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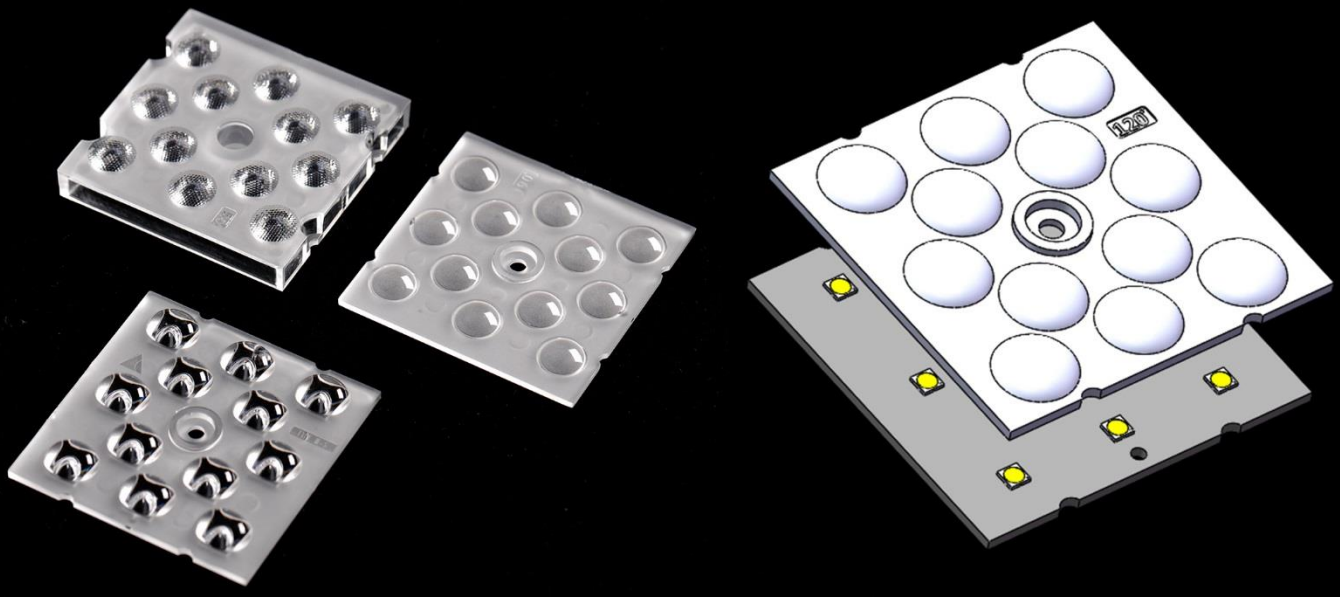
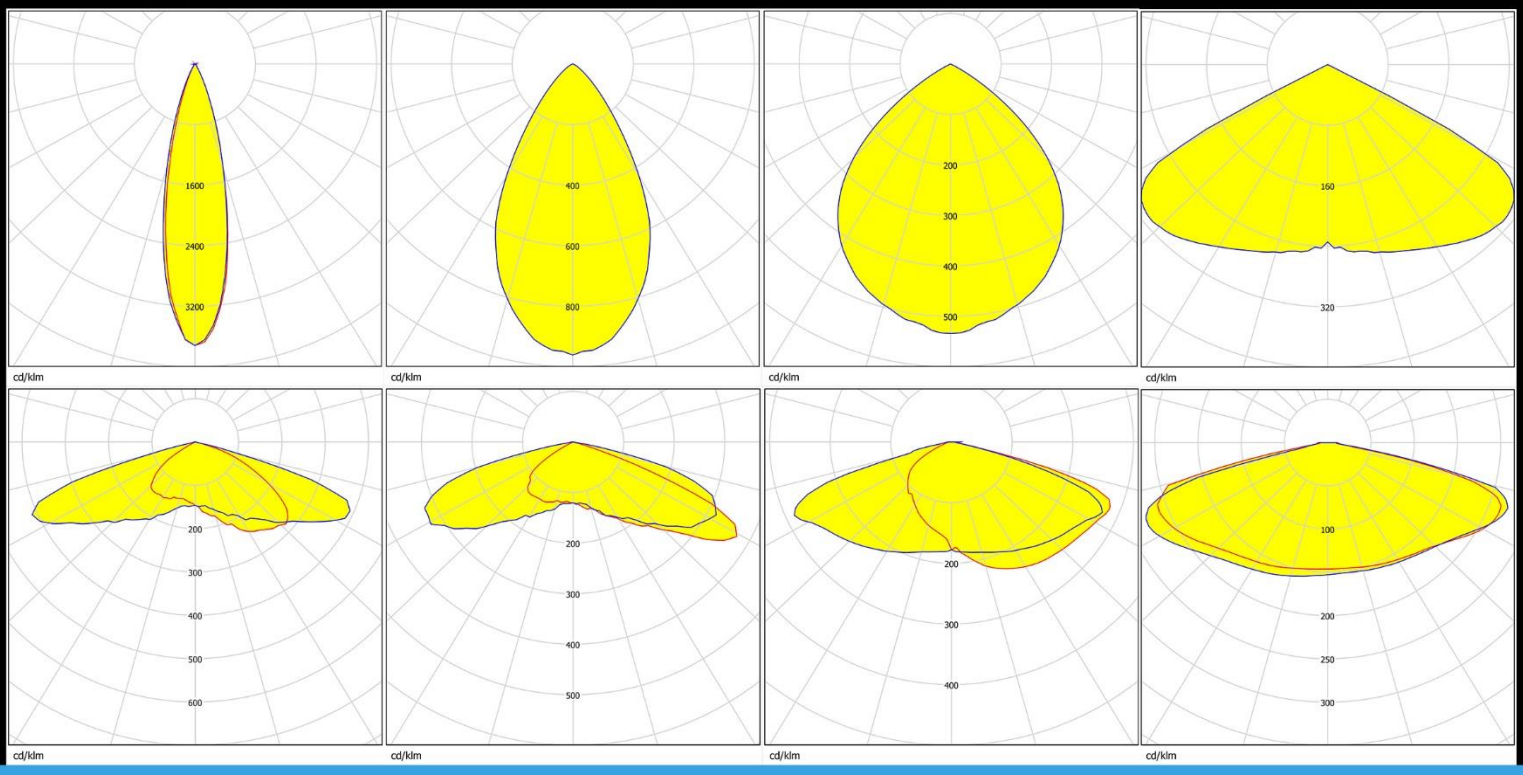
Data Sheet

HH-93-12×1-xx-PH3030





深圳市汉辉光电有限公司
shenzhen hanhui photoelectric co.,Ltd.
地址：深圳市宝安区石岩街道石龙仔社区恒昌荣高科技园3栋3楼
ADD: Area A No.3 Building 3th Floor,Hengchang Rong Industrial park shiyan,shilong community,Bao'an District,shenzhen,china
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Data Sheet
catalogue

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v1.0_20180621

***Product Nomenclature**

HH-93-12×1-xx-PH3030

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-93-12×1-xx-PH3030
General Information

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Features & Typical Applications

- Available with 8 beam angles
- High efficiency
- optimized Uniformity
- Lens without Holder

- Roadway Lighting
- Park Lighting
- Commercial Lighting

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-93-12×1-xx-PH3030
Optical Specifications

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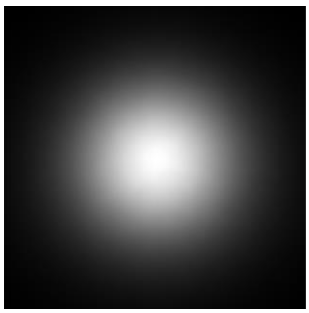
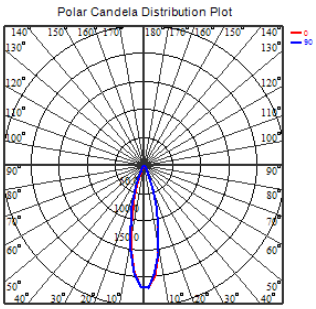
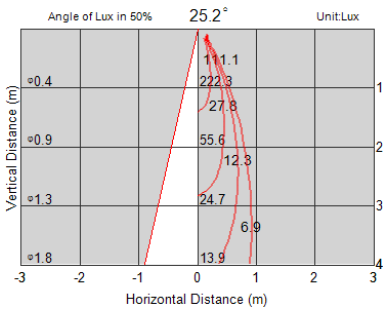
Part Number	FWHM	Field Angle*	cd/lm	IES File
HH-93-12×1-25-PH3030	25°	47°	3.72	Download

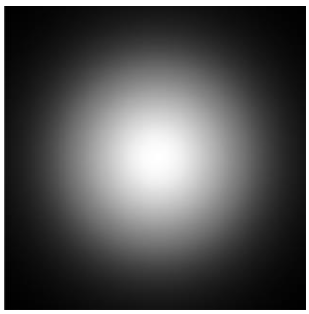


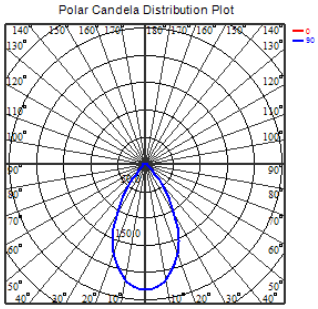


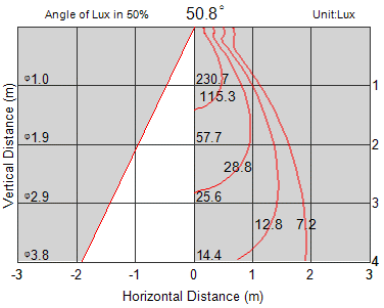


Beam Pattern | Candela Distribution | Illuminance Distribution

Part Number	FWHM	Field Angle *	cd/lm	IES File
HH-93-12×1-55-PH3030	58°	91.6°	1.08	Download

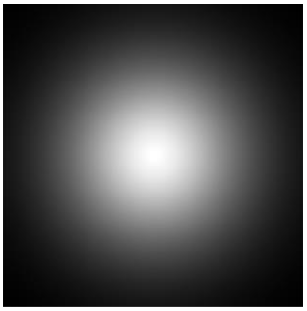


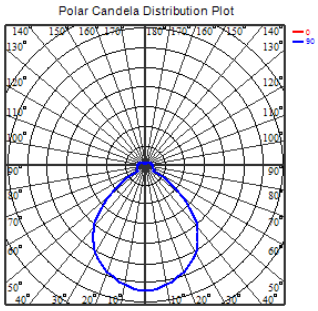


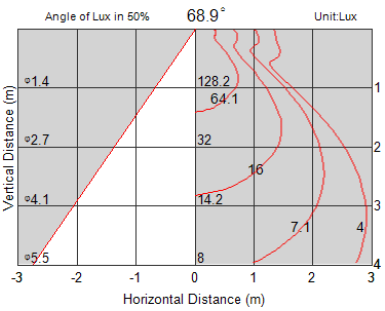


Beam Pattern | Candela Distribution | Illuminance Distribution

Part Number	FWHM	Field Angle *	cd/lm	IES File
HH-93-12×1-90-PH3030	91.8°	119°	0.56	Download







Beam Pattern | Candela Distribution | Illuminance Distribution

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HH-93-12×1-xx-PH3030
Optical Specifications

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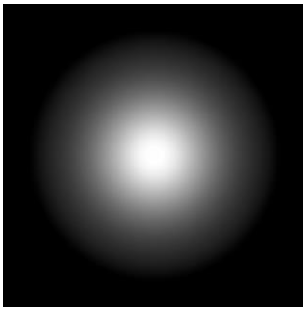
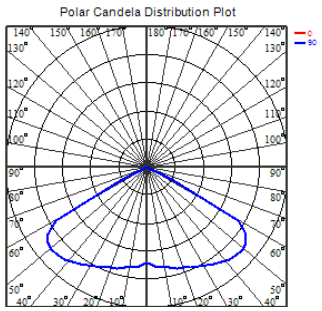
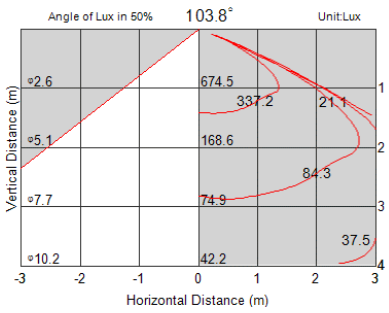
Part Number	FWHM	Field Angle*	cd/lm	IES File
HH-93-12×1-120-PH3030	125.5°	127.6°	0.32	Download



Beam Pattern

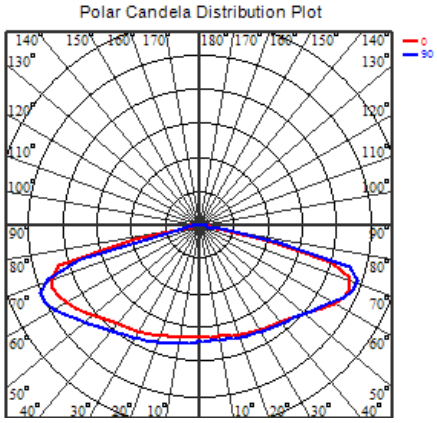


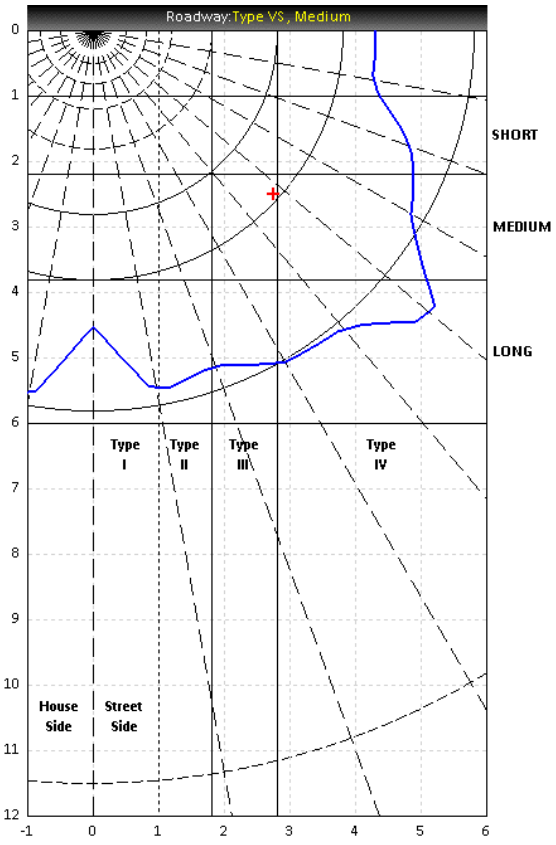
Candela Distribution



Illuminance Distribution

Part Number	FWHM	Candela Distribution Type	IES File
HH-93-12×1-T5M-PH3030	150°	Type V Medium	Download





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HH-93-12×1-xx-PH3030
Optical Specifications

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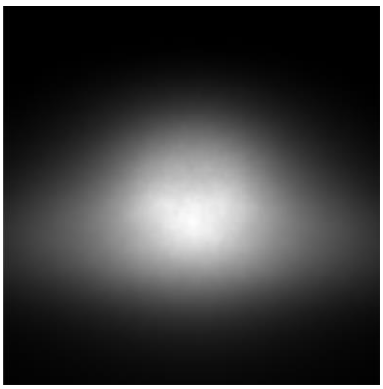
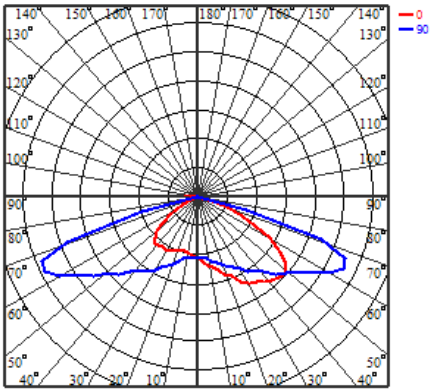
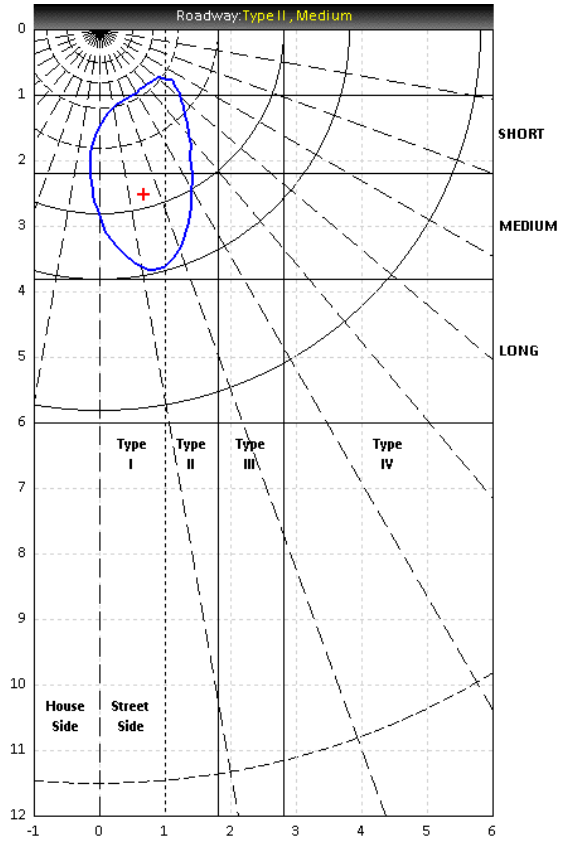
Part Number	FWHM	Candela Distribution Type	IES File
HH-93-12×1-T2M-PH3030	65×145	Type II Medium	Download

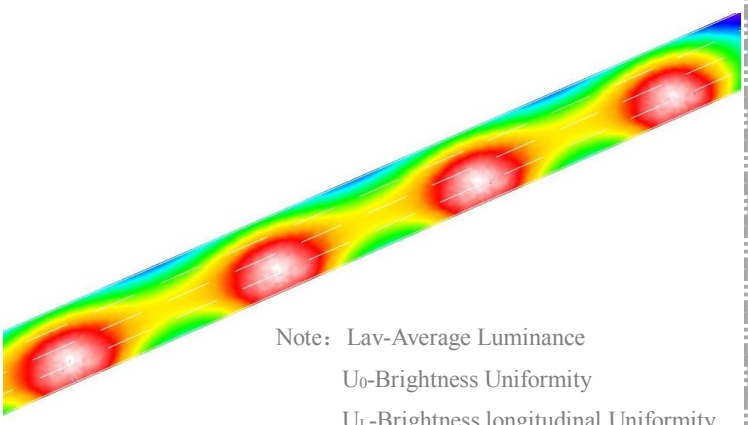


Polar Candela Distribution Plot





DIALux Simulation Result （four lanes、R1W3、ME3a）



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

Recommend configuration condition	
Luminous Flux	144001m
Lamp Collocation	Unilateral
Height	10m
Distance	40m
Roadwidth	14m
Elevation	0°
Overhang	1m
Result	
Lav	1.14
U_0	0.52
U_L	0.86
TI(%)	12
SR	0.57

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HH-93-12×1-xx-PH3030
Optical Specifications

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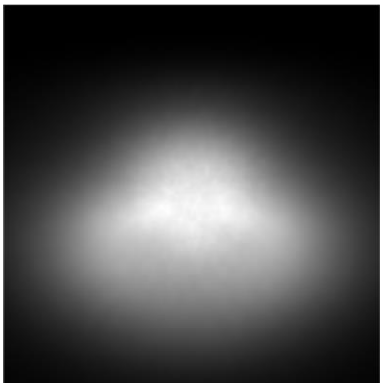
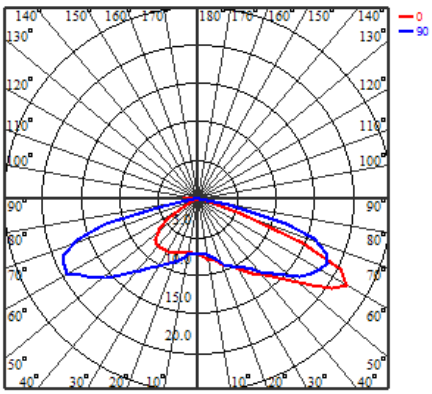
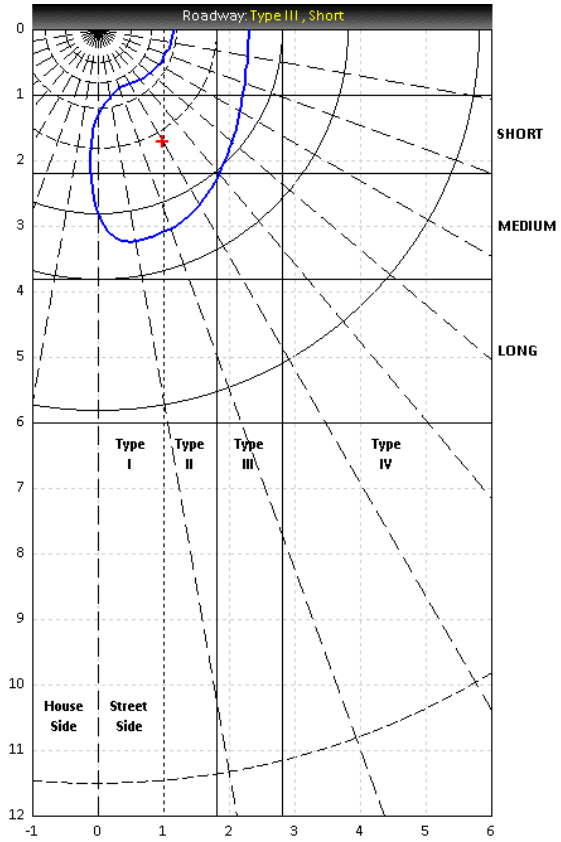
Part Number	FWHM	Candela Distribution Type	IES File
HH-93-12×1-T3S-PH3030	40×150	Type III Short	Download

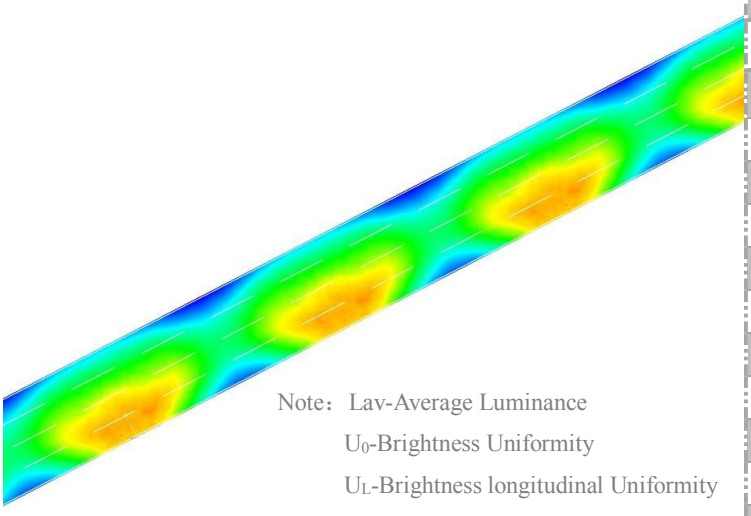


Polar Candela Distribution Plot





DIALux Simulation Result （four lanes、R1W3、ME3a）



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	16m
Elevation	0°
Overhang	1m
Result	
Lav	1.20
U_0	0.59
U_L	0.83
TI(%)	9
SR	0.64

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HH-93-12×1-xx-PH3030
Optical Specifications

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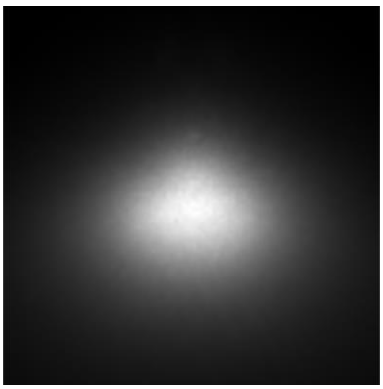
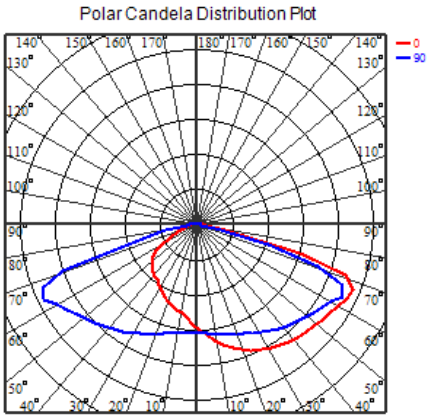
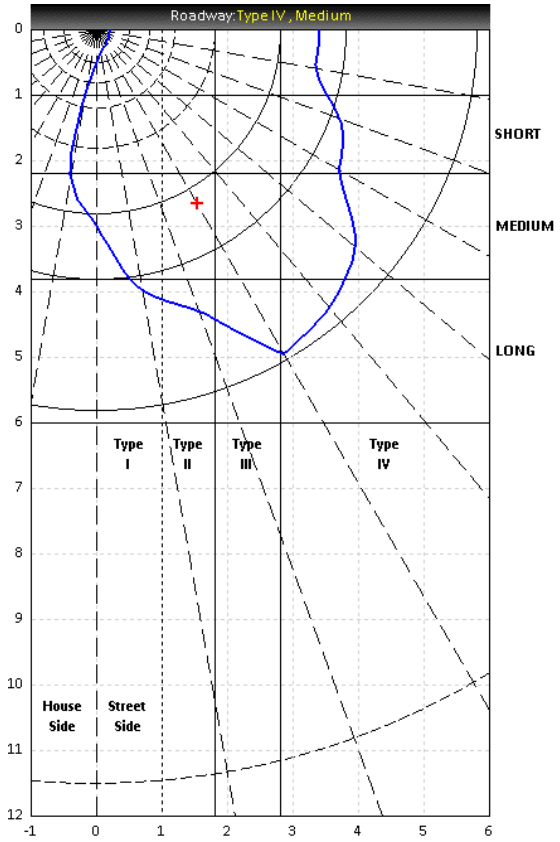
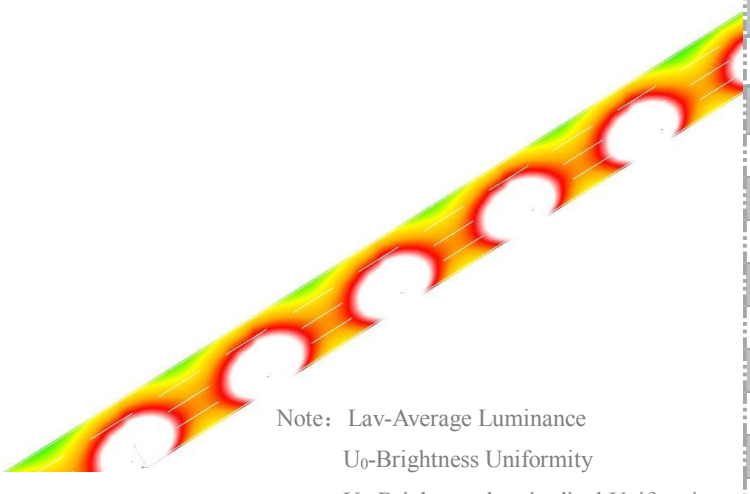
Part Number	FWHM	Candela Distribution Type	IES File
HH-93-12×1-T4M-PH3030	85×143	Type IV Medium	Download







DIALux Simulation Result （four lanes、R1W3、ME3a）



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	25m
Roadwidth	12m
Elevation	0°
Overhang	1m
Result	
Lav	2.00
U_0	0.64
U_L	0.73
TI(%)	6
SR	0.63

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HH-93-12×1-xx-PH3030
Mechanical Specification

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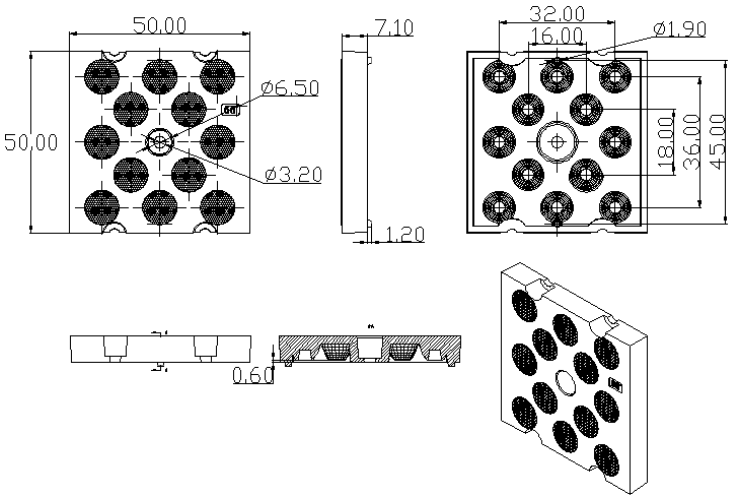
1.Fixing method

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

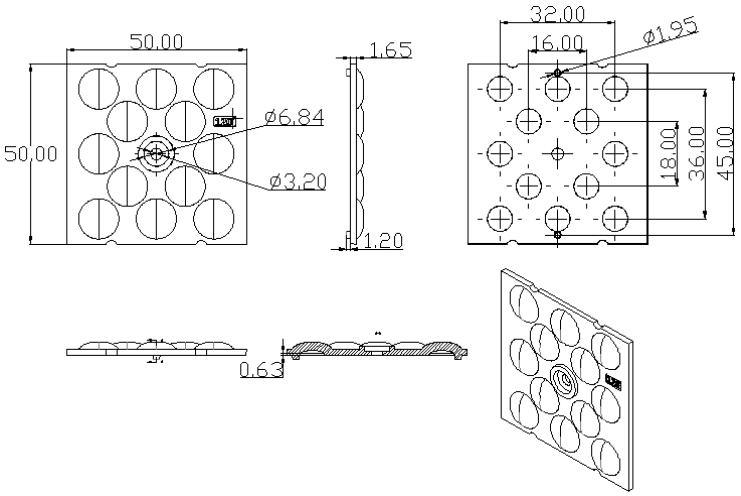
☐ Glue ■ Screw ☐ Tape ☐ Fixing-ring ☐ Frame

2.Lens dimension

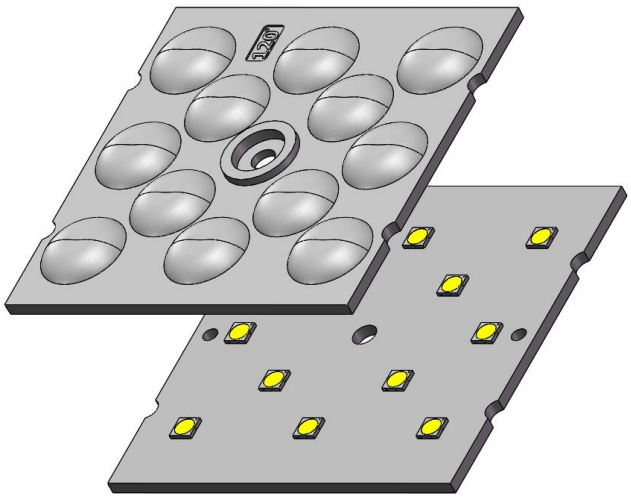
HH-93-12×1-25/55-PH3030：



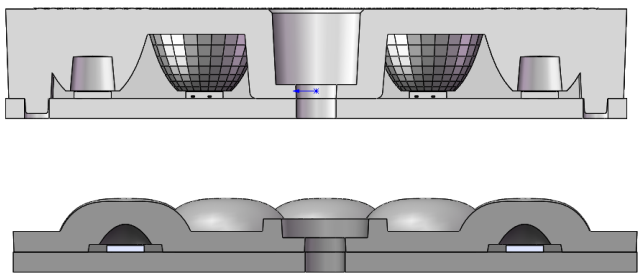
HH-93-12×1-90/120/$T_{2\text{-}5}$-PH3030：



3.Assembly instruction



4.View assembly lens with MCPCB



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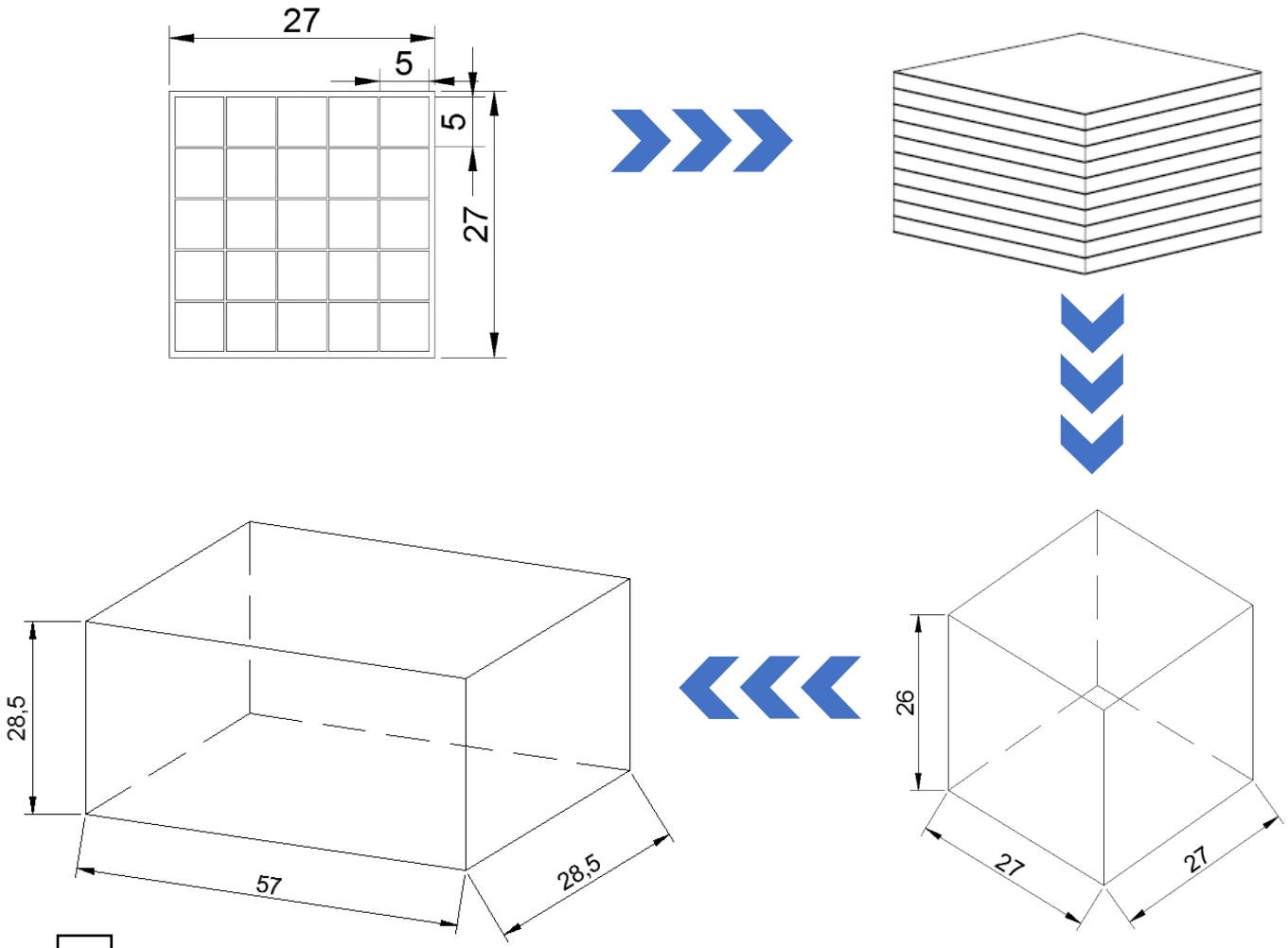
HH-93-12×1-xx-PH3030
Package Specifications

v1.0_20180621

Item	Quantity	Total	Size(L*W*H)	G.W
plastic box	25 PCS/tier	1350 PCS	27*27*26cm	
outer box	2 plastic box/outer box	2700 PCS	57*28.5*28.5cm	

Note：The total number of packages shown in the table is only 120 degree lenses. Because the lens height is different, the total number is different, there is no detailed list.



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