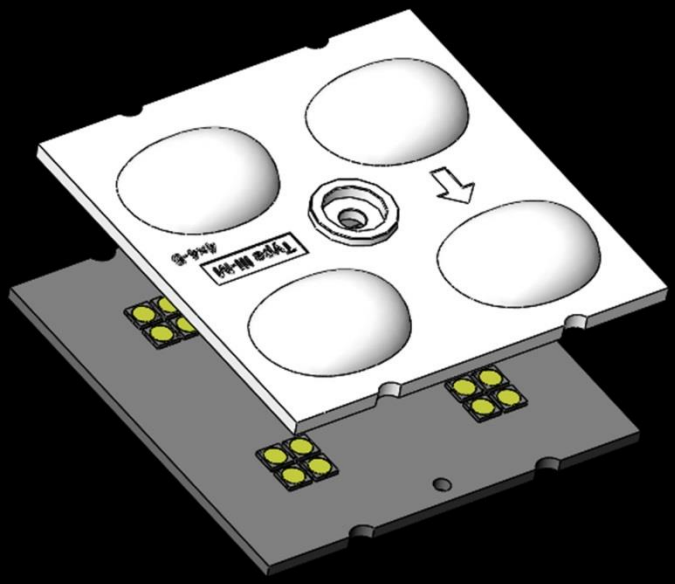
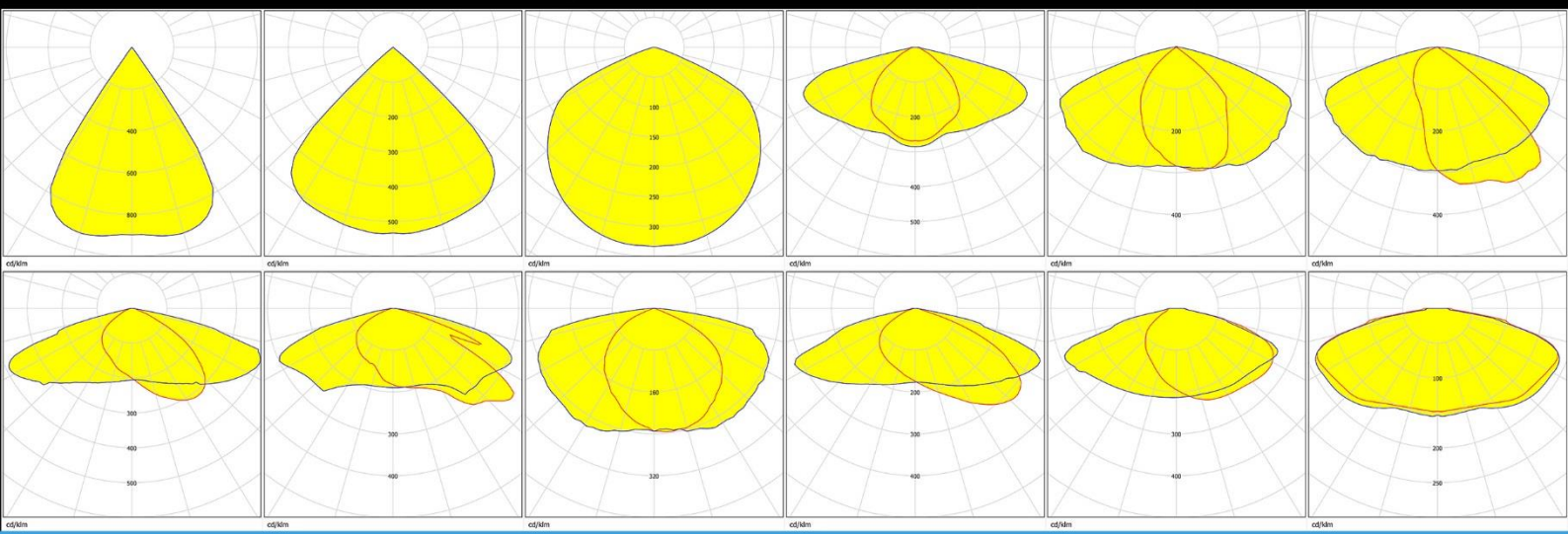
HANHUI® 汉辉

让 光 更 完 美

Data Sheet

HH-116-4×4-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

TEL:86-755-29232420 FAX:86-755-83723765

http://www.szhanhui.com http://linsen4880.1688.com

Data Sheet
catalogue

HANHUI 汉辉 让光更完美

v1.0_20180709

General Information ·····P.1

Optical Specifications ·····P.2-7

Mechanical Specifications ·····P.8

Package Specifications ·····P.9

***Product Nomenclature**

HH-116-4×4-xx-A-PH3030

H1 H2 H3 H4 H5 H6 H7 H8

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：Same light distribution type different Angle

H7：LED type（ex：CREE-CR、SAMSUNG-SS、PHILIPS-PH……）

H8：LED size（ex:2835、3030、3535、……）

ADD: Area A No.3 Building 3th Floor,Hengchang Rong Industrial park
shiyan,shilong community,Bao'an District,shenzhen,china
TEL : 86-755-29232420 FAX : 86-755-83723765
http://www.szhanhui.com http://linsen4880.1688.com

HH-116-4×4-xx-PH3030
General Information

v1.0_20180709

Features & Typical Applications

- Available with 12 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

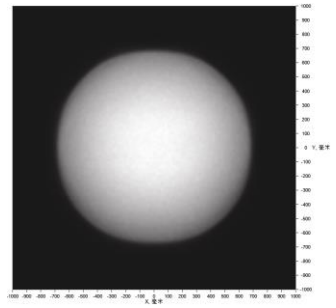
1. If necessary, clean lenses with mild soap, water and soft cloth.
2. Never use any commercial cleaning solvents on lenses, like alcohol.
3. Please handle or install lenses with wearing gloves, skin oils may damage lens or its optical characteristic.

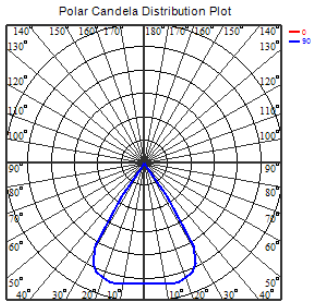
ADD: Area A No.3 Building 3th Floor,Hengchang Rong Industrial park
shiyan,shilong community,Bao'an District,shenzhen,china
TEL : 86-755-29232420 FAX : 86-755-83723765
http://www.szhanhui.com http://linsen4880.1688.com

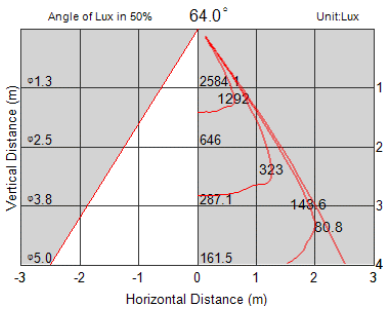
HH-116-4×4-xx-PH3030
Optical Specifications

v1.0_20180709

Part Number	FWHM	Field Angle*	cd/lm	IES File
HH-116-4×4-60-PH3030	67°	71.6°	1.00	Download

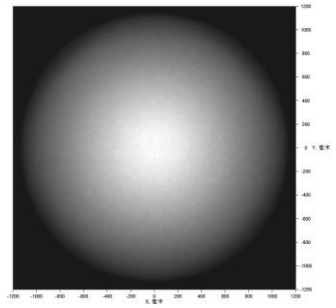


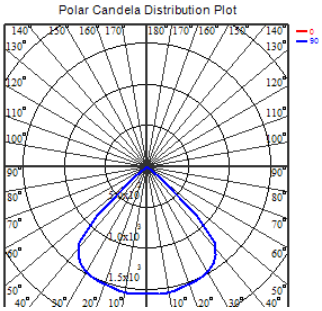


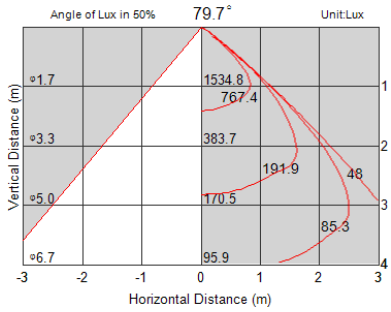


Beam Pattern | Candela Distribution | Illuminance Distribution

Part Number	FWHM	Field Angle *	cd/lm	IES File
HH-116-4×4-90-PH3030	91.5°	99°	0.56	Download

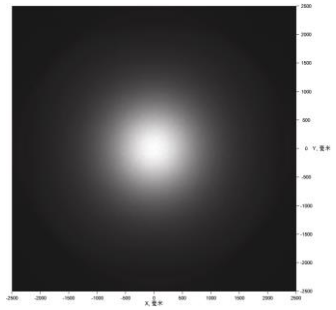


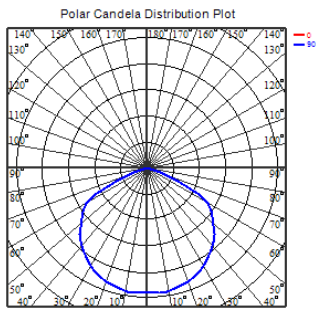


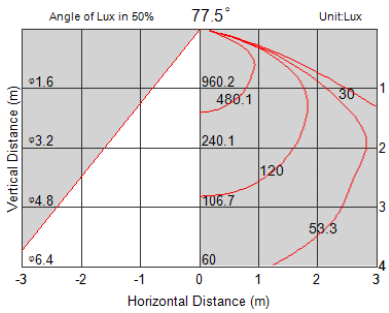


Beam Pattern | Candela Distribution | Illuminance Distribution

Part Number	FWHM	Field Angle *	cd/lm	IES File
HH-116-4×4-120-PH3030	125.4°	142.4°	0.35	Download







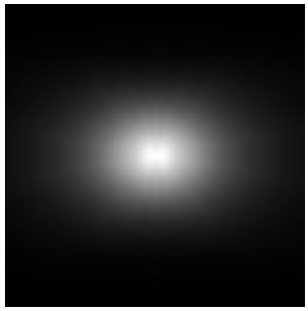
Beam Pattern | Candela Distribution | Illuminance Distribution

ADD: Area A No.3 Building 3th Floor,Hengchang Rong Industrial park
shiyan,shilong community,Bao'an District,shenzhen,china
TEL : 86-755-29232420 FAX : 86-755-83723765
http://www.szhanhui.com http://linsen4880.1688.com

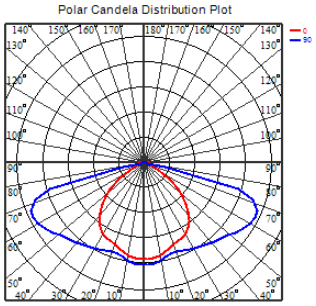
HH-116-4×4-xx-PH3030
Optical Specifications

v1.0_20180709

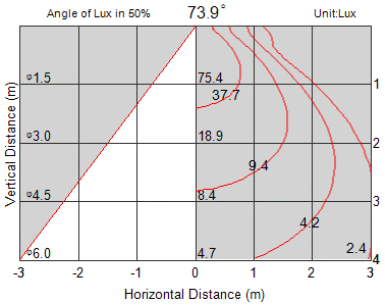
Part Number	FWHM	Candela Distribution Type	IES File
HH-116-4×4-90155-PH3030	90×155	Type I	Download



Beam Pattern

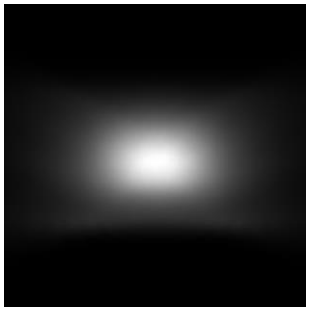


Candela Distribution

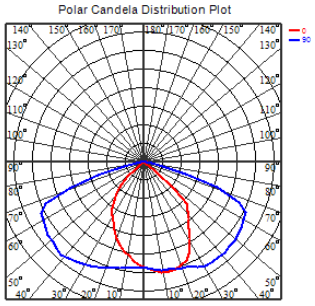


Illuminance Distribution

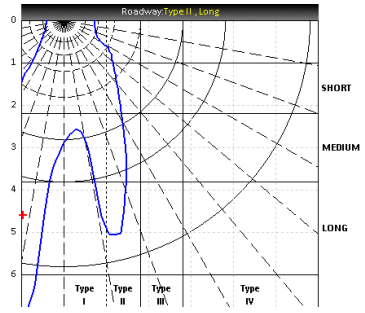
Part Number	FWHM	Candela Distribution Type	IES File
HH-116-4×4-T2L-PH3030	80×145	Type II-Long	Download



Beam Pattern

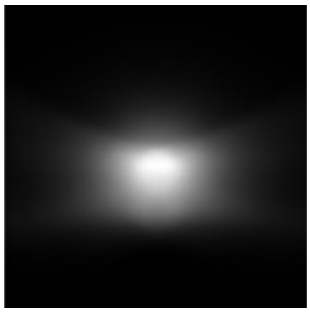


Candela Distribution

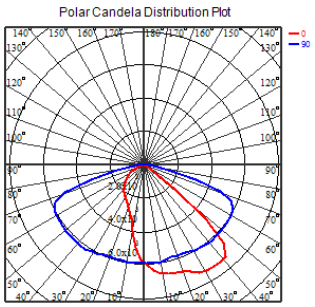


Candela Distribution Type

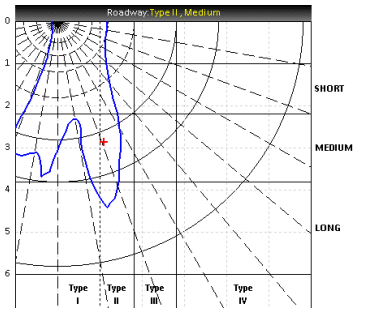
Part Number	FWHM	Candela Distribution Type	IES File
HH-116-4×4-T2M-PH3030	60×145	Type II Medium	Download



Beam Pattern



Candela Distribution



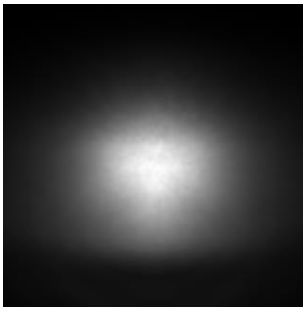
Candela Distribution Type

ADD: Area A No.3 Building 3th Floor,Hengchang Rong Industrial park
shiyan,shilong community,Bao'an District,shenzhen,china
TEL : 86-755-29232420 FAX : 86-755-83723765
http://www.szhanhui.com http://linsen4880.1688.com

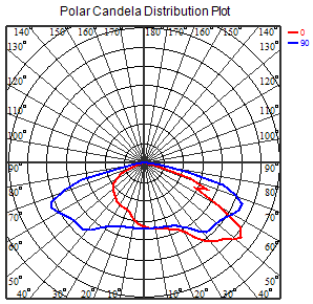
HH-116-4×4-xx-PH3030
Optical Specifications

v1.0_20180709

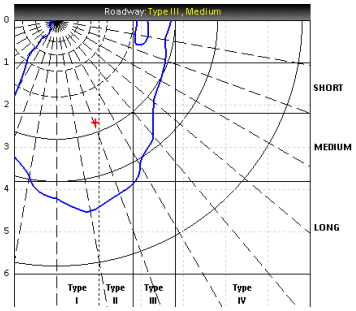
Part Number	FWHM	Candela Distribution Type	IES File
HH-116-4×4-T3M-PH3030	45×157	Type III Medium	Download



Beam Pattern

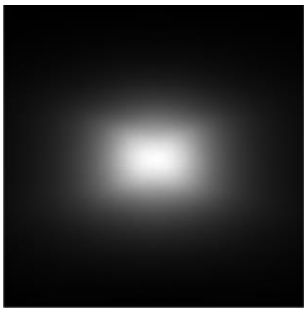


Candela Distribution

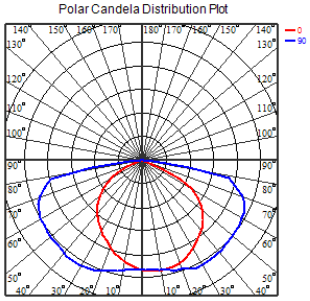


Candela Distribution Type

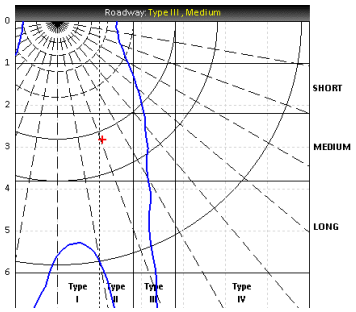
Part Number	FWHM	Candela Distribution Type	IES File
HH-116-4×4-T3M-A-PH3030	100×160	Type III Medium	Download



Beam Pattern

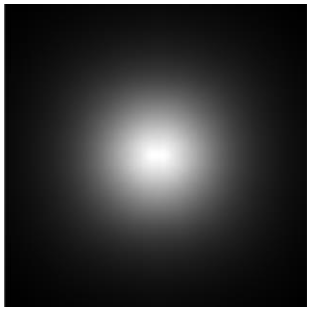


Candela Distribution

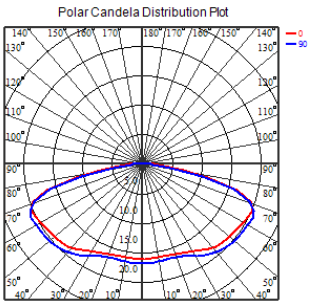


Candela Distribution Type

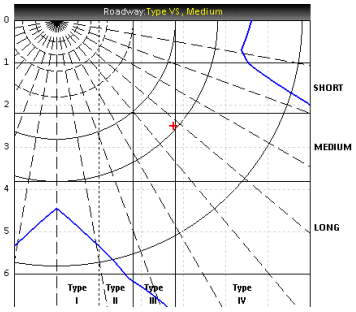
Part Number	FWHM	Candela Distribution Type	IES File
HH-116-4×4-T5M-PH3030	160°	Type V Medium	Download



Beam Pattern



Candela Distribution



Candela Distribution Type

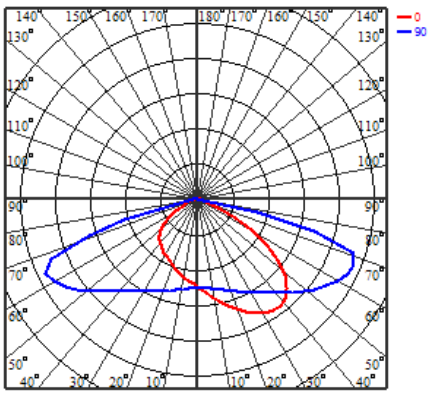
ADD: Area A No.3 Building 3th Floor,Hengchang Rong Industrial park
shiyan,shilong community,Bao'an District,shenzhen,china
TEL : 86-755-29232420 FAX : 86-755-83723765
http://www.szhanhui.com http://linsen4880.1688.com

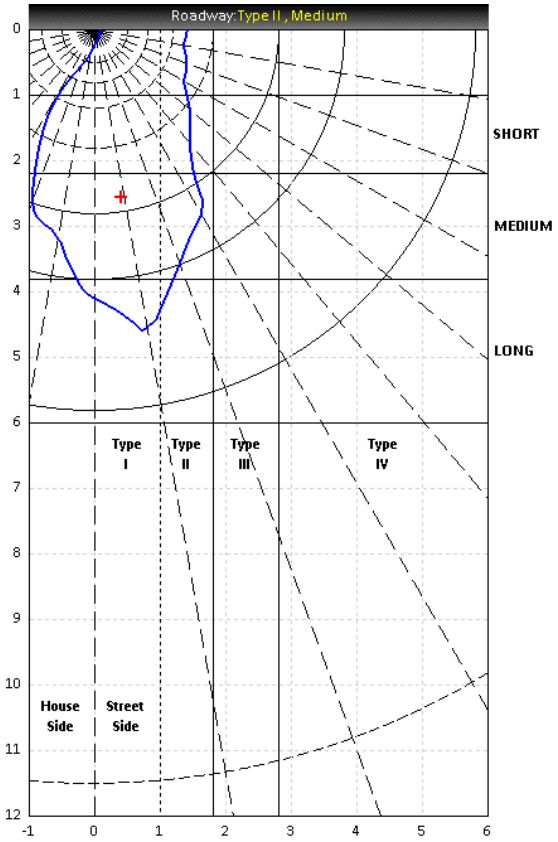
HH-116-4×4-xx-PH3030
Optical Specifications

v1.0_20180709

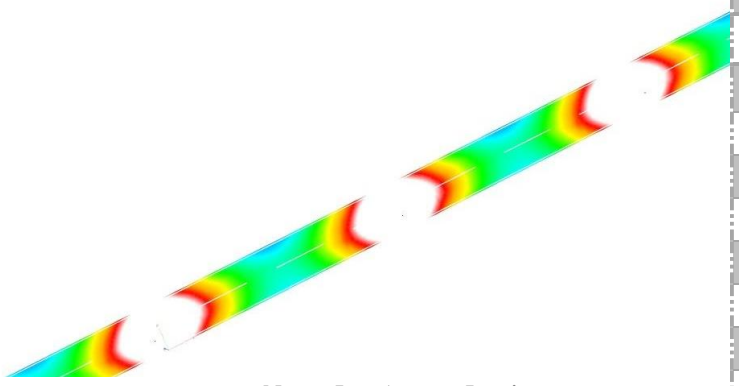
Part Number	FWHM	Candela Distribution Type	IES File
HH-116-4×4-T2M-B-PH3030	80×145	Type II Medium	Download

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	144001m
Lamp Collocation	Unilateral
Height	10m
Distance	40m
Roadwidth	7.5m
Elevation	0°
Overhang	1m
Result	
Lav	1.35
U_0	0.51
U_L	0.73
TI(%)	10
SR	0.71

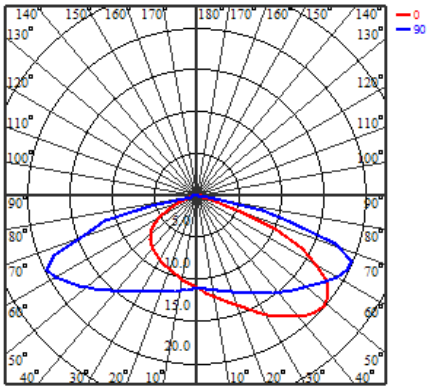
ADD: Area A No.3 Building 3th Floor,Hengchang Rong Industrial park
shiyan,shilong community,Bao'an District,shenzhen,china
TEL : 86-755-29232420 FAX : 86-755-83723765
http://www.szhanhui.com http://linsen4880.1688.com

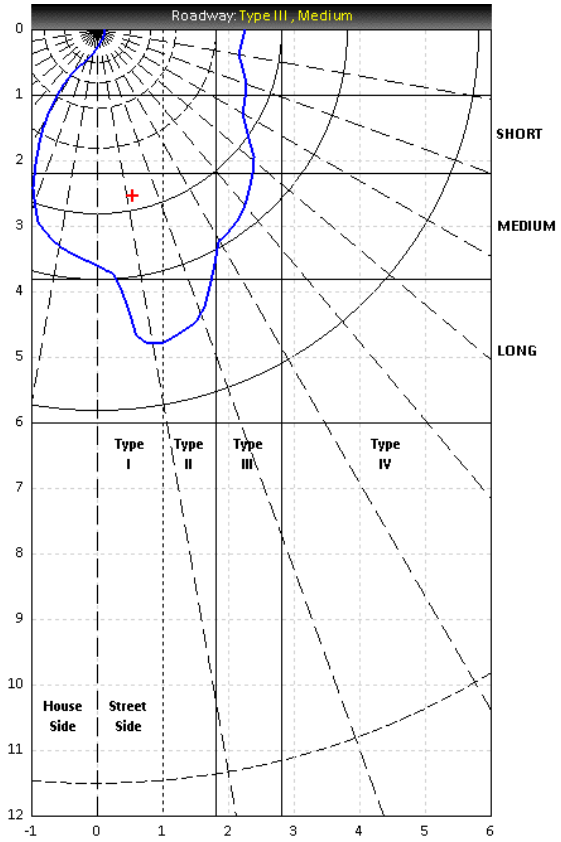
HH-116-4×4-xx-PH3030
Optical Specifications

v1.0_20180709

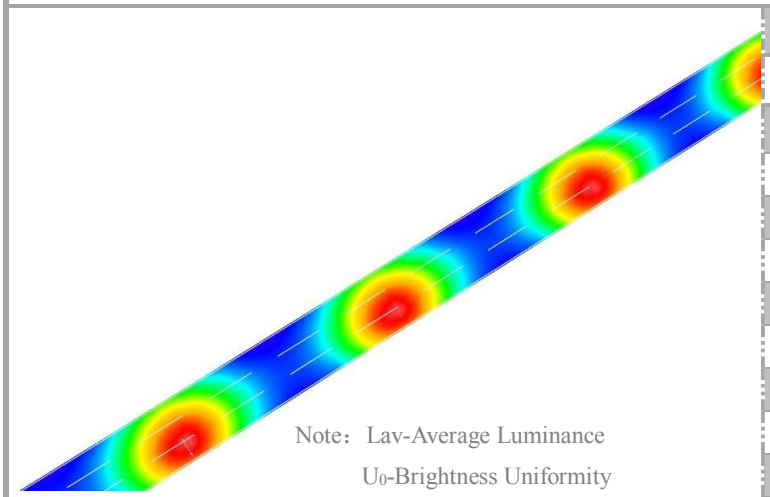
Part Number	FWHM	Candela Distribution Type	IES File
HH-116-4×4-T3M-B-PH3030	80×145	Type III Medium	Download

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	144001m
Lamp Collocation	Unilateral
Height	10m
Distance	40m
Roadwidth	11.25m
Elevation	0°
Overhang	1m
Result	
Lav	0.76
U_0	0.46
U_L	0.68
TI(%)	11
SR	0.67

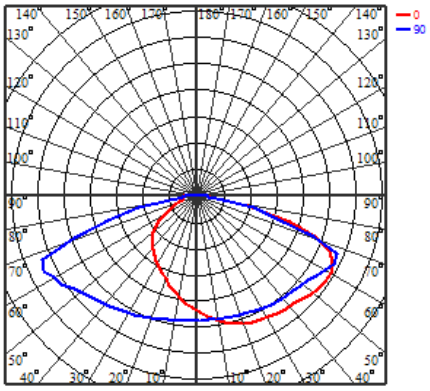
ADD: Area A No.3 Building 3th Floor,Hengchang Rong Industrial park
shiyan,shilong community,Bao'an District,shenzhen,china
TEL : 86-755-29232420 FAX : 86-755-83723765
http://www.szhanhui.com http://linsen4880.1688.com

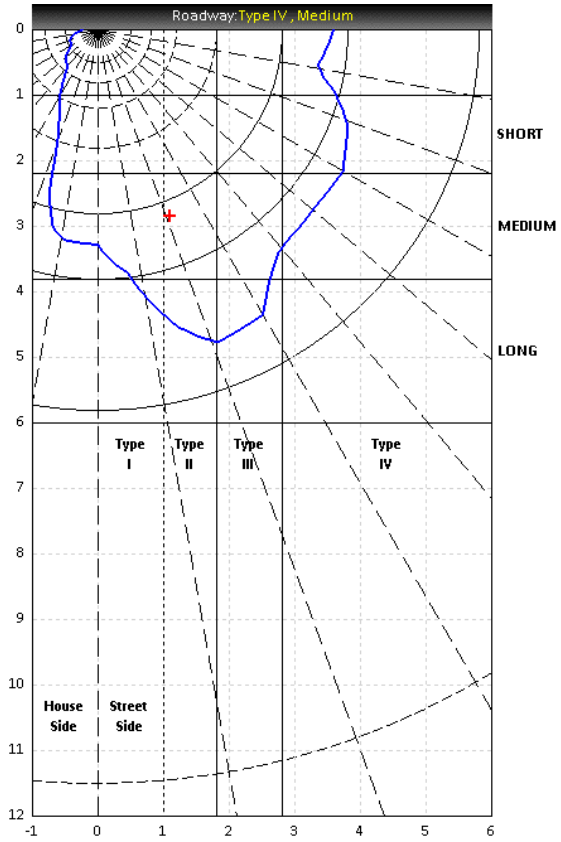
HH-116-4×4-xx-PH3030
Optical Specifications

v1.0_20180709

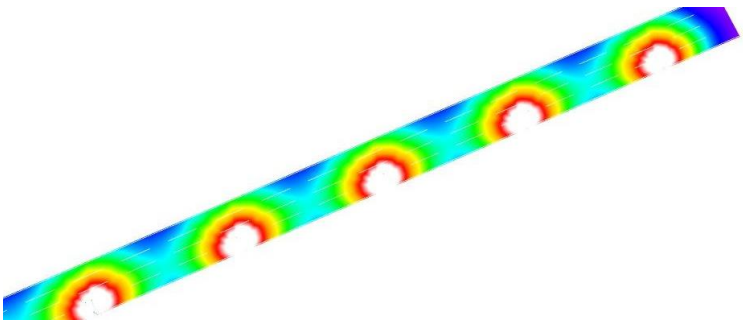
Part Number	FWHM	Candela Distribution Type	IES File
HH-116-4×4-T4M -PH3030	105×157	Type IV Medium	Download

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	225001m
Lamp Collocation	Unilateral
Height	12m
Distance	40m
Roadwidth	14m
Elevation	0°
Overhang	1m
Result	
Lav	0.84
U_0	0.41
U_L	0.81
TI(%)	12
SR	0.72

ADD: Area A No.3 Building 3th Floor,Hengchang Rong Industrial park
shiyan,shilong community,Bao'an District,shenzhen,china
TEL : 86-755-29232420 FAX : 86-755-83723765
http://www.szhanhui.com http://linsen4880.1688.com

HH-116-4×4-xx-PH3030
Mechanical Specification

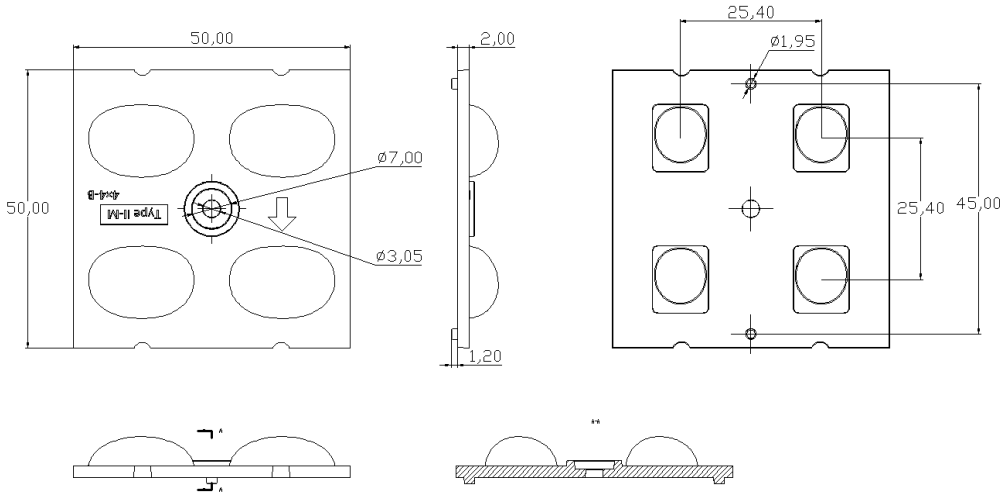
v1.0_20180709

1.Fixing method

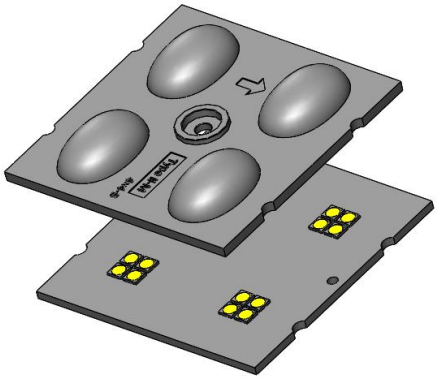
Note:（1）All dimensions are in mm.
（2）All measurements are ±0.15mm unless otherwise indicated.

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

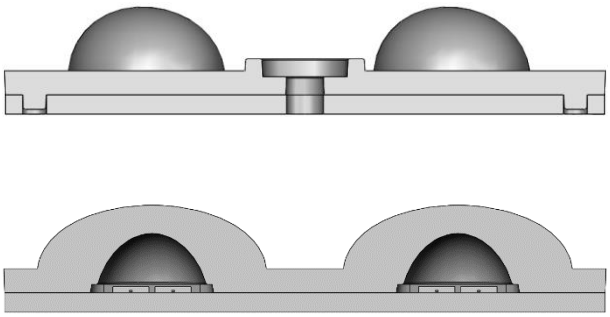
2.Lens dimension



3.Assembly instruction



4.View assembly lens with MCPCB



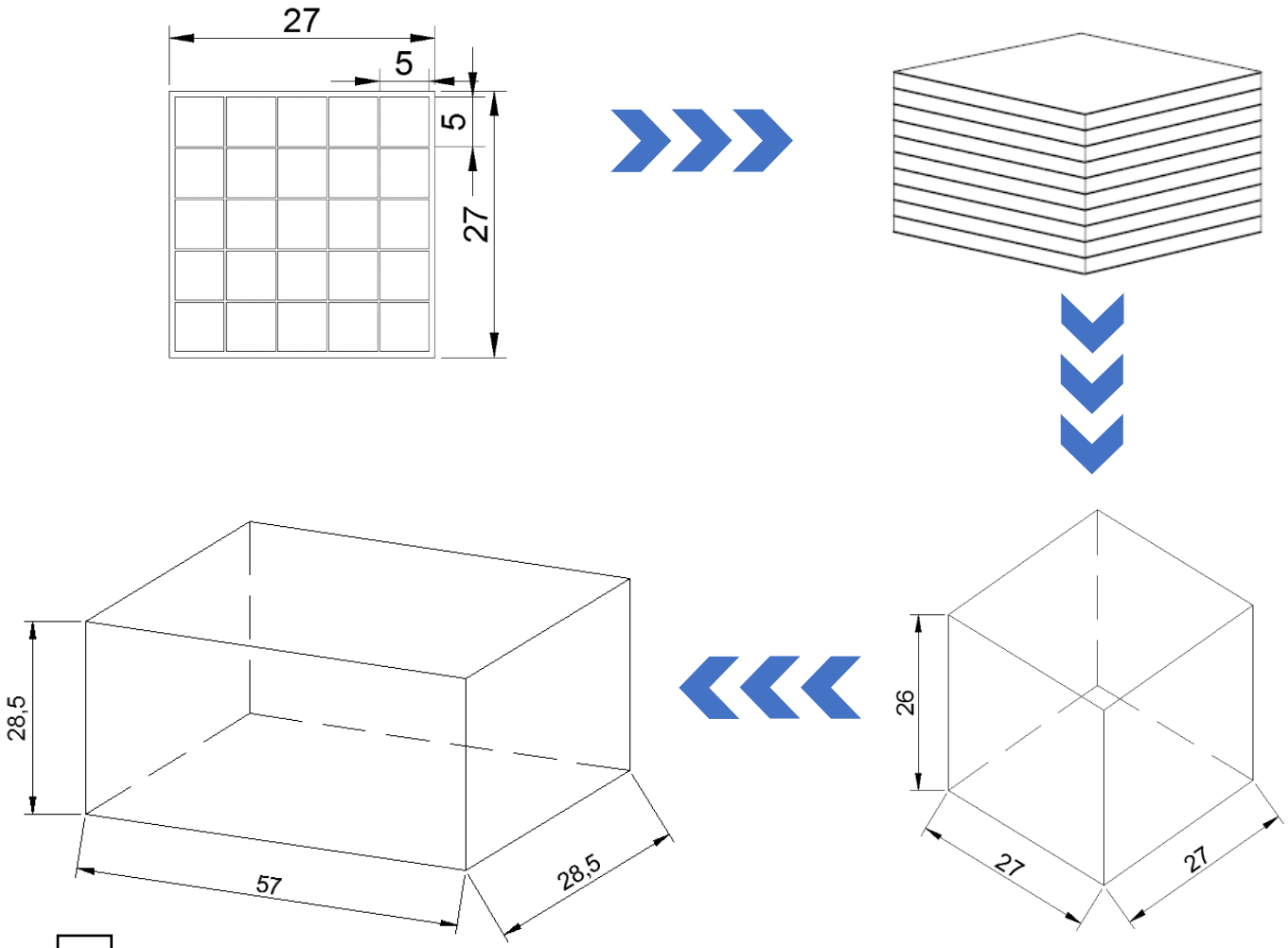
ADD: Area A No.3 Building 3th Floor,Hengchang Rong Industrial park
shiyan,shilong community,Bao'an District,shenzhen,china
TEL : 86-755-29232420 FAX : 86-755-83723765
http://www.szhanhui.com http://linsen4880.1688.com

HH-116-4×4-xx-PH3030
Package Specifications

v1.0_20180709

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(100*160) degree lenses. Because the lens height is different, the total number is different, there is no detailed list.



Note:

ADD: Area A No.3 Building 3th Floor,Hengchang Rong Industrial park
shiyan,shilong community,Bao'an District,shenzhen,china
TEL : 86-755-29232420 FAX : 86-755-83723765
http://www.szhanhui.com http://linsen4880.1688.com