

## HB-2X2-WWW

~100° wide beam

### SPECIFICATION:

Dimensions	50.0 x 50.0
Height	10 mm
Fastening	tape, screw
ROHS compliant	yes ⓘ

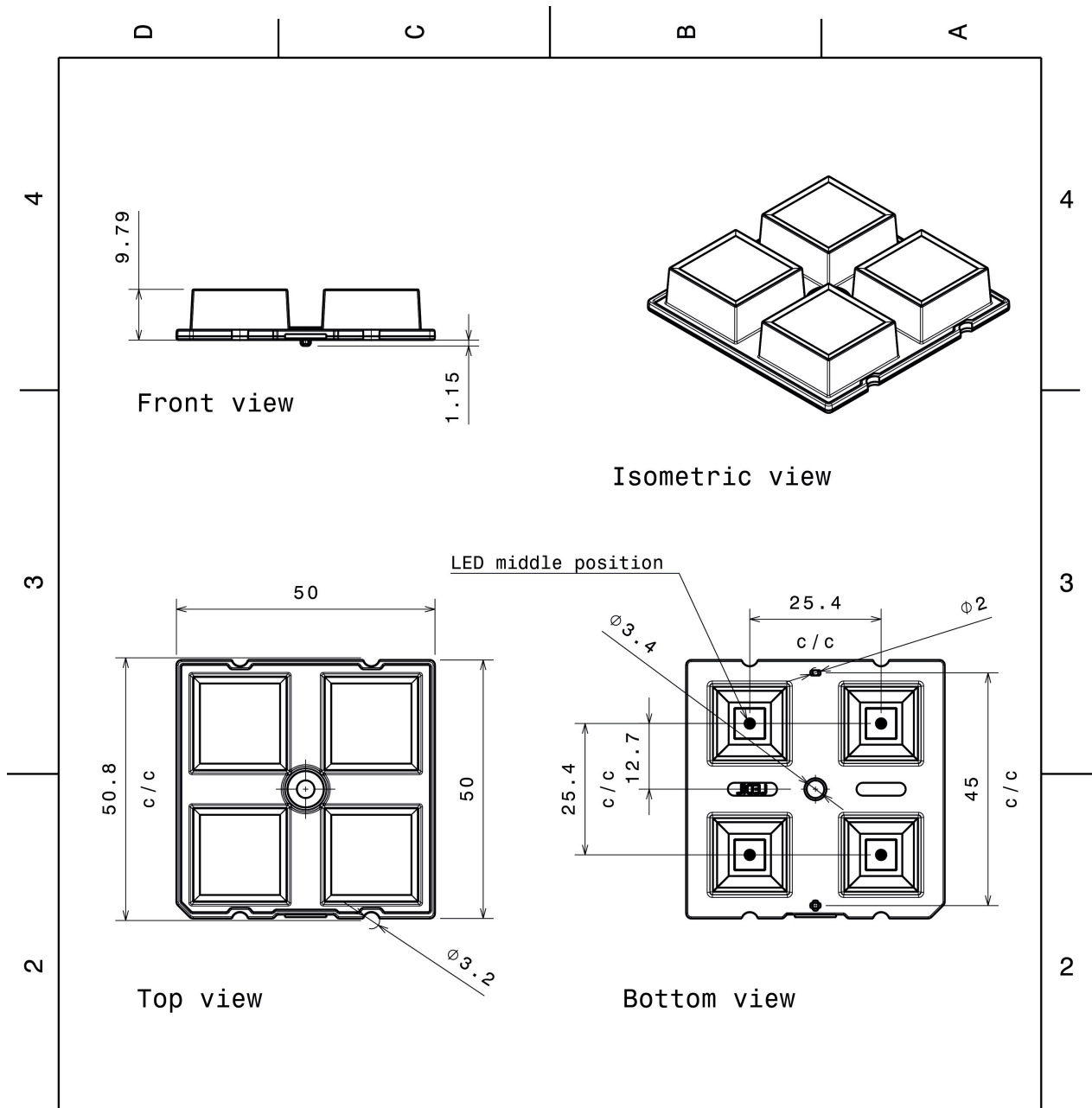
### MATERIALS:

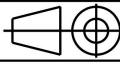
Component	Type	Material	Colour	Finish	Length (mm)
HB-2X2-WWW	Multi-lens	PMMA	clear		



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C14724_HB-2X2-WWW » Box size: 480 x 280 x 300 mm	800	160	160	11.7



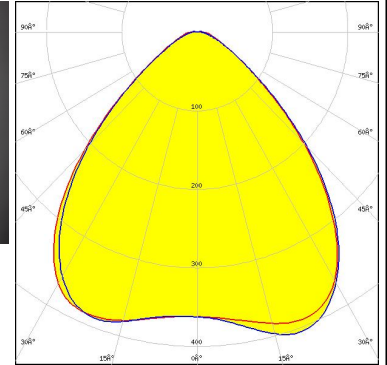
INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C14724	HB-2x2-WWW	PMMA	
<p>Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.</p>		<p><b>LEDiL</b> Ledil Oy Salorankatu 10 FIN 24240 SALO Finland</p>		
<p>THIRD ANGLE PROJECTION: </p>		<p>DRAWING TITLE <b>C14724_HB-2x2-WWW</b></p>		
<p>This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.</p>		<p>SIZE <b>A4</b></p>	<p>PART NUMBER <b>C14724</b></p>	
<p>SCALE 1:1</p>		<p>WEIGHT 13,66 g</p>	<p>SHEET 1/1</p>	

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

#### OPTICAL RESULTS (MEASURED):

bridgelux

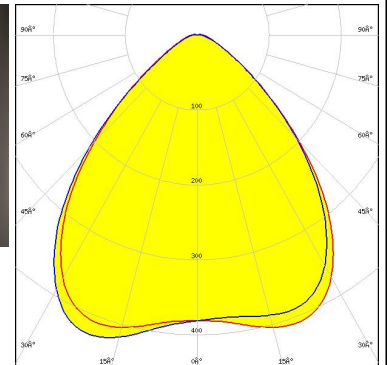
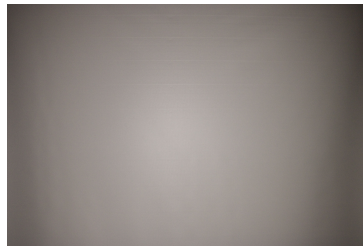
LED Bridgelux SMD 5050  
 FWHM / FWTM 94.0° / 133.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

CREE  
LEDs

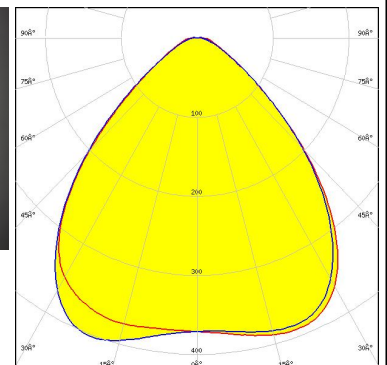
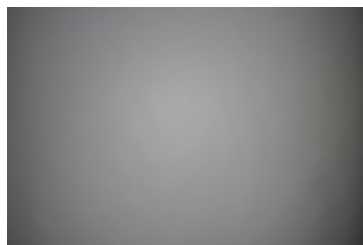
LED J Series 5050C 6V E Class  
 FWHM / FWTM 89.0° / 127.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

CREE  
LEDs

LED XD16  
 FWHM / FWTM 92.0° / 131.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 4  
 Light colour/type White  
 Required components:

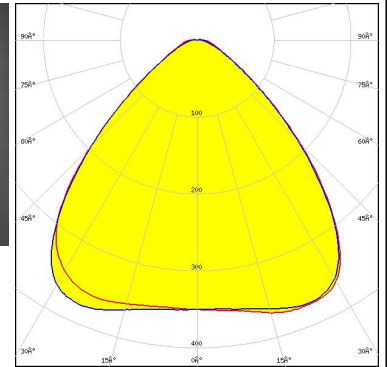
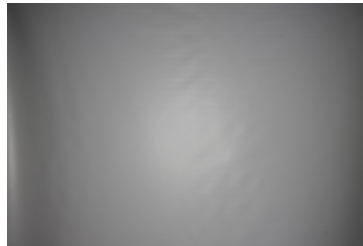


Light distribution files

## OPTICAL RESULTS (MEASURED):



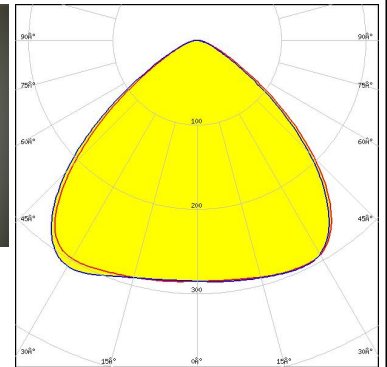
LED XD16  
 FWHM / FWTM 93.0° / 132.0°  
 Efficiency 91 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XHP35 HD  
 FWHM / FWTM 101.0° / 132.0°  
 Efficiency 79 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XM-L3  
 FWHM / FWTM 97.0° / 140.0°  
 Efficiency 91 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

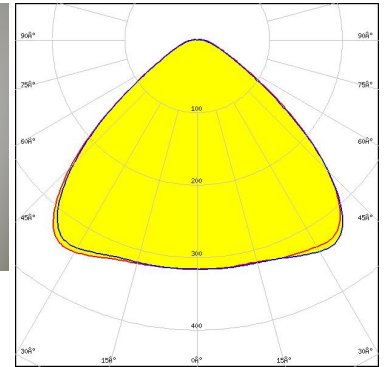


Light distribution files

#### OPTICAL RESULTS (MEASURED):



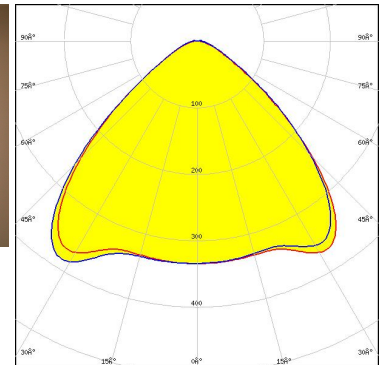
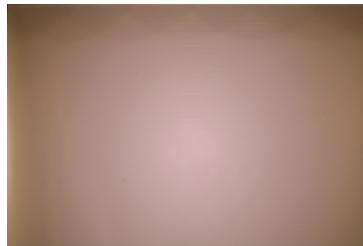
**LED** XP-G2  
**FWHM / FWTM** 106.0° / 144.0°  
**Efficiency** 92 %  
**Peak intensity** 0.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



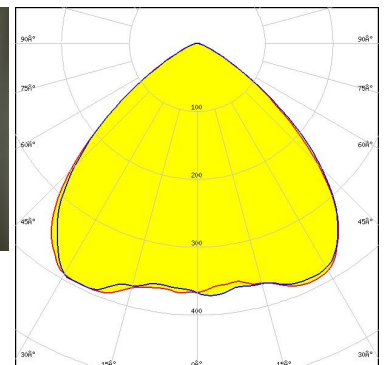
**LED** PL-BRICK HP 3800 2x8 SSG  
**FWHM / FWTM** 98.0° / 131.0°  
**Efficiency** 93 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** PrevaLED Brick HP 2x8  
**FWHM / FWTM** 104.0° / 132.0°  
**Efficiency** 94 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

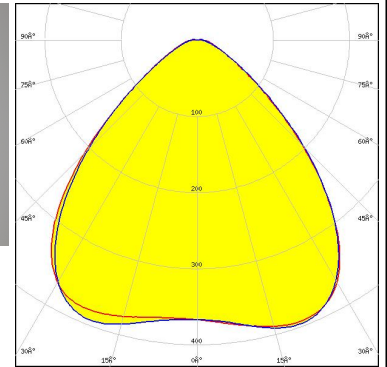


Light distribution files

#### OPTICAL RESULTS (MEASURED):



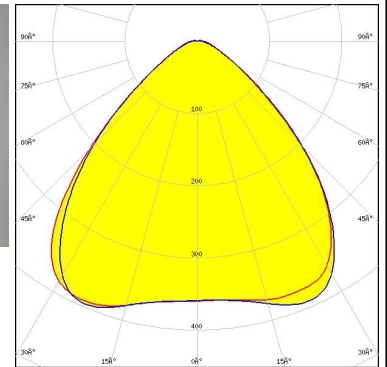
LED LUXEON 5050 Round LES  
 FWHM / FWTM 93.0° / 133.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



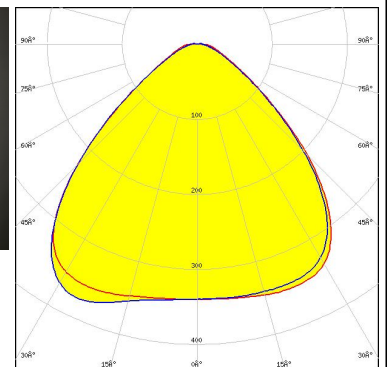
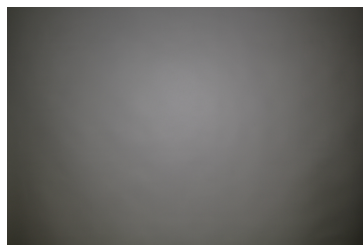
LED LUXEON MZ  
 FWHM / FWTM 94.0° / 131.0°  
 Efficiency 92 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON V  
 FWHM / FWTM 96.0° / 137.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

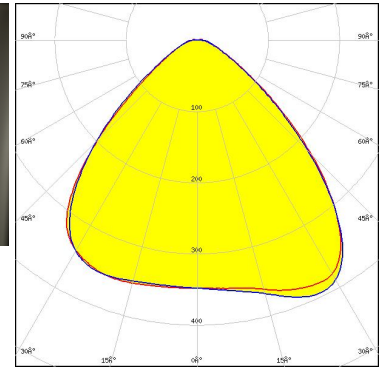
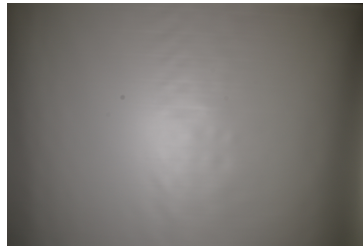


Light distribution files

#### OPTICAL RESULTS (MEASURED):



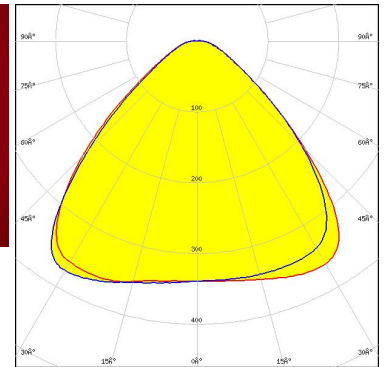
LED LUXEON V2  
 FWHM / FWTM 95.0° / 134.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



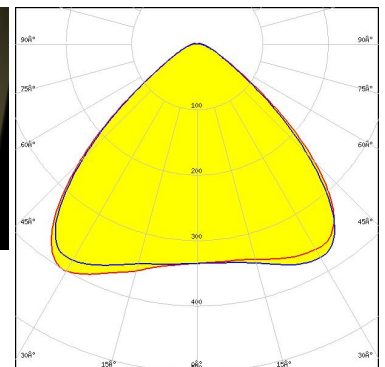
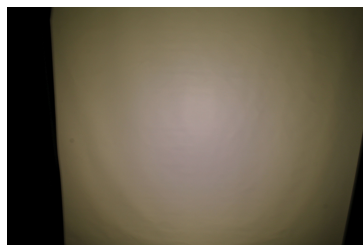
LED SST-10-B130  
 FWHM / FWTM 96.0° / 138.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type Deep Red  
 Required components:



Light distribution files



LED RecLED 122x50mm 1900lm 730 2x4 Opt G1  
 FWHM / FWTM 96.0° / 126.0°  
 Efficiency 95 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

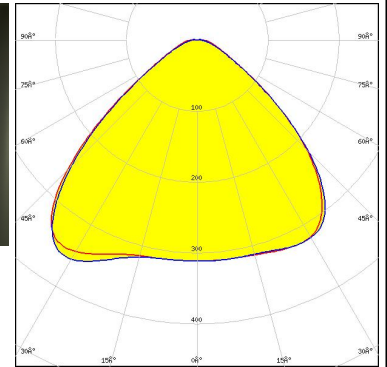


Light distribution files

### OPTICAL RESULTS (MEASURED):



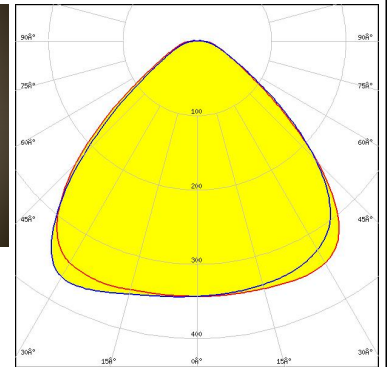
LED NVSW219F  
FWHM / FWTM 102.0° / 140.0°  
Efficiency 93 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



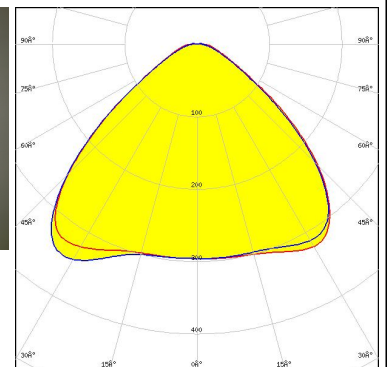
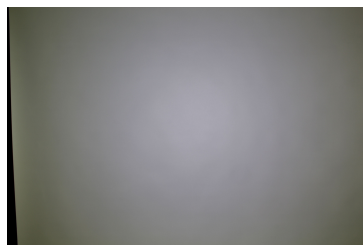
LED NVSW219F  
FWHM / FWTM 97.0° / 139.0°  
Efficiency 92 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NVSW319B  
FWHM / FWTM 104.0° / 144.0°  
Efficiency 92 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



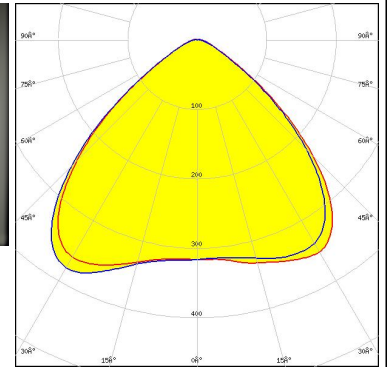
Light distribution files



#### OPTICAL RESULTS (MEASURED):



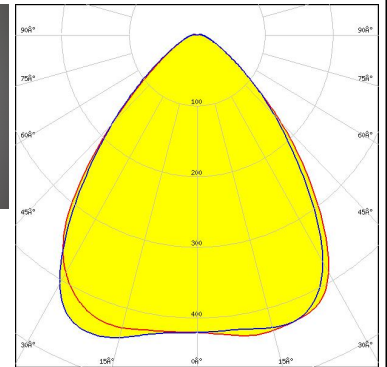
LED NVSW3x9A  
 FWHM / FWTM 101.0° / 130.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



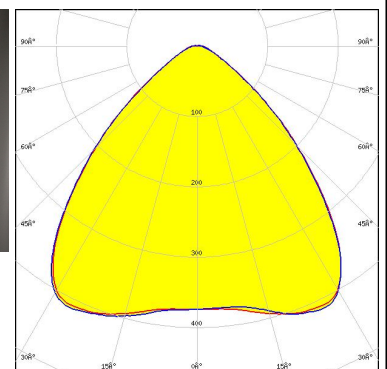
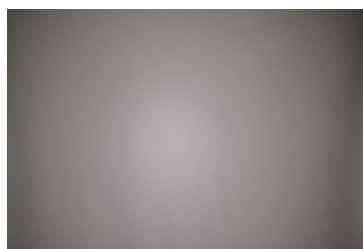
LED NVSxE21A  
 FWHM / FWTM 85.0° / 124.0°  
 Efficiency 92 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED OSCONIQ C 3030  
 FWHM / FWTM 89.0° / 123.0°  
 Efficiency 95 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

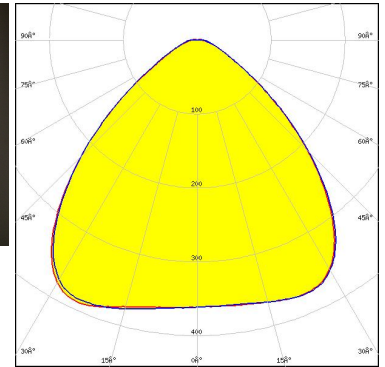
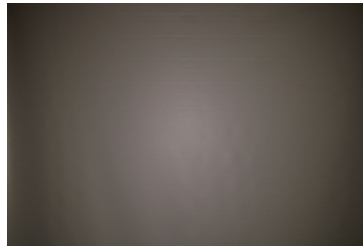


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

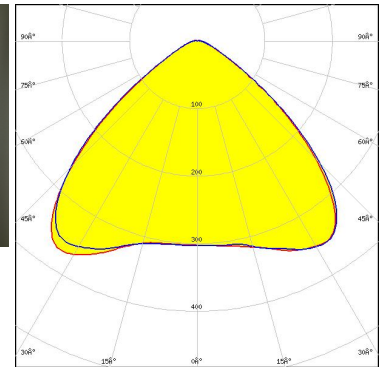
LED OSCONIQ P 3737 (3W version)  
 FWHM / FWTM 94.0° / 132.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

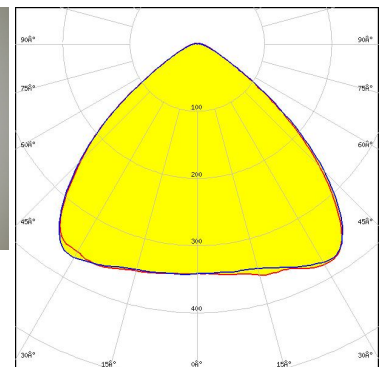
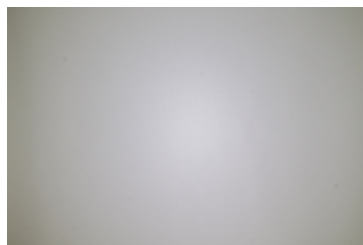
LED OSLOM Square CSSRM2/CSSRM3  
 FWHM / FWTM 104.0° / 132.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLOM Square PC  
 FWHM / FWTM 105.0° / 136.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

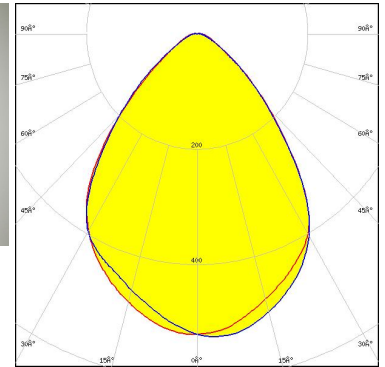


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

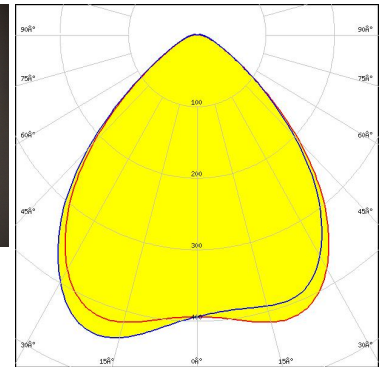
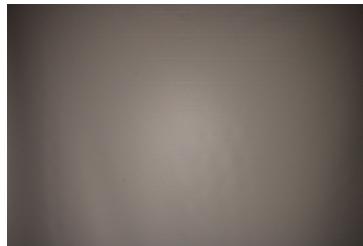
LED OSLON SSL 80  
 FWHM / FWTM 82.0° / 124.0°  
 Efficiency 93 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**PHILIPS**

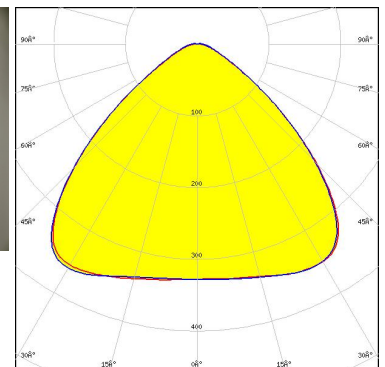
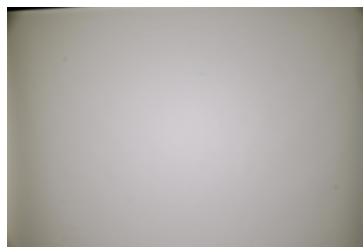
LED Fortimo FastFlex LED 2x8 DA (U)HE  
 FWHM / FWTM 89.0° / 126.0°  
 Efficiency 96 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**PHILIPS**

LED Fortimo FastFlex LED 2x8 DA G4  
 FWHM / FWTM 104.0° / 140.0°  
 Efficiency 92 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

#### OPTICAL RESULTS (MEASURED):

### PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4+

FWHM / FWTM 101.0° / 136.0°

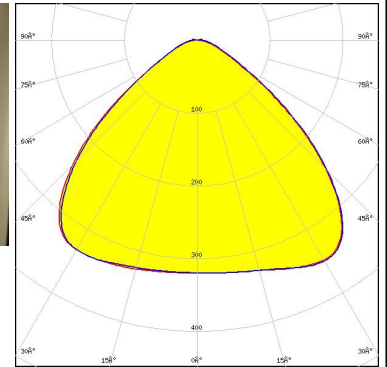
Efficiency 94 %

Peak intensity 0.4 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files

### PHILIPS

LED Fortimo FastFlex LED 2x8 DA G5

FWHM / FWTM 95.0° / 129.0°

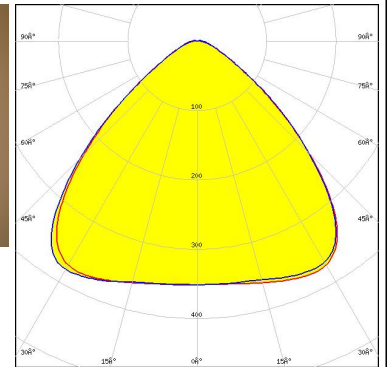
Efficiency 94 %

Peak intensity 0.4 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files

### SAMSUNG

LED HiLOM RC12 Z (LH181B)

FWHM / FWTM 86.0° / 124.0°

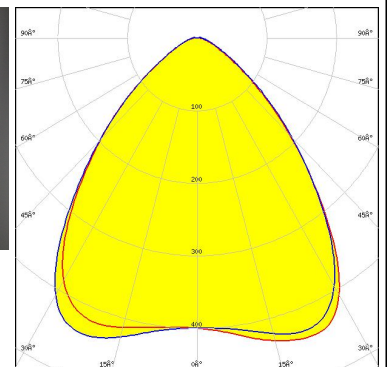
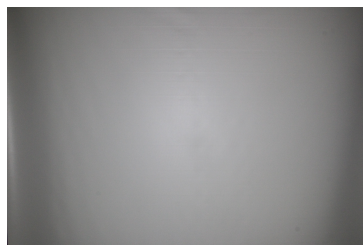
Efficiency 96 %

Peak intensity 0.5 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

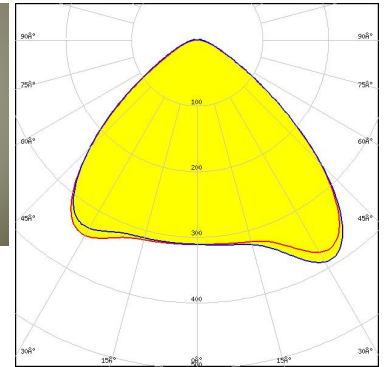


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

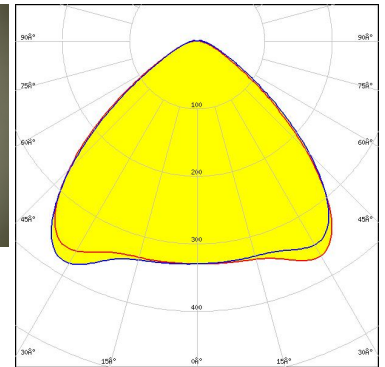
LED HiLOM RH12 Z (LH351C)  
 FWHM / FWTM 98.0° / 133.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### SAMSUNG

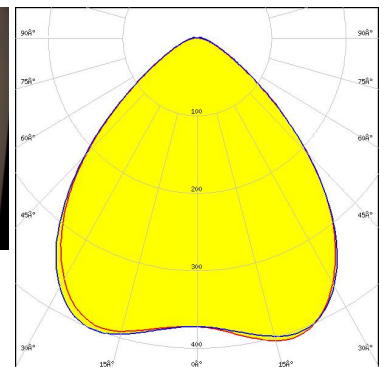
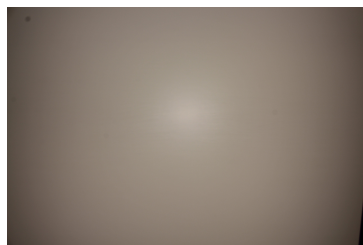
LED HiLOM RH16 (LH351C)  
 FWHM / FWTM 102.0° / 136.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### SAMSUNG

LED HiLOM RM12 Z (LH502C)  
 FWHM / FWTM 91.0° / 129.0°  
 Efficiency 95 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

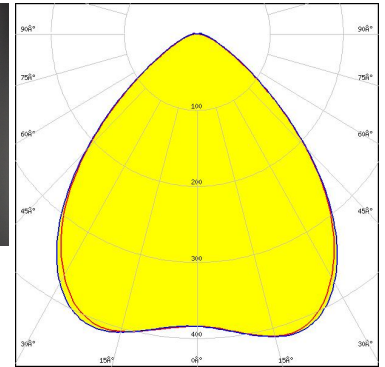


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

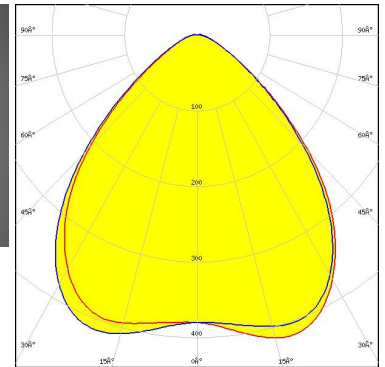
LED HiLOM RM16 Z (LH502C)  
 FWHM / FWTM 91.0° / 129.0°  
 Efficiency 95 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

#### SAMSUNG

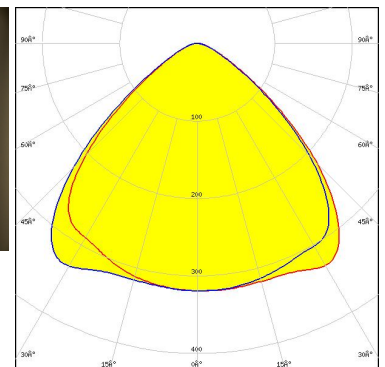
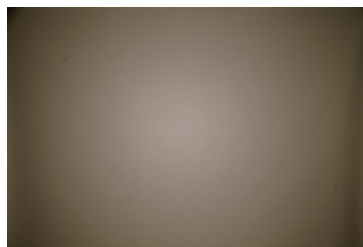
LED HiLOM RM8 Z (LH502C)  
 FWHM / FWTM 91.0° / 129.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

#### SAMSUNG

LED LH351B  
 FWHM / FWTM 102.0° / 135.0°  
 Efficiency 81 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

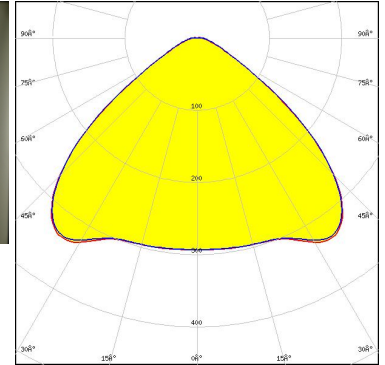


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

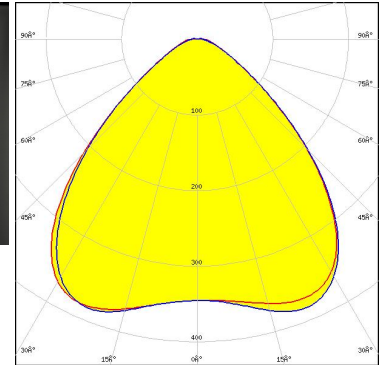
LED LH351D  
 FWHM / FWTM 107.0° / 139.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### SAMSUNG

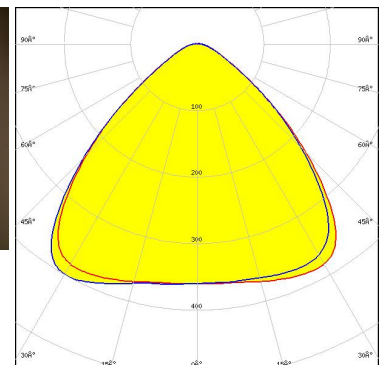
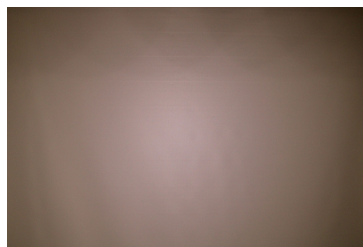
LED LH508A  
 FWHM / FWTM 95.0° / 136.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

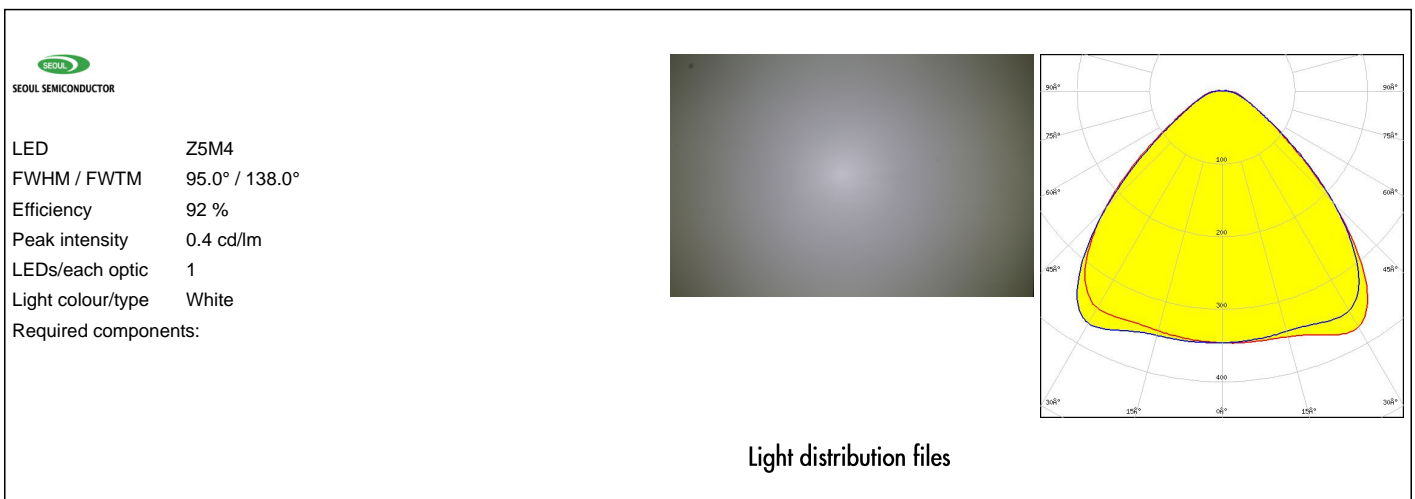
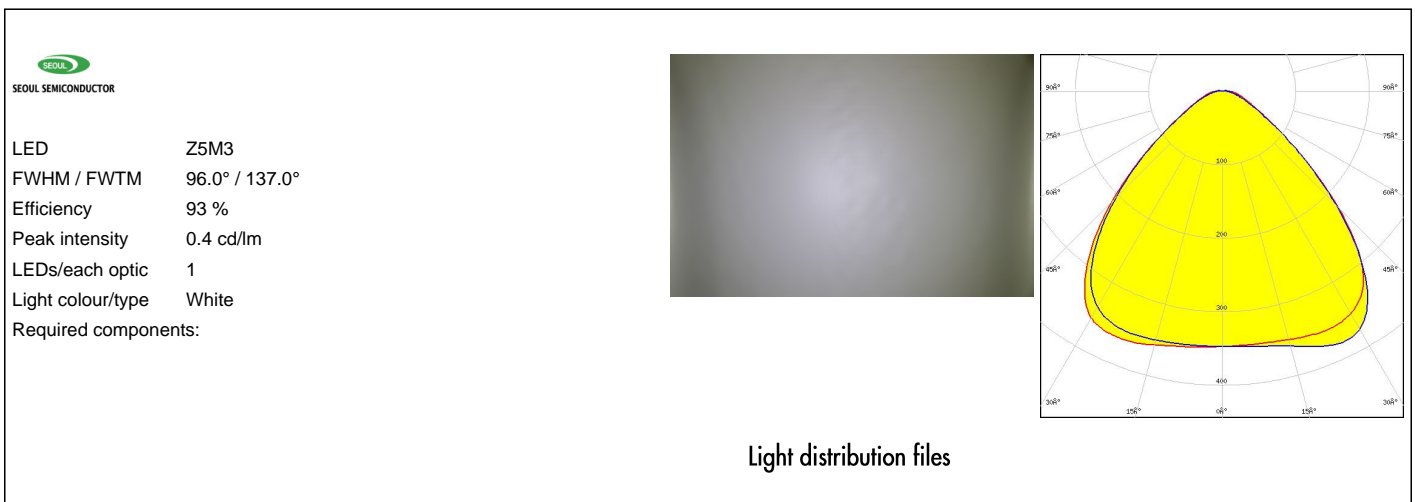
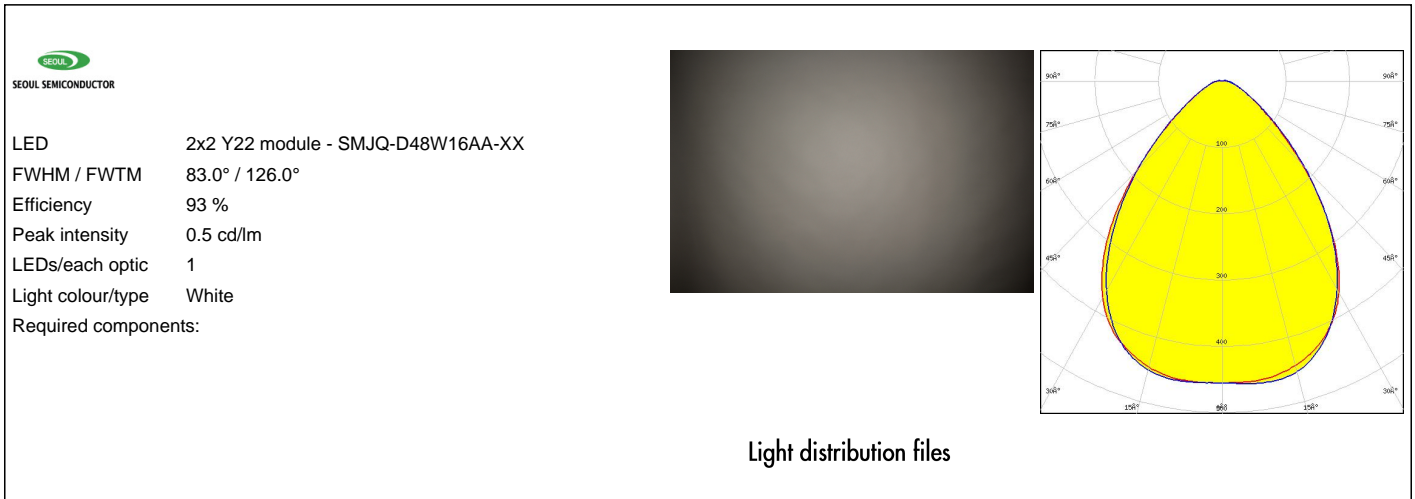


LED LED-Pa-L15c2W11c2-xxx-C050-01  
 FWHM / FWTM 94.0° / 129.0°  
 Efficiency 95 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



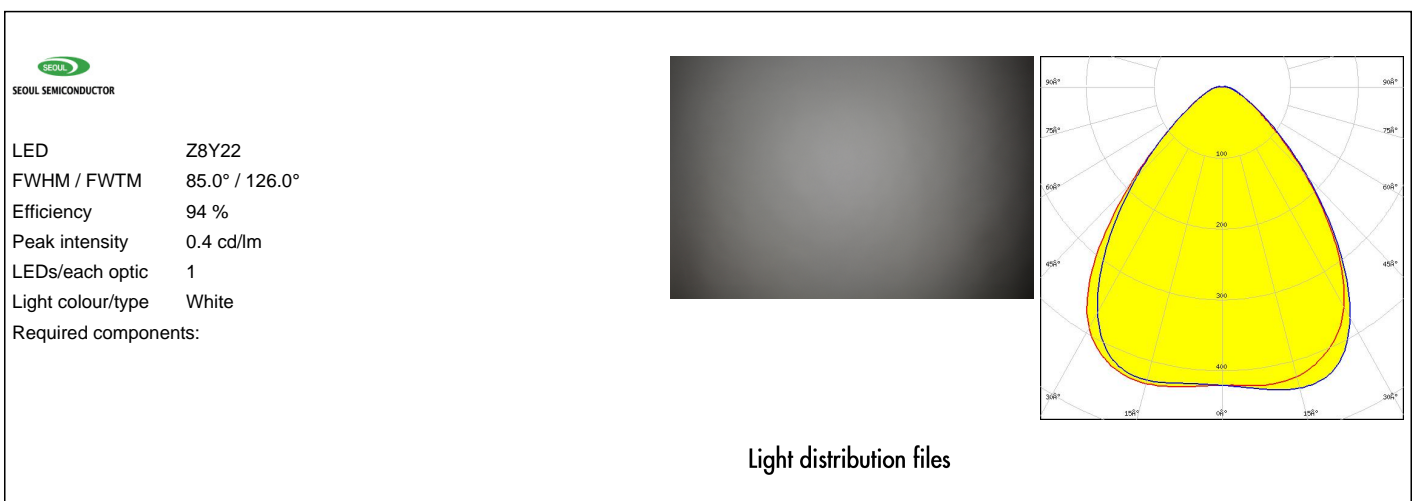
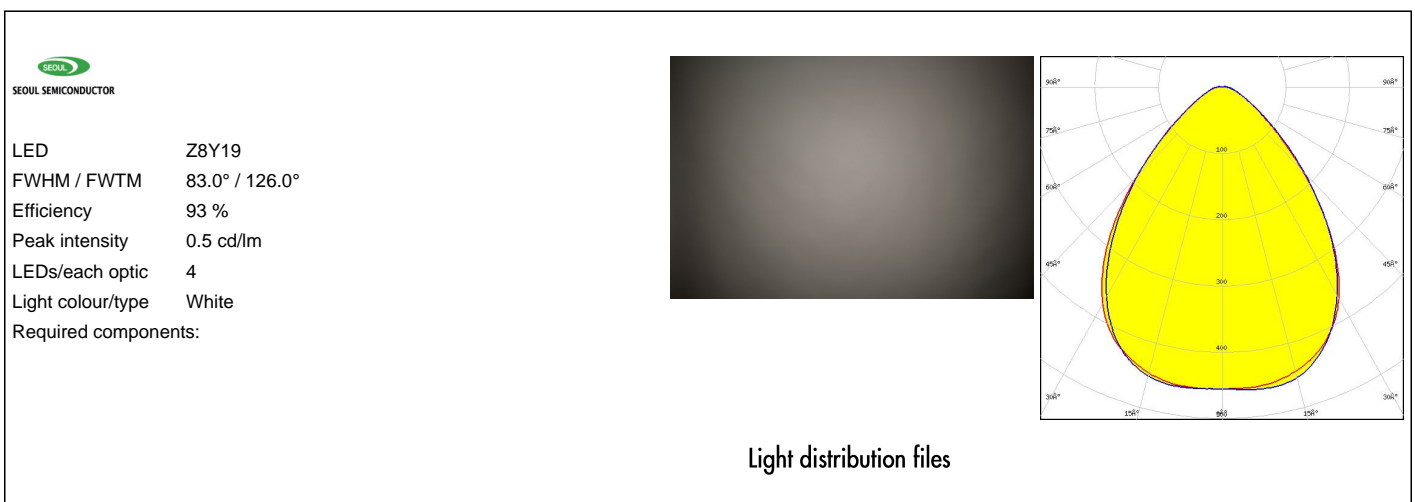
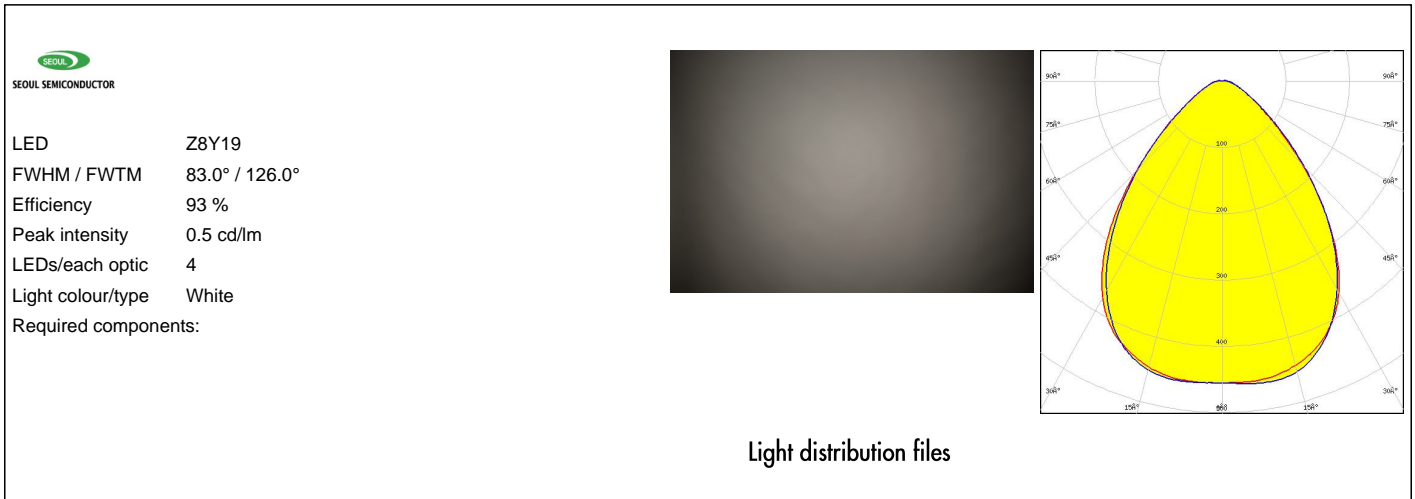
Light distribution files

#### OPTICAL RESULTS (MEASURED):

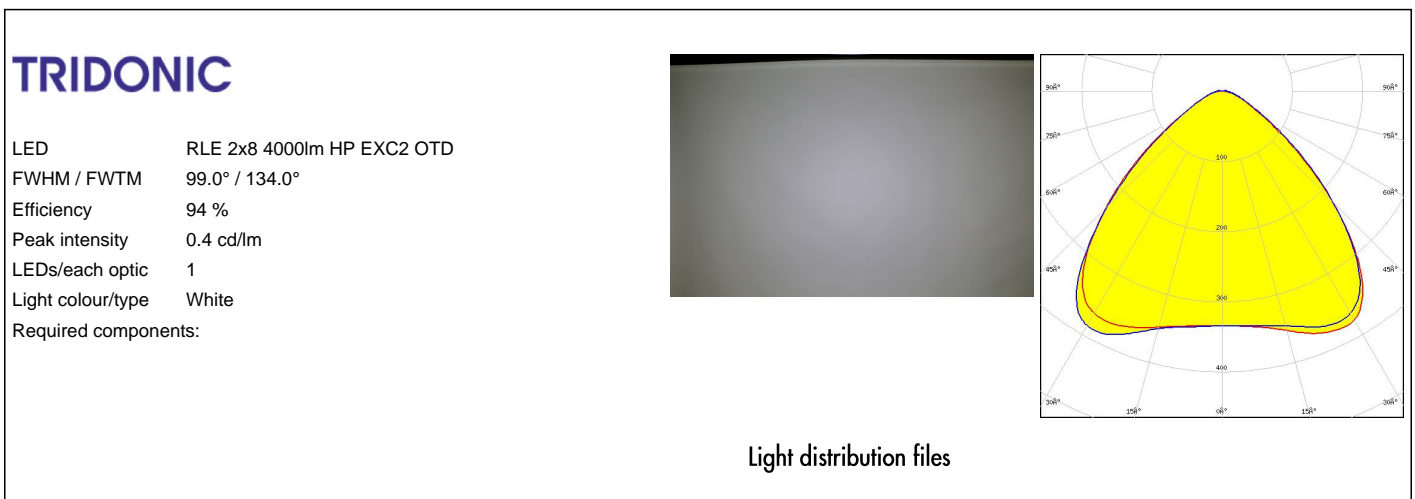
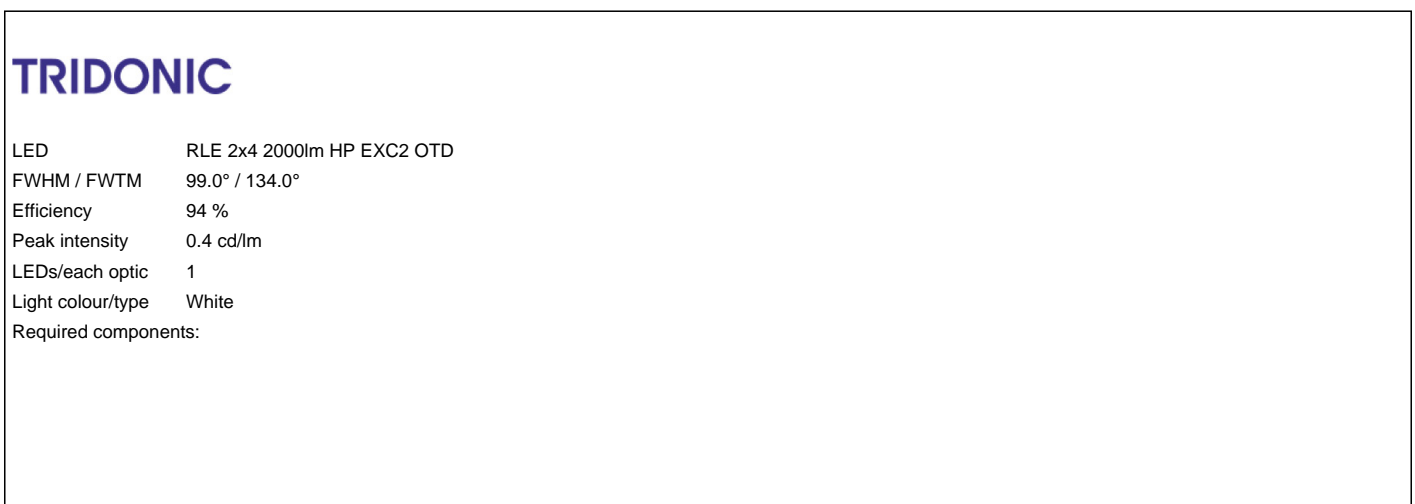




### OPTICAL RESULTS (MEASURED):



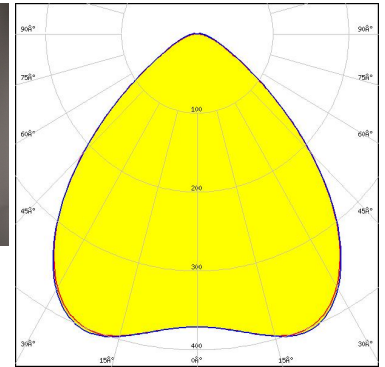
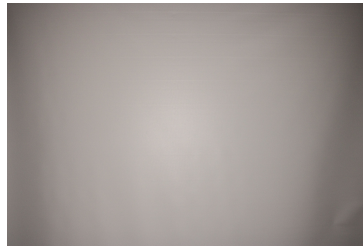
#### OPTICAL RESULTS (MEASURED):



#### OPTICAL RESULTS (MEASURED):

### TRIDONIC

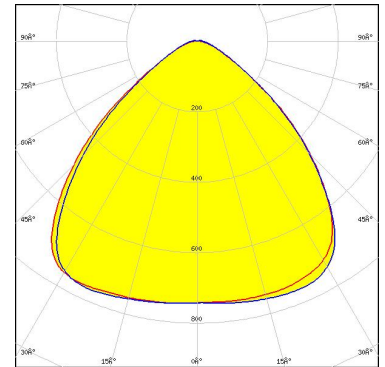
LED RLE 2x8 6000lm HP HE EXC3 OTD  
 FWHM / FWTM 91.0° / 129.0°  
 Efficiency 95 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### TRIDONIC

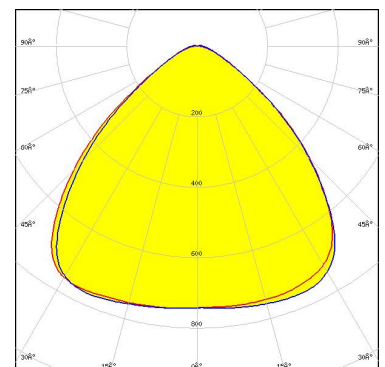
LED RLE G1 49x121mm 2000lm xxx EXC OTD  
 FWHM / FWTM 98.0° / 132.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD  
 FWHM / FWTM 98.0° / 132.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

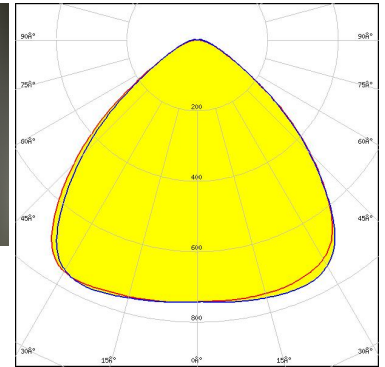
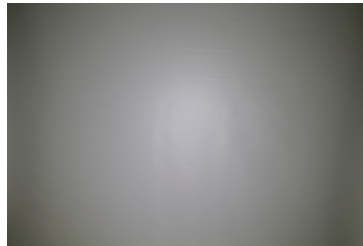


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### TRIDONIC

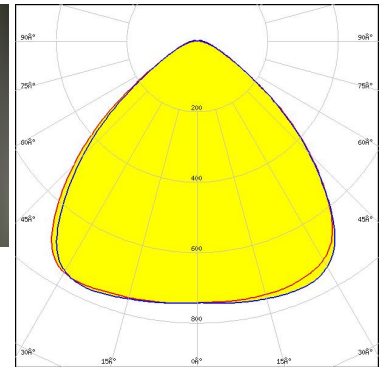
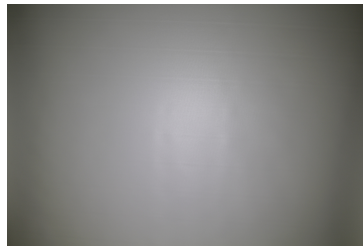
LED RLE G1 49x223mm 4000lm xxx EXC OTD  
FWHM / FWTM 98.0° / 132.0°  
Efficiency 93 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD  
FWHM / FWTM 98.0° / 132.0°  
Efficiency 93 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

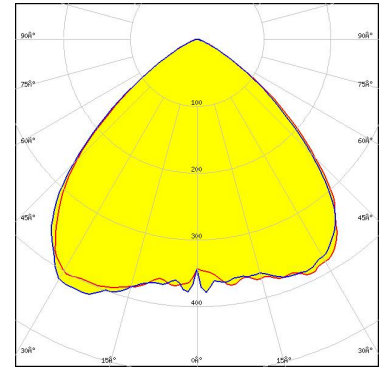


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



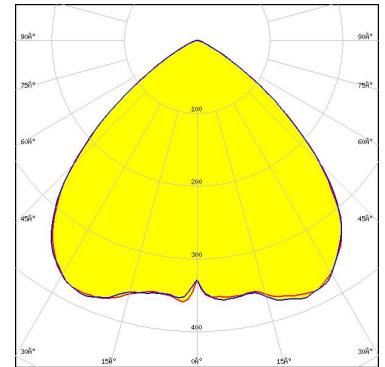
LED J Series 5050 Round LES  
FWHM / FWTM 98.0° / 131.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED J Series 5050B 6V K Class  
FWHM / FWTM 96.0° / 122.0°  
Efficiency 89 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

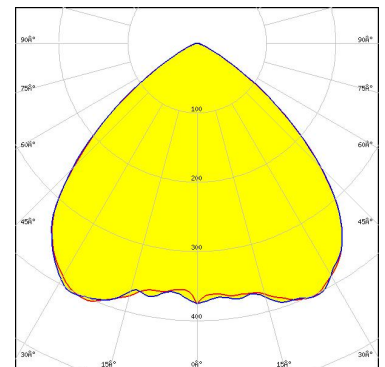


Protective plate, glass

Light distribution files



LED J Series 5050B 6V K Class  
FWHM / FWTM 96.0° / 122.0°  
Efficiency 95 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

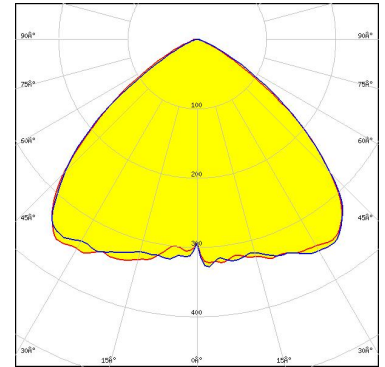


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



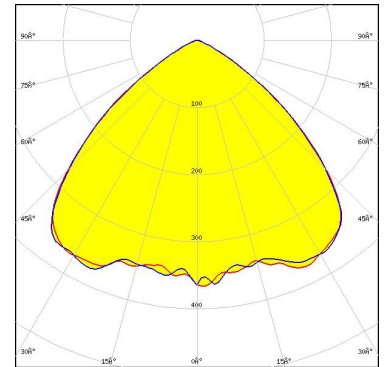
LED XHP35 HI  
FWHM / FWTM 99.0° / 133.0°  
Efficiency 93 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



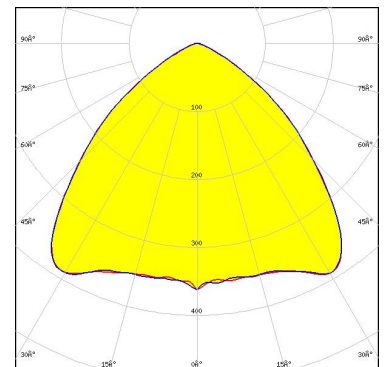
LED XM-L RGBW (XMLDCL HI)  
FWHM / FWTM 102.0° / 126.0°  
Efficiency 95 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type RGBW  
Required components:



Light distribution files



LED XP-E2  
FWHM / FWTM 98.0° / 128.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

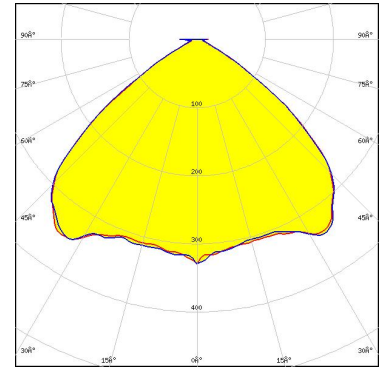


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



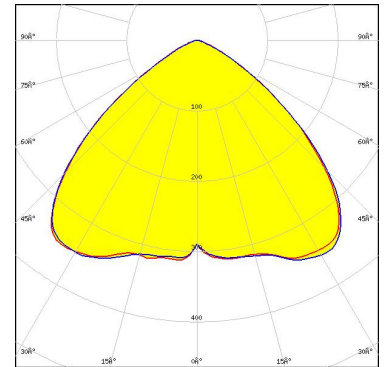
LED XP-G2 HE  
FWHM / FWTM 106.0° / 126.0°  
Efficiency 93 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XP-G3  
FWHM / FWTM 96.0° / 130.0°  
Efficiency 91 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

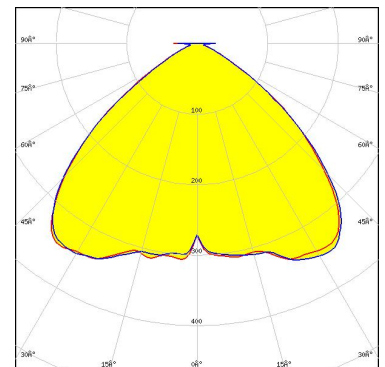


Protective plate, glass

Light distribution files



LED XP-G3  
FWHM / FWTM 98.0° / 132.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

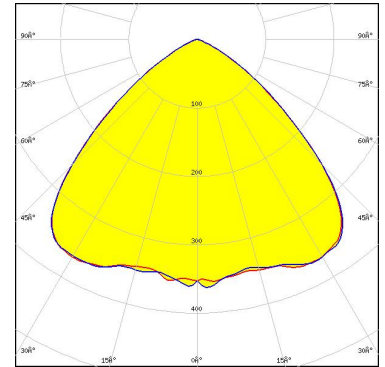
#### OPTICAL RESULTS (SIMULATED):



LED XP-G4  
FWHM / FWTM 99.0° / 126.0°  
Efficiency 90 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

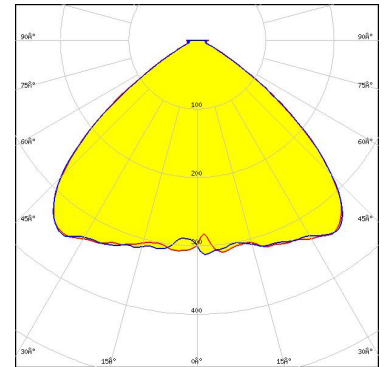
Protective plate, glass

Light distribution files



LED XP-L2  
FWHM / FWTM 104.0° / 129.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

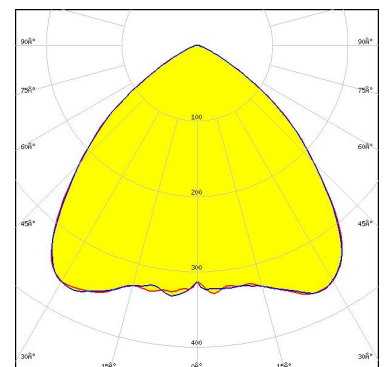
Light distribution files



LED XT-E  
FWHM / FWTM 96.0° / 126.0°  
Efficiency 89 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

Light distribution files

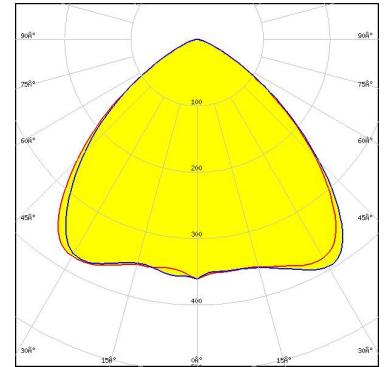




#### OPTICAL RESULTS (SIMULATED):



LED LUXEON 3535L  
FWHM / FWTM 92.0° / 128.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

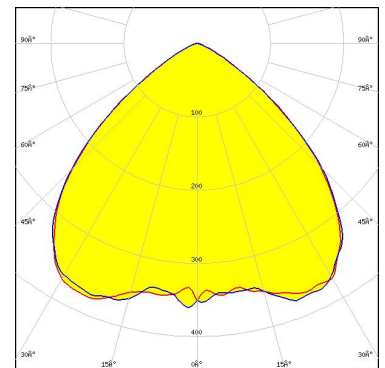


Light distribution files



LED LUXEON 5050 HE  
FWHM / FWTM 98.0° / 124.0°  
Efficiency 90 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

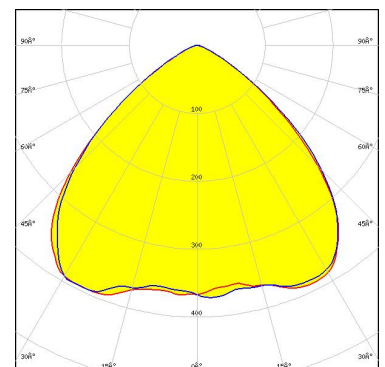
Protective plate, glass



Light distribution files



LED LUXEON 5050 Square LES  
FWHM / FWTM 98.0° / 126.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

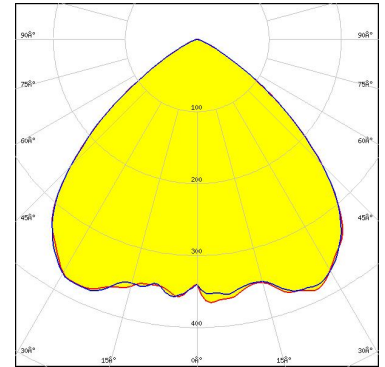
#### OPTICAL RESULTS (SIMULATED):



LED LUXEON 5050 Square LES  
FWHM / FWTM 98.0° / 123.0°  
Efficiency 90 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

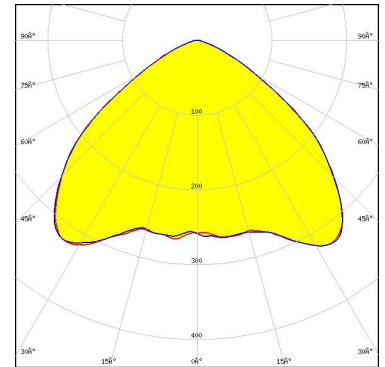
Protective plate, glass

Light distribution files



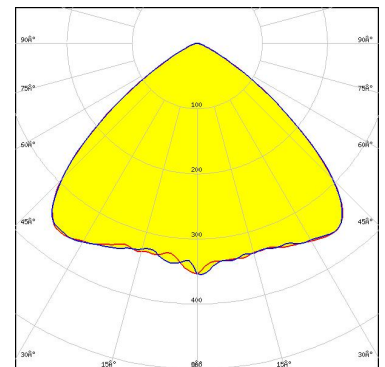
LED LUXEON C  
FWHM / FWTM 108.0° / 140.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files



LED LUXEON HL2X  
FWHM / FWTM 104.0° / 126.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

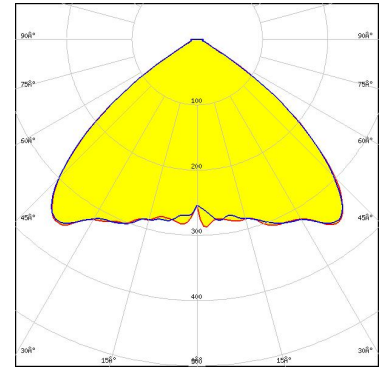
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



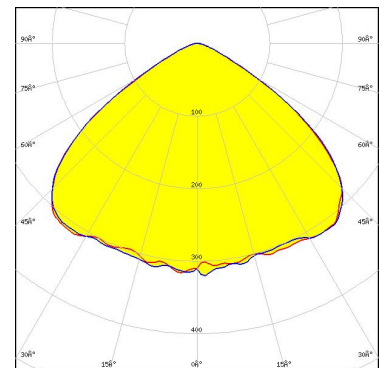
LED LUXEON HL4X  
FWHM / FWTM 104.0° / 122.0°  
Efficiency 95 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



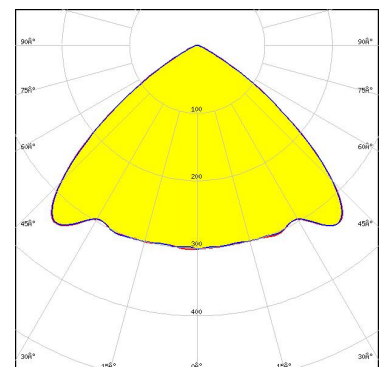
LED LUXEON T  
FWHM / FWTM 112.0° / 135.0°  
Efficiency 92 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)  
FWHM / FWTM 104.0° / 124.0°  
Efficiency 85 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**LUMILEDS**

LED: LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)

FWHM / FWTM: 104.0° / 122.0°

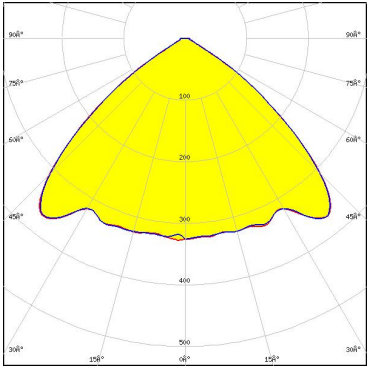
Efficiency: 95 %

Peak intensity: 0.4 cd/lm

LEDs/each optic: 1

Light colour/type: White

Required components:



Light distribution files

**LUMINUS**

LED: SFT-40 Gen2

FWHM / FWTM: 104.0° / 130.0°

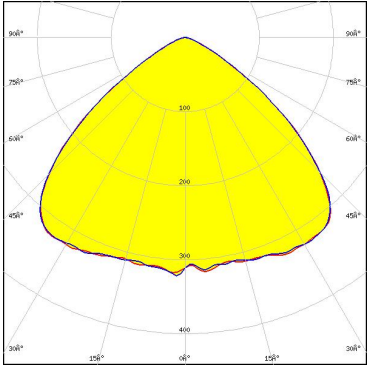
Efficiency: 86 %

Peak intensity: 0.3 cd/lm

LEDs/each optic: 1

Light colour/type: White

Required components:



Protective plate, glass

Light distribution files

**LUMINUS**

LED: SFT-40 Gen2

FWHM / FWTM: 106.0 + 105.0° / 132.0 + 130.0°

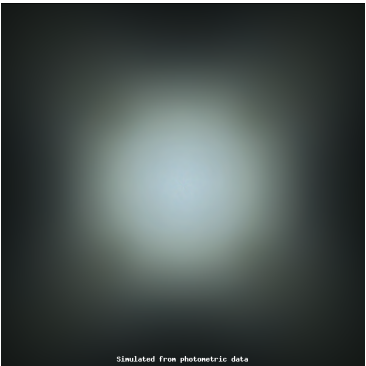
Efficiency: 96 %

Peak intensity: 0.4 cd/lm

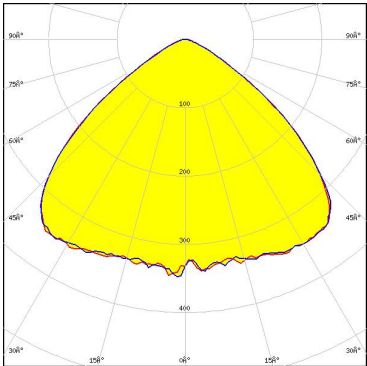
LEDs/each optic: 1

Light colour/type: White

Required components:



Simulated from photometric data

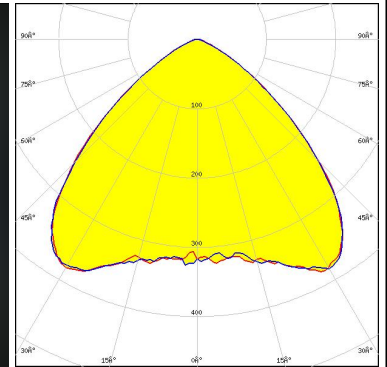
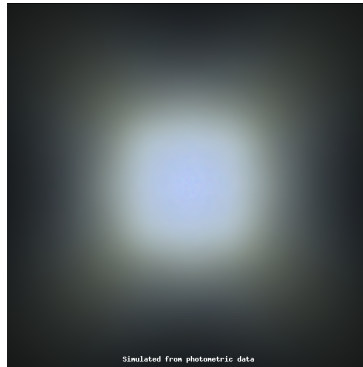


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



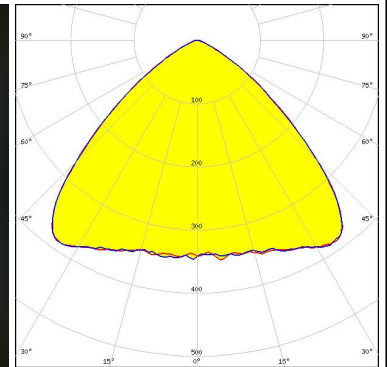
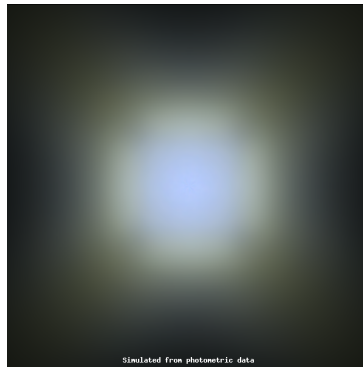
**LED** SST-20 Gen2  
**FWHM / FWTM** 98.0° / 128.0°  
**Efficiency** 96 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



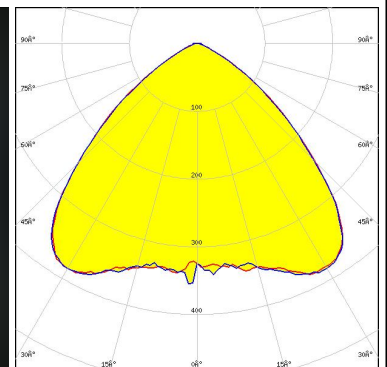
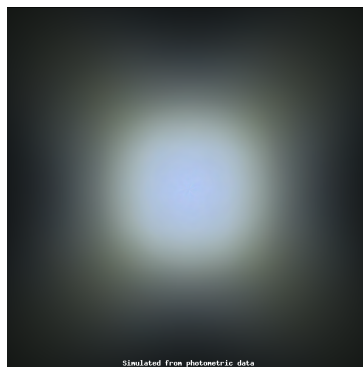
**LED** SST-20F-W  
**FWHM / FWTM** 98.0° / 126.0°  
**Efficiency** 96 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files

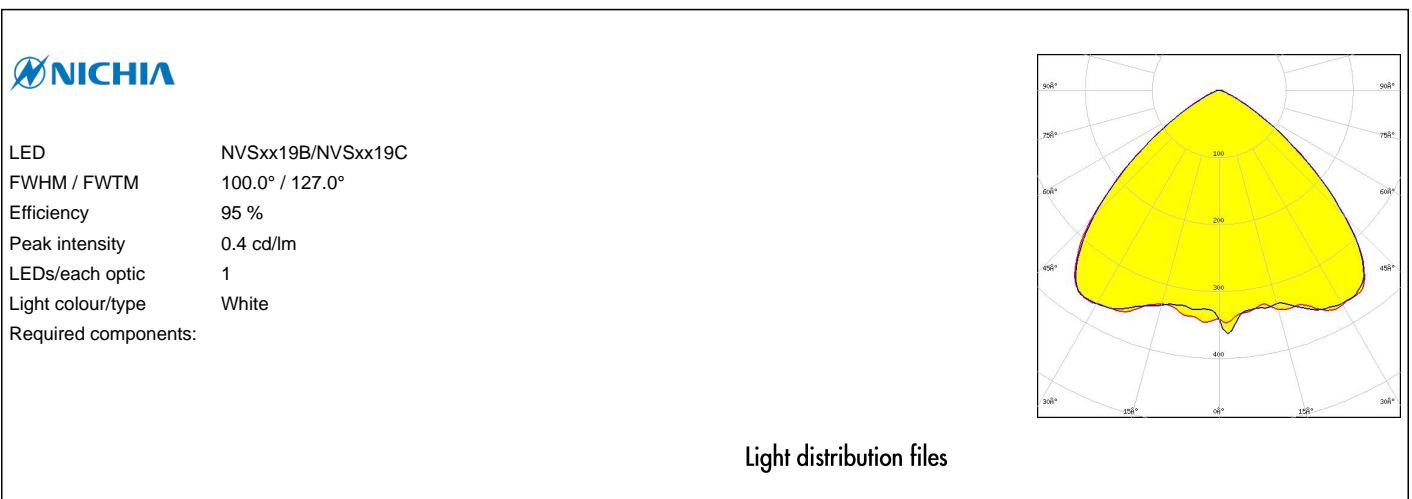
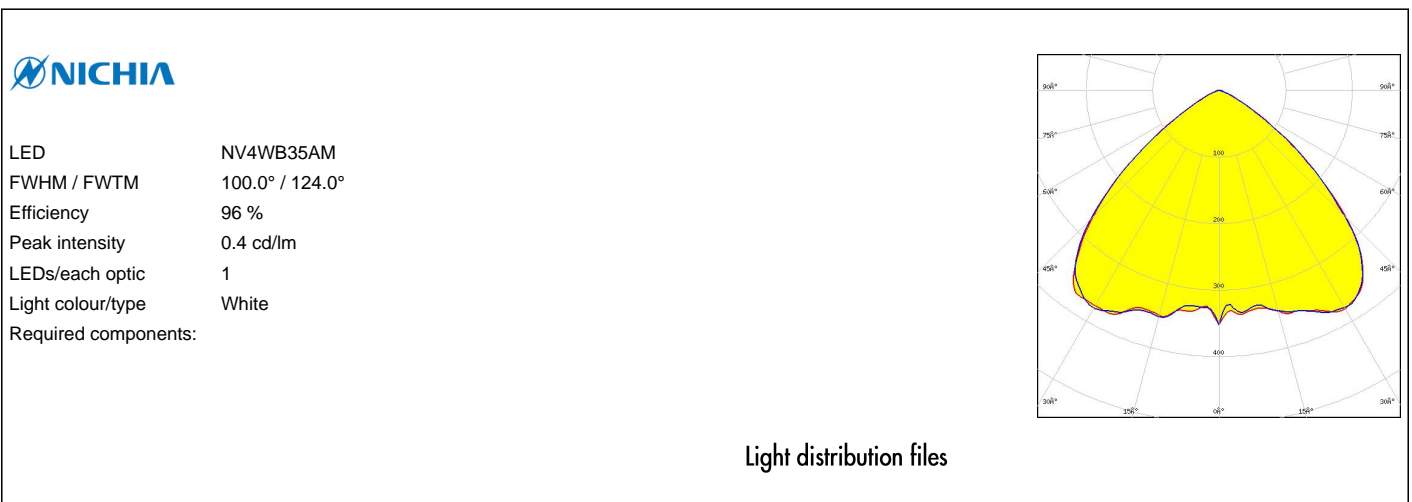
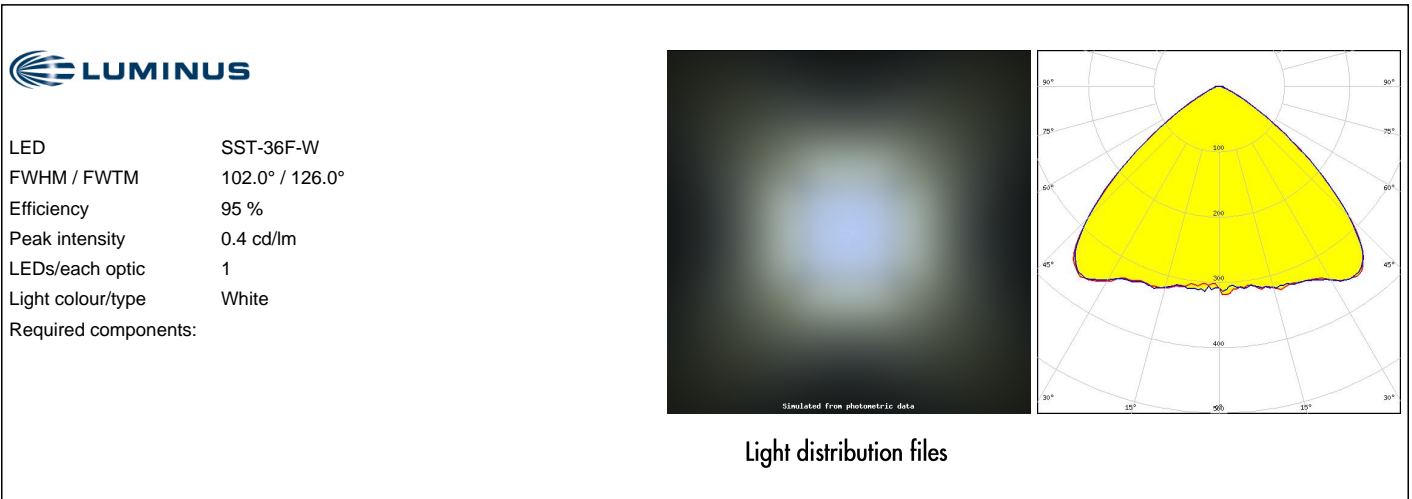


**LED** SST-25-W  
**FWHM / FWTM** 98.0° / 126.0°  
**Efficiency** 96 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files

#### OPTICAL RESULTS (SIMULATED):



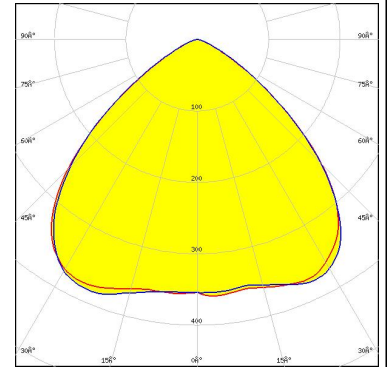
### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED Duris S8  
FWHM / FWTM 100.0° / 125.0°  
Efficiency 91 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

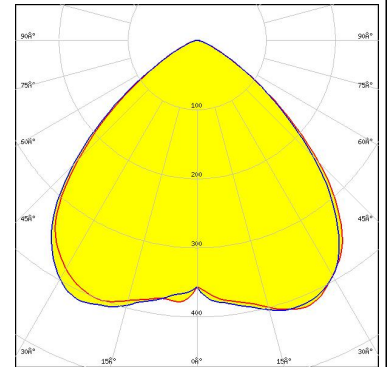
Light distribution files



**OSRAM**  
Opto Semiconductors

LED Duris S8  
FWHM / FWTM 92.0° / 126.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

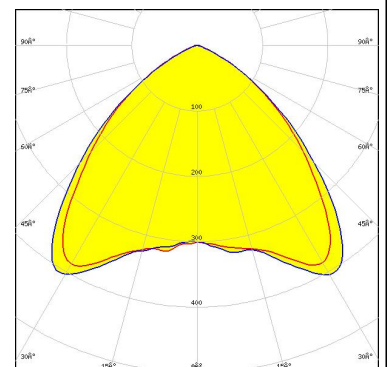
Light distribution files



**OSRAM**  
Opto Semiconductors

LED OSCONIQ P 3030  
FWHM / FWTM 96.0° / 130.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

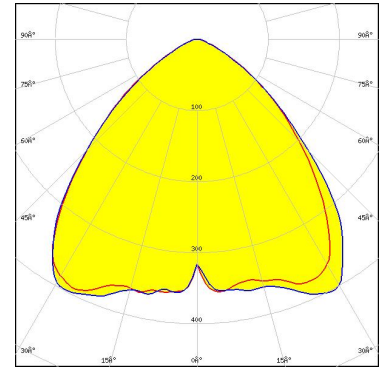
Light distribution files



#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

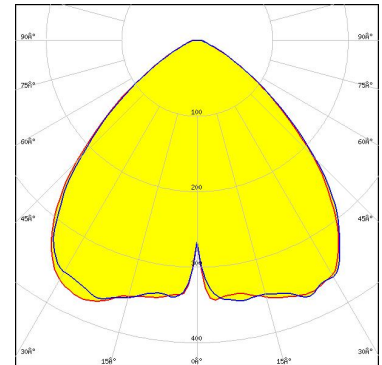
LED OSCONIQ P 3737 (2W version)  
FWHM / FWTM 90.0° / 130.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

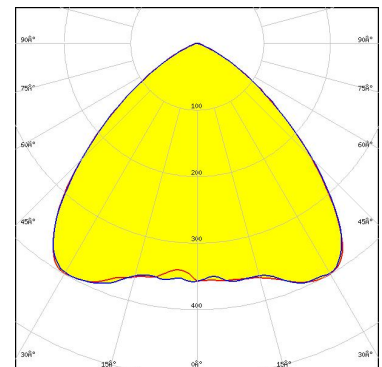
LED OSCONIQ P 3737 (3W version)  
FWHM / FWTM 93.0° / 130.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSCONIQ P 3737 Flat  
FWHM / FWTM 96.0° / 126.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



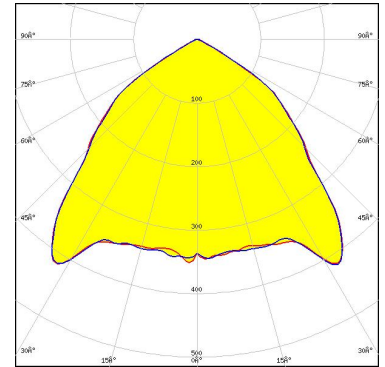
Light distribution files



#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

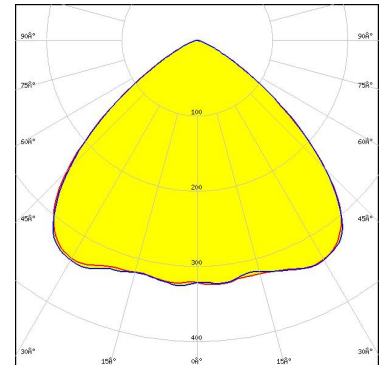
LED OSLO Pure 1414  
FWHM / FWMTM 97.0 + 96.0° / 122.0°  
Efficiency 97 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLO Square CSSRM2/CSSRM3  
FWHM / FWMTM 100.0° / 128.0°  
Efficiency 85 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

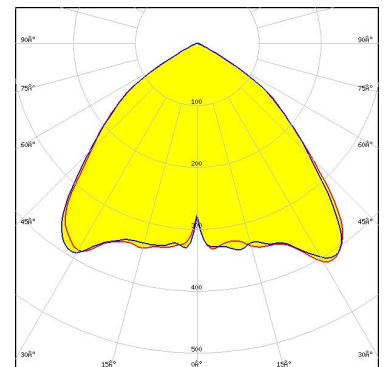


Protective plate, glass

Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLO Square Flat  
FWHM / FWMTM 97.0° / 123.0°  
Efficiency 97 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



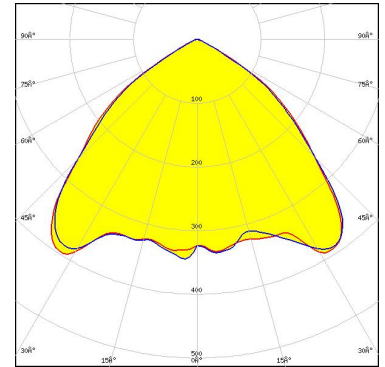
Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### OSRAM

Opto Semiconductors

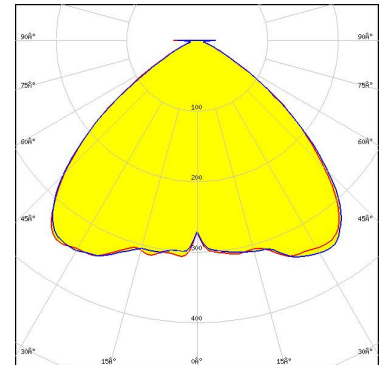
LED OSTAR Projection Compact (KW.CSLNM1.TG)  
FWHM / FWTM 100.0° / 124.0°  
Efficiency 97 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### PHILIPS

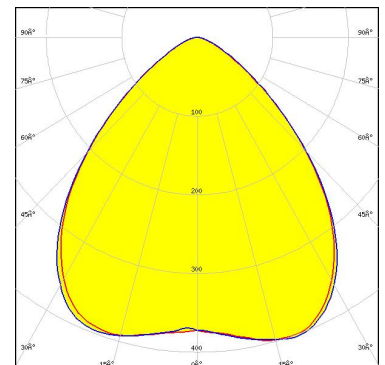
LED Fortimo FastFlex LED 2x8 DAX G4  
FWHM / FWTM 98.0° / 132.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

LED HiLOM RM16 Z (LH502C)  
FWHM / FWTM 90.0° / 127.0°  
Efficiency 88 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



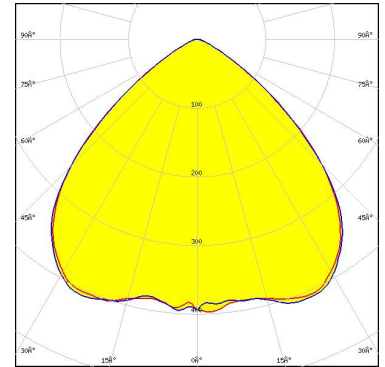
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

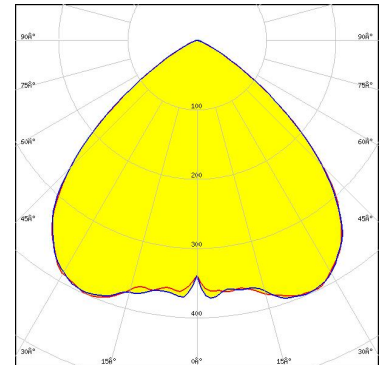
LED LH502D  
FWHM / FWTM 97.0° / 124.0°  
Efficiency 98 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



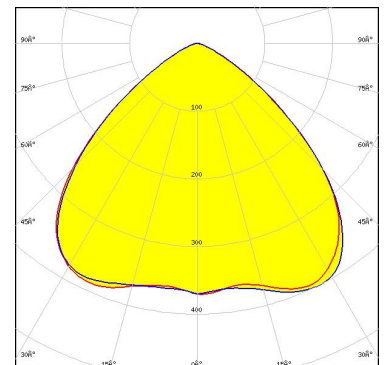
LED MJT 5050  
FWHM / FWTM 98.0° / 122.0°  
Efficiency 95 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

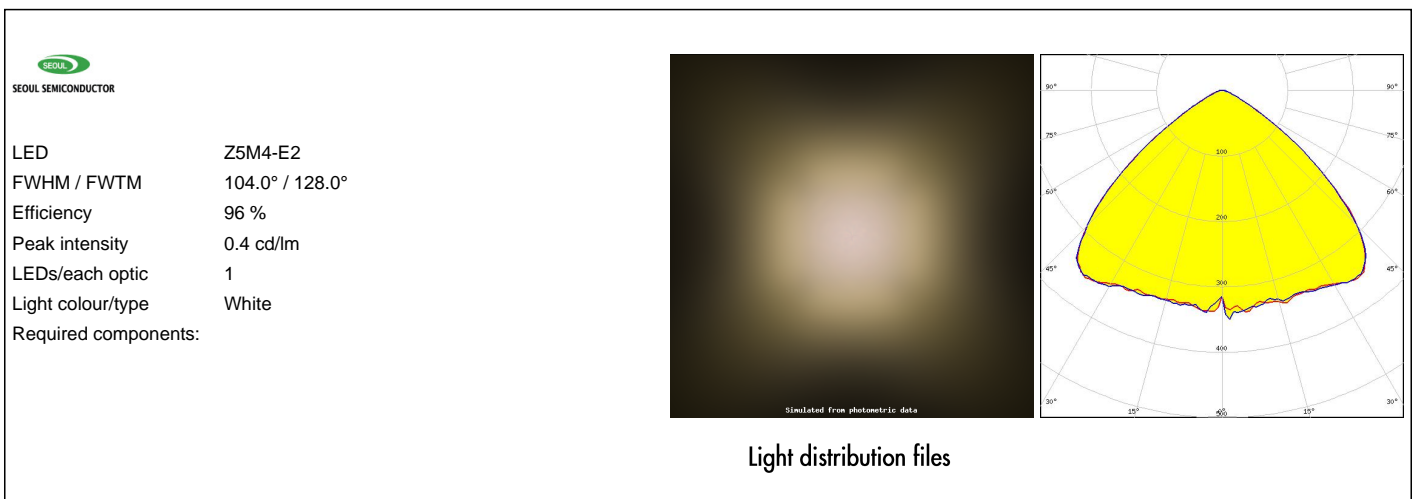
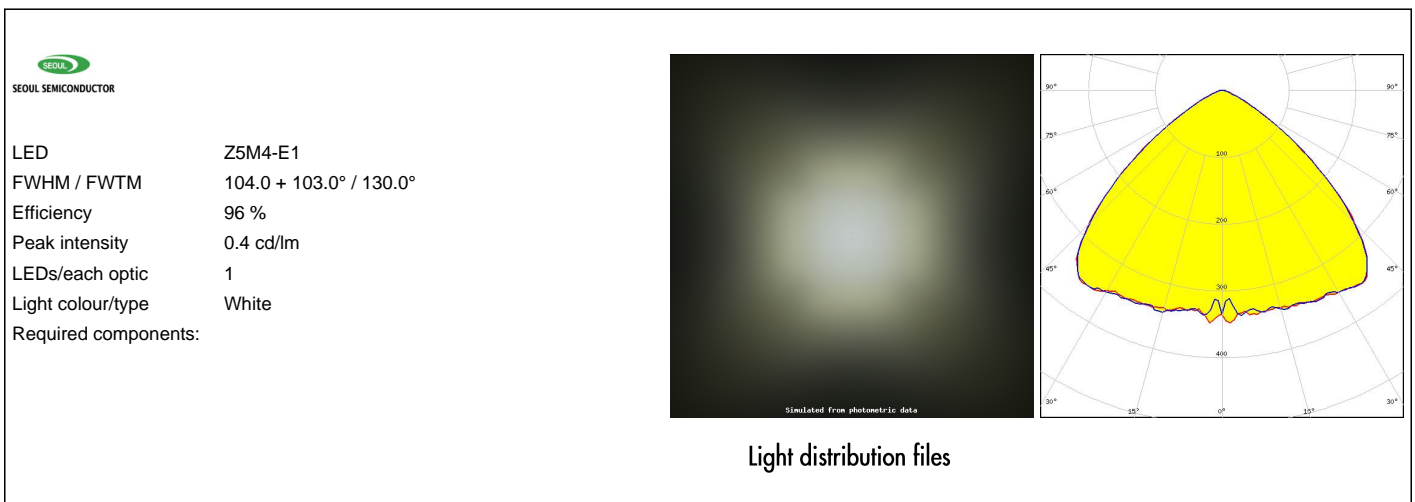
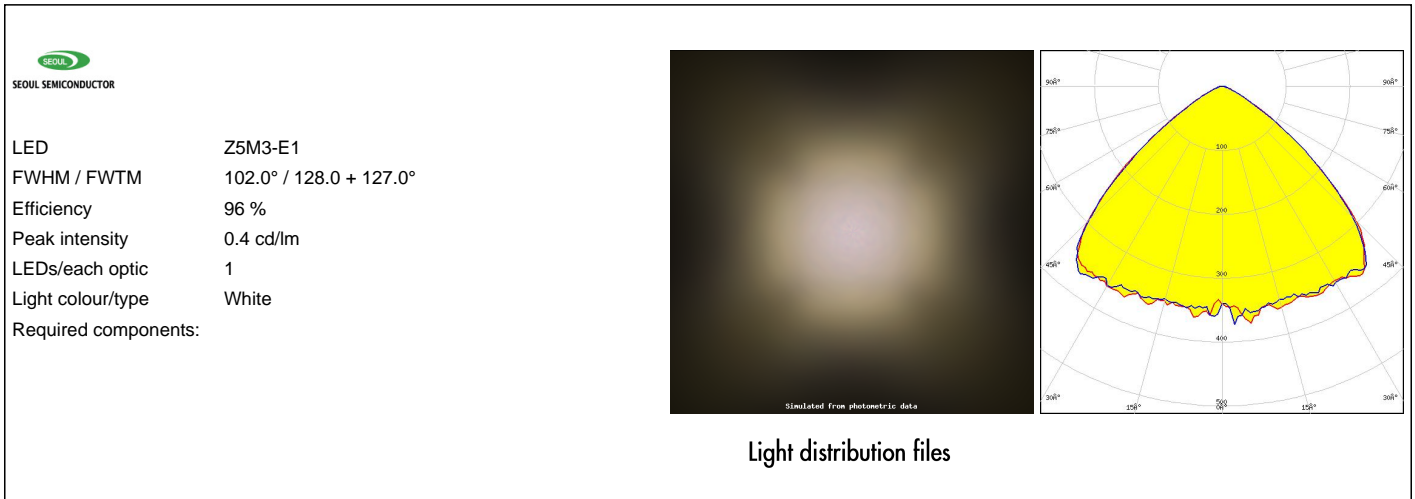


LED SEOUL DC 5050 6V  
FWHM / FWTM 94.0° / 126.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

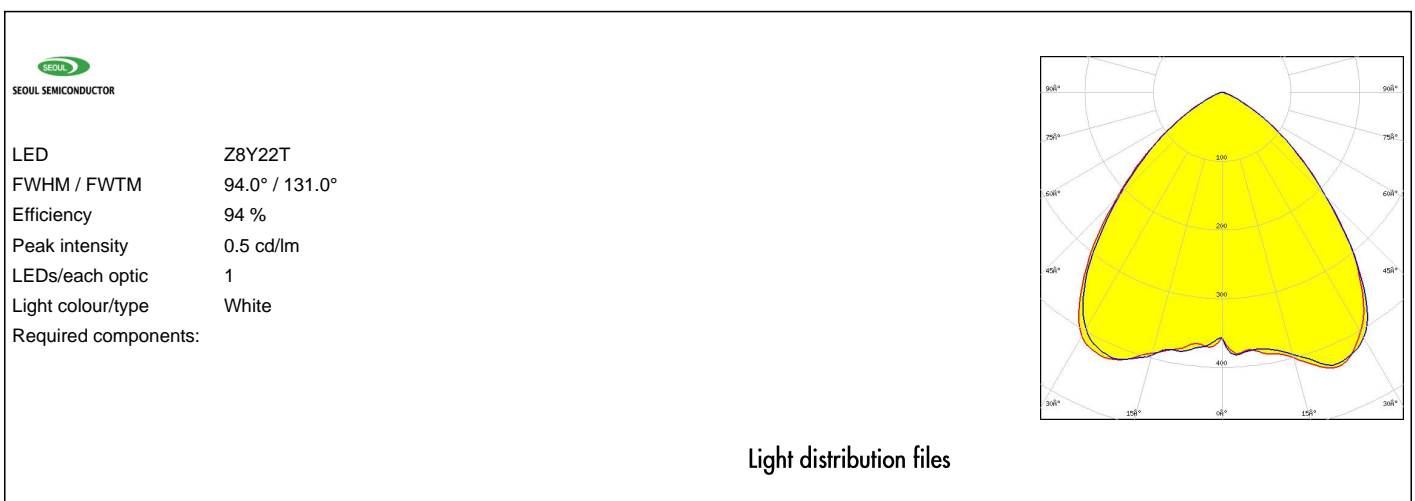
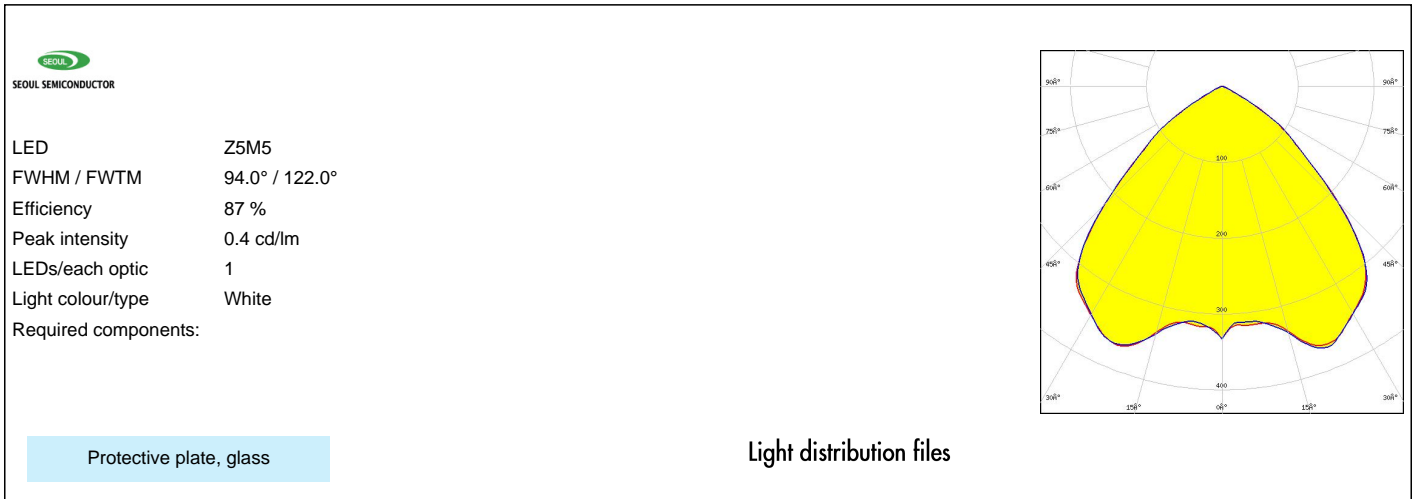


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



#### OPTICAL RESULTS (SIMULATED):



## 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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