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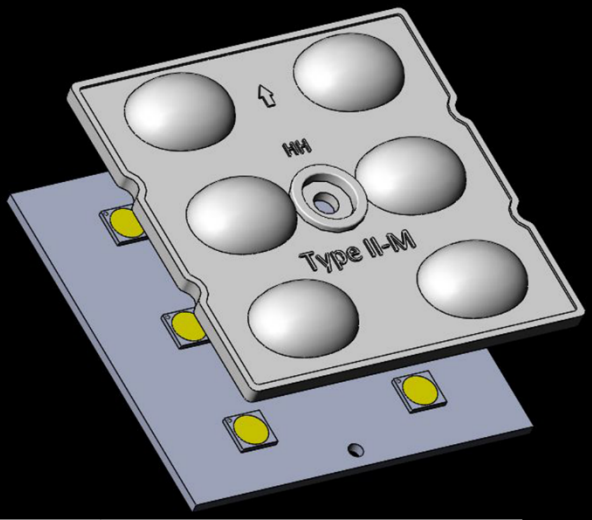
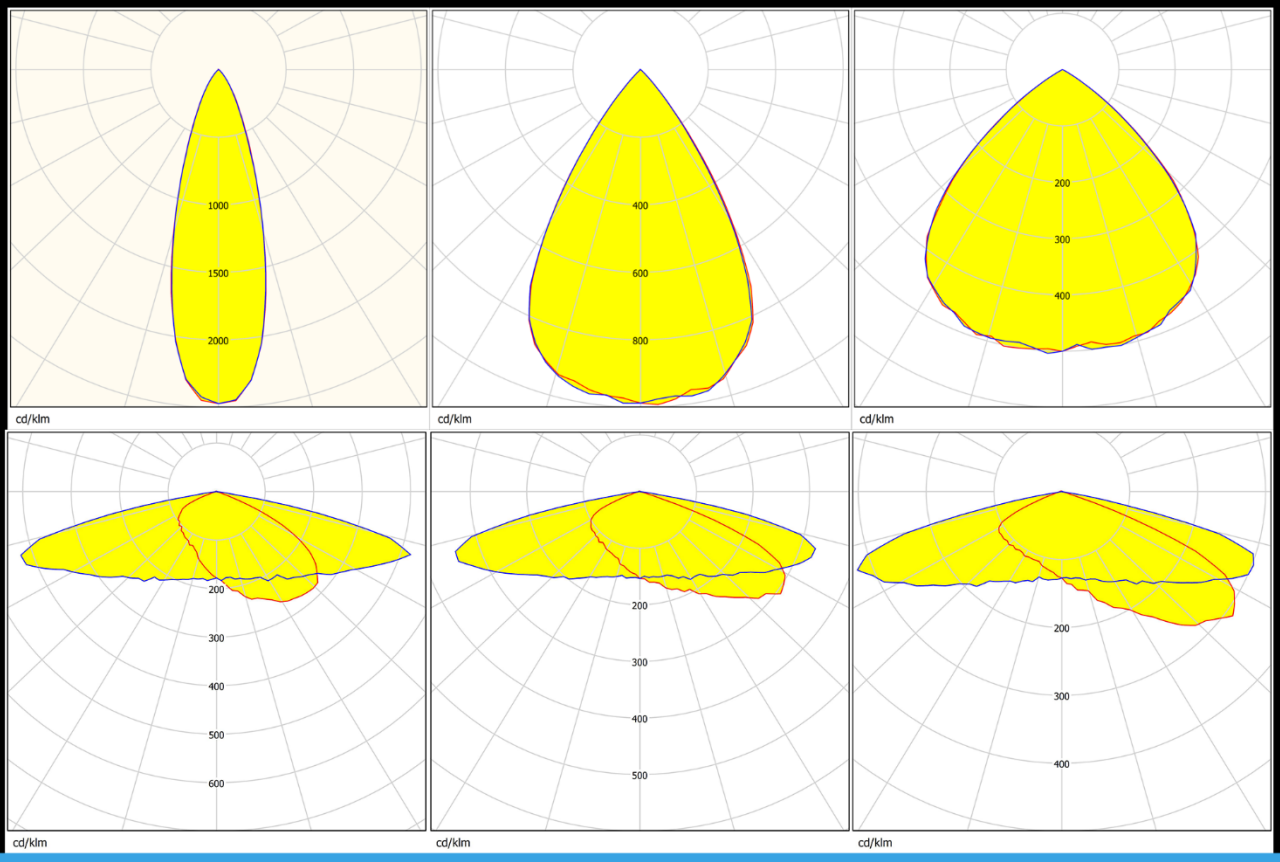
# Data Sheet

## HH-235-6×1-xx-PH5050




**深圳市汉辉光电有限公司**
shenzhen hanhui photoelectric co.,Ltd.
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# Data Sheet
## catalogue

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v1.0_20181107



***Product Nomenclature**

**HH-235-6×1-xx-PH5050**

H1 H2 H3 H4 H5 H6 H7

H1：The company's initials in Pinyin（Han Hui）

H2：Mold number

H3：Lens quantity

H4：The number of lamp beads inside each optical surface

H5：Lens angle/type（ex：60、90、T2M、T3M）

H6：LED type（ex：CREE-CR、SAMSUNG-SS、PHILIPS-PH……）

H7：LED size（ex:2835、3030、3535、……）


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# HH-235-6×1-xx-PH5050
# General Information

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## Features & Typical Applications

- Available with 6 beam angles
- High efficiency
- optimized Uniformity
- Lens without Holder
- Roadway Lighting
- Flood Light

## Material Information

Lens Material: PC 1225Z

Operating Temperature range -40℃~+110℃(upper limit +120℃).

Storage Temperature range -40℃~+110℃(upper limit +120℃).

*Average transmittance in visible spectrum 400nm~700nm>90%.

## Usage and Maintenance

1. If necessary, clean lenses with mild soap, water and soft cloth.
2. Never use any commercial cleaning solvents on lenses, like alcohol.
3. Please handle or install lenses with wearing gloves, skin oils may damage lens or its optical characteristic.



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# HH-235-6×1-xx-PH5050
# Optical Specifications

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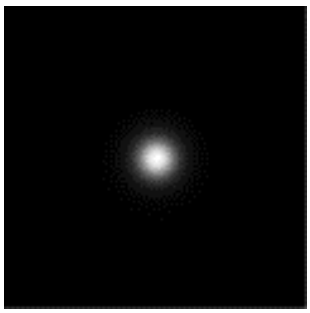
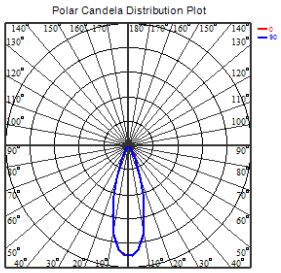
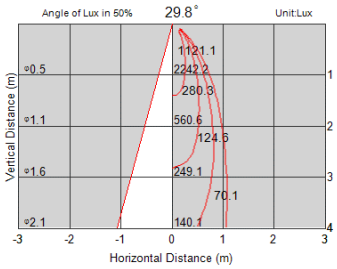
| Part Number | FWHM | Field Angle* | cd/lm | IES File |
|---|---|---|---|---|
| HH-235-6×1-30-PH5050 | 31.1° | 60.2° | 2.76 | Download |

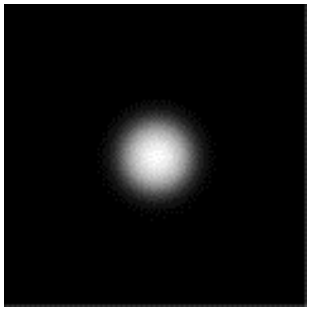


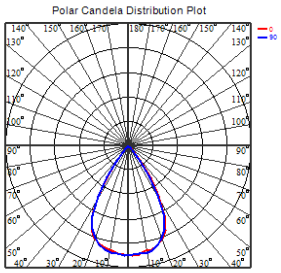


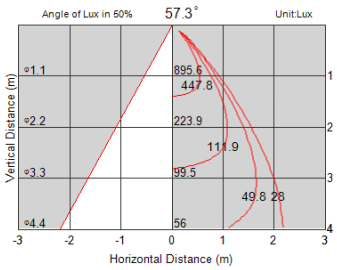




Beam Pattern | Candela Distribution | Illuminance Distribution

| Part Number | FWHM | Field Angle* | cd/lm | IES File |
|---|---|---|---|---|
| HH-235-6×1-60-PH5050 | 63.0° | 82.0° | 1.07 | Download |

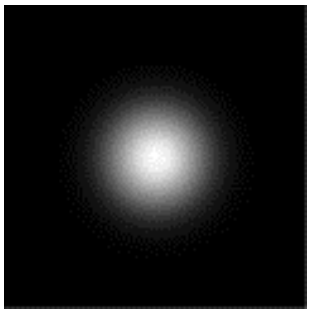


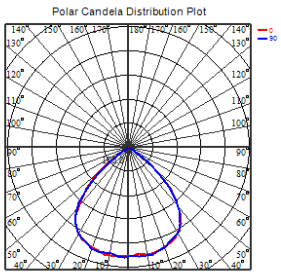


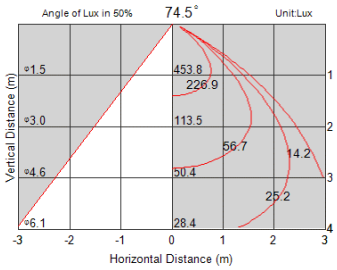




Beam Pattern | Candela Distribution | Illuminance Distribution

| Part Number | FWHM | Field Angle* | cd/lm | IES File |
|---|---|---|---|---|
| HH-235-6×1-90-PH5050 | 92.2° | 113.6° | 0.54 | Download |






Beam Pattern | Candela Distribution | Illuminance Distribution



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# HH-235-6×1-xx-PH5050
# Optical Specifications

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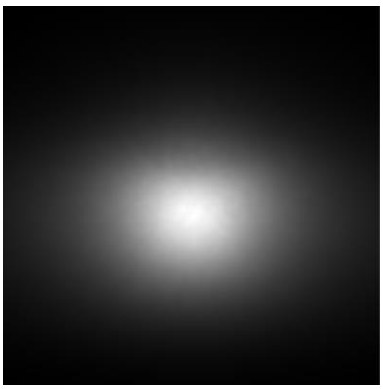
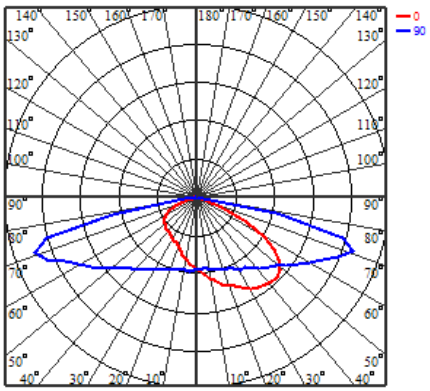
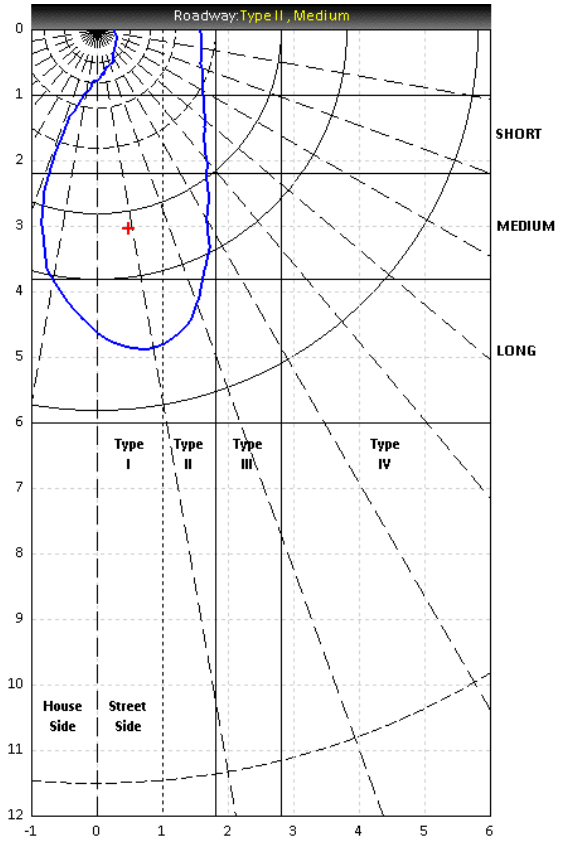
| Part Number | FWHM | Candela Distribution Type | IES File |
|---|---|---|---|
| HH-235-6×1-T2M-PH5050 | 80×150 | Type II Medium | Download |

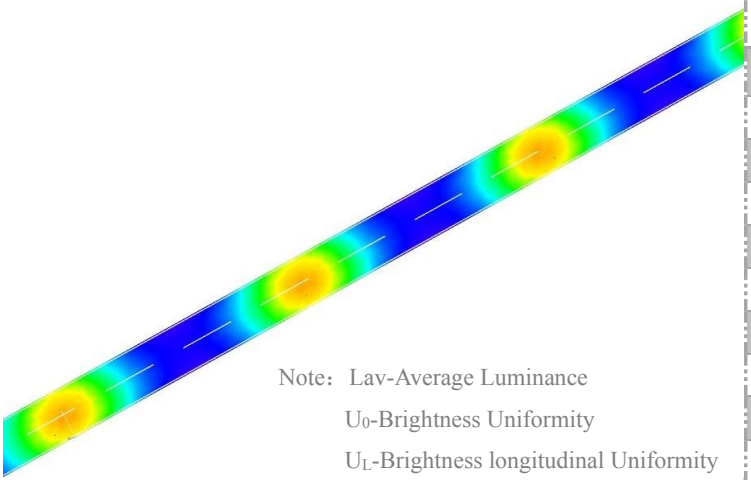


Polar Candela Distribution Plot




**DIALux Simulation Result** （two lanes、R3W3、ME4a）



Note：Lav-Average Luminance
$U_0$-Brightness Uniformity
$U_L$-Brightness longitudinal Uniformity
TI-Threshold increment
SR-Surround ratio

| Recommend configuration condition | |
|---|---|
| Luminous Flux | 17500lm |
| Lamp Collocation | Unilateral |
| Height | 10m |
| Distance | 40m |
| Roadwidth | 7.5m |
| Elevation | 0° |
| Overhang | 1m |
| Result | |
| Lav | 1.29 |
| $U_0$ | 0.52 |
| $U_L$ | 0.83 |
| TI(%) | 12 |
| SR | 0.76 |



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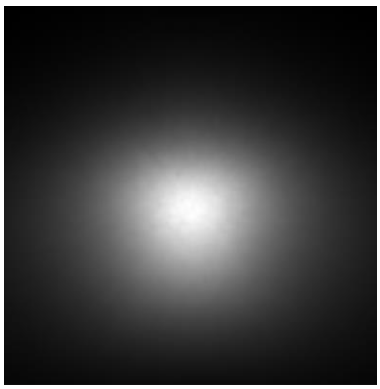
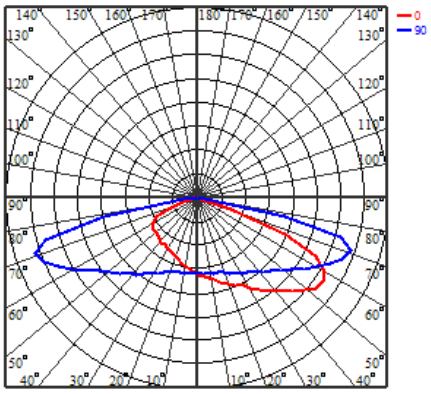
# HH-235-6×1-xx-PH5050
# Optical Specifications

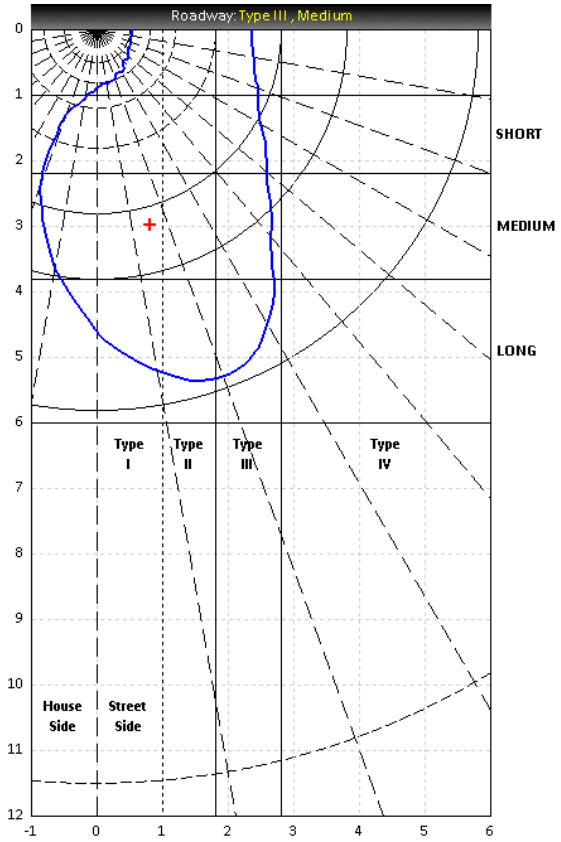
v1.0_20181107

| Part Number | FWHM | Candela Distribution Type | IES File |
|---|---|---|---|
| HH-235-6×1-T3M-PH5050 | 70×150 | Type III Medium | Download |

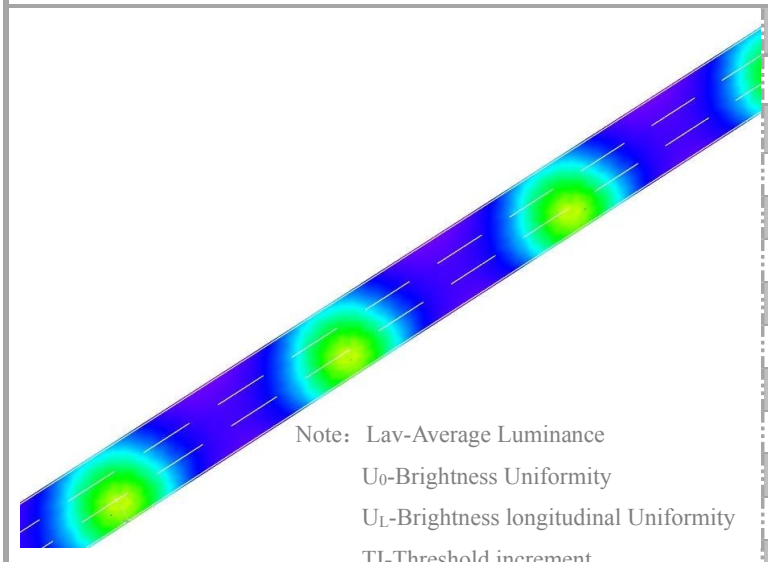


Polar Candela Distribution Plot




**DIALux Simulation Result** （three lanes、R3W3、ME4a）



Note：Lav-Average Luminance
$U_0$-Brightness Uniformity
$U_L$-Brightness longitudinal Uniformity
TI-Threshold increment
SR-Surround ratio

| Recommend configuration condition | |
|---|---|
| Luminous Flux | 17500lm |
| Lamp Collocation | Unilateral |
| Height | 10m |
| Distance | 40m |
| Roadwidth | 11.25m |
| Elevation | 0° |
| Overhang | 1m |
| Result | |
| Lav | 0.89 |
| $U_0$ | 0.45 |
| $U_L$ | 0.82 |
| TI(%) | 13 |
| SR | 0.73 |



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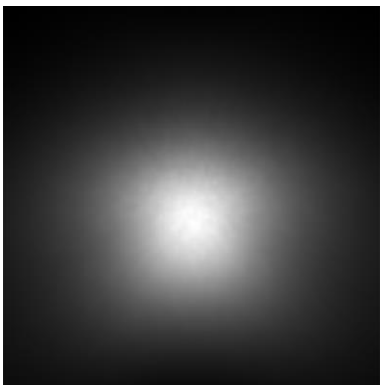
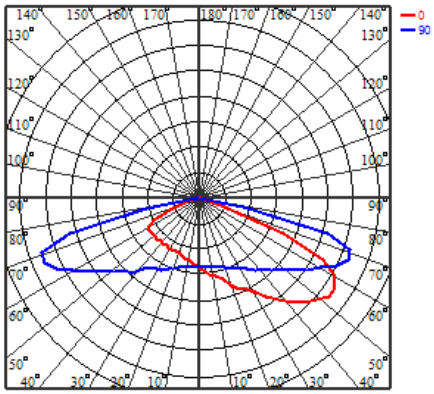
# HH-235-6×1-xx-PH5050
# Optical Specifications

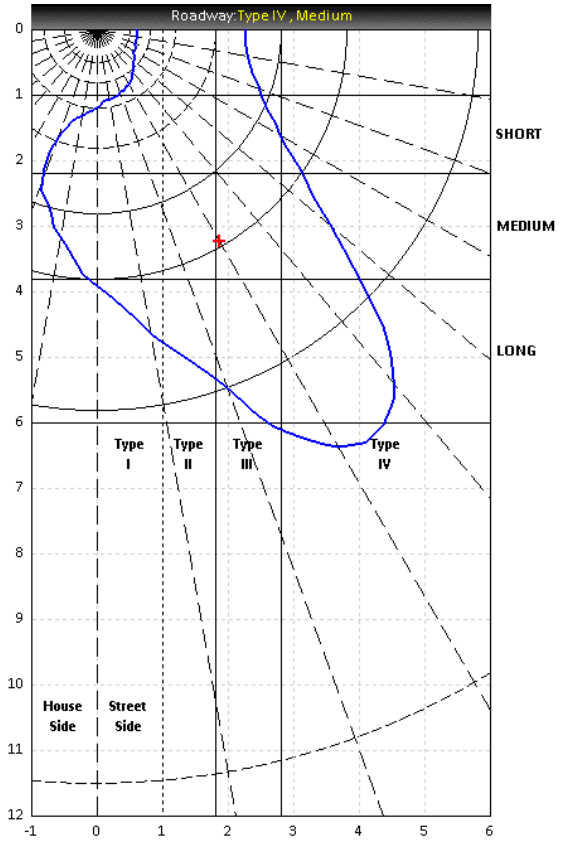
v1.0_20181107

| Part Number | FWHM | Candela Distribution Type | IES File |
|---|---|---|---|
| HH-235-6×1-T4M-PH5050 | 60×155 | Type IV Medium | Download |

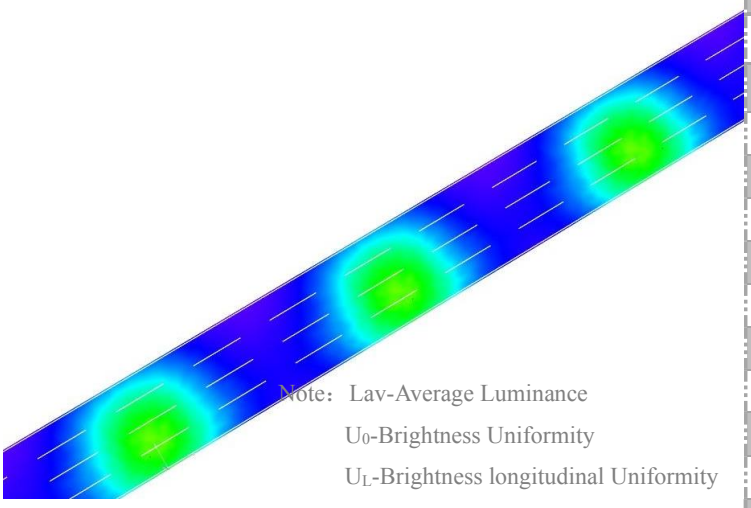


Polar Candela Distribution Plot




**DIALux Simulation Result** （four lanes、R3W3、ME4a）



Note：Lav-Average Luminance
$U_0$-Brightness Uniformity
$U_L$-Brightness longitudinal Uniformity
TI-Threshold increment
SR-Surround ratio

| Recommend configuration condition | |
|---|---|
| Luminous Flux | 17500lm |
| Lamp Collocation | Unilateral |
| Height | 12m |
| Distance | 42m |
| Roadwidth | 15m |
| Elevation | 0° |
| Overhang | 1m |
| Result | |
| Lav | 0.83 |
| $U_0$ | 0.46 |
| $U_L$ | 0.78 |
| TI(%) | 11 |
| SR | 0.78 |



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# HH-235-6×1-xx-PH5050
# Mechanical Specification

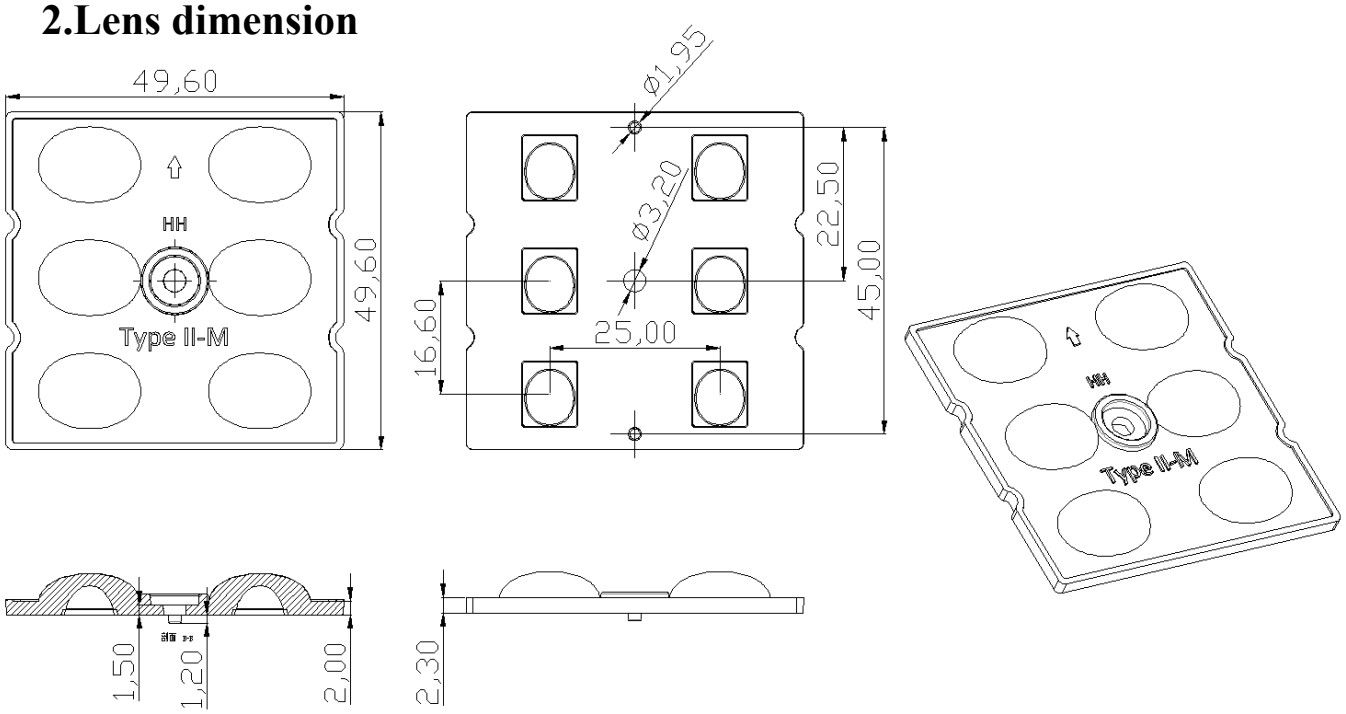
v1.0_20181107

## 1.Fixing method

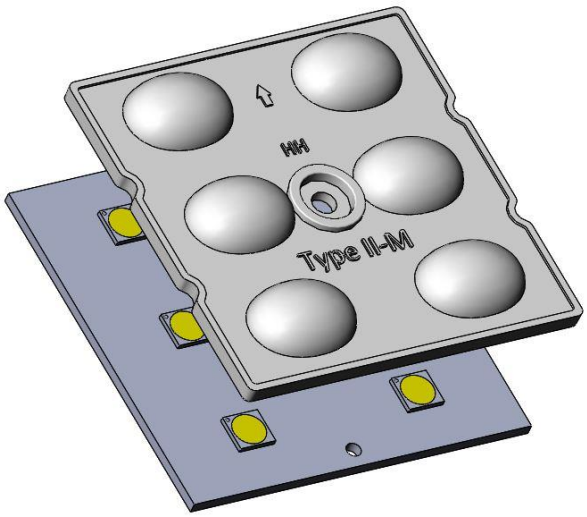
Note:（1）All dimensions are in mm.
（2）All measurements are ±0.15mm unless otherwise indicated.

☐ Glue ■ Screw ☐ Tape ☐ Fixing-ring ☐ Frame

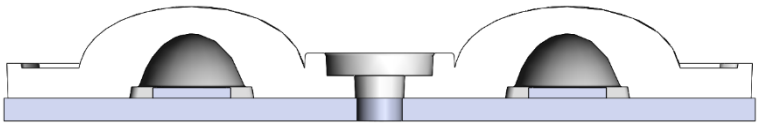
## 2.Lens dimension




## 3.Assembly instruction




## 4.View assembly lens with MCPCB





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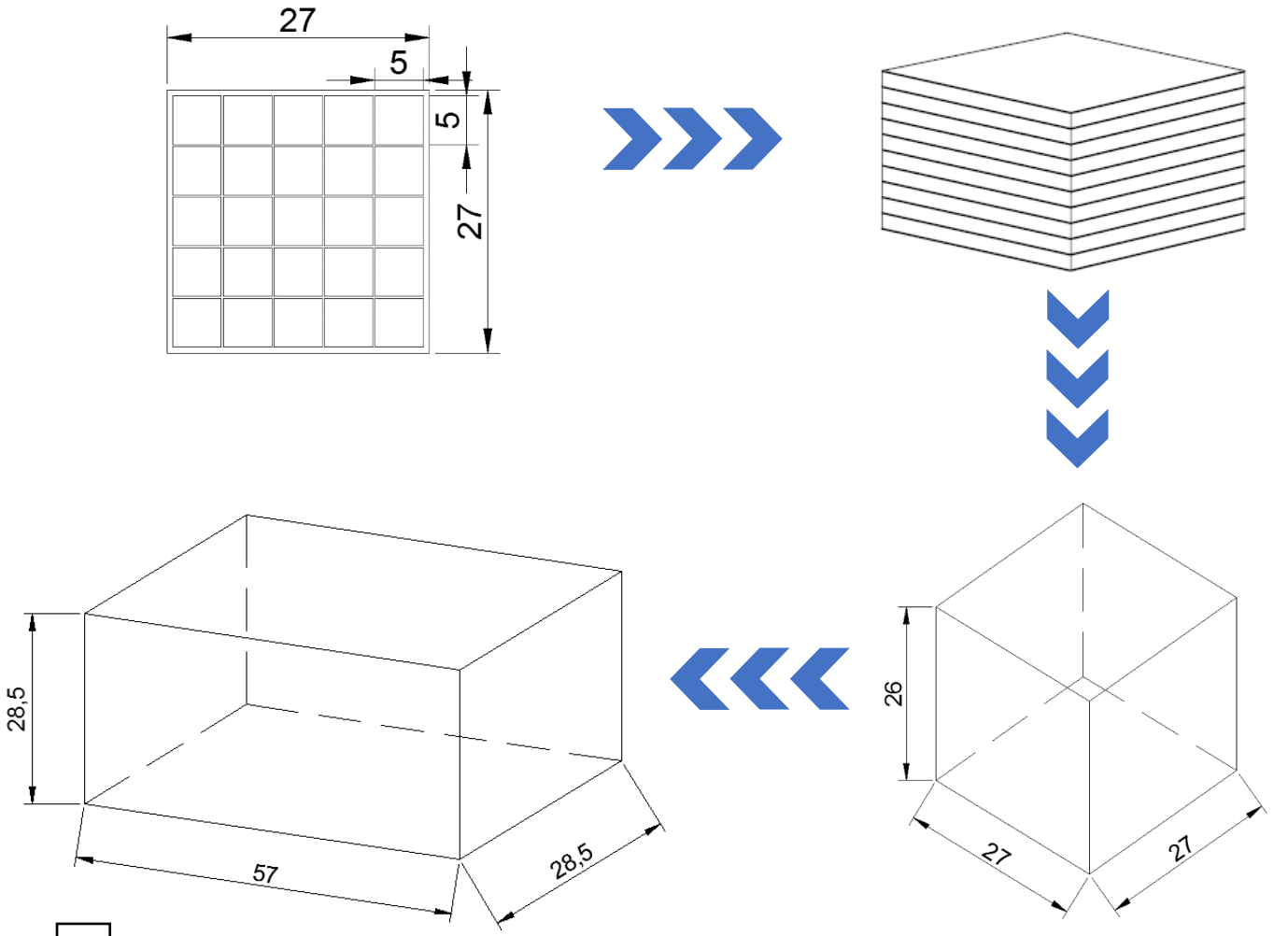
# HH-235-6×1-xx-PH5050
# Package Specifications



| Item | Quantity | Total | Size(L*W*H) | G.W |
|---|---|---|---|---|
| **plastic box** | 25 PCS/tier | 1000 PCS | 27*27*26cm | |
| **outer box** | 2 plastic box/outer box | 2000 PCS | 57*28.5*28.5cm | |

Note： The total number of packages shown in the table is only Type III Medium lenses. Because the lens height is different, the total number is different, there is no detailed list.




Note:



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