

## STRADELLA-16-HB-S

~25° spot beam for industrial applications

### SPECIFICATION:

Dimensions	49.5 x 49.5
Height	7.5 mm
Fastening	pin, screw
ROHS compliant	yes ⓘ

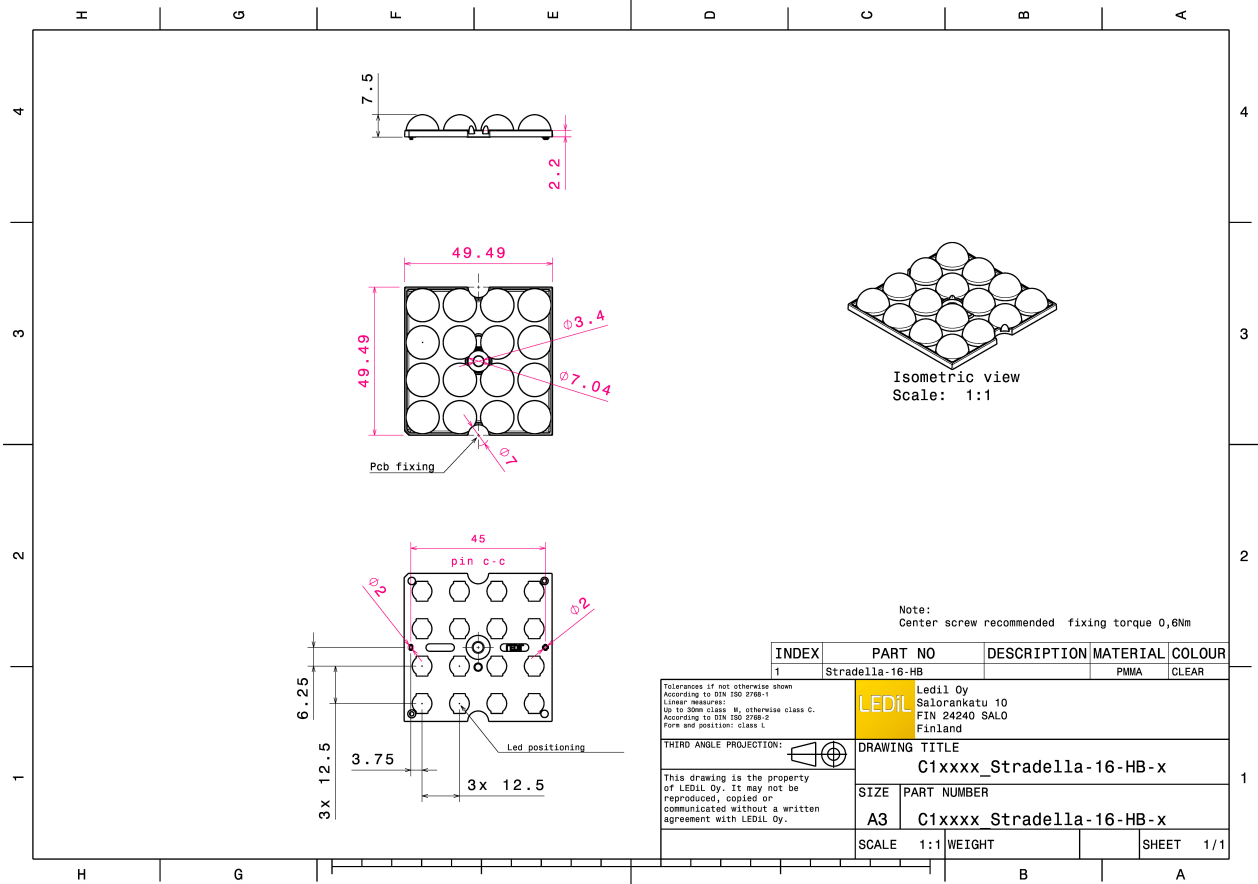
### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
STRADELLA-16-HB-S	Multi-lens	PMMA	clear		



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C15430_STRADELLA-16-HB-S » Box size: 480 x 280 x 300 mm	800	160	160	6.1

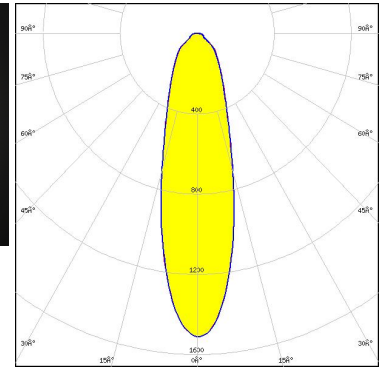


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



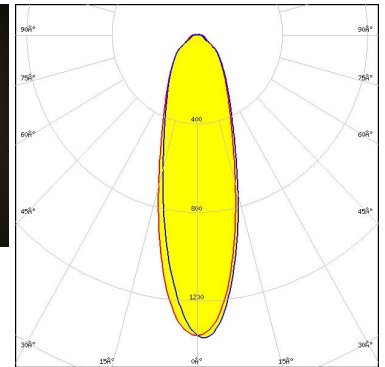
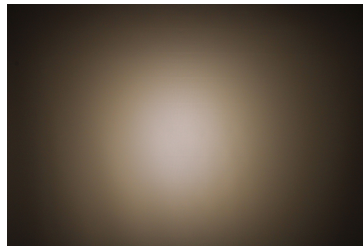
**LED** J Series 3030  
**FWHM / FWTM** 29.0° / 86.0°  
**Efficiency** 91 %  
**Peak intensity** 1.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



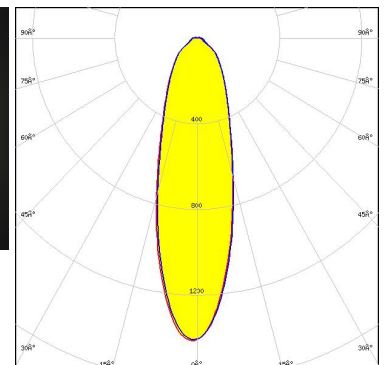
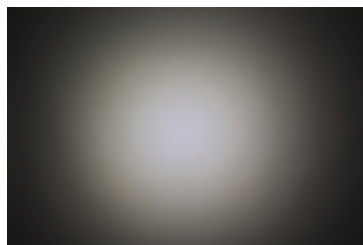
**LED** EHP-223.5x50-1604-xx-70-LS30-06-NTC  
**FWHM / FWTM** 30.0° / 95.0°  
**Efficiency** 93 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** PrevaLED Brick MP 4x16  
**FWHM / FWTM** 30.0° / 92.0°  
**Efficiency** 92 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

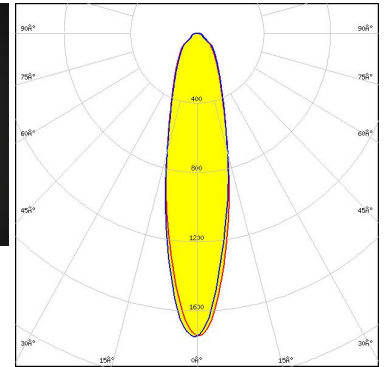


Light distribution files

#### OPTICAL RESULTS (MEASURED):



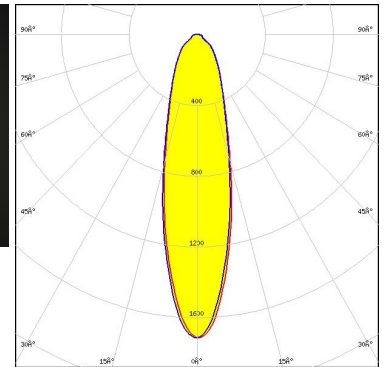
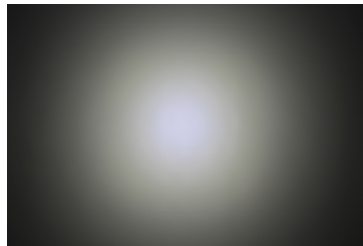
LED NFSx757D  
 FWHM / FWTM 25.0° / 78.0°  
 Efficiency 90 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



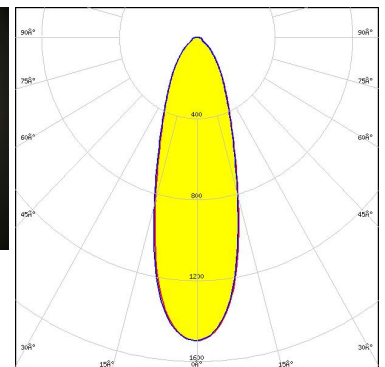
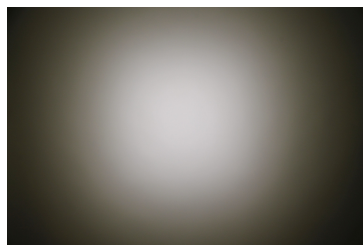
LED NFSx757G  
 FWHM / FWTM 27.0° / 80.0°  
 Efficiency 93 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NVSW219D  
 FWHM / FWTM 32.0° / 83.0°  
 Efficiency 93 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



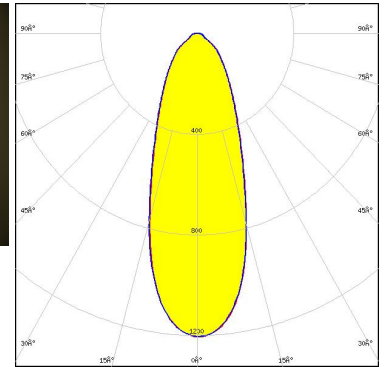
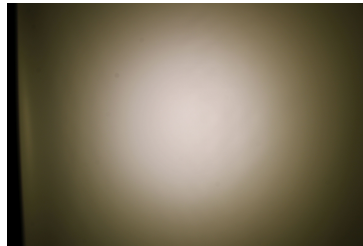
Light distribution files



#### OPTICAL RESULTS (MEASURED):



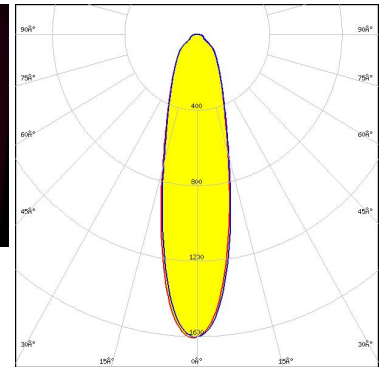
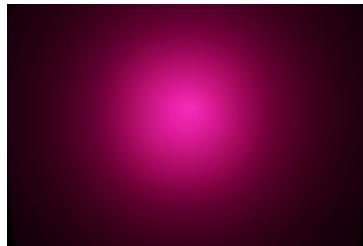
LED NVSW319B  
 FWHM / FWTM 37.0° / 97.0°  
 Efficiency 93 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



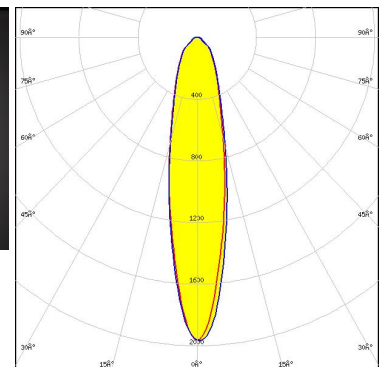
LED Duris S5 (2 chip)  
 FWHM / FWTM 27.0° / 83.0°  
 Efficiency 92 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type Purple  
 Required components:



Light distribution files



LED Duris S5 (Single chip)  
 FWHM / FWTM 23.0° / 72.0°  
 Efficiency 90 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

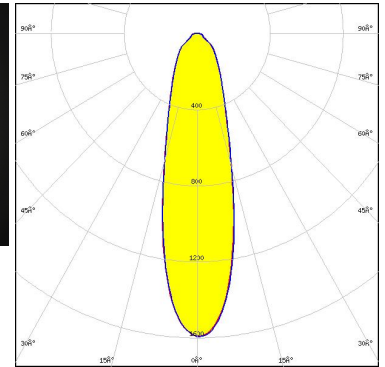
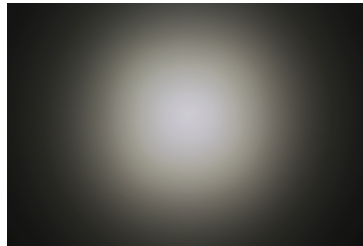


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

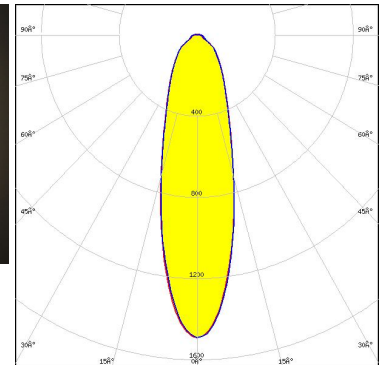
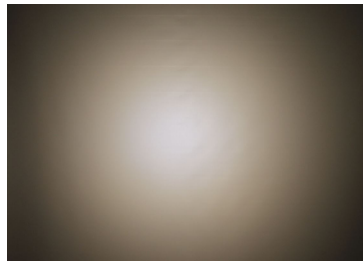
LED OSCONIQ S 3030 (QSLR31)  
FWHM / FWTM 28.0° / 82.0°  
Efficiency 91 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**PHILIPS**

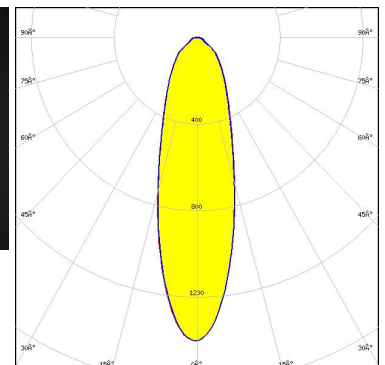
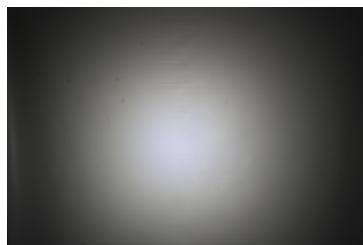
LED Fortimo FastFlex LED 4x16 DHE G4  
FWHM / FWTM 29.0° / 88.0°  
Efficiency 92 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SAMSUNG**

LED HiLOM RM64 (LM301B)  
FWHM / FWTM 30.0° / 92.0°  
Efficiency 93 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

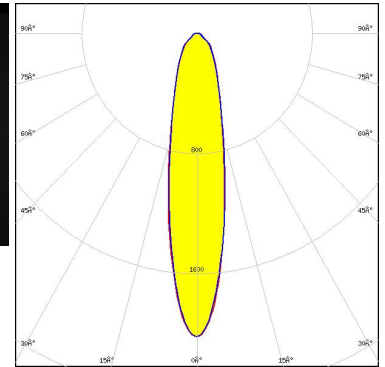


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

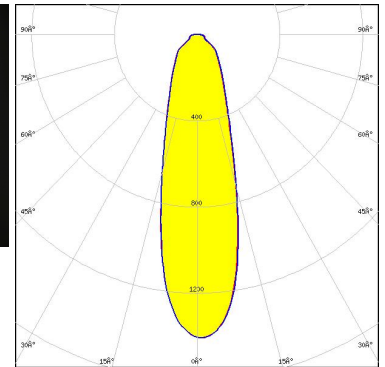
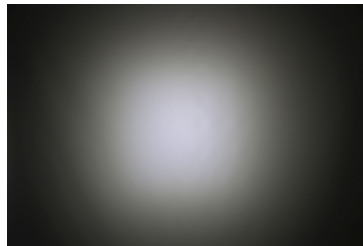
LED LM231 A/B  
 FWHM / FWTM 22.0° / 70.0°  
 Efficiency 91 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### SCIOLUX

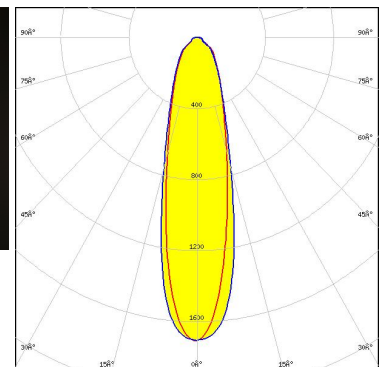
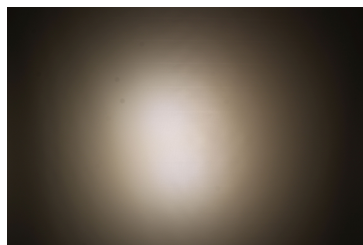
LED XLE-S44XTEHE (XT-E HE)  
 FWHM / FWTM 29.0° / 89.0°  
 Efficiency 92 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

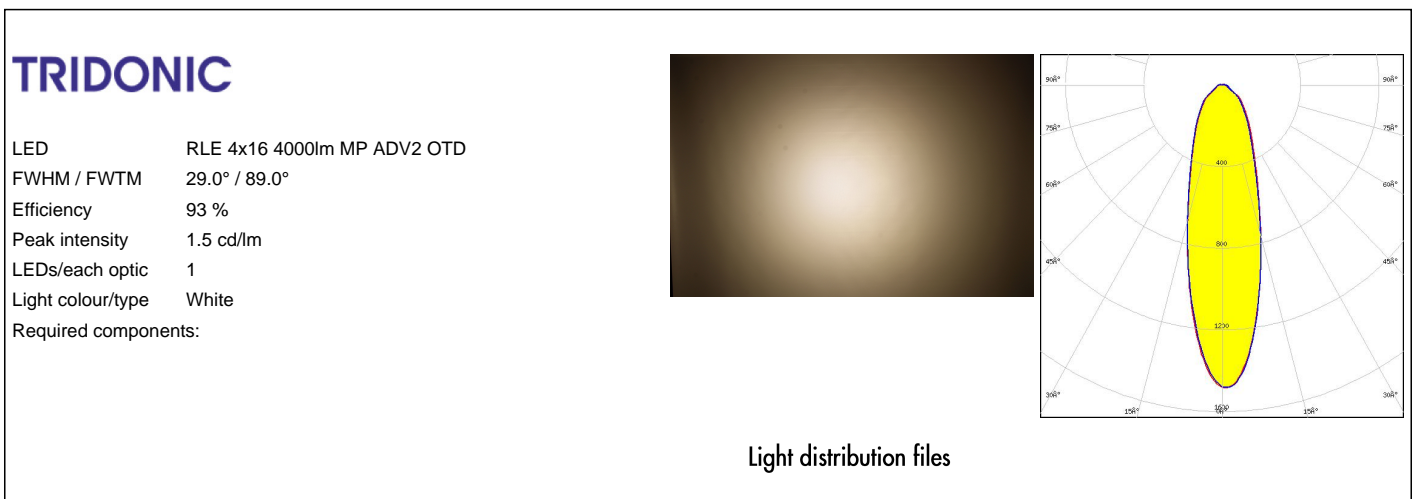
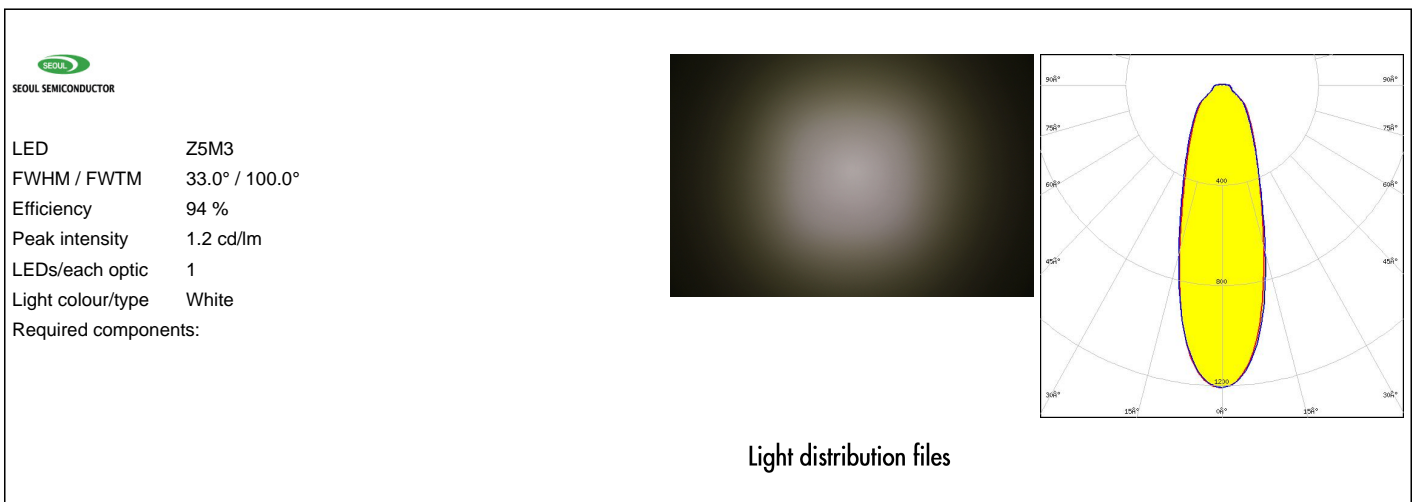
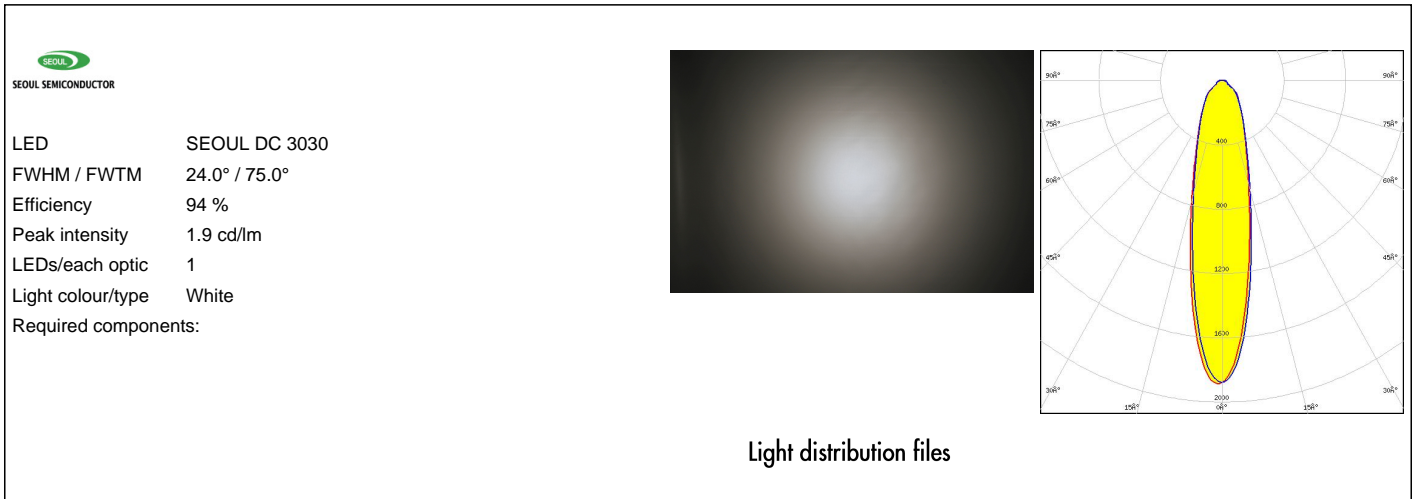
### SEOUL SEMICONDUCTOR

LED SEOUL 3030  
 FWHM / FWTM 26.0° / 78.0°  
 Efficiency 90 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

#### OPTICAL RESULTS (MEASURED):



## OPTICAL RESULTS (MEASURED):

### TRIDONIC

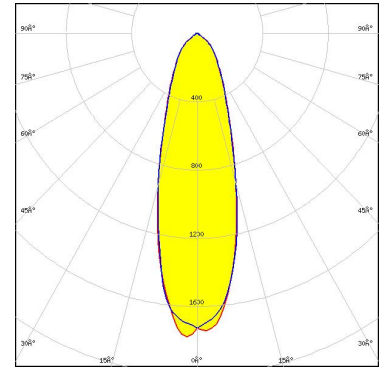
LED	RLE 4x8 2000lm MP ADV2 OTD
FWHM / FWTM	29.0° / 89.0°
Efficiency	93 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

#### OPTICAL RESULTS (SIMULATED):

bridgelux.

LED Bridgelux SMD 2835  
FWHM / FWTM 31.0° / 81.0°  
Efficiency 94 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

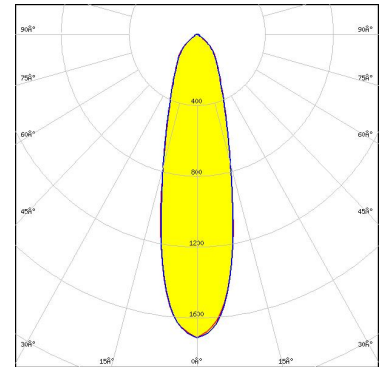


Light distribution files

bridgelux.

LED CSP 2727 (BXCP)  
FWHM / FWTM 28.0° / 80.0 + 78.0°  
Efficiency 84 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

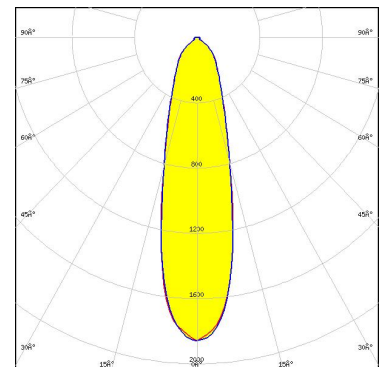
Protective plate, glass



Light distribution files

bridgelux.

LED CSP 2727 (BXCP)  
FWHM / FWTM 28.0° / 80.0 + 78.0°  
Efficiency 93 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



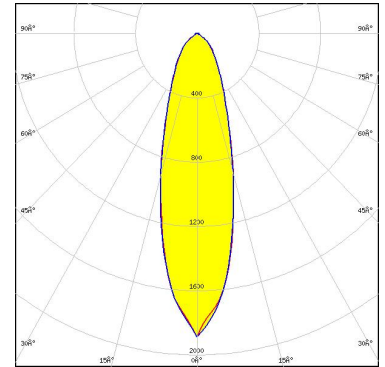
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



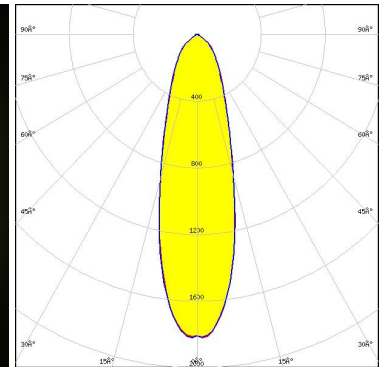
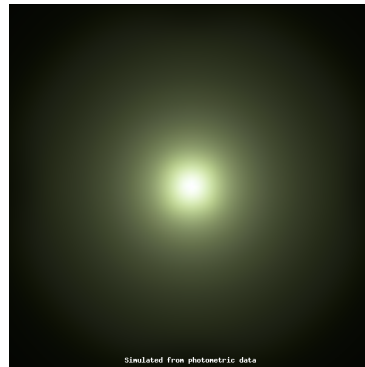
LED J Series 2835  
 FWHM / FWTM 28.0° / 77.0°  
 Efficiency 93 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



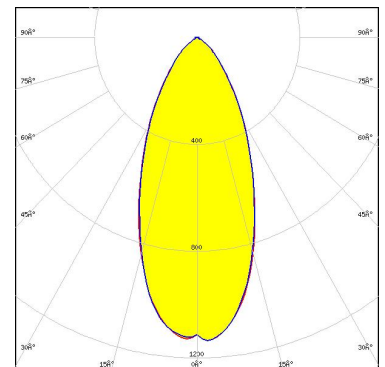
LED J Series 3030C  
 FWHM / FWTM 30.0° / 80.0°  
 Efficiency 94 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G2 HE  
 FWHM / FWTM 46.0° / 90.0°  
 Efficiency 90 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

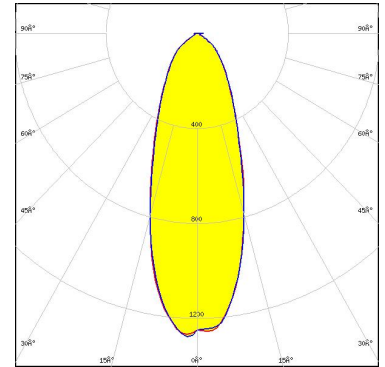


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



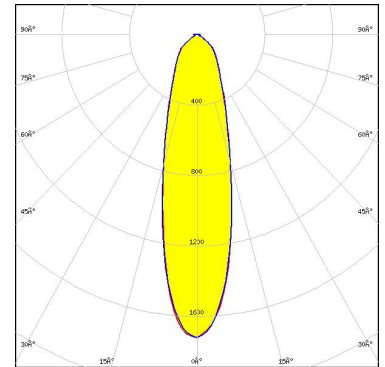
LED XP-G3  
FWHM / FWTM 37.0° / 95.0°  
Efficiency 91 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



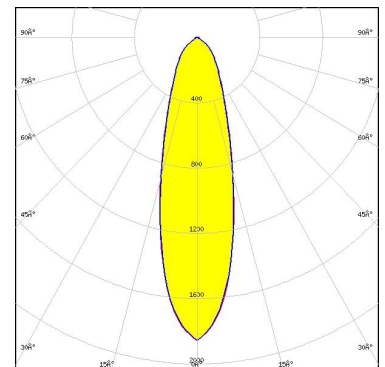
LED XT-E  
FWHM / FWTM 28.0° / 82.0°  
Efficiency 91 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON 2835 Line  
FWHM / FWTM 28.0° / 78.0°  
Efficiency 93 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

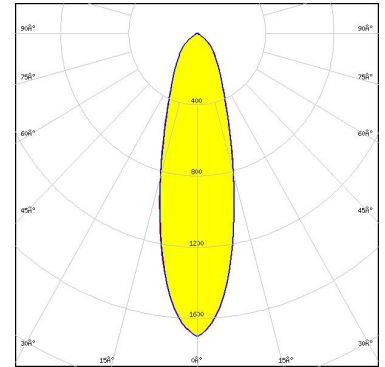
#### OPTICAL RESULTS (SIMULATED):



LED LUXEON 2835 Line  
FWHM / FWTM 30.0° / 78.0°  
Efficiency 85 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

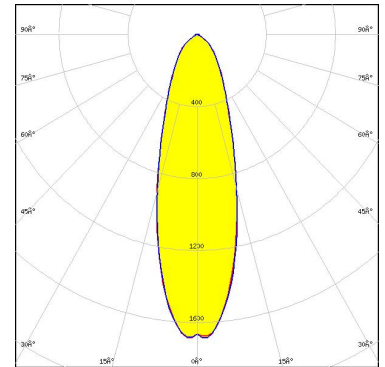
Protective plate, glass

Light distribution files



LED LUXEON 3030 HE Plus  
FWHM / FWTM 32.0° / 82.0°  
Efficiency 93 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

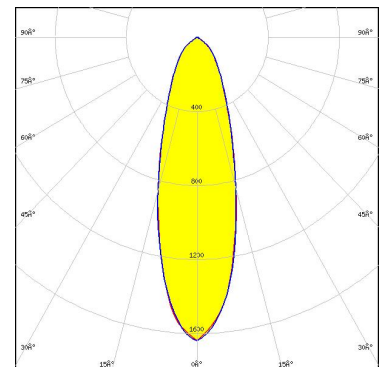
Light distribution files



LED LUXEON 3535L HE PLUS  
FWHM / FWTM 30.0° / 80.0°  
Efficiency 86 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

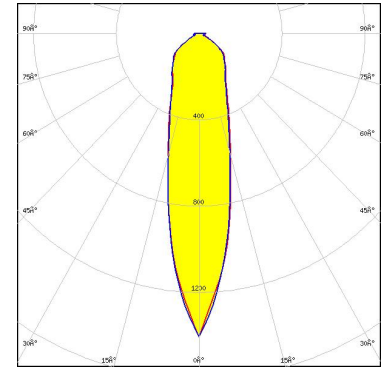
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



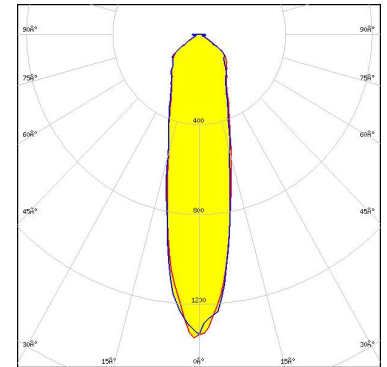
LED LUXEON C  
FWHM / FWTM 25.0° / 105.0°  
Efficiency 91 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type RGBW  
Required components:



Light distribution files



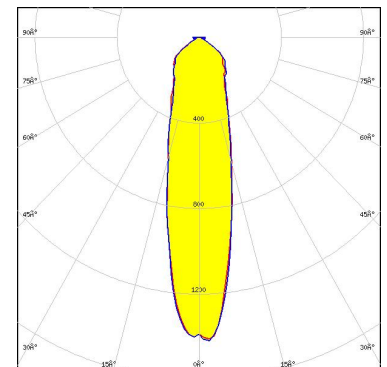
LED LUXEON C  
FWHM / FWTM 25.0° / 107.0°  
Efficiency 90 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type Green  
Required components:



Light distribution files



LED LUXEON C  
FWHM / FWTM 25.0° / 104.0°  
Efficiency 91 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type Blue  
Required components:

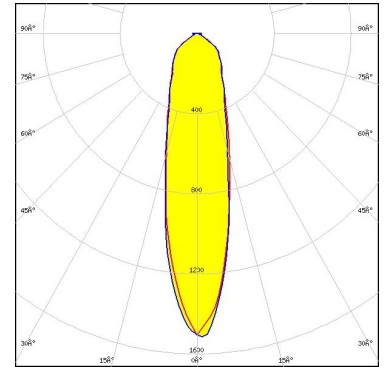


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



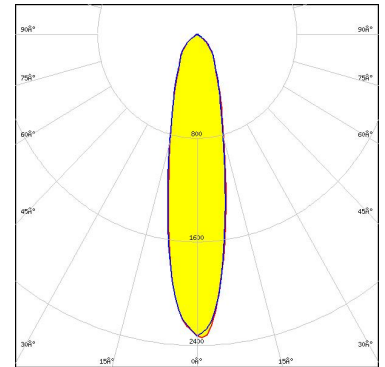
LED LUXEON C  
FWHM / FWTM 25.0° / 96.0°  
Efficiency 91 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



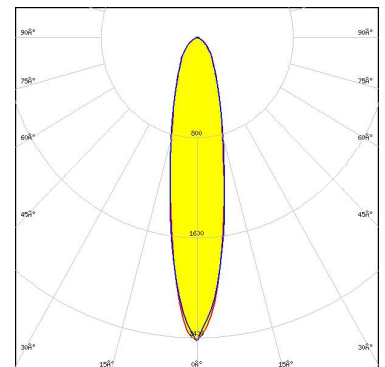
LED LUXEON CZ  
FWHM / FWTM 23.0° / 70.0°  
Efficiency 94 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type RGBW  
Required components:



Light distribution files



LED LUXEON CZ  
FWHM / FWTM 22.0° / 67.0°  
Efficiency 94 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

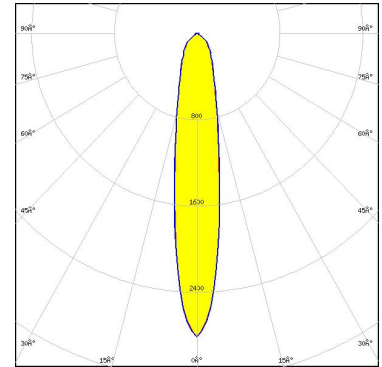


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



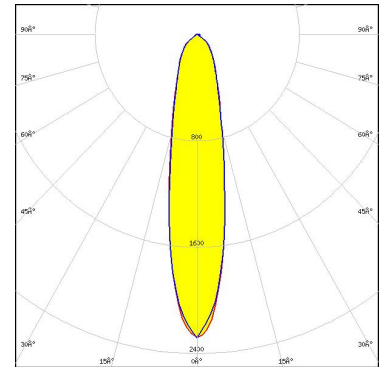
LED LUXEON HL1Z  
FWHM / FWTM 18.0° / 62.0°  
Efficiency 94 %  
Peak intensity 2.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



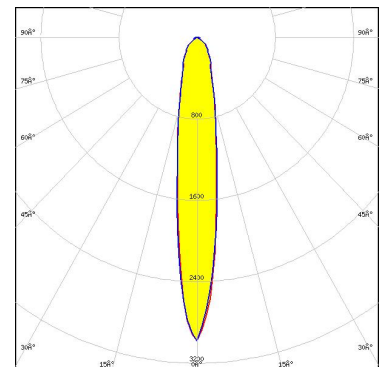
LED NCSxE17A  
FWHM / FWTM 22.0° / 69.0°  
Efficiency 91 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NFSWE11A  
FWHM / FWTM 16.0° / 56.0°  
Efficiency 90 %  
Peak intensity 3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



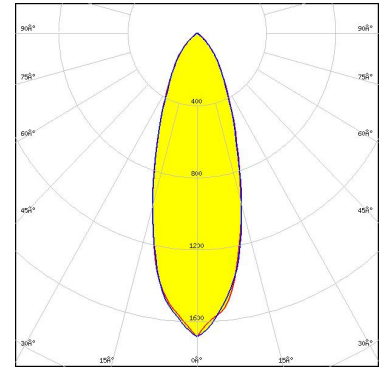
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



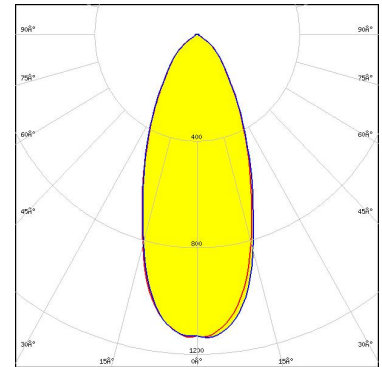
LED NVSW219D  
FWHM / FWTM 34.0° / 80.0°  
Efficiency 93 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



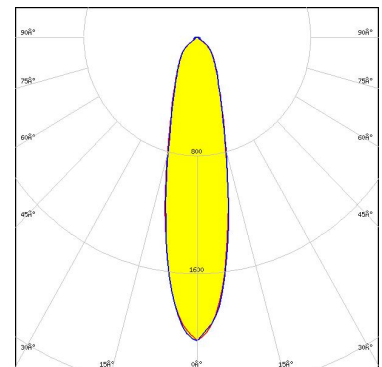
LED NVSW519A  
FWHM / FWTM 43.0° / 95.0°  
Efficiency 90 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NVSxE21A  
FWHM / FWTM 25.0° / 74.0°  
Efficiency 92 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

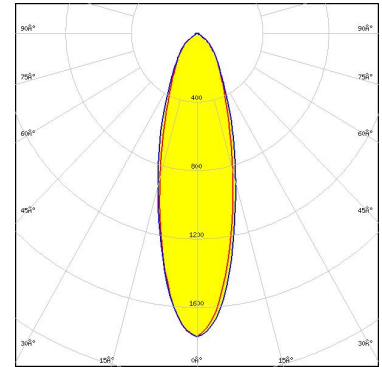


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

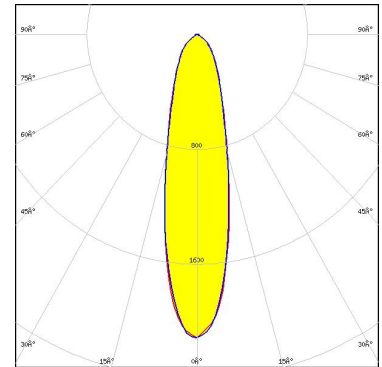
LED Duris E5  
 FWHM / FWTM 30.0° / 80.0°  
 Efficiency 93 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

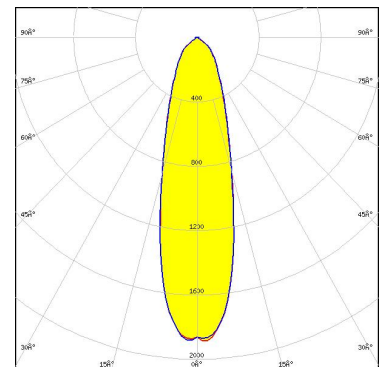
LED OSCONIQ C 2424  
 FWHM / FWTM 26.0° / 73.0°  
 Efficiency 93 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSCONIQ C 3030  
 FWHM / FWTM 28.0° / 78.0°  
 Efficiency 94 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

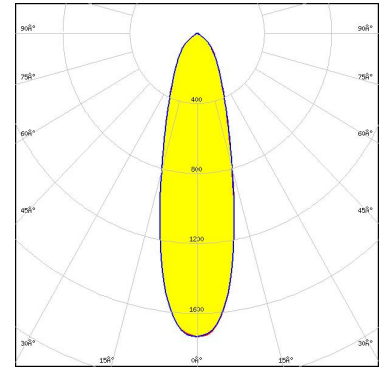
#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED OSCONIQ C 3030  
 FWHM / FWTM 28.0° / 78.0°  
 Efficiency 86 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

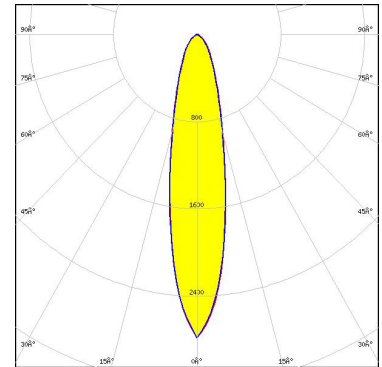
Light distribution files



**OSRAM**  
Opto Semiconductors

LED OSCONIQ P 3030  
 FWHM / FWTM 22.0° / 60.0°  
 Efficiency 94 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

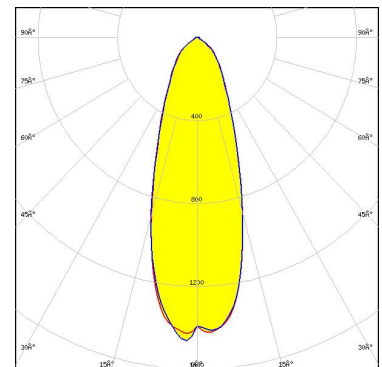
Light distribution files



**OSRAM**  
Opto Semiconductors

LED OSCONIQ P 3737 (3W version)  
 FWHM / FWTM 36.0 + 34.0° / 88.0 + 87.0°  
 Efficiency 94 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

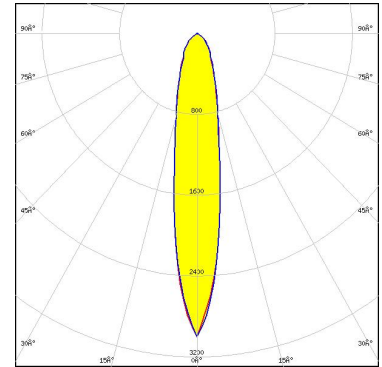
Light distribution files



#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

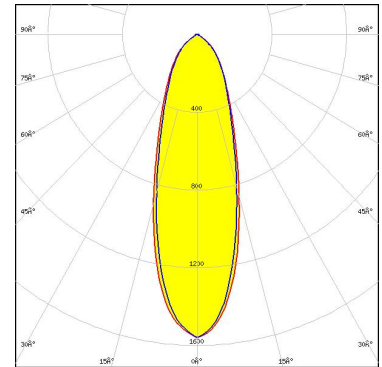
LED OSLON Pure 1414  
 FWHM / FWTM 18.0° / 58.0°  
 Efficiency 95 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

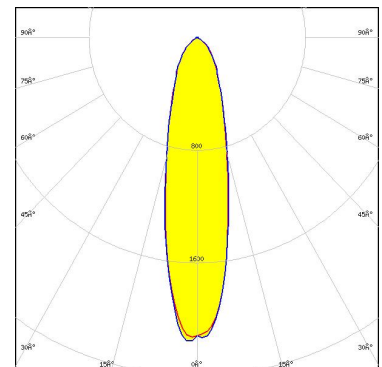
LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 32.0° / 87.0°  
 Efficiency 94 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type Red  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 25.0° / 74.0°  
 Efficiency 94 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type Far Red  
 Required components:

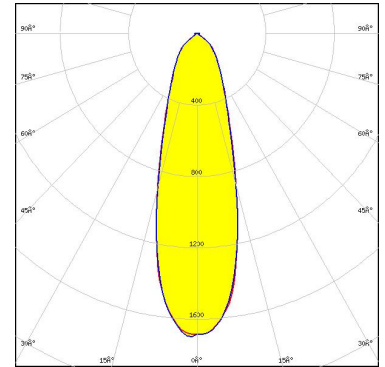


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

LED LH231B  
FWHM / FWTM 31.0° / 82.0°  
Efficiency 91 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

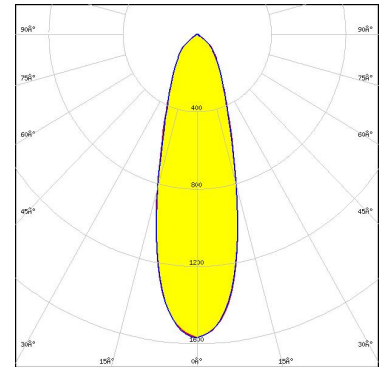


Light distribution files

### SAMSUNG

LED LH231B  
FWHM / FWTM 31.0° / 80.0°  
Efficiency 83 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

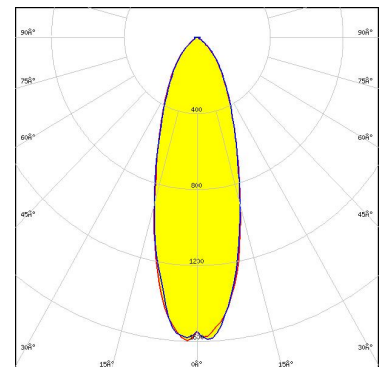
Protective plate, glass



Light distribution files

### SAMSUNG

LED LH351B  
FWHM / FWTM 33.0° / 83.0°  
Efficiency 94 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

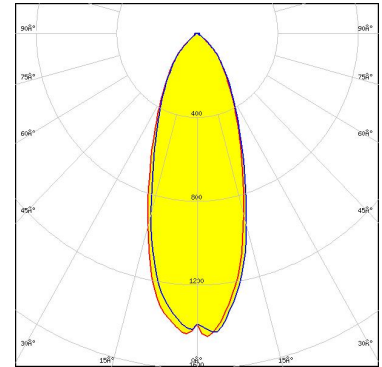


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

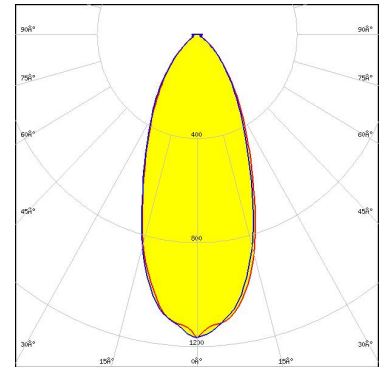
LED LH351C  
FWHM / FWTM 37.0° / 87.0°  
Efficiency 94 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### SAMSUNG

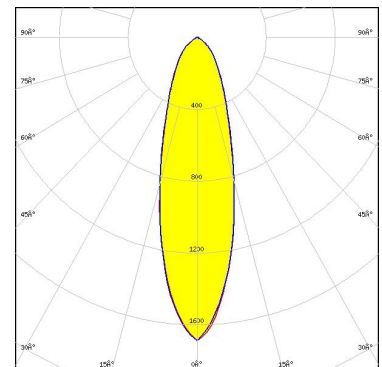
LED LH351D  
FWHM / FWTM 44.0° / 93.0°  
Efficiency 93 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### SAMSUNG

LED LM301B  
FWHM / FWTM 30.0° / 78.0°  
Efficiency 86 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Protective plate, glass

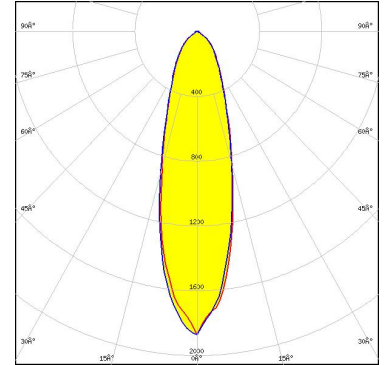
Light distribution files



#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

LED LM301B  
FWHM / FWTM 27.0° / 78.0°  
Efficiency 93 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

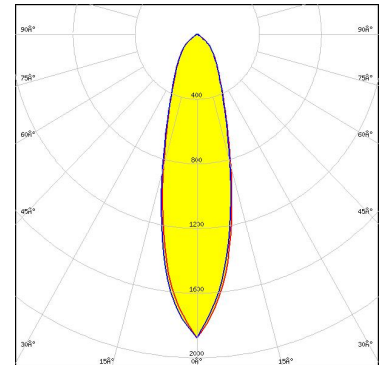


Light distribution files

### SAMSUNG

LED LM301B  
FWHM / FWTM 28.0° / 76.0°  
Efficiency 87 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

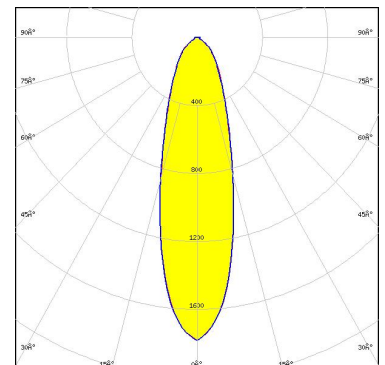
Protective plate, glass



Light distribution files

### SAMSUNG

LED LM302D  
FWHM / FWTM 29.0° / 79.0°  
Efficiency 93 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

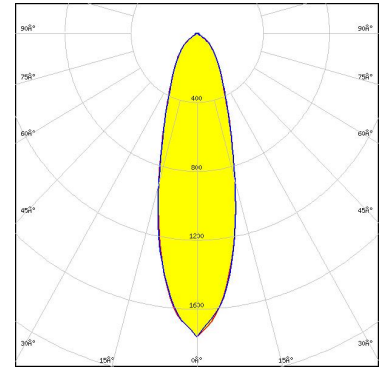


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

LED LM302Z plus  
FWHM / FWTM 30.0° / 80.0°  
Efficiency 93 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

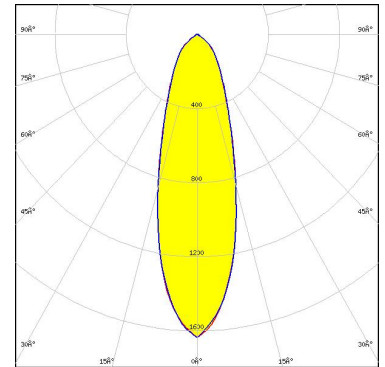


Light distribution files

### SAMSUNG

LED LM302Z plus  
FWHM / FWTM 30.0° / 82.0°  
Efficiency 87 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

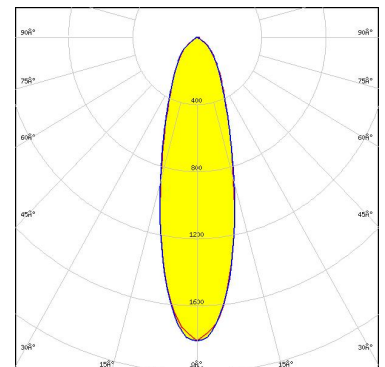
Protective plate, glass



Light distribution files


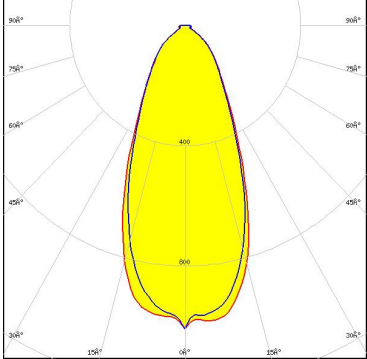



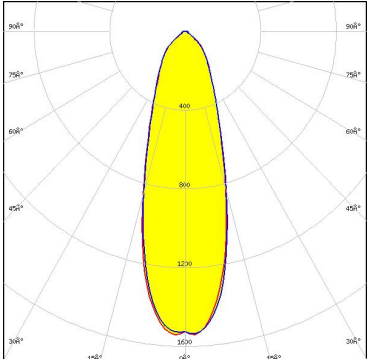
LED SEOUL DC 3030C  
FWHM / FWTM 30.0° / 80.0°  
Efficiency 93 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### OPTICAL RESULTS (SIMULATED):

 <small>SEOUL SEMICONDUCTOR</small>		
LED	SEOUL DC 5050 6V	
FWHM / FWTM	45.0° / 100.0°	
Efficiency	91 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour/type	White	
Required components:		
		Light distribution files

 <small>SEOUL SEMICONDUCTOR</small>		
LED	Z8Y22T	
FWHM / FWTM	31.0° / 82.0°	
Efficiency	93 %	
Peak intensity	1.6 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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