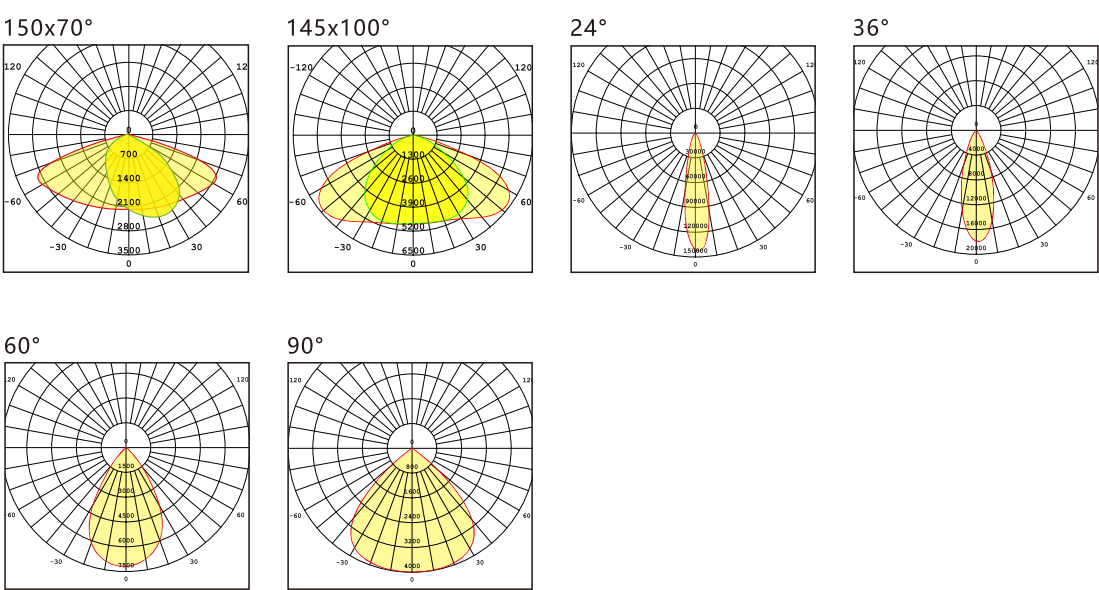
# M13 3030 LED Light Module(70mm)



## Parameters

| Electric Data              |                         |         |             |             |             |          |
|----------------------------|-------------------------|---------|-------------|-------------|-------------|----------|
| Model                      | TL-M13                  |         |             |             |             |          |
| Power                      | 30W                     | 40W     | 50W         | 50W         | 60W         | 60W      |
| Input Voltage              | 36V                     | 36V     | 42V/48V     | 30V/36V     | 42V/48V     | 30V/36V  |
| Input Current              | 0.83A                   | 1.11A   | 1.20A/1.04A | 1.67A/1.39A | 1.43A/1.25A | 2A/1.67A |
| Photometric Specifications |                         |         |             |             |             |          |
| LEDs                       | 3030 LED                |         |             |             |             |          |
| Ra                         | >70(>80,>90 optional)   |         |             |             |             |          |
| Luminous Efficiency        | 170lm/w                 | 165lm/w | 170lm/w     | 170lm/w     | 165lm/w     | 165lm/w  |
| Luminous Flux(±5%)         | 4950lm                  | 6400lm  | 7750lm      | 7750lm      | 9000lm      | 9000lm   |
| CCT                        | 3000K/4000K/5000K/6000K |         |             |             |             |          |
| LED Qty                    | 42pcs                   | 42pcs   | 64pcs       | 60pcs       | 64pcs       | 60pcs    |
| Mechanical Specifications  |                         |         |             |             |             |          |
| IP Rate                    | IP66                    |         |             |             |             |          |
| Working Environment        | -40℃~50℃,20%~90% RH     |         |             |             |             |          |
| Storage Temperature        | -45℃~55℃,10%~90% RH     |         |             |             |             |          |
| Body Material              | Aluminum 6063-T5        |         |             |             |             |          |
| Lens Material              | PC                      |         |             |             |             |          |
| Connector Size             | M15                     |         |             |             |             |          |
| Module Size(mm)            | 300x70x47               |         |             |             |             |          |

## Light Distribution Curve



# M14 3030 LED Light Module(70mm)



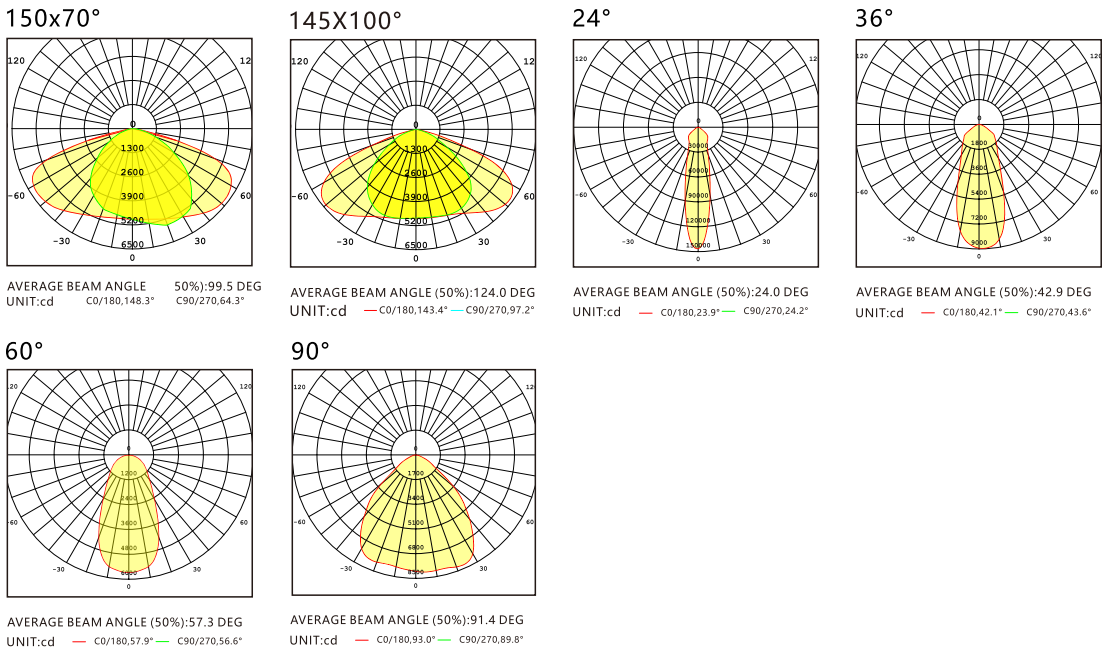
## Parameters

| Electric Data |        |       |             |             |             |          |
|---------------|--------|-------|-------------|-------------|-------------|----------|
| Model         | TL-M14 |       |             |             |             |          |
| Power         | 30W    | 40W   | 50W         | 50W         | 60W         | 60W      |
| Input Voltage | 36V    | 36V   | 42V/48V     | 30V/36V     | 42V/48V     | 30V/36V  |
| Input Current | 0.83A  | 1.11A | 1.20A/1.04A | 1.67A/1.39A | 1.43A/1.25A | 2A/1.67A |

| Photometric Specifications |                         |         |         |         |         |         |
|----------------------------|-------------------------|---------|---------|---------|---------|---------|
| LEDs                       | 3030 LED                |         |         |         |         |         |
| Ra                         | >70(>80,>90 optional)   |         |         |         |         |         |
| Luminous Efficiency        | 170lm/w                 | 165lm/w | 170lm/w | 170lm/w | 165lm/w | 165lm/w |
| Luminous Flux(±5%)         | 4950lm                  | 6400lm  | 7750lm  | 7750lm  | 9000lm  | 9000lm  |
| CCT                        | 3000K/4000K/5000K/6000K |         |         |         |         |         |
| LED Qty                    | 42pcs                   | 42pcs   | 64pcs   | 60pcs   | 64pcs   | 60pcs   |

| Mechanical Specifications |                     |
|---------------------------|---------------------|
| IP Rate                   | IP66                |
| Working Environment       | -40℃~50℃,20%~90% RH |
| Storage Temperature       | -45℃~55℃,10%~90% RH |
| Body Material             | Aluminum 6063-T5    |
| Lens Material             | PC                  |
| Connector Size            | M15                 |
| Module Size(mm)           | 300x70x47           |

## Light Distribution Curve





# Round LED Street Light Module



- Fin type desig with optical PC lens provide IP66 rate under super heat dissipation.
- Excellent operating temperature -40°C ~ 50°C.
- Customized structure design could be matched with traditional light source under standard housing fixture.

M32



M33



## Parameters

| Electric Data |                   |                   |
|---------------|-------------------|-------------------|
| Model         | TL-M32-10-15-3030 | TL-M33-25-30-3030 |
| Power         | 10W               | 25W               |
| Input Voltage | 30V               | 30V               |
| Input Current | 0.34A             | 0.83A             |

| Photometric Specifications |                         |                         |
|----------------------------|-------------------------|-------------------------|
| LEDs                       | 3030 LED                | 3030 LED                |
| Ra                         | >70                     | >70(>80,>90 optional)   |
| Luminous Efficiency        | 120lm/w                 | 120lm/w                 |
| Luminous Flux(±5%)         | 1200lm                  | 3000lm                  |
| CCT                        | 3000K/4000K/5000K/6000K | 3000K/4000K/5000K/6000K |
| LED Qty                    | 15pcs                   | 30pcs                   |

| Mechanical Specifications |                       |                       |
|---------------------------|-----------------------|-----------------------|
| IP Rate                   | IP66                  | IP66                  |
| Working Environment       | -40°C~50°C,20%~90% RH | -40°C~50°C,20%~90% RH |
| Storage Temperature       | -45°C~55°C,10%~90% RH | -45°C~55°C,10%~90% RH |
| Body Material             | Aluminum6063-T5       | Aluminum6063-T5       |
| Lens Material             | PC                    | PC                    |
| Connector Size            | M15                   | M15                   |
| Module Size(mm)           | Ø75xH75               | Ø100xH98.5            |

## Light Distribution Curve

