

## LISA2-R-PIN

White mini reflector with ~80° wide beam. 6.5 mm high with location pin installation.

### SPECIFICATION:

Dimensions	Ø 9.9
Height	6.6 mm
Fastening	glue, pin
ROHS compliant	yes ⓘ

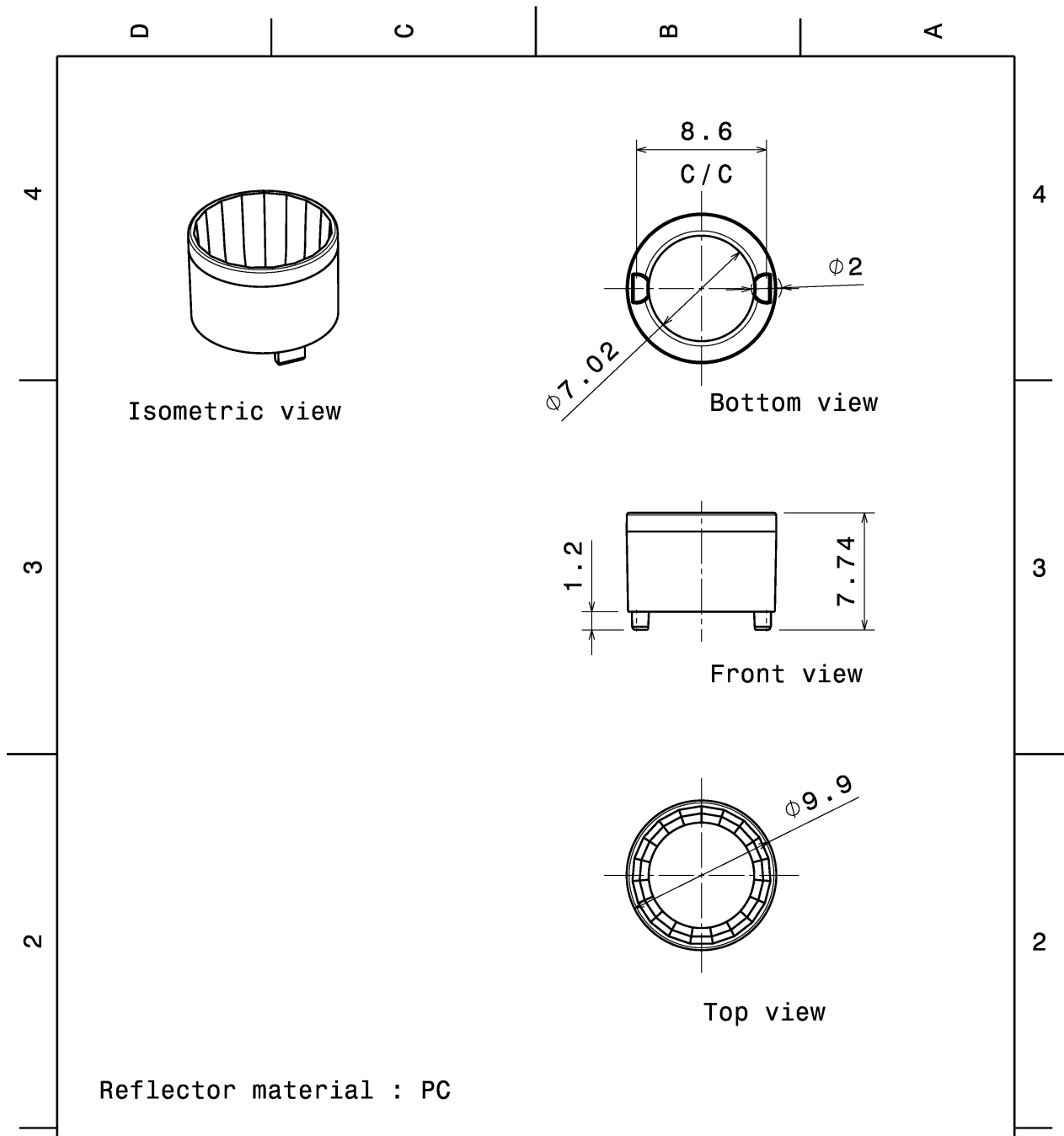
### MATERIALS:

Component	Type	Material	Colour	Finish	Coating
LISA2-R-PIN	Reflector	HRPC	white		



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12469_LISA2-R-PIN » Box size: 254 x 298 x 241 mm	10000	300	100	4.1



Reflector material : PC

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L

**LEDiL** LediL Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**Datasheet\_Lisa2-reflector**

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SIZE	PART NUMBER
A4	-

SCALE	3:1	WEIGHT	-	SHEET	1/1
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See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



LED XB-D  
FWHM / FWTM 81.0° / 148.0°  
Efficiency 87 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

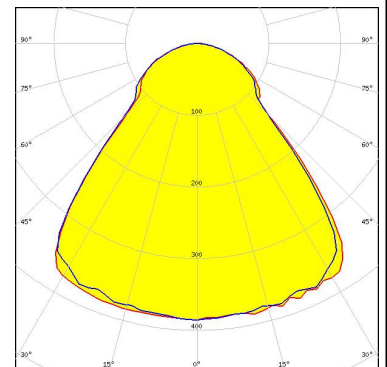


LED XP-E  
FWHM / FWTM 82.0° / 152.0°  
Efficiency 86 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files



LED XP-G  
FWHM / FWTM 86.0° / 154.0°  
Efficiency 89 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

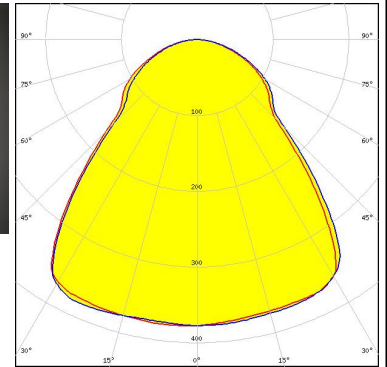
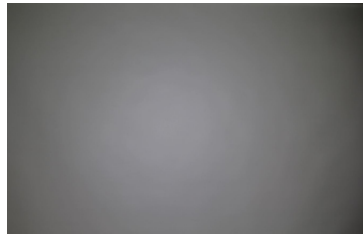


Light distribution files

### OPTICAL RESULTS (MEASURED):



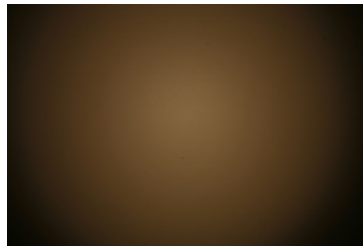
LED XP-G3  
FWHM / FWTM 86.0° / 152.0°  
Efficiency 88 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XT-E  
FWHM / FWTM 80.0° / 144.0°  
Efficiency 85 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON A  
FWHM / FWTM 83.0° / 152.0°  
Efficiency 88 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

### OPTICAL RESULTS (MEASURED):



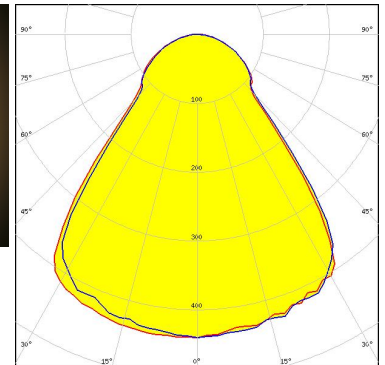
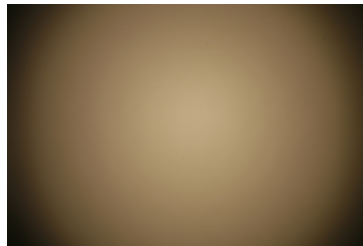
LED LUXEON C  
FWHM / FWTM 84.0° / 154.0°  
Efficiency 83 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON Rebel  
FWHM / FWTM 77.0° / 144.0°  
Efficiency 88 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



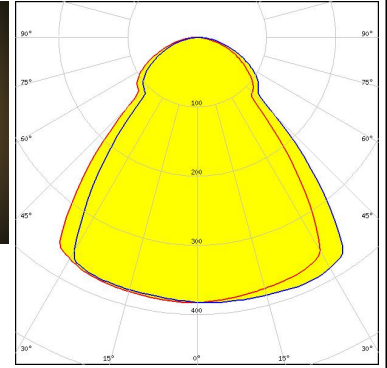
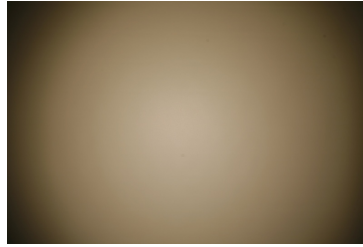
LED LUXEON Rebel ES  
FWHM / FWTM 83.0° / 152.0°  
Efficiency 90 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

### OPTICAL RESULTS (MEASURED):



LED LUXEON T  
FWHM / FWTM 82.0° / 148.0°  
Efficiency 82 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON Z  
FWHM / FWTM 78.0° / 146.0°  
Efficiency 86 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NCSxx19A  
FWHM / FWTM 78.0° / 146.0°  
Efficiency 84 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

### OPTICAL RESULTS (MEASURED):

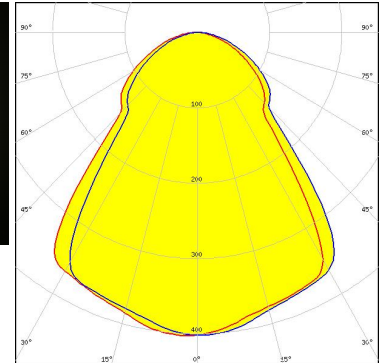
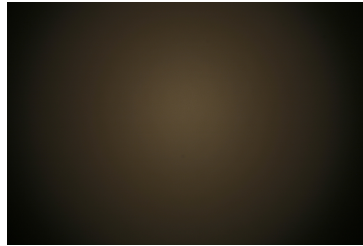


LED NVSxx19A  
FWHM / FWTM 80.0° / 148.0°  
Efficiency 84 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files



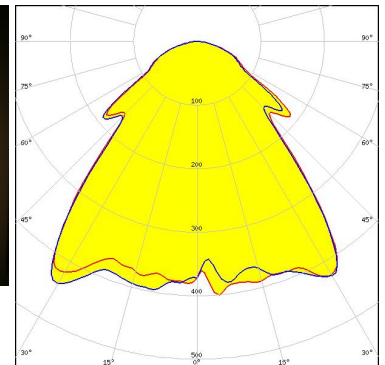
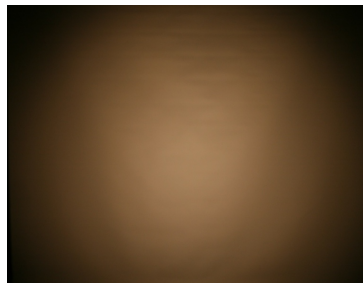
LED OSCONIQ P 2226  
FWHM / FWTM 78.0° / 147.0°  
Efficiency 83 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED OSLOM Square EC  
FWHM / FWTM 82.0° / 152.0°  
Efficiency 85 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### OPTICAL RESULTS (MEASURED):

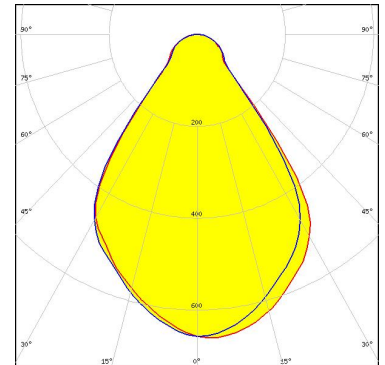
**OSRAM**  
Opto Semiconductors

LED OSLON SSL 150  
FWHM / FWTM 83.0° / 156.0°  
Efficiency 91 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

**OSRAM**  
Opto Semiconductors

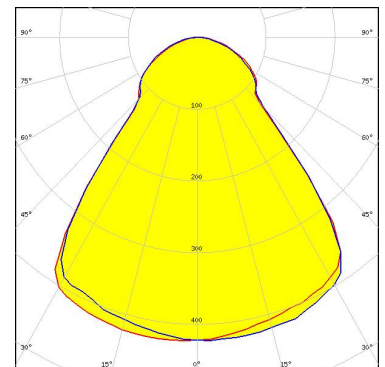
LED OSLON SSL 80  
FWHM / FWTM 76.0° / 132.0°  
Efficiency 92 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files


**SEOL**  
SEOUL SEMICONDUCTOR

LED Z5  
FWHM / FWTM 80.0° / 150.0°  
Efficiency 84 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

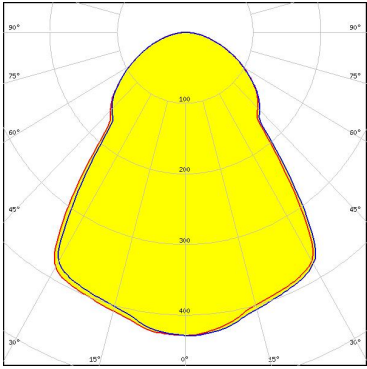



Light distribution files


### OPTICAL RESULTS (MEASURED):

  
SEOUL SEMICONDUCTOR

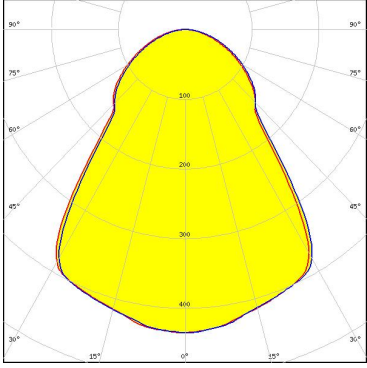
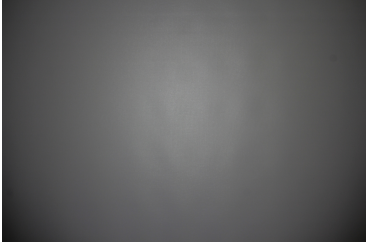
LED                    Z8Y15  
FWHM / FWTM      76.0° / 148.0°  
Efficiency            87 %  
Peak intensity      0.4 cd/lm  
LEDs/each optic    1  
Light colour/type   White  
Required components:



Light distribution files

  
SEOUL SEMICONDUCTOR

LED                    Z8Y19  
FWHM / FWTM      76.0° / 147.0°  
Efficiency            86 %  
Peak intensity      0.4 cd/lm  
LEDs/each optic    1  
Light colour/type   White  
Required components:

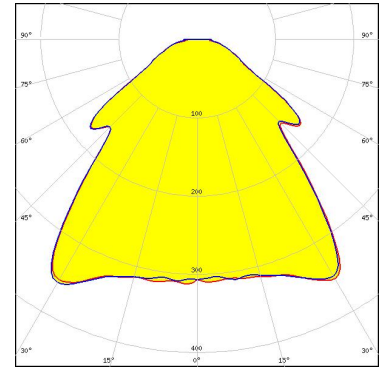


Light distribution files

### OPTICAL RESULTS (SIMULATED):



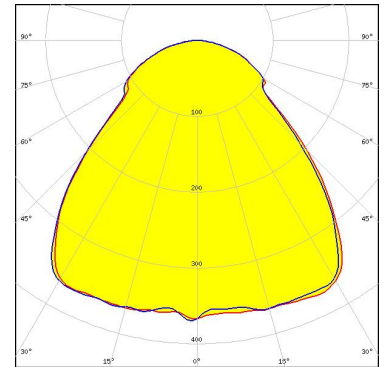
LED XDP16  
FWHM / FWTM 82.0° / 151.0°  
Efficiency 83 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



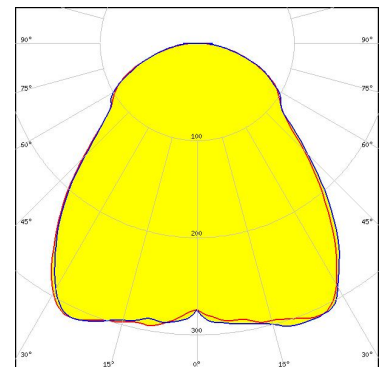
LED XHP35 HD  
FWHM / FWTM 91.0° / 154.0°  
Efficiency 92 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XHP35.2 HD  
FWHM / FWTM 91.0° / 159.0°  
Efficiency 79 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

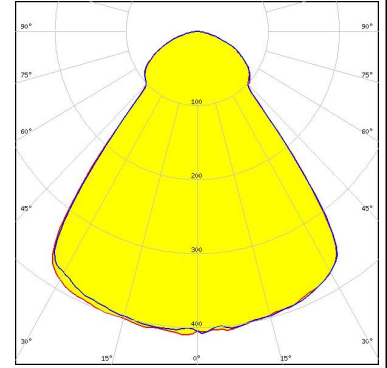
#### OPTICAL RESULTS (SIMULATED):



LED XP-E2  
 FWHM / FWTM 79.0° / 142.0°  
 Efficiency 79 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

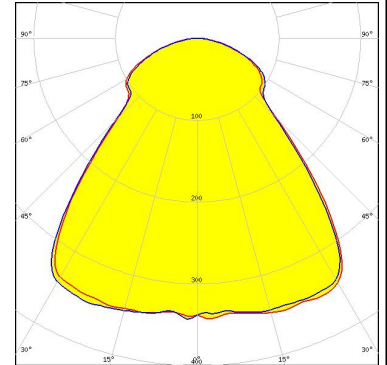
Protective plate, glass

Light distribution files



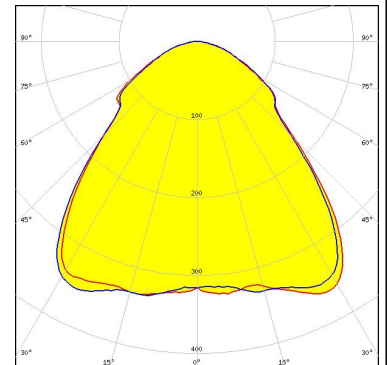
LED XP-G2 HE  
 FWHM / FWTM 85.0° / 154.0°  
 Efficiency 82 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Light distribution files



LED XP-L HD  
 FWHM / FWTM 81.0° / 145.0°  
 Efficiency 83 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Light distribution files



#### OPTICAL RESULTS (SIMULATED):

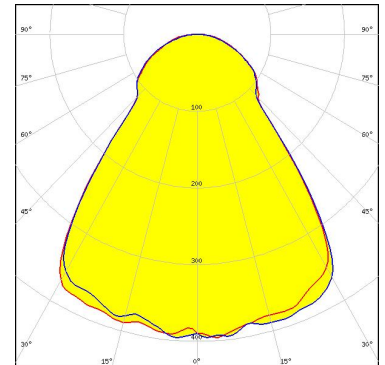


LED XQ-E HD  
FWHM / FWTM 76.0° / 145.0°  
Efficiency 90 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files



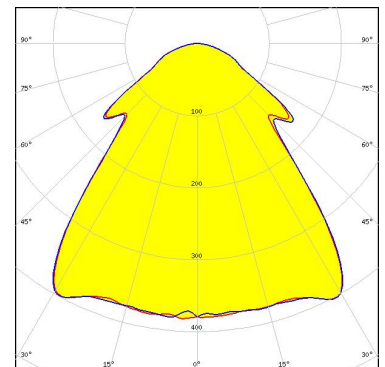
LED XT-E  
FWHM / FWTM 78.0° / 150.0°  
Efficiency 80 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON 2835 Architectural  
FWHM / FWTM 80.0° / 144.0°  
Efficiency 85 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

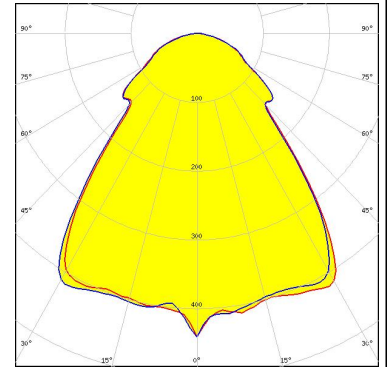


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



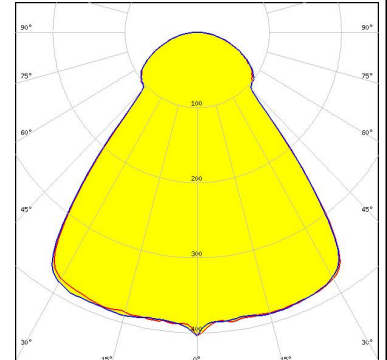
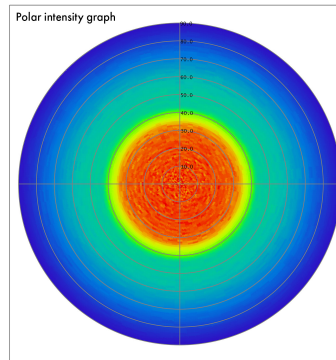
LED LUXEON H50-2  
 FWHM / FWTM 80.0° / 146.0°  
 Efficiency 90 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



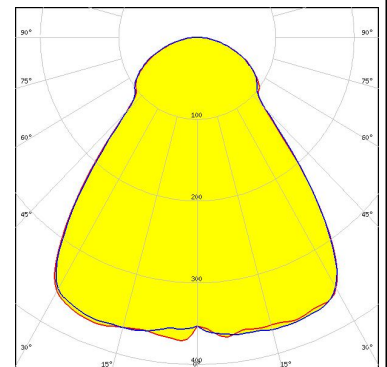
LED SST-10-B130  
 FWHM / FWTM 80.0° / 149.0°  
 Efficiency 82 %  
 LEDs/each optic 1  
 Light colour/type IR  
 Required components:



Light distribution files



LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 82.0° / 150.0°  
 Efficiency 80 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

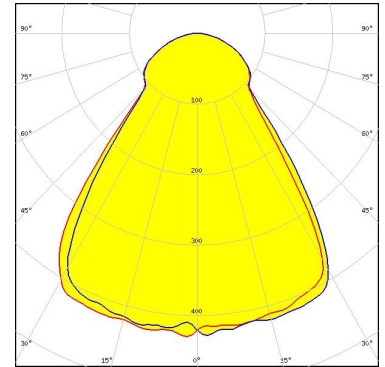


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

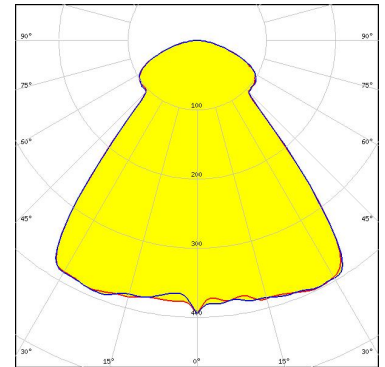
LED DURIS S5 (2 chip)  
FWHM / FWTM 76.0° / 146.0°  
Efficiency 82 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

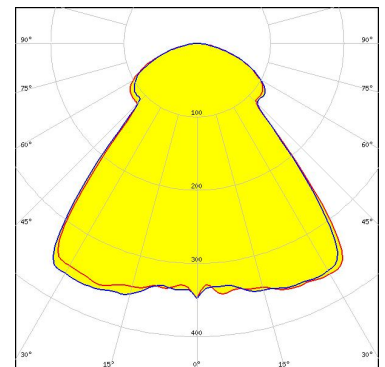
LED OSLO Signal  
FWHM / FWTM 80.0° / 150.0°  
Efficiency 84 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type Green  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLO Signal  
FWHM / FWTM 82.0° / 152.0°  
Efficiency 82 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type Red  
Required components:

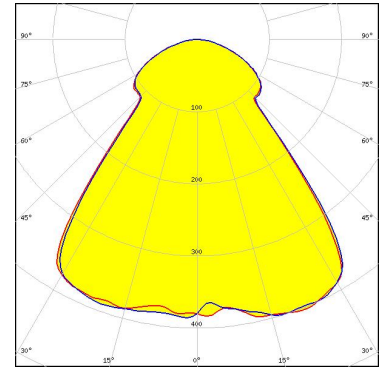


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

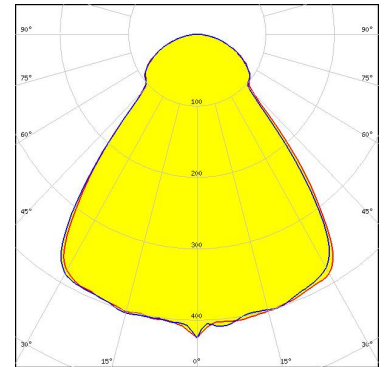
LED OSLON Signal  
FWHM / FWTM 78.0° / 148.0°  
Efficiency 83 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type Yellow  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

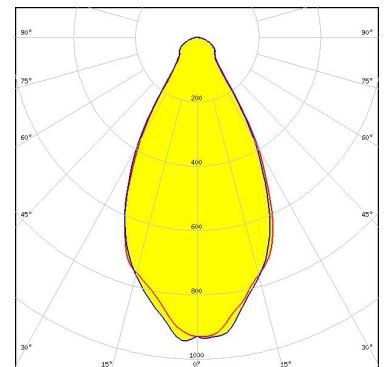
LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM 80.0° / 146.0°  
Efficiency 83 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED SFH 4727AS  
FWHM / FWTM 55.0° / 83.0°  
Efficiency 89 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type IR  
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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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#### LEDiL Oy

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P.R.CHINA

#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Poznan, Poland  
Hong Kong, China

#### Distribution Partners

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)