

## HB-2X2-RW

~50° wide beam

### SPECIFICATION:

Dimensions	50.0 x 50.0
Height	8.5 mm
Fastening	glue, pin, screw
ROHS compliant	yes 

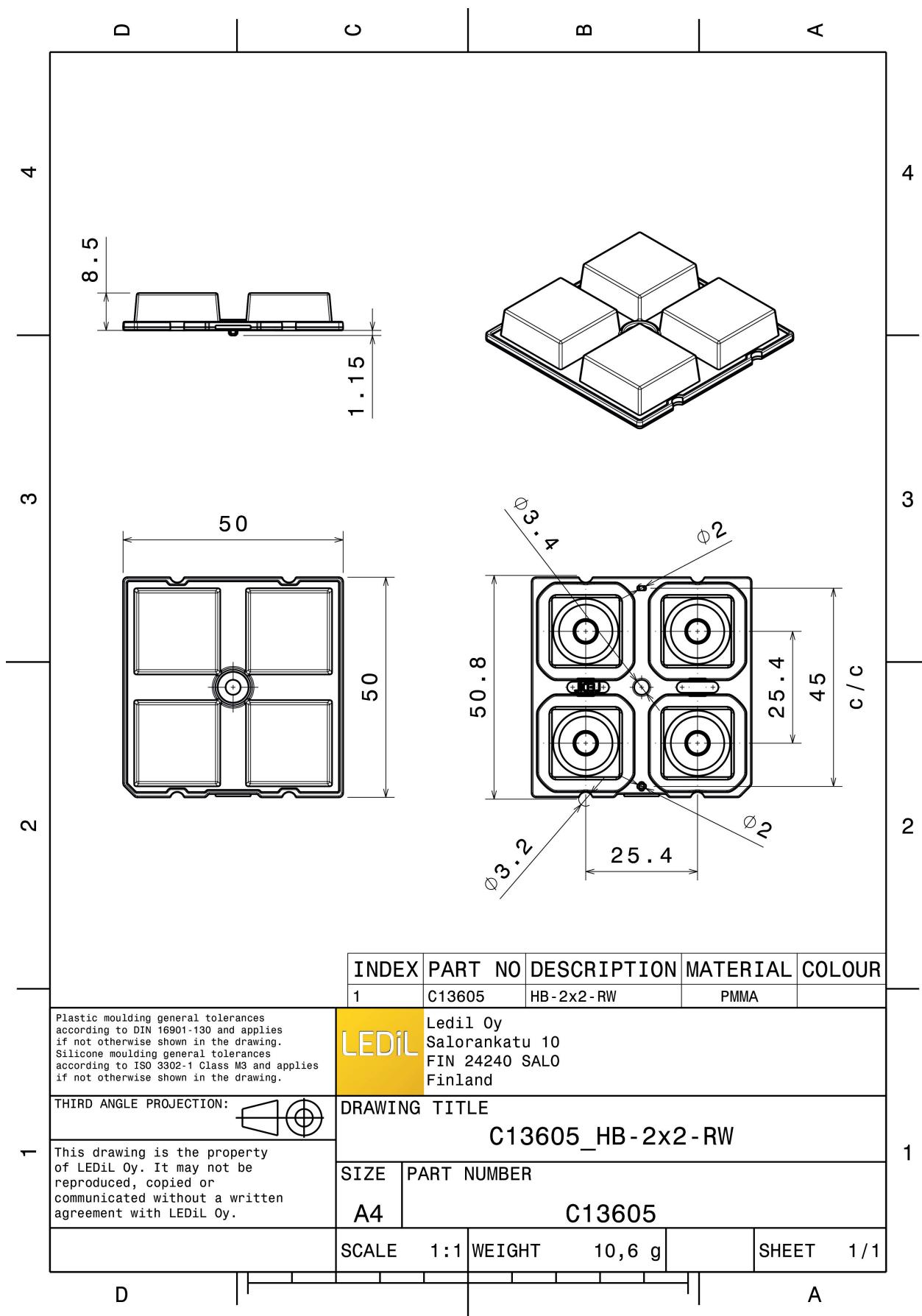


### MATERIALS:

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

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13605_HB-2X2-RW	800	160	160	9.3
» Box size: 480 x 280 x 300 mm				



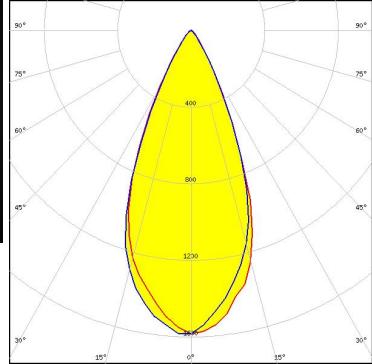
See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

## OPTICAL RESULTS (MEASURED):



LED XB-D  
 FWHM / FWTM 46.0° / 68.0°  
 Efficiency 88 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

C13605\_HB-2X2-RW\_100-01

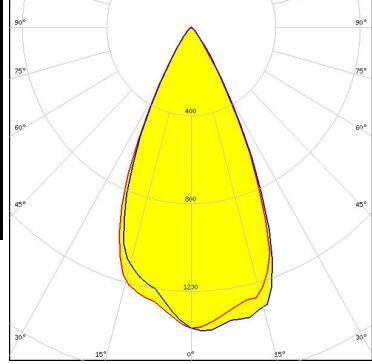
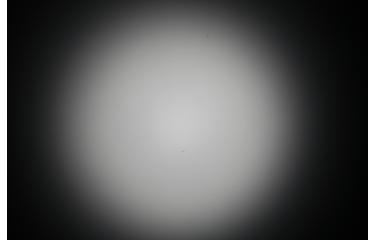


Light distribution files



LED XP-E  
 FWHM / FWTM 51.0° / 72.0°  
 Efficiency 89 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

C13605\_HB-2X2-RW\_100-01

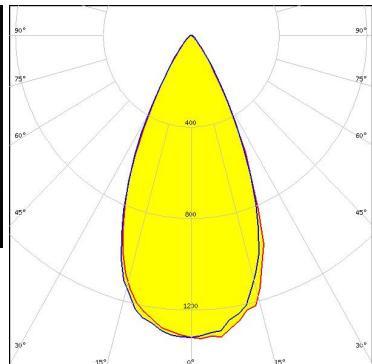


Light distribution files



LED XP-G  
 FWHM / FWTM 50.0° / 76.0°  
 Efficiency 89 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

C13605\_HB-2X2-RW\_100-01

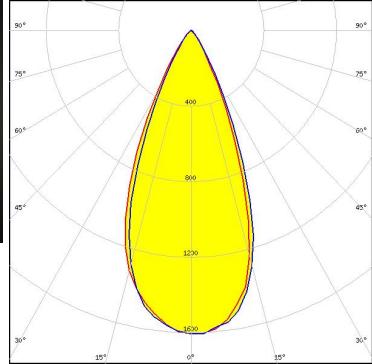


Light distribution files

## OPTICAL RESULTS (MEASURED):



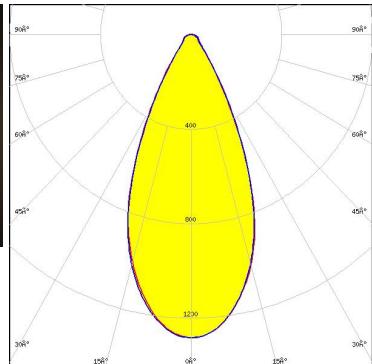
LED XT-E  
FWHM / FWTM 44.0° / 68.0°  
Efficiency 91 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



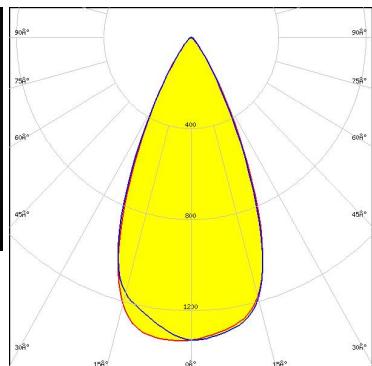
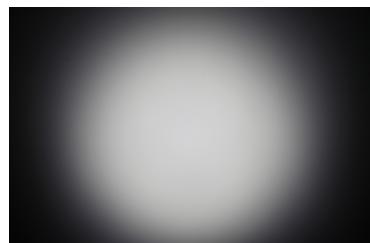
LED PL-BRICK HP 3800 2x8 SSG  
FWHM / FWTM 47.0° / 75.0°  
Efficiency 95 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED PrevaLED Brick HP 2x8  
FWHM / FWTM 49.0° / 73.0°  
Efficiency 89 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

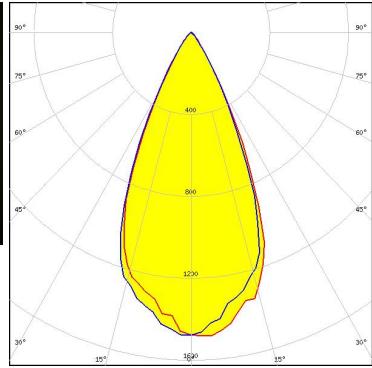


Light distribution files

## OPTICAL RESULTS (MEASURED):



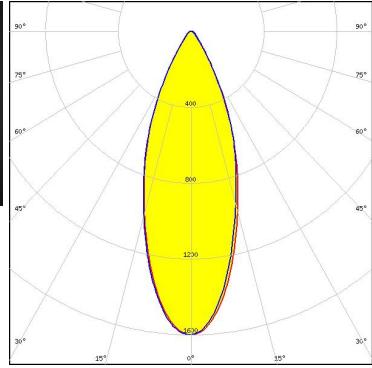
LED NCSxx19A  
 FWHM / FWTM 49.0° / 71.0°  
 Efficiency 90 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



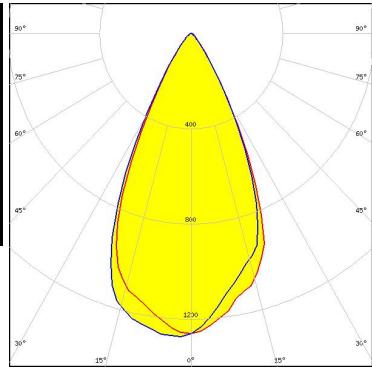
LED NVSxE21A  
 FWHM / FWTM 37.0° / 68.0°  
 Efficiency 84 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NVSxx19A  
 FWHM / FWTM 52.0° / 76.0°  
 Efficiency 88 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

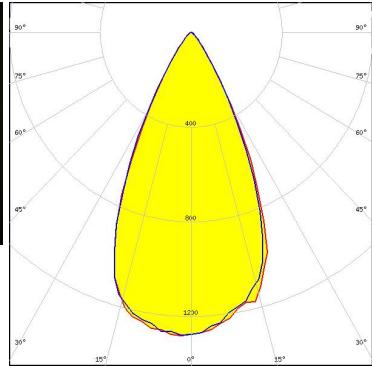
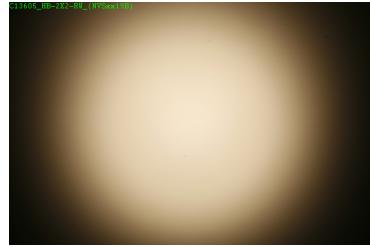


Light distribution files

## OPTICAL RESULTS (MEASURED):



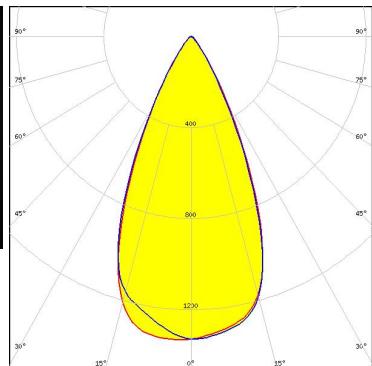
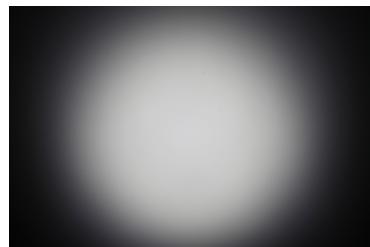
**LED** NVSxx19B/NVSxx19C  
**FWHM / FWTM** 51.0° / 76.0°  
**Efficiency** 90 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



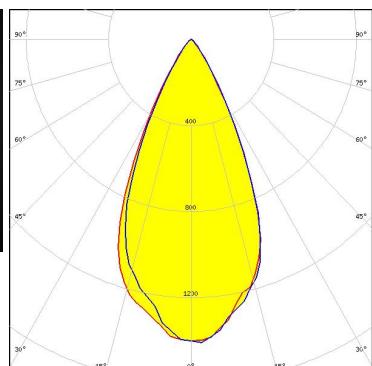
**LED** OSLON Square CSSRM2/CSSRM3  
**FWHM / FWTM** 49.0° / 73.0°  
**Efficiency** 89 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files

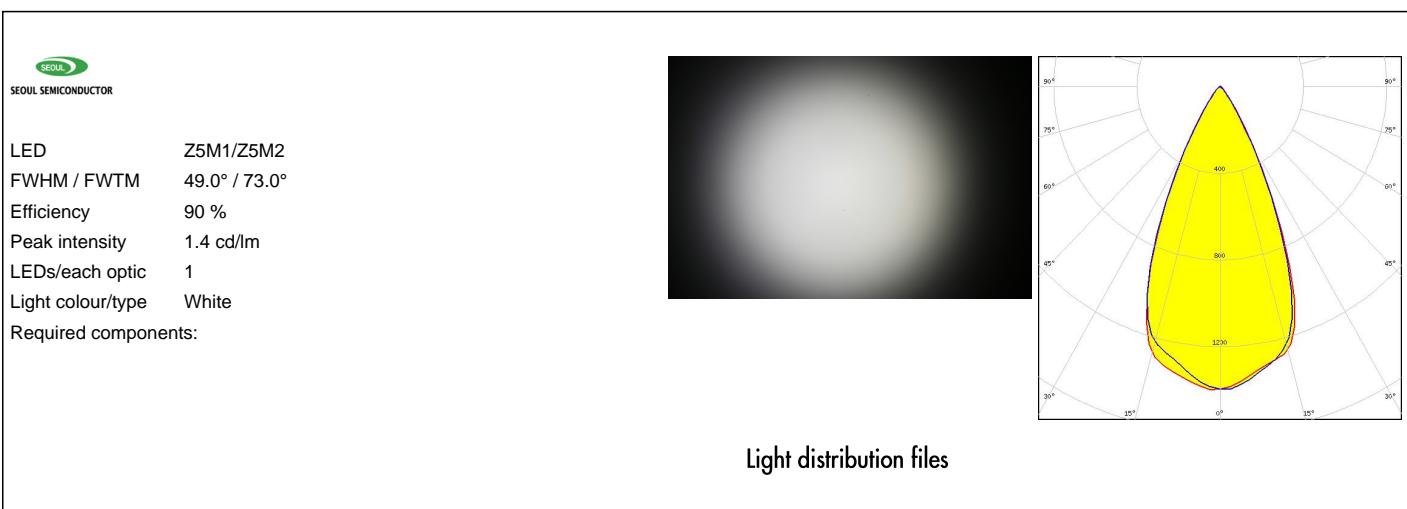
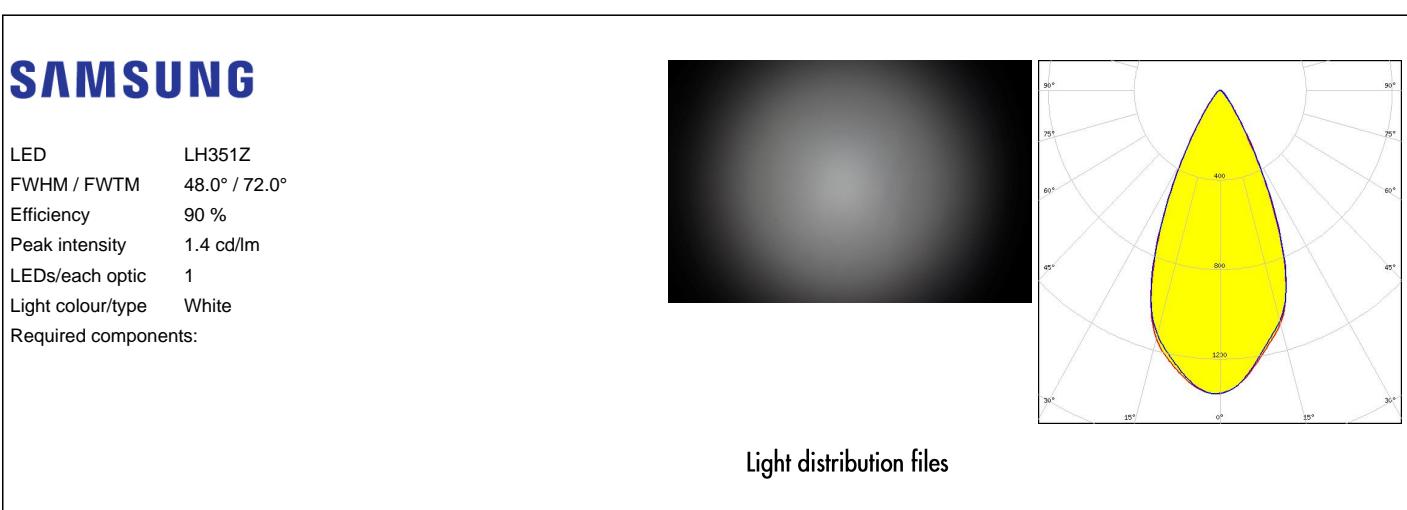
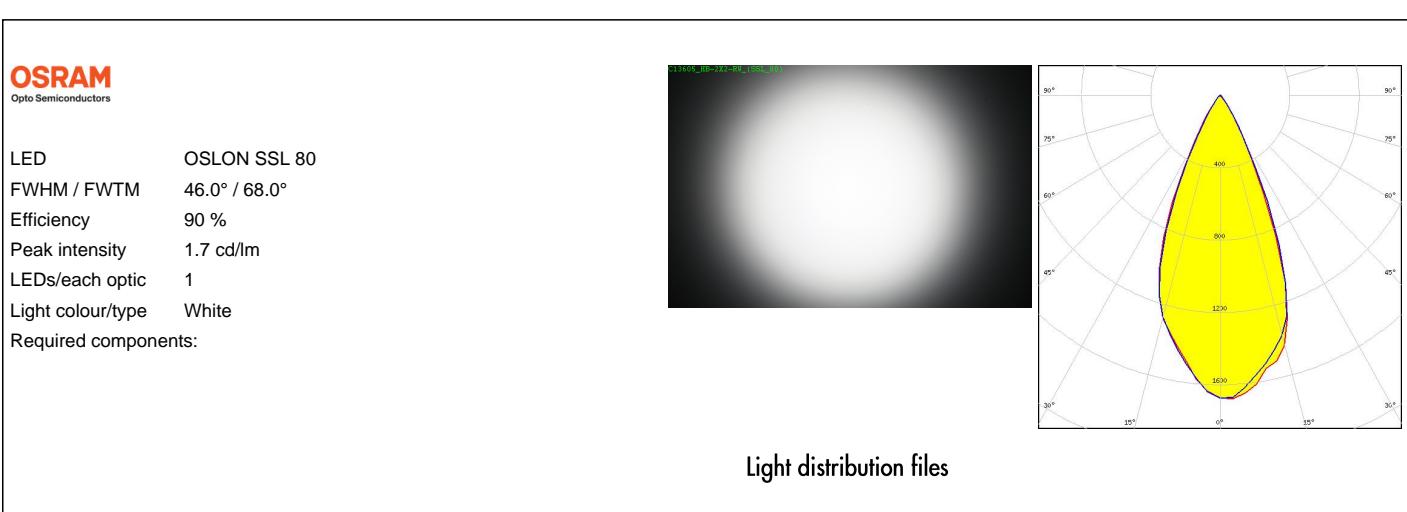


**LED** OSLON Square PC  
**FWHM / FWTM** 50.0° / 73.0°  
**Efficiency** 90 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

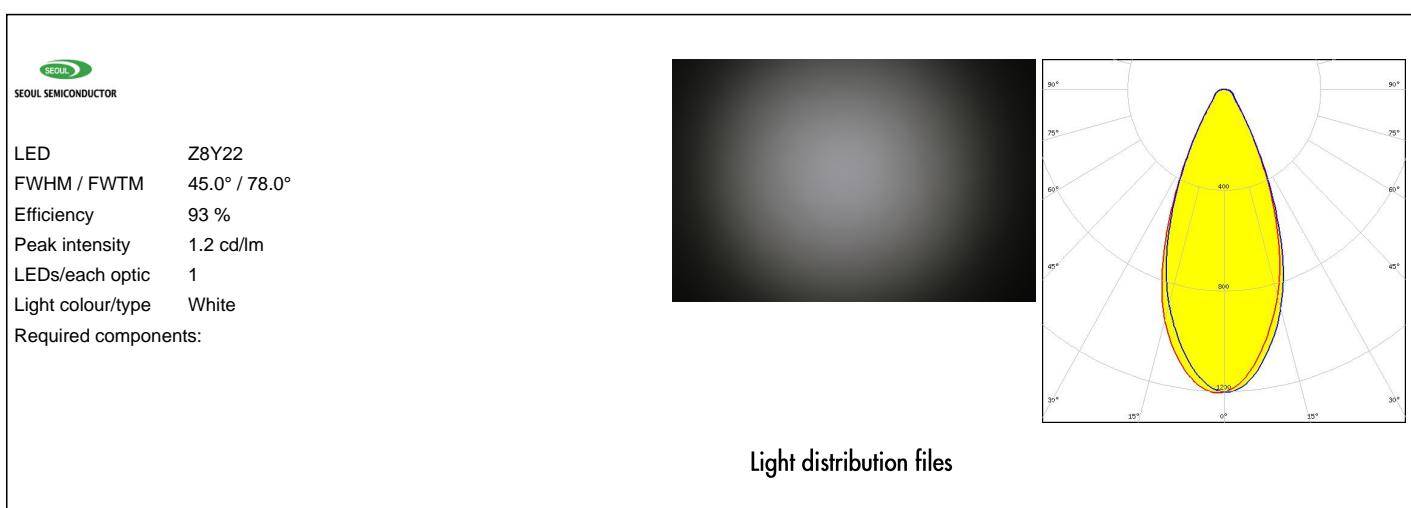
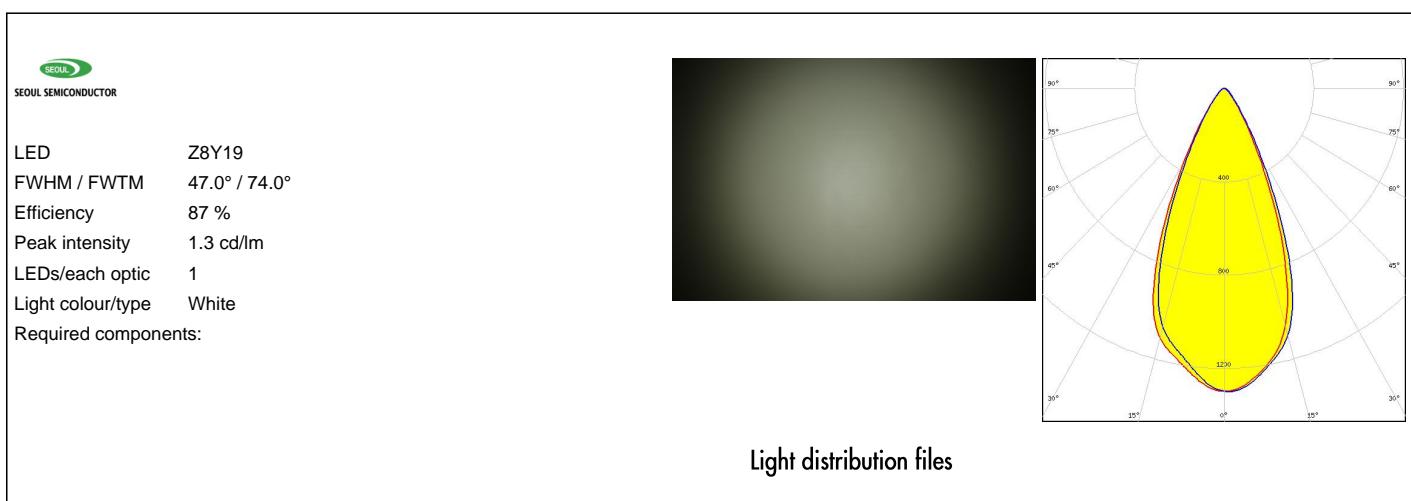
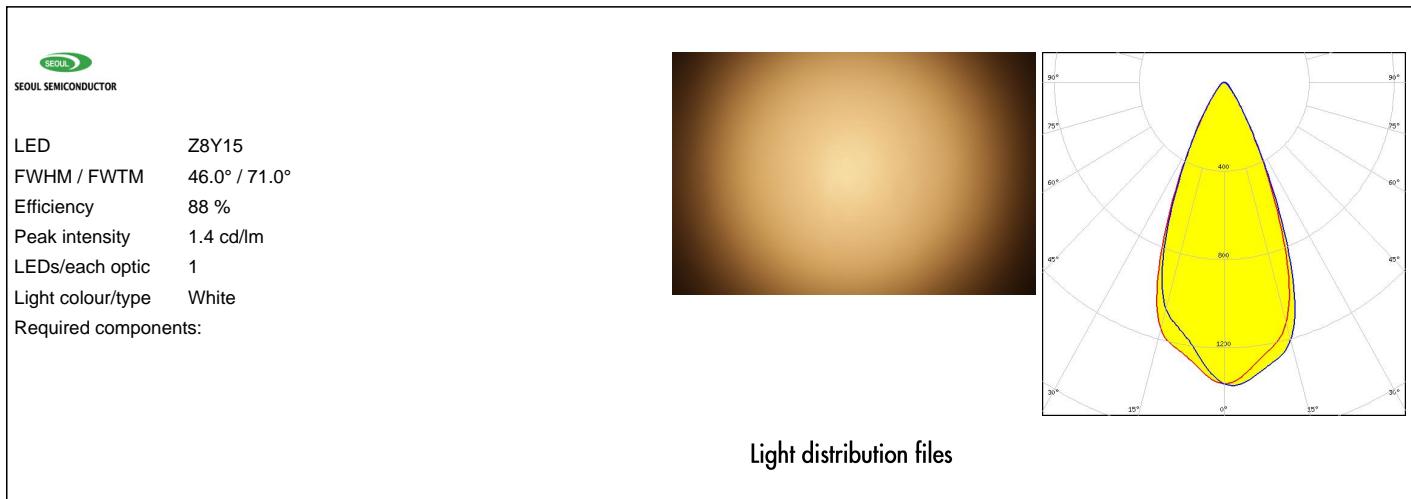


Light distribution files

## OPTICAL RESULTS (MEASURED):



## OPTICAL RESULTS (MEASURED):

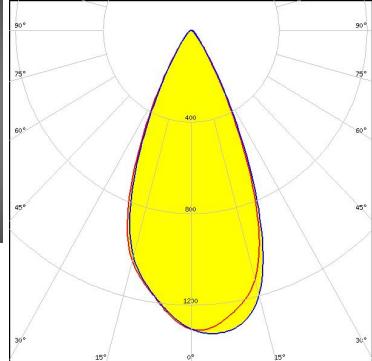


## OPTICAL RESULTS (MEASURED):

### TOSHIBA

Leading Innovation >>>

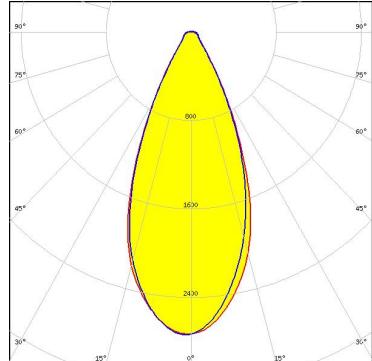
LED TL1L4  
FWHM / FWTM 47.0° / 70.0°  
Efficiency 83 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### TRIDONIC

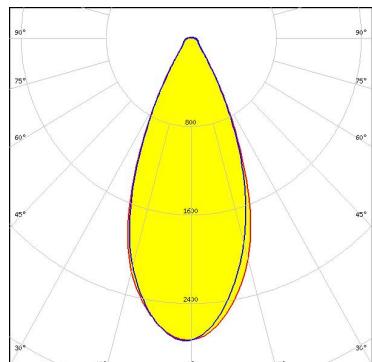
LED RLE G1 49x121mm 2000lm xxx EXC OTD  
FWHM / FWTM 45.0° / 74.0°  
Efficiency 94 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD  
FWHM / FWTM 45.0° / 74.0°  
Efficiency 94 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

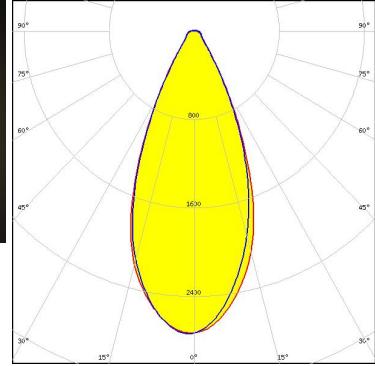


Light distribution files

## OPTICAL RESULTS (MEASURED):

### TRIDONIC

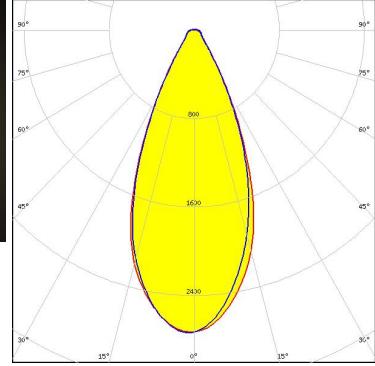
LED RLE G1 49x223mm 4000lm xxx EXC OTD  
FWHM / FWTM 45.0° / 74.0°  
Efficiency 94 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD  
FWHM / FWTM 45.0° / 74.0°  
Efficiency 94 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

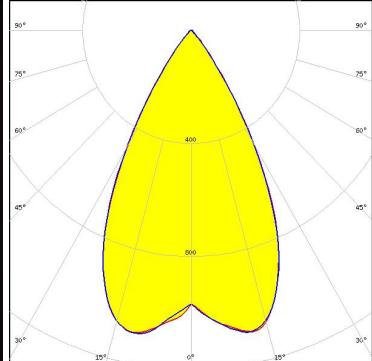


Light distribution files

## OPTICAL RESULTS (SIMULATED):



**LED** XQ-E HD  
**FWHM / FWTM** 57.0° / 78.0°  
**Efficiency** 97 %  
**Peak intensity** 1.2 cd/lm  
**LEDs/each optic** 4  
**Light colour/type** RGBW  
**Required components:**

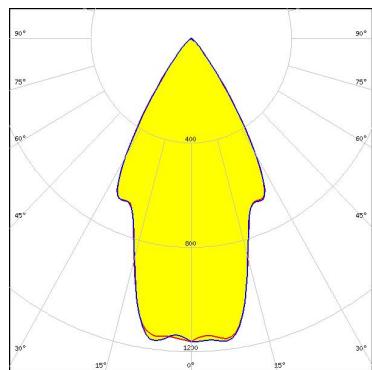


Light distribution files



**LED** OSCONIQ C 3030  
**FWHM / FWTM** 58.0° / 80.0°  
**Efficiency** 89 %  
**Peak intensity** 1.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

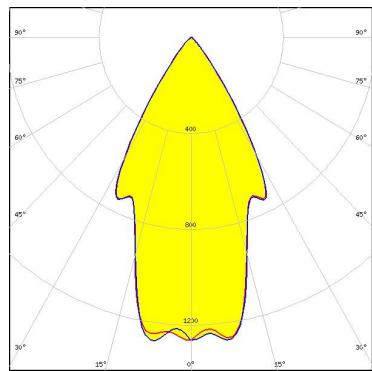
Protective plate, glass



Light distribution files



**LED** OSCONIQ C 3030  
**FWHM / FWTM** 58.0° / 78.0°  
**Efficiency** 97 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files

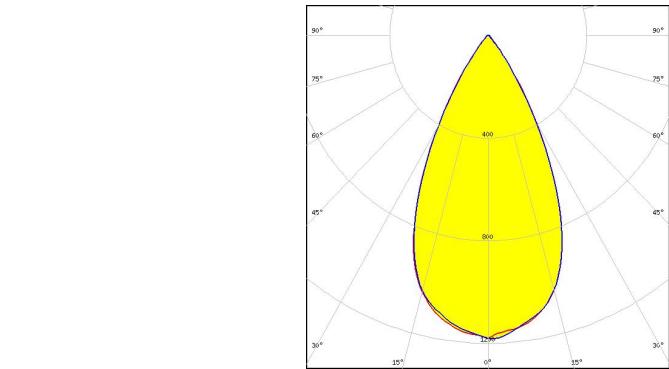
## OPTICAL RESULTS (SIMULATED):

**OSRAM**

Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM 52.0° / 76.0°  
Efficiency 88 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

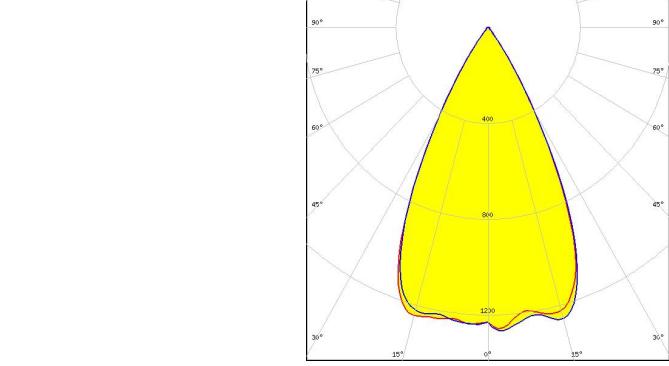


Light distribution files

**SEoul**

SEoul SEMICONDUCTOR

LED Z8Y22T  
FWHM / FWTM 54.0° / 71.0°  
Efficiency 94 %  
Peak intensity 1.3 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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