

## STRADA-2X2-PX

Fully asymmetric beam designed to highlight pedestrian crossings for right side traffic

### SPECIFICATION:

Dimensions	50.0 x 50.0
Height	8 mm
Fastening	pin, screw
ROHS compliant	yes ⓘ

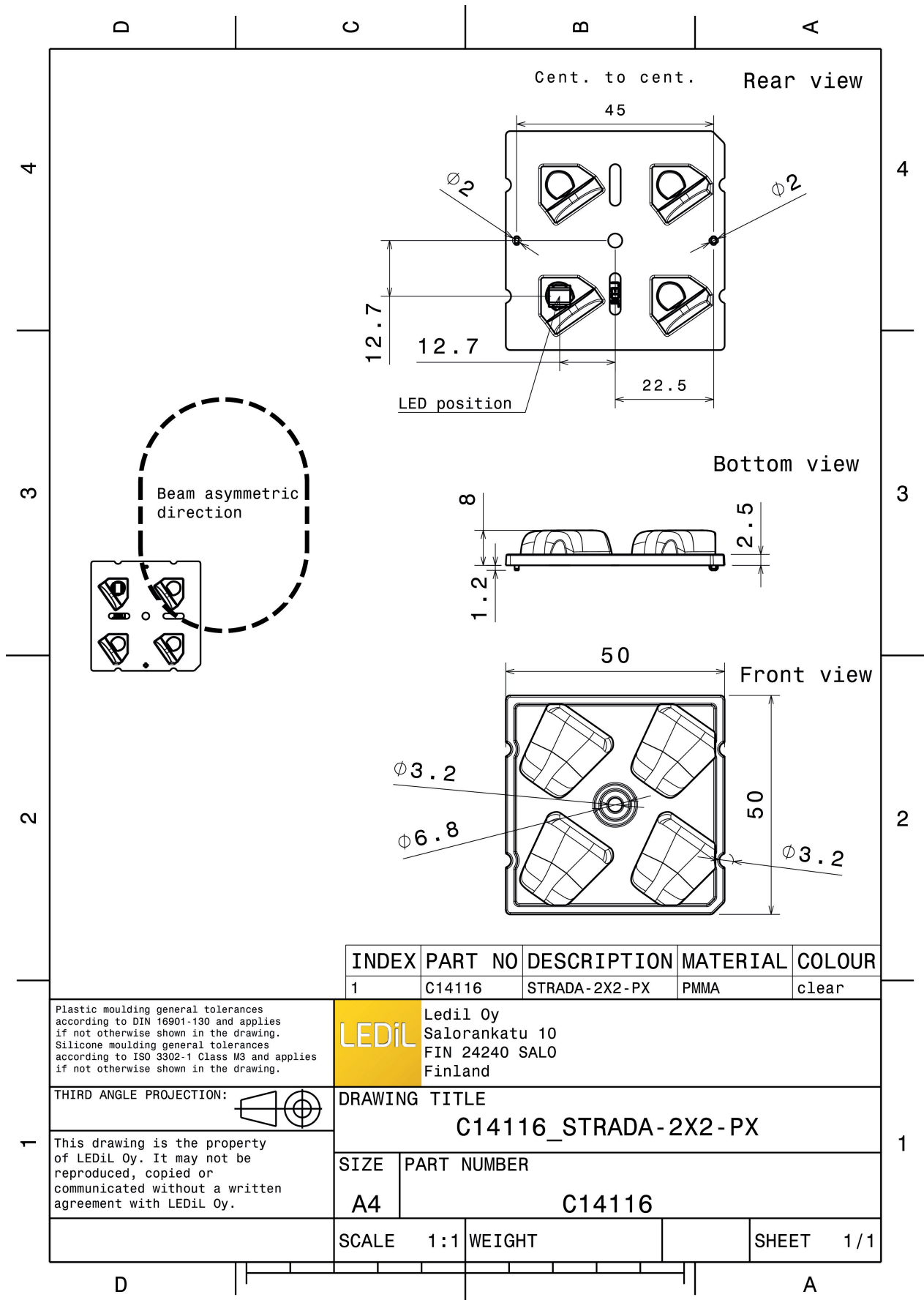


### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
STRADA-2X2-PX	Multi-lens	PMMA	clear		

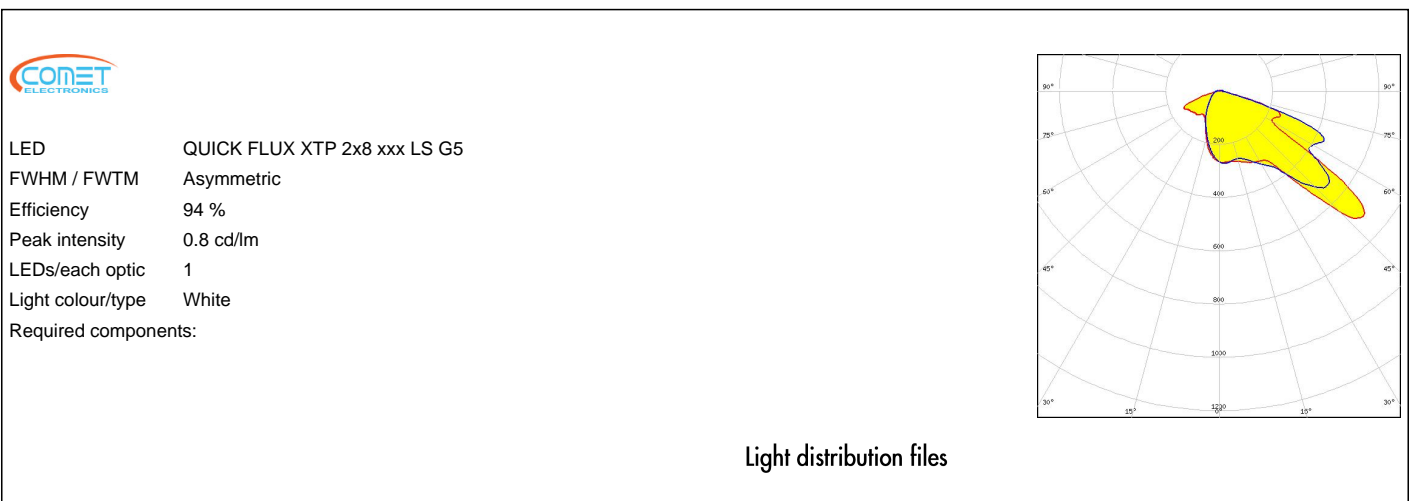
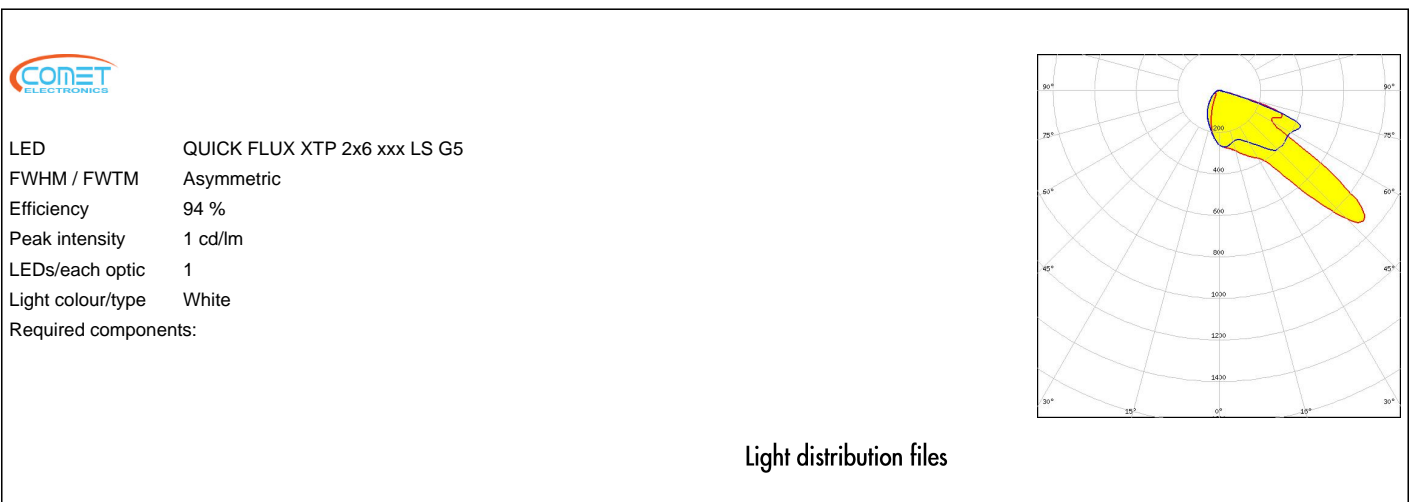
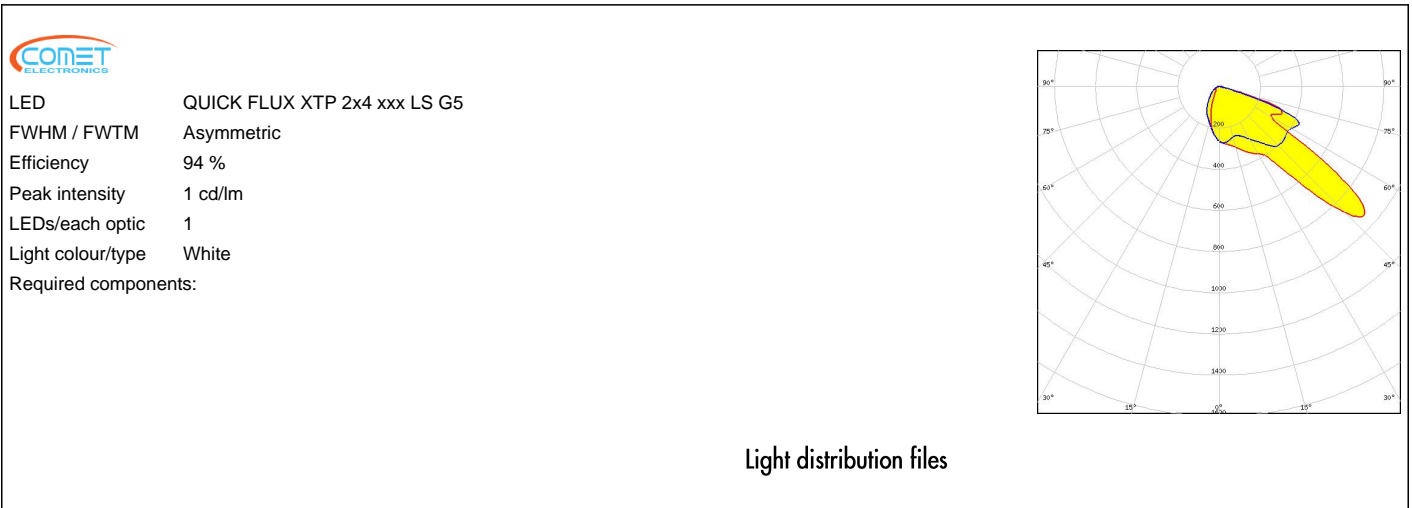
### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C14116_STRADA-2X2-PX » Box size: 480 x 280 x 300 mm	800	160	160	7.9



See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

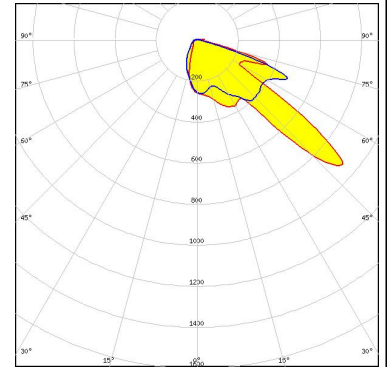
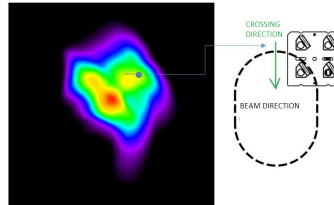
### OPTICAL RESULTS (MEASURED):



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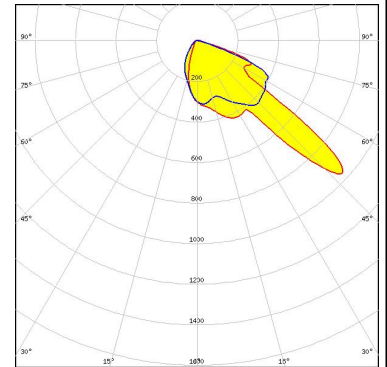
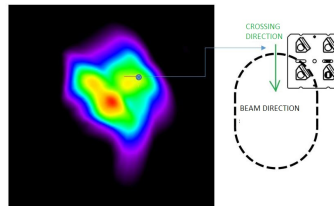
LED XB-D  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



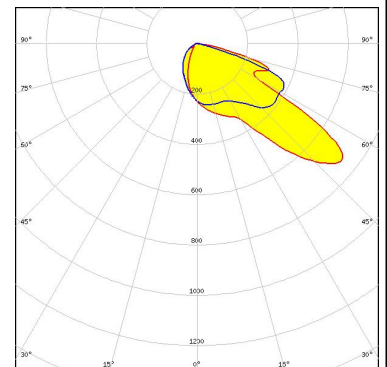
LED XB-H  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XM-L  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



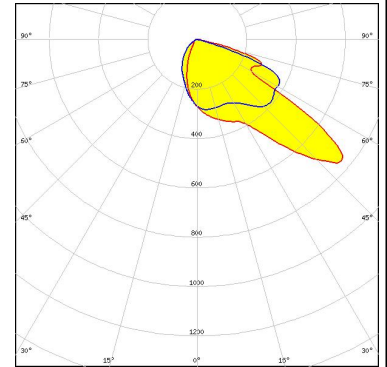
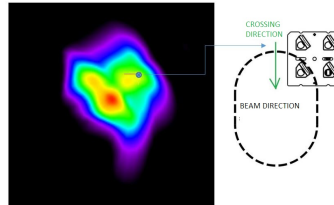
Light distribution files



### OPTICAL RESULTS (MEASURED):



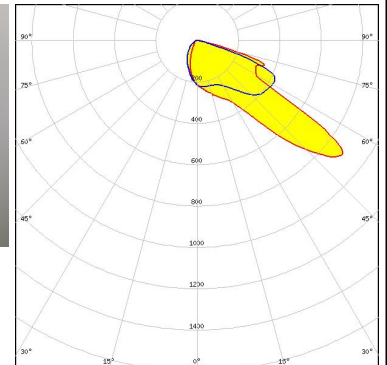
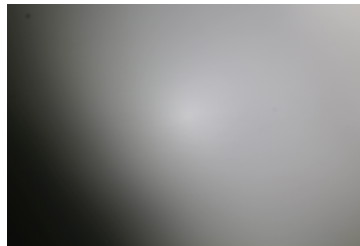
LED XM-L2  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



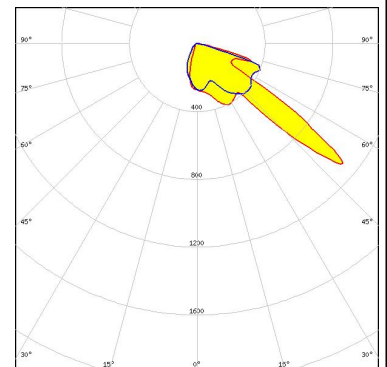
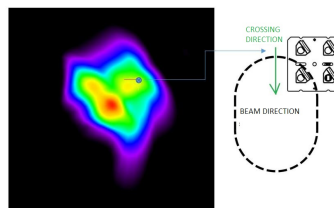
LED XM-L3  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-E  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

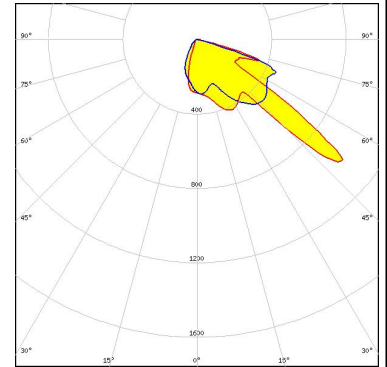
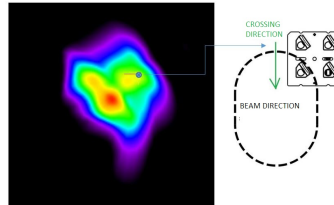


Light distribution files

### OPTICAL RESULTS (MEASURED):



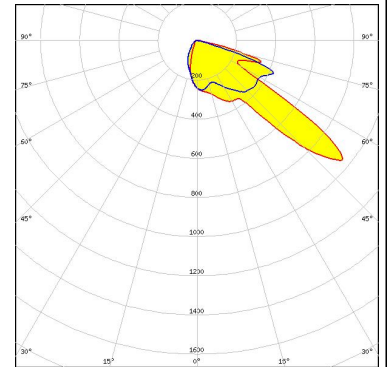
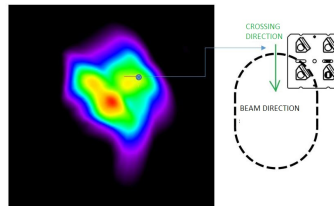
LED XP-E2  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



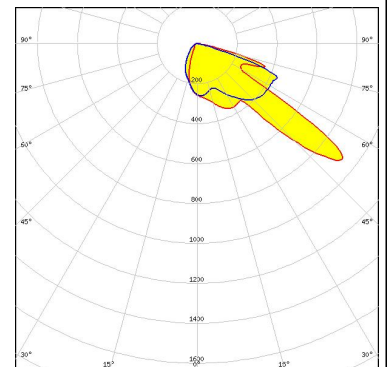
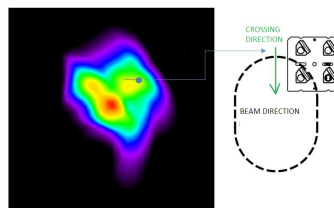
LED XP-G  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G2  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

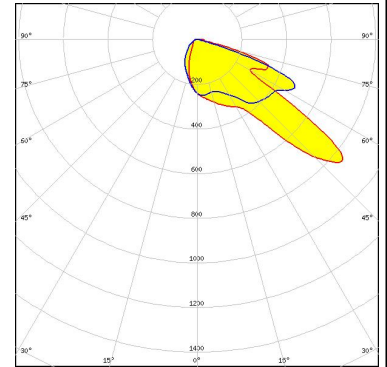


Light distribution files

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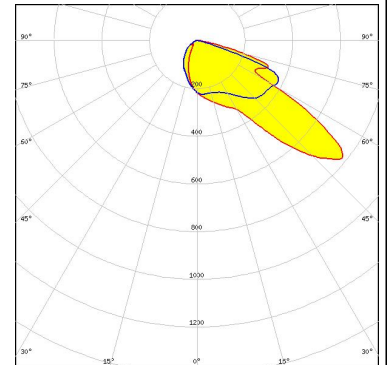
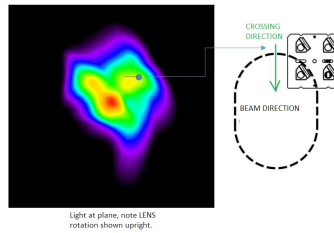
LED XP-G3  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



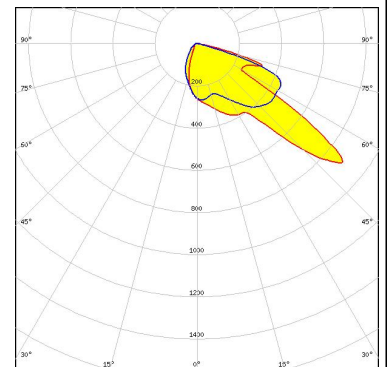
LED XP-L HD  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-L HI  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

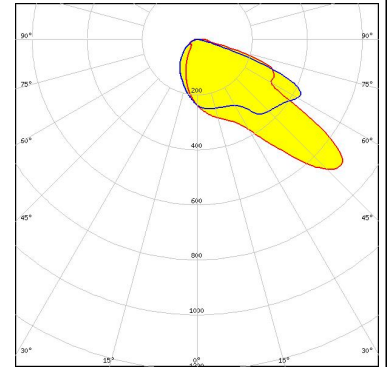


Light distribution files

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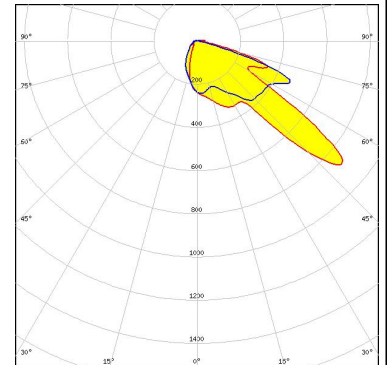
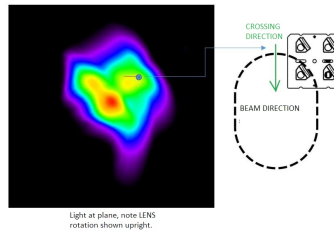
LED XP-L2  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



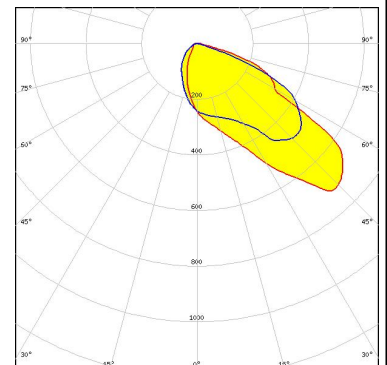
LED XT-E  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON 5050 Round LES  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

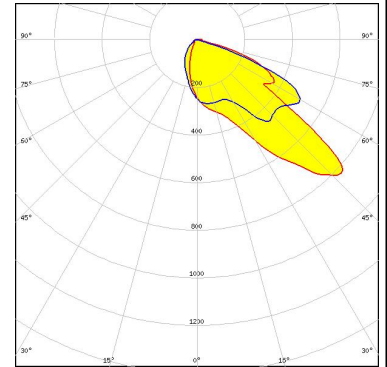


Light distribution files

#### OPTICAL RESULTS (MEASURED):



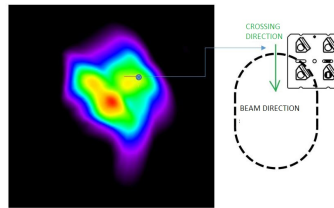
LED LUXEON MZ  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



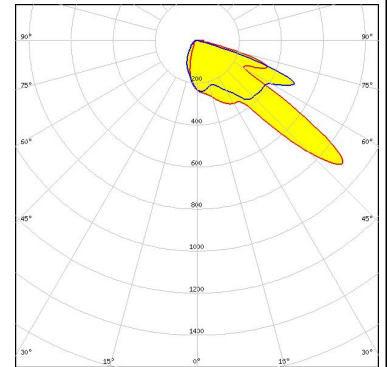
Light distribution files



LED LUXEON Q  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



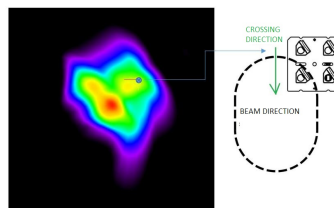
Light at plane, note LENS rotation shown upright.



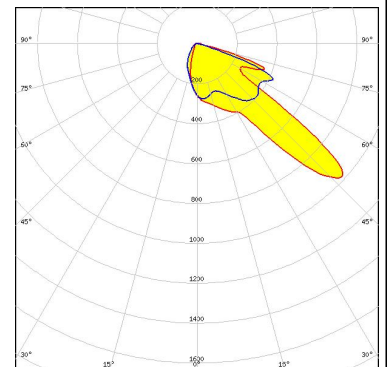
Light distribution files



LED LUXEON R  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light at plane, note LENS rotation shown upright.

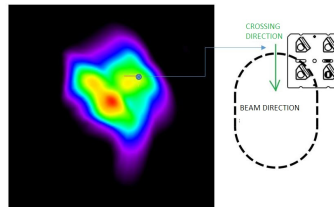


Light distribution files

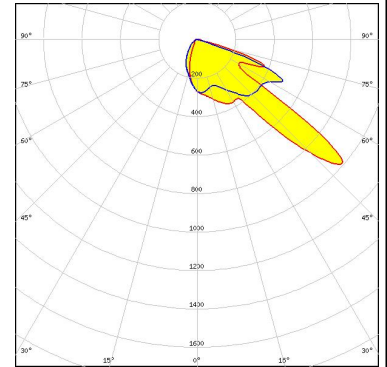
#### OPTICAL RESULTS (MEASURED):



LED LUXEON Rebel ES  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



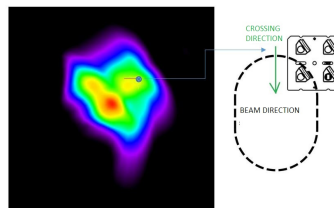
Light at plane, note LENS rotation shown upright.



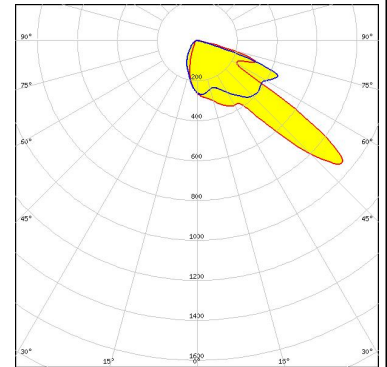
Light distribution files



LED LUXEON T  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



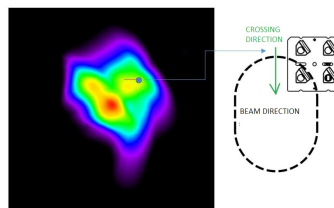
Light at plane, note LENS rotation shown upright.



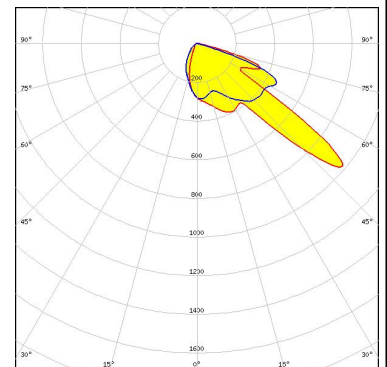
Light distribution files



LED LUXEON TX  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light at plane, note LENS rotation shown upright.

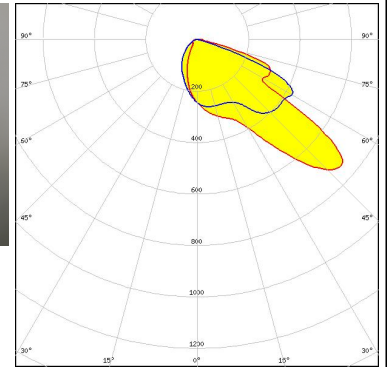
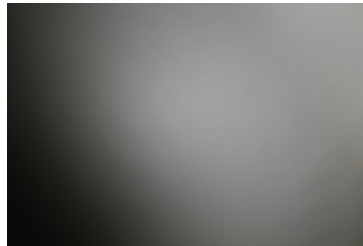


Light distribution files

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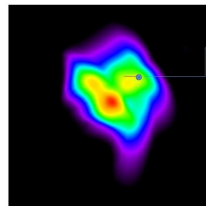
LED LUXEON V  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



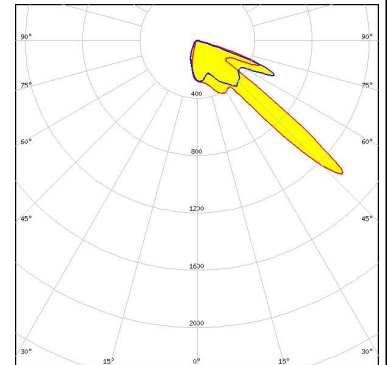
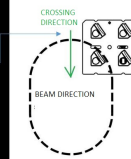
Light distribution files



LED LUXEON Z ES  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



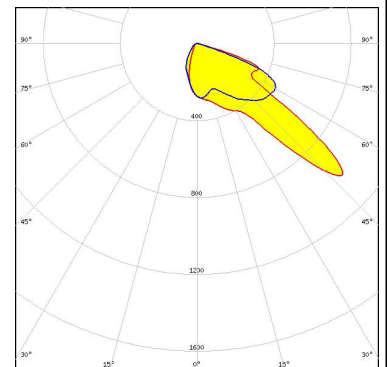
Light at plane, note LENS rotation shown upright.



Light distribution files



LED RecLED 122x50mm 1900lm 730 2x4 Opt G1  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



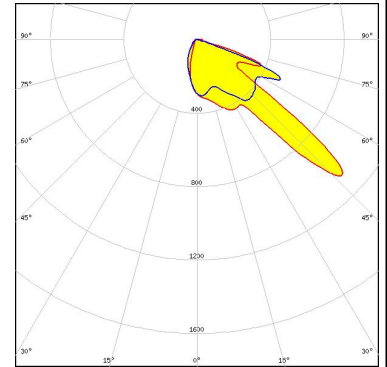
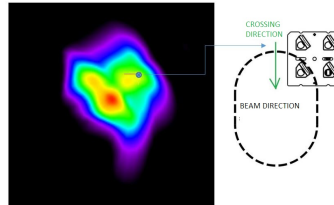
Light distribution files



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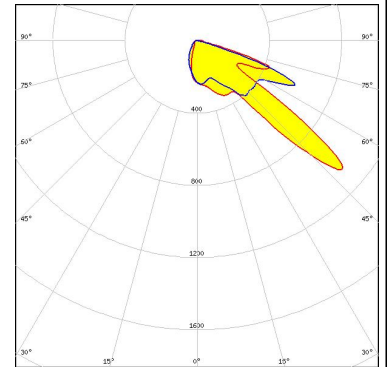
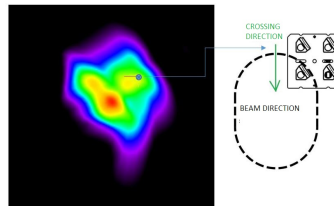
LED NCSxx19A  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



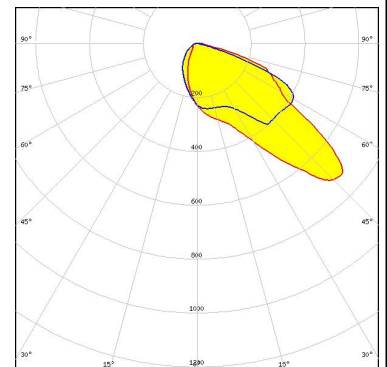
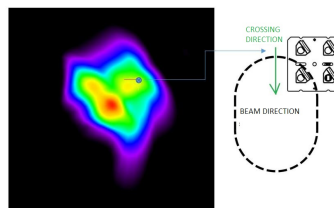
LED NCSxx19B  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NS9x383  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

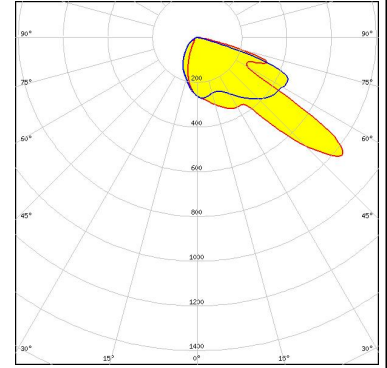


Light distribution files

### OPTICAL RESULTS (MEASURED):



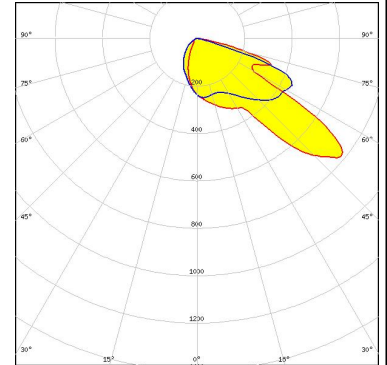
LED NVSW219F  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



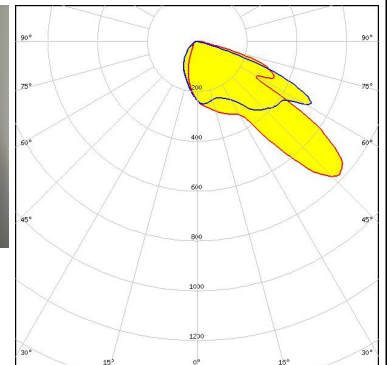
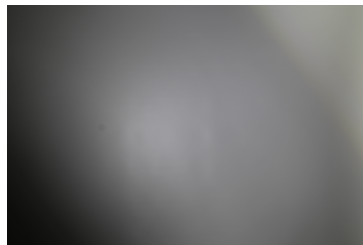
LED NVSW319B  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NVSW3x9A  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

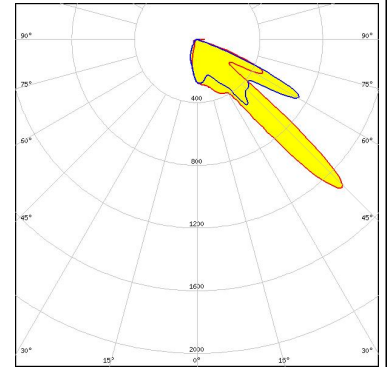


Light distribution files

#### OPTICAL RESULTS (MEASURED):



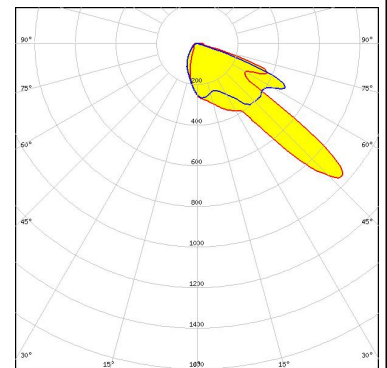
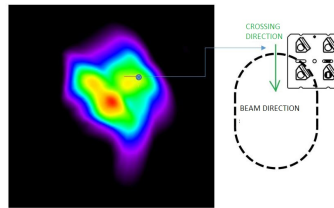
LED NVSxE21A  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



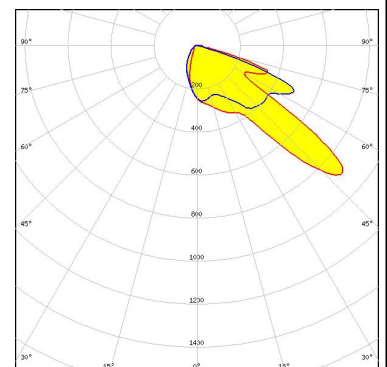
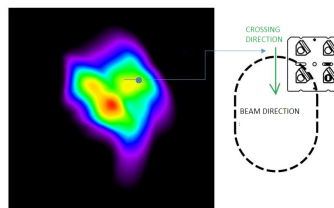
LED NVSxx19A  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NVSxx19B/NVSxx19C  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

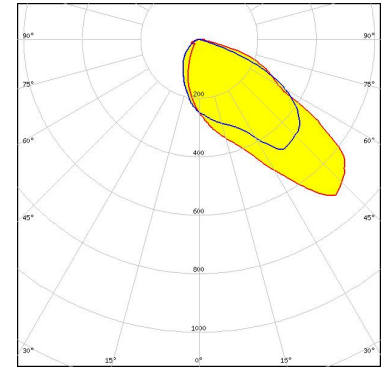


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

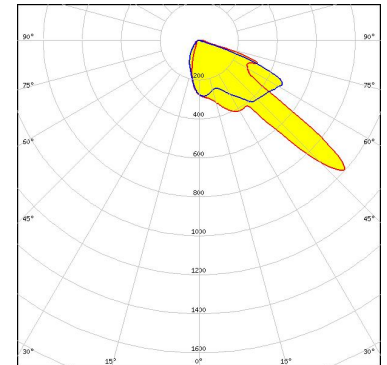
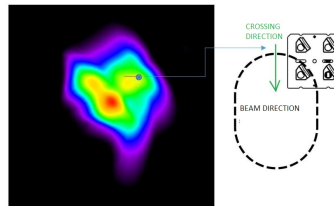
LED Duris S8  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

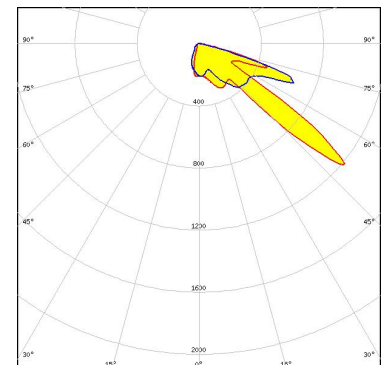
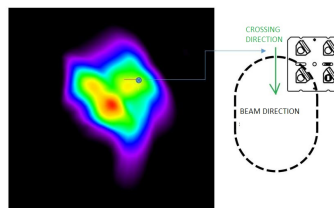
LED OSLOM Square PC  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLOM SSL 150  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

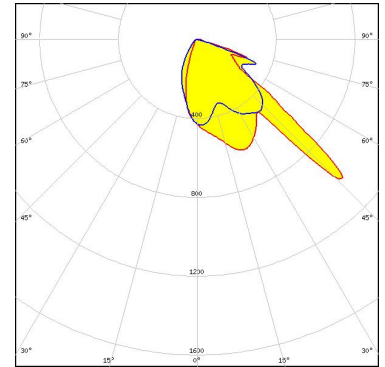


Light distribution files

### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

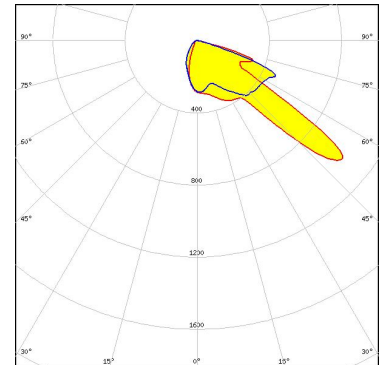
LED OSLON SSL 80  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**PHILIPS**

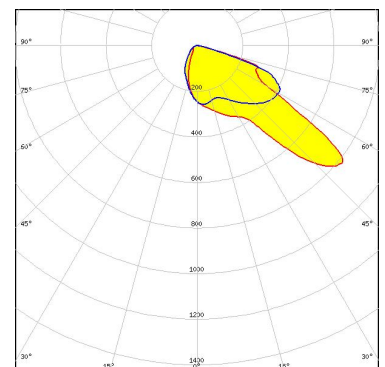
LED Fortimo FastFlex LED 2x8 DA G4  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**PHILIPS**

LED Fortimo FastFlex LED 2x8 DA G4+  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

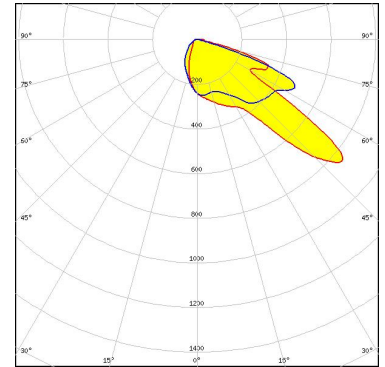


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

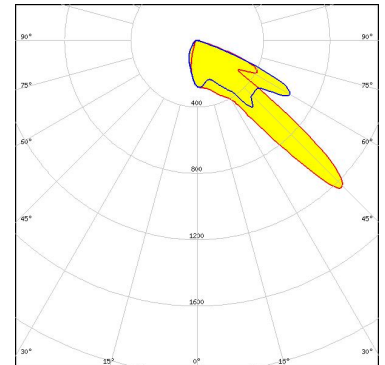
LED Fortimo FastFlex LED 2x8 DAX G4  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

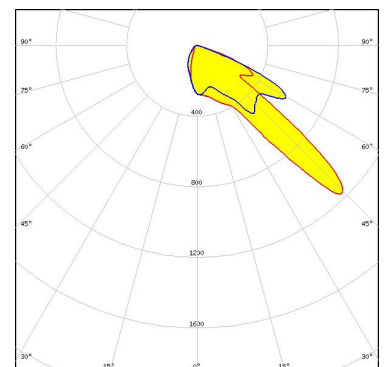
LED HiLOM RC12 Z (LH181B)  
FWHM / FWTM Asymmetric  
Efficiency 98 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

LED HiLOM RC12 Z (LH181B)  
FWHM / FWTM Asymmetric  
Efficiency 91 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



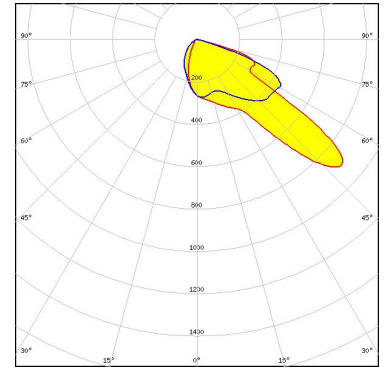
Protective plate, glass

Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

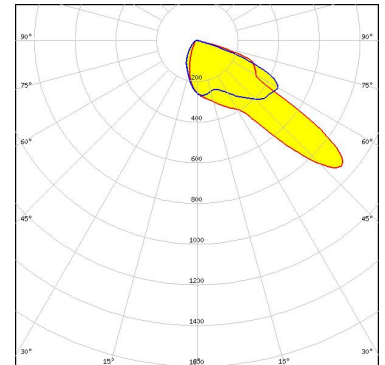
LED HiLOM RH12 Z (LH351C)  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

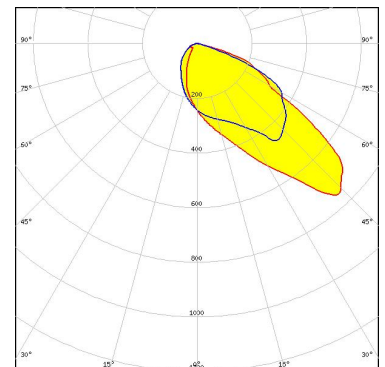
LED HiLOM RH16 (LH351C)  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

LED HiLOM RM12 Z (LH502C)  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



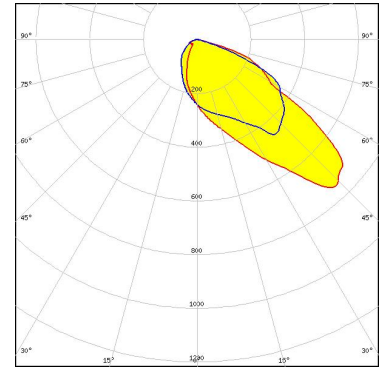
Light distribution files



### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

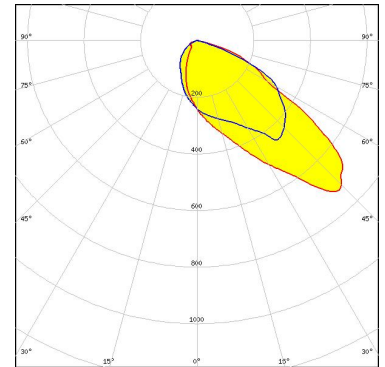
LED HiLOM RM16 Z (LH502C)  
FWHM / FWTM Asymmetric  
Efficiency 98 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

LED HiLOM RM16 Z (LH502C)  
FWHM / FWTM Asymmetric  
Efficiency 91 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

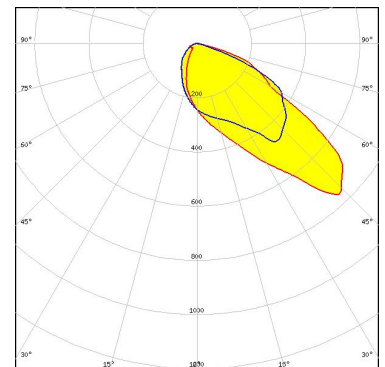


Protective plate, glass

Light distribution files

#### SAMSUNG

LED HiLOM RM8 Z (LH502C)  
FWHM / FWTM Asymmetric  
Efficiency 98 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

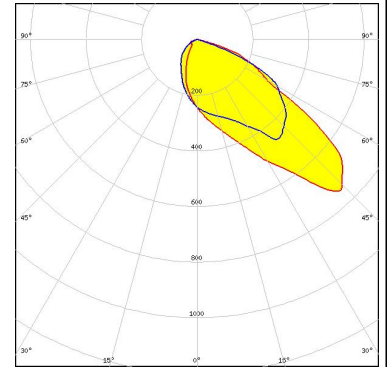
### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

LED HiLOM RM8 Z (LH502C)  
FWHM / FWTM Asymmetric  
Efficiency 92 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

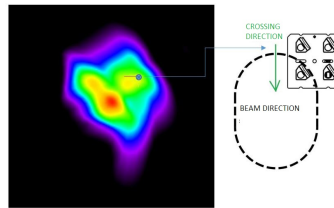
Protective plate, glass

Light distribution files

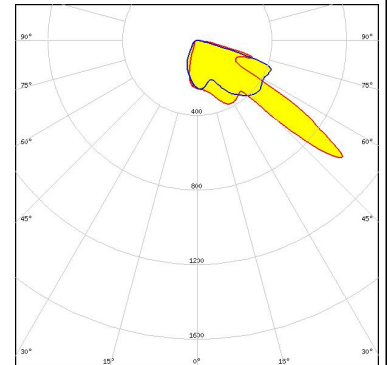


#### SAMSUNG

LED LH351A  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



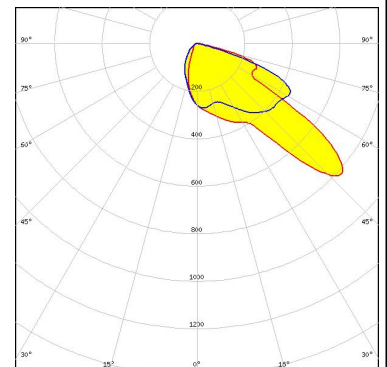
Light distribution files



#### SAMSUNG

LED LH351B  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

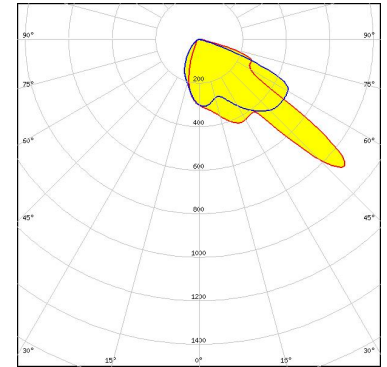
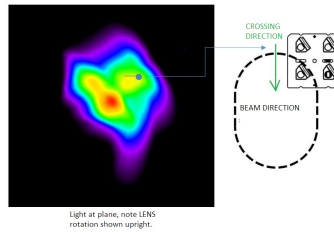
Light distribution files



### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

LED LH351Z  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

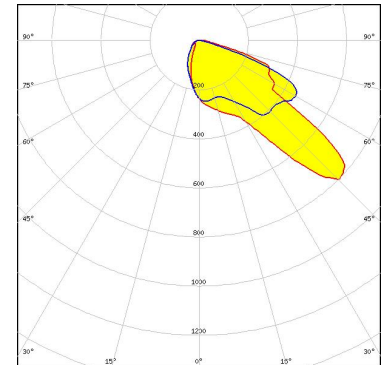
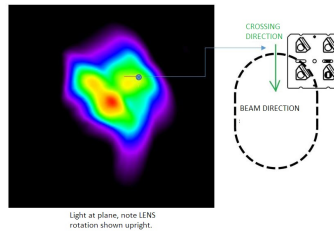


Light distribution files



SEOUL SEMICONDUCTOR

LED Acrich MJT 4040  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

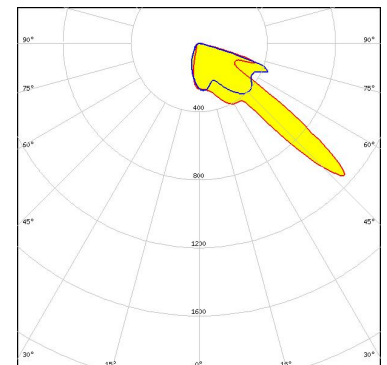
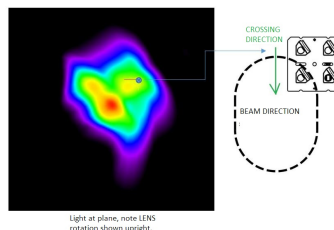


Light distribution files



SEOUL SEMICONDUCTOR

LED Z5  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



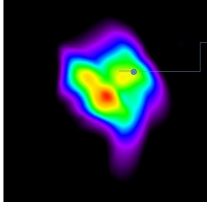
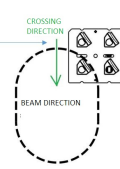
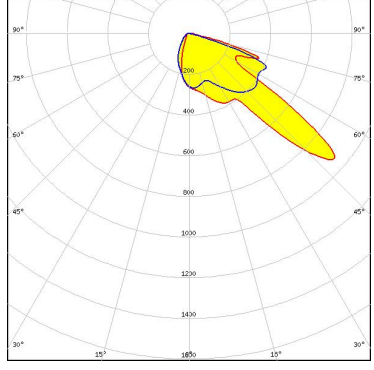
Light distribution files

### OPTICAL RESULTS (MEASURED):

**SEOUL SEMICONDUCTOR**

LED	Z5M
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

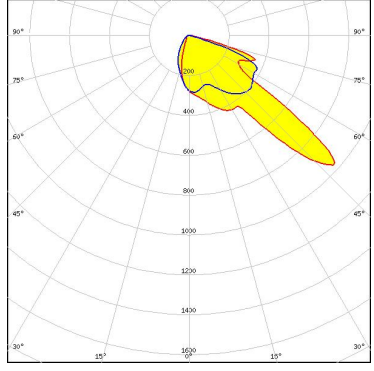




Light distribution files

**SEOUL SEMICONDUCTOR**

LED	Z5M1/Z5M2
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

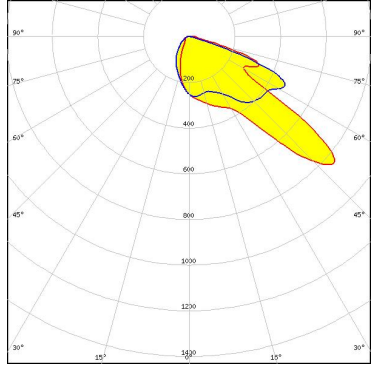


Light distribution files

**SEOUL SEMICONDUCTOR**

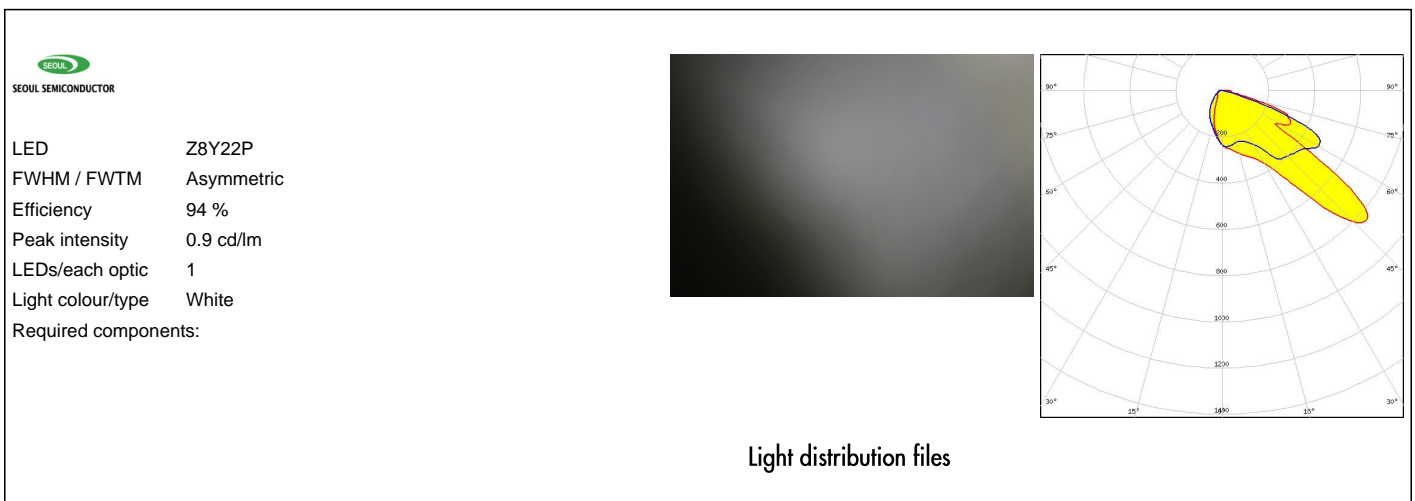
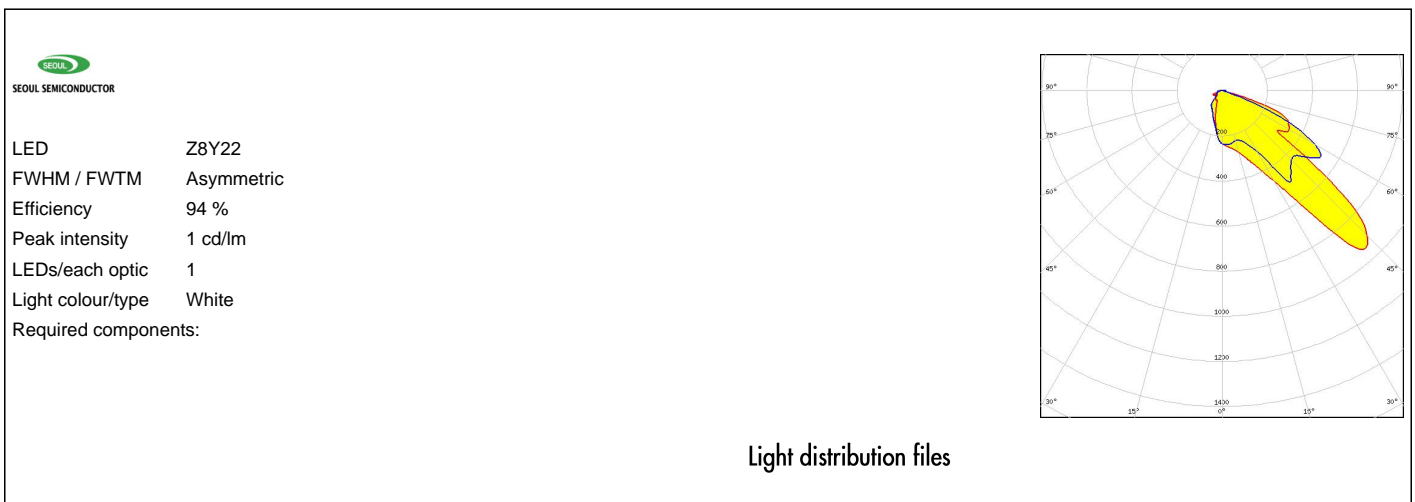
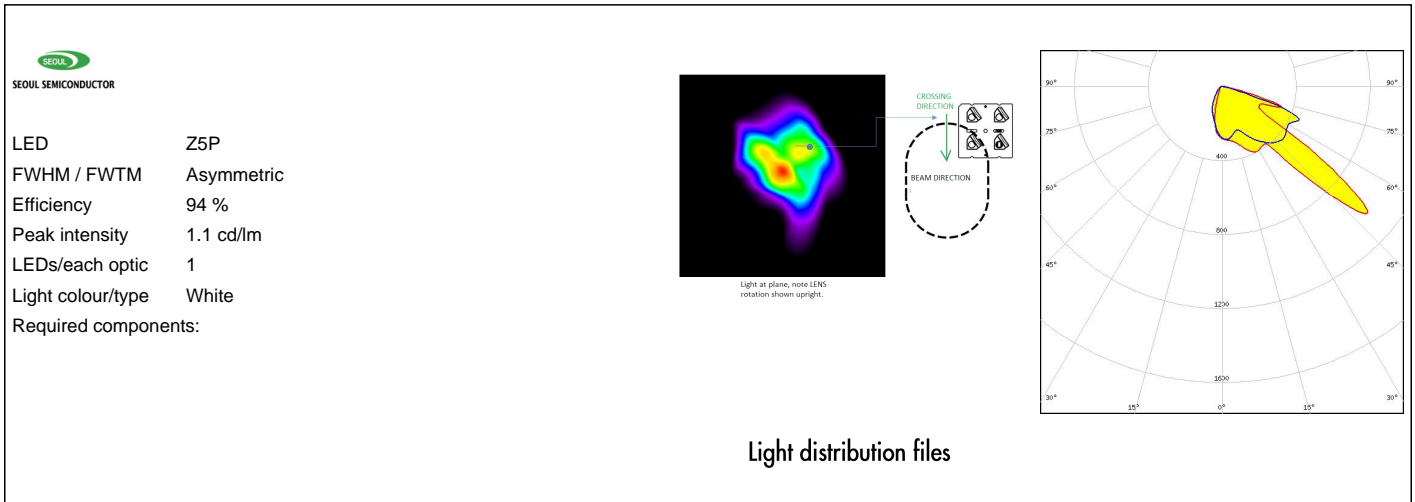
LED	Z5M3
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:



Light distribution files

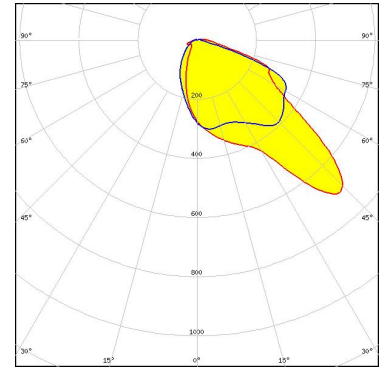
### OPTICAL RESULTS (MEASURED):



### OPTICAL RESULTS (MEASURED):

#### TOSHIBA Leading Innovation >>>

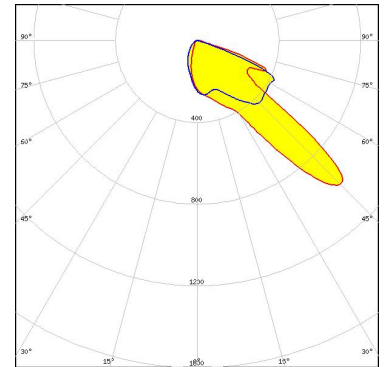
LED TL1L3  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### TOSHIBA Leading Innovation >>>

LED TL1L4  
FWHM / FWTM Asymmetric  
Efficiency 91 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### TRIDONIC

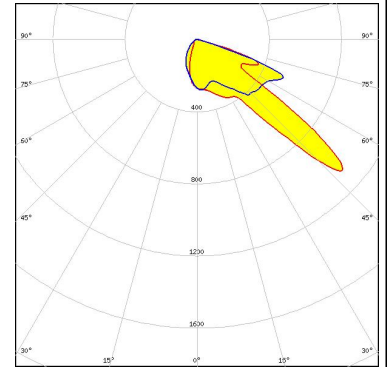
LED RLE 2x4 2000lm HP EXC2 OTD  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

### OPTICAL RESULTS (MEASURED):

#### TRIDONIC

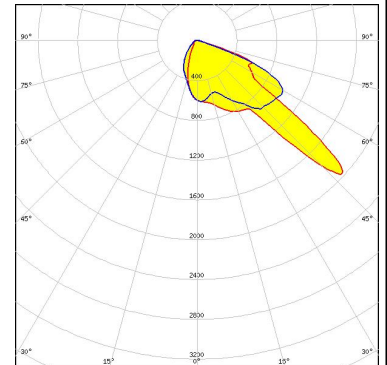
LED RLE 2x8 4000lm HP EXC2 OTD  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### TRIDONIC

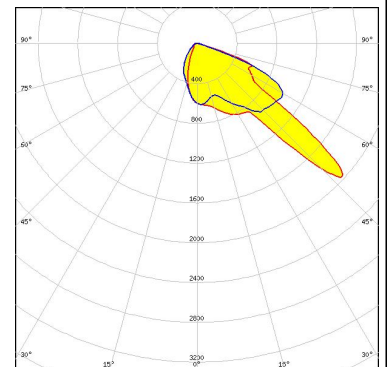
LED RLE G1 49x121mm 2000lm xxx EXC OTD  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



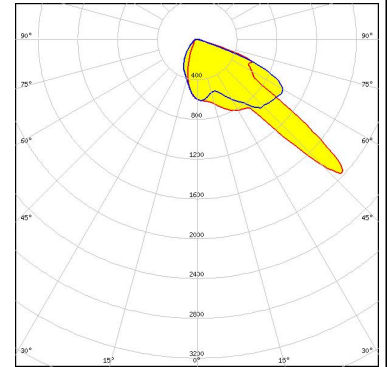
Light distribution files



### OPTICAL RESULTS (MEASURED):

#### TRIDONIC

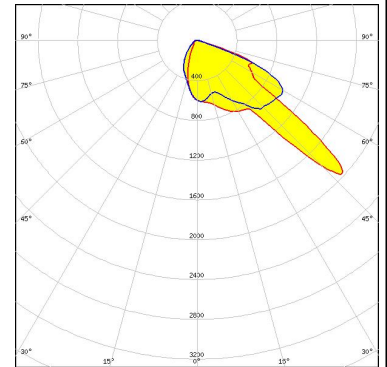
LED RLE G1 49x223mm 4000lm xxx EXC OTD  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



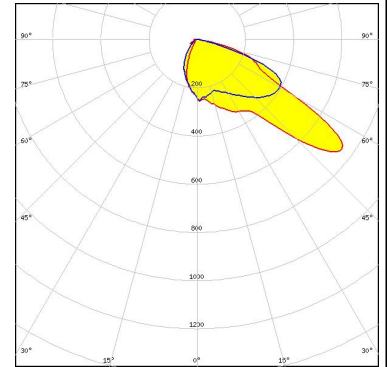
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



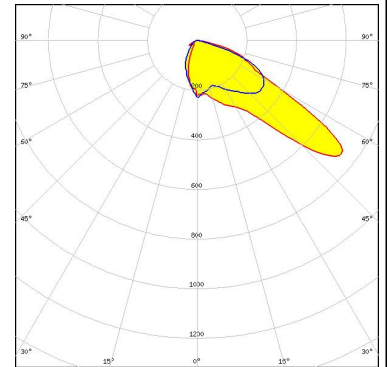
LED XP-G2 HE  
 FWHM / FWTM Asymmetric  
 Efficiency 93 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G3  
 FWHM / FWTM Asymmetric  
 Efficiency 81 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

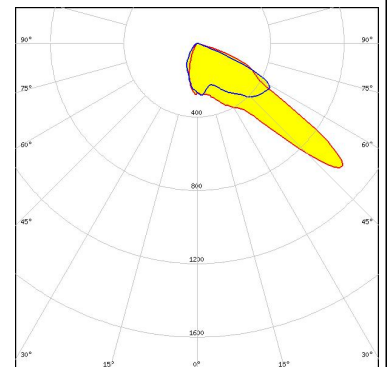


Protective plate, glass

Light distribution files



LED XP-G4  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

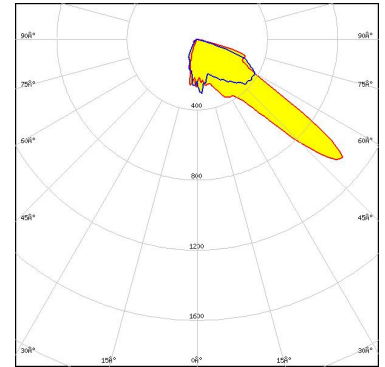


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### inventronics

LED	PrevaLED Brick HP 2x8
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

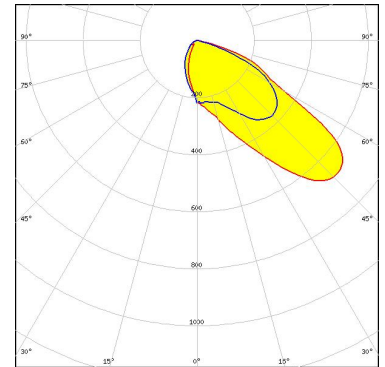


Light distribution files

#### LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	Asymmetric
Efficiency	85 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

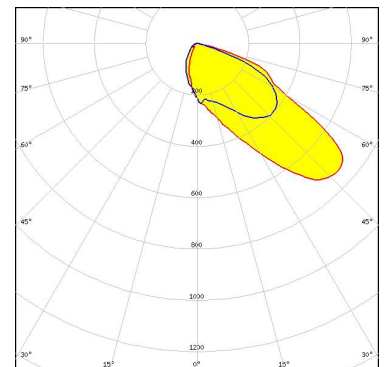
Protective plate, glass



Light distribution files

#### LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	Asymmetric
Efficiency	95 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

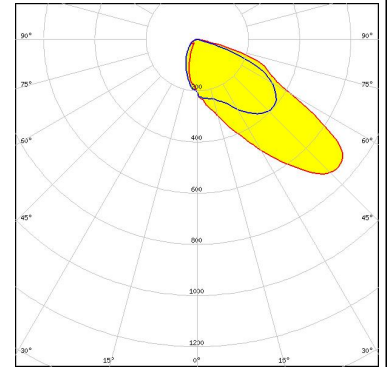


Light distribution files

### OPTICAL RESULTS (SIMULATED):



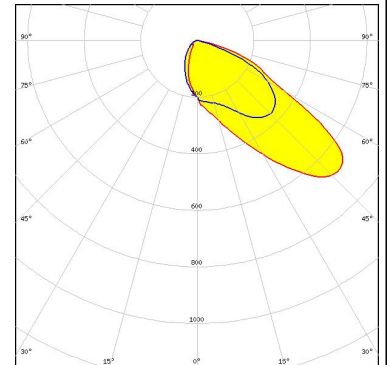
LED LUXEON 5050 Square LES  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON 5050 Square LES  
FWHM / FWTM Asymmetric  
Efficiency 85 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

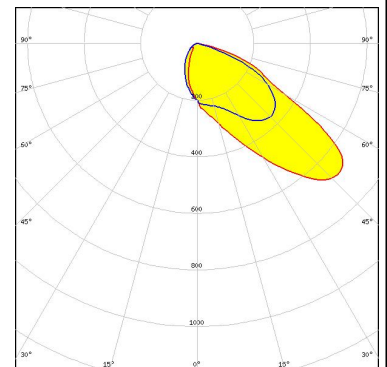


Protective plate, glass

Light distribution files



LED LUXEON 5050 Square LES  
FWHM / FWTM Asymmetric  
Efficiency 85 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



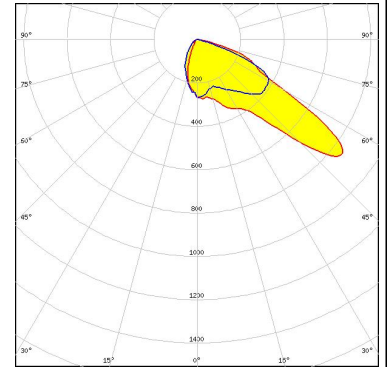
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):



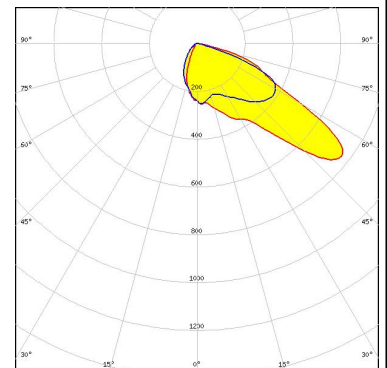
LED LUXEON HL2X  
 FWHM / FWTM Asymmetric  
 Efficiency 93 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



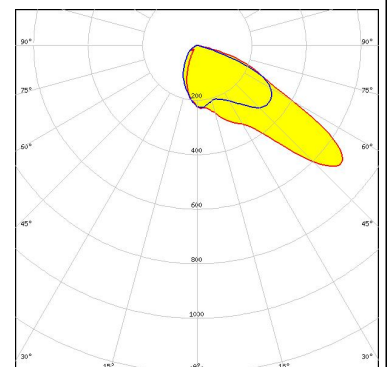
LED LUXEON HL2X-P  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)  
 FWHM / FWTM Asymmetric  
 Efficiency 83 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



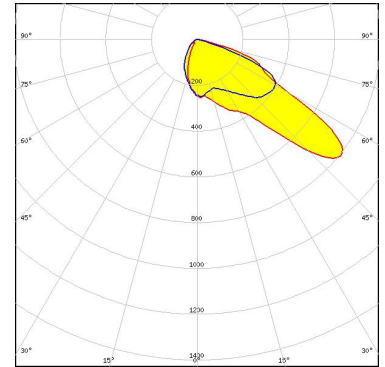
Protective plate, glass

Light distribution files

### OPTICAL RESULTS (SIMULATED):



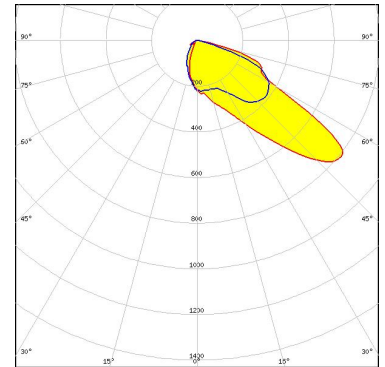
LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



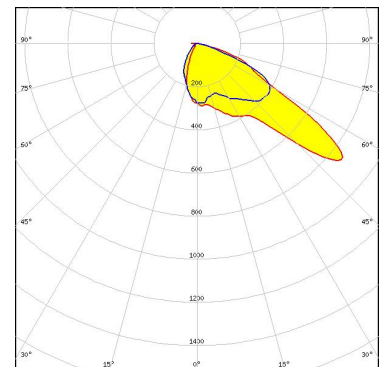
LED NV4WB35AM  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



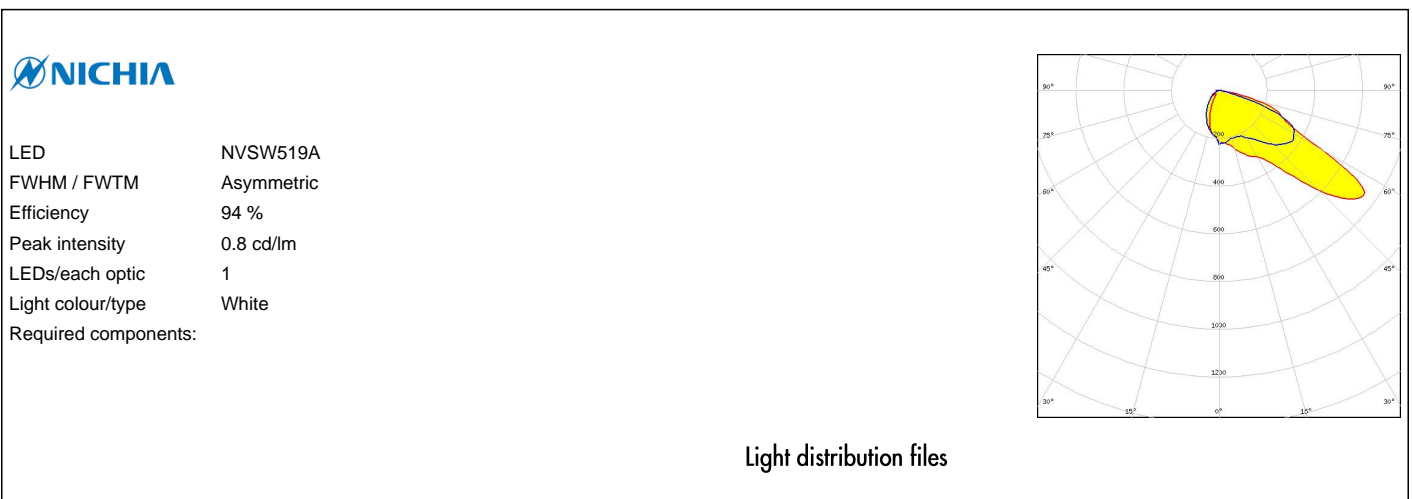
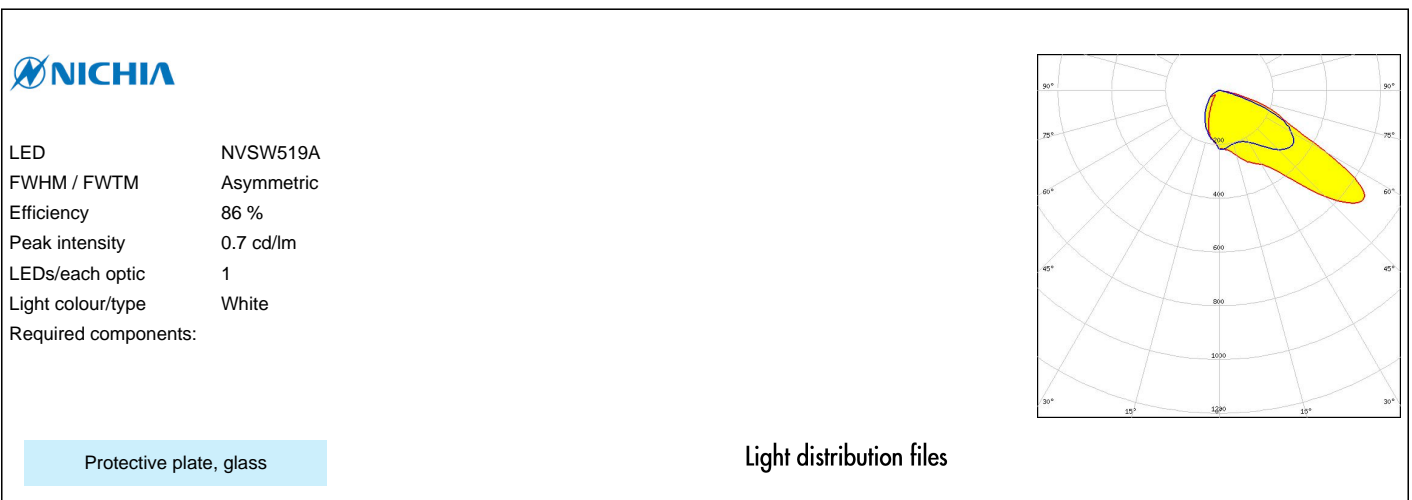
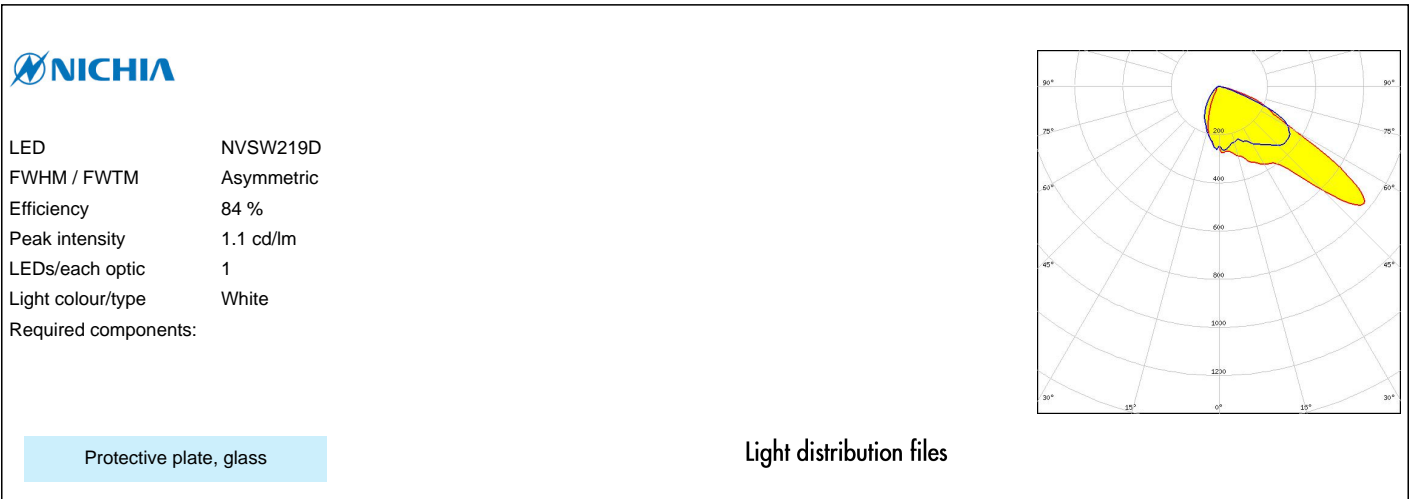
LED NVSW219D  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



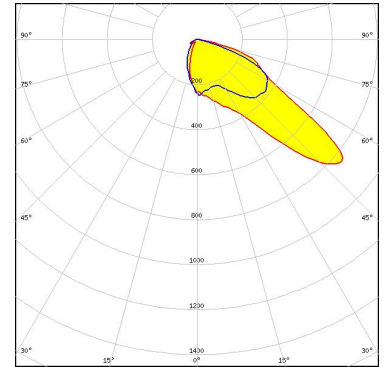
### OPTICAL RESULTS (SIMULATED):



### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

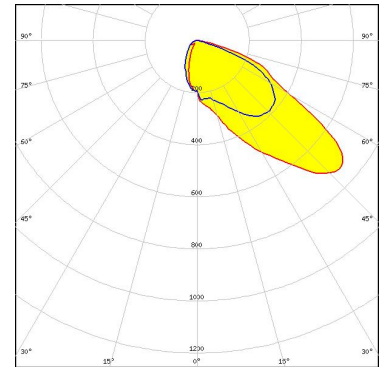
LED OSCONIQ P 3737 (3W version)  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 3.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

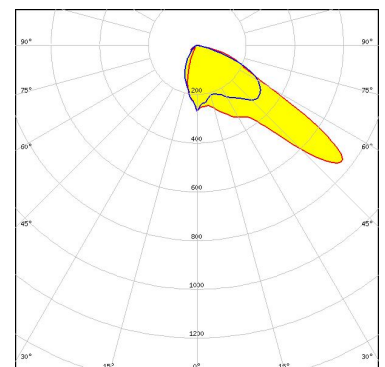
LED OSCONIQ S 5050  
FWHM / FWTM Asymmetric  
Efficiency 95 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSOLON Square CSSRM2/CSSRM3  
FWHM / FWTM Asymmetric  
Efficiency 80 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



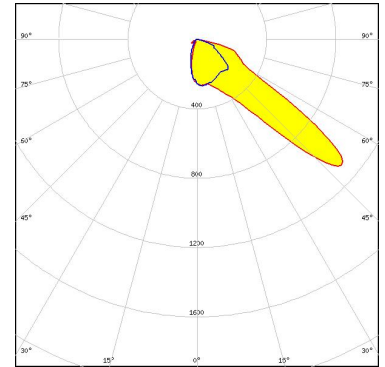
Protective plate, glass

Light distribution files

### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

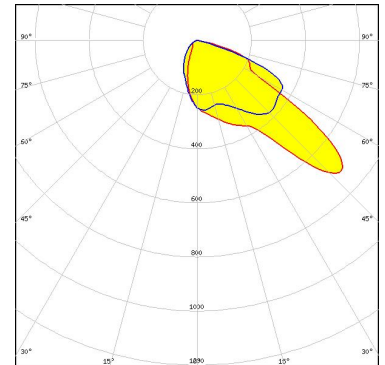
LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM Asymmetric  
Efficiency 95 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SAMSUNG**

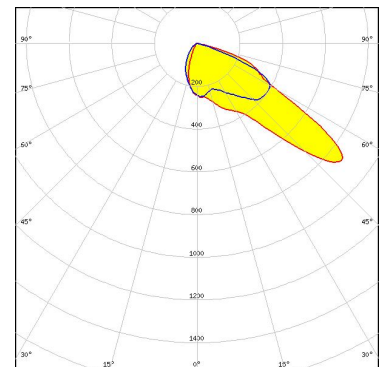
LED LH351B  
FWHM / FWTM Asymmetric  
Efficiency 85 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SAMSUNG**

LED LH351C  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

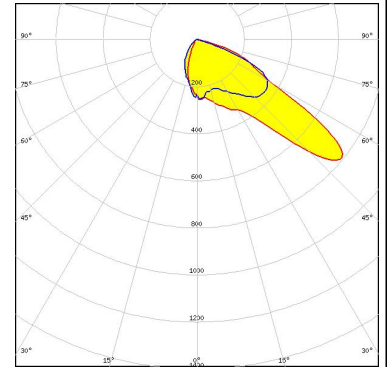
### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

LED LH351C  
FWHM / FWTM Asymmetric  
Efficiency 85 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

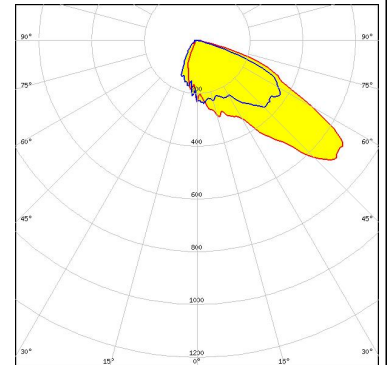
Light distribution files



#### SAMSUNG

LED LH351D  
FWHM / FWTM Asymmetric  
Efficiency 92 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

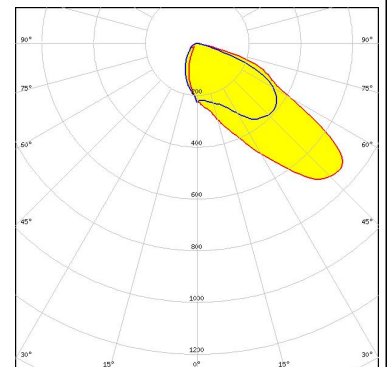
Light distribution files




#### SAMSUNG

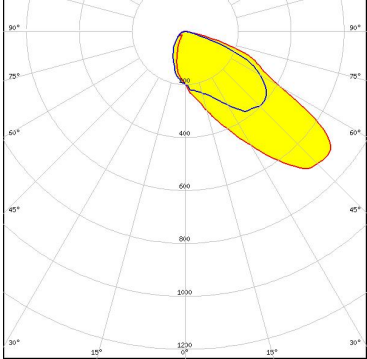
LED LH502D  
FWHM / FWTM Asymmetric  
Efficiency 95 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files




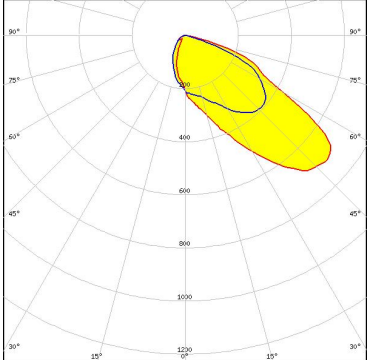
### OPTICAL RESULTS (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	MJT 5050
FWHM / FWTM	Asymmetric
Efficiency	95 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

 SEOUL SEMICONDUCTOR	
LED	SEOUL DC 5050 6V
FWHM / FWTM	Asymmetric
Efficiency	95 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

### MATERIALS:

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#### LEDiL Oy

Joensuunkatu 7  
FI-24100 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Ledil Optics Technology (Shenzhen) Co., Ltd.

# 405 , Block B  
Casic Motor Building  
Shenzhen 518057  
P.R.CHINA

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