

VERONICA-SQ-RS

~13° spot beam

SPECIFICATION:

Dimensions	Ø 22.5 mm
Height	12.2 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

MATERIALS:

Component	Type	Material	Colour	Finish	Length
VERONICA-SQ-RS	Single lens	PMMA	clear		22.5
VERONICA-TAPE	Tape	Acrylic foam	clear		22.0



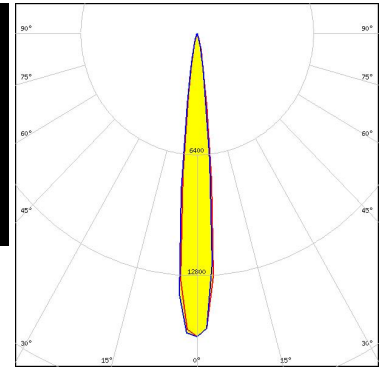
ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CA13724_VERONICA-SQ-RS » Box size: 476 x 273 x 197 mm	Single lens	1980	360	90	8.2

OPTICAL RESULTS (MEASURED):



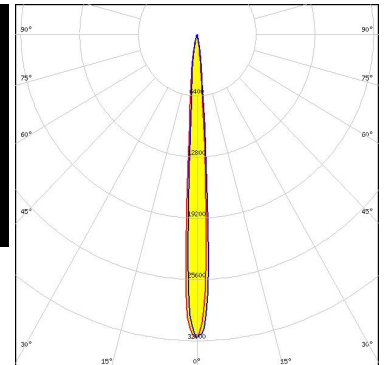
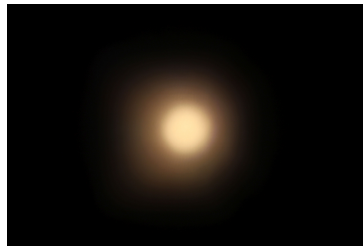
LED XB-H
FWHM / FWTM 12.0° / 22.0°
Efficiency 87 %
Peak intensity 16 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



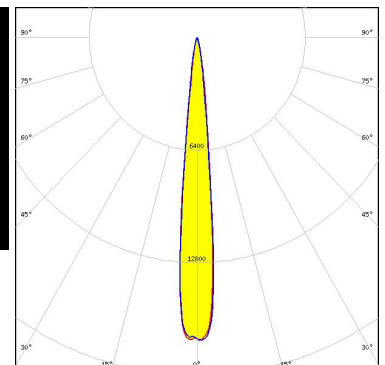
LED XP-E2
FWHM / FWTM 7.0° / 17.0°
Efficiency 97 %
Peak intensity 31.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G2
FWHM / FWTM 11.0° / 20.0°
Efficiency 90 %
Peak intensity 18.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

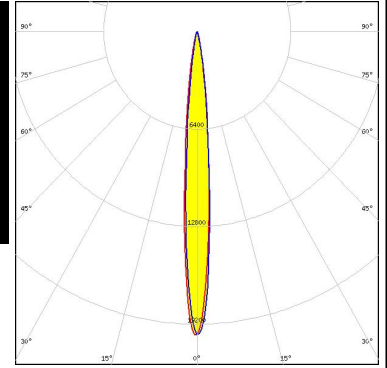
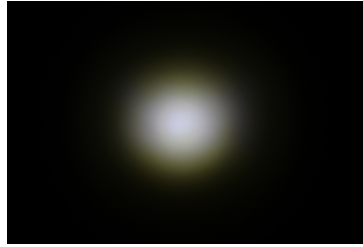


Light distribution files

OPTICAL RESULTS (MEASURED):



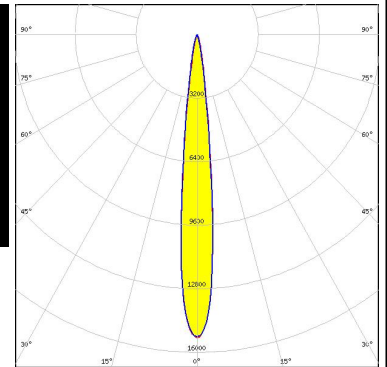
LED LUXEON 3030 2D (Square LES)
 FWHM / FWTM 10.0° / 21.0°
 Efficiency 92 %
 Peak intensity 19.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



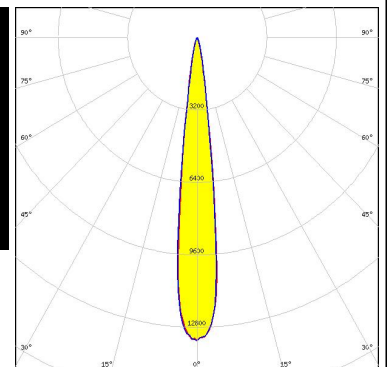
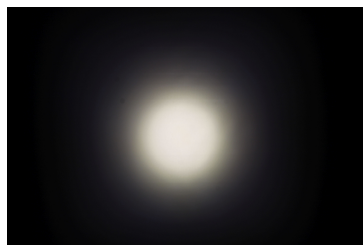
LED LUXEON V2
 FWHM / FWTM 12.0° / 22.0°
 Efficiency 94 %
 Peak intensity 15.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NVSW219F
 FWHM / FWTM 13.0° / 23.0°
 Efficiency 94 %
 Peak intensity 13.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

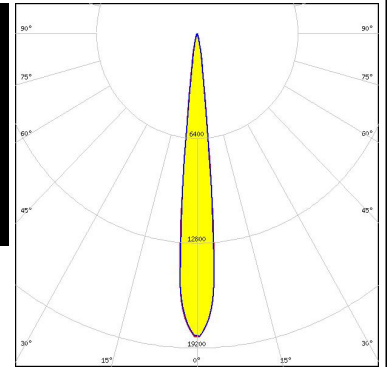


Light distribution files

OPTICAL RESULTS (MEASURED):



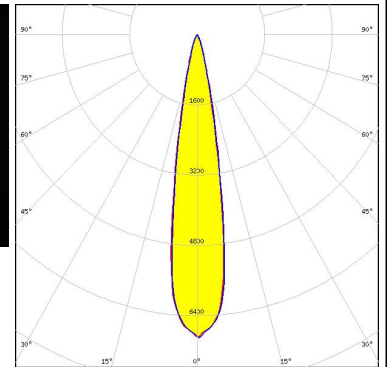
LED NVSW719AC
 FWHM / FWTM 11.0° / 20.0°
 Efficiency 97 %
 Peak intensity 18.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



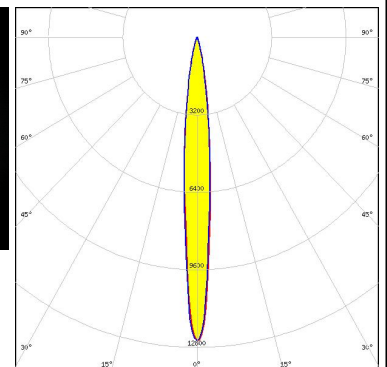
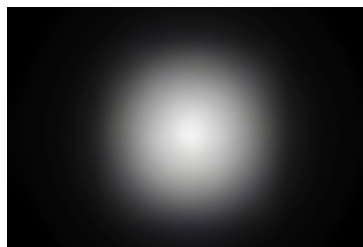
LED NWSx229A
 FWHM / FWTM 18.0° / 33.0°
 Efficiency 88 %
 Peak intensity 6.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LH181A
 FWHM / FWTM 10.0° / 26.0°
 Efficiency 93 %
 Peak intensity 12.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

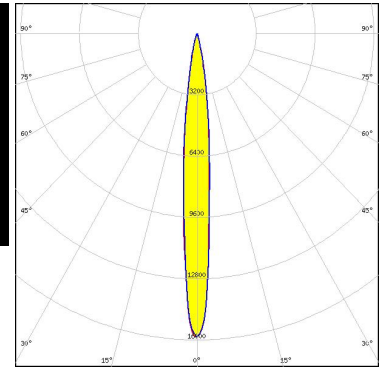
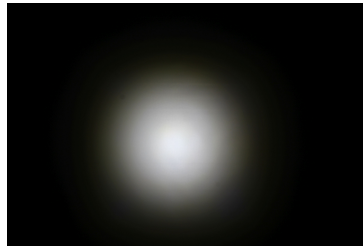


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

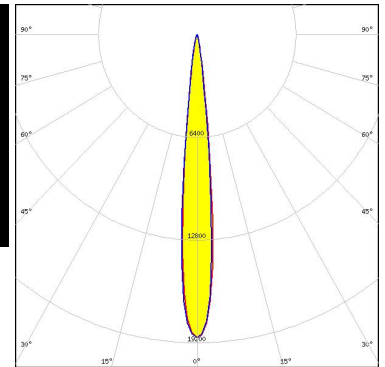
LED LH181B
 FWHM / FWTM 10.0° / 24.0°
 Efficiency 94 %
 Peak intensity 15.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

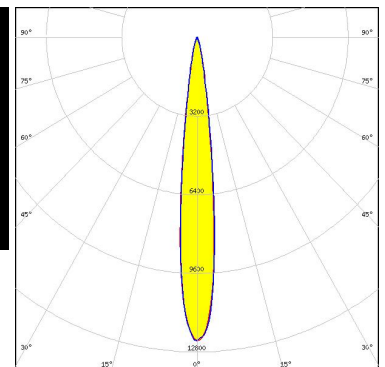
LED LH351Z
 FWHM / FWTM 12.0° / 20.0°
 Efficiency 89 %
 Peak intensity 18.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



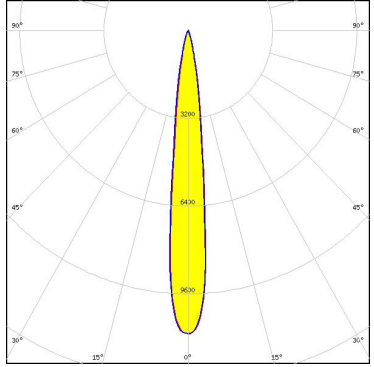



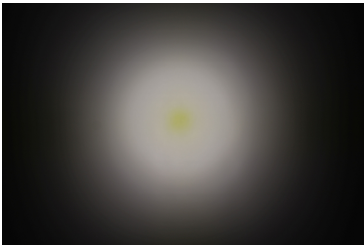
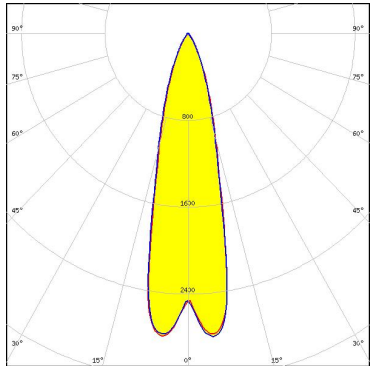
LED Z5M3
 FWHM / FWTM 13.0° / 25.0°
 Efficiency 94 %
 Peak intensity 12.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OPTICAL RESULTS (MEASURED):

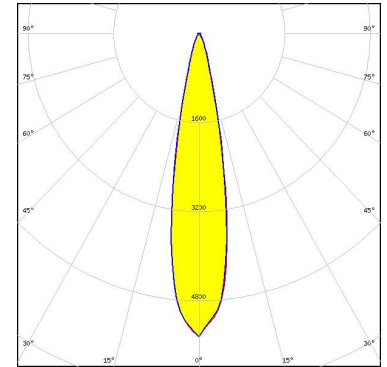
 <small>SEOUL SEMICONDUCTOR</small>			
LED	Z8Y22P		
FWHM / FWTM	12.0° / 26.0°		
Efficiency	86 %		
Peak intensity	11.1 cd/lm		
LEDs/each optic	1		
Light colour/type	White		
Required components:		<p>Light distribution files</p>	

 <small>SEOUL SEMICONDUCTOR</small>			
LED	Z8Y50P		
FWHM / FWTM	25.0° / 52.0°		
Efficiency	86 %		
Peak intensity	2.8 cd/lm		
LEDs/each optic	1		
Light colour/type	White		
Required components:		<p>Light distribution files</p>	

OPTICAL RESULTS (SIMULATED):



LED XHP35.2 HD
FWHM / FWTM 20.0° / 37.0°
Efficiency 94 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XM-L
FWHM / FWTM 15.0°
Efficiency 91 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED XM-L2
FWHM / FWTM 15.0°
Efficiency 92 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (SIMULATED):

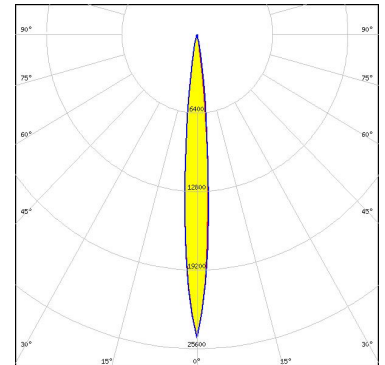


LED XP-E
FWHM / FWTM 8.0°
Efficiency 92 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED XP-E2
FWHM / FWTM 10.0° / 19.0°
Efficiency 96 %
Peak intensity 24.7 cd/lm
LEDs/each optic 1
Light colour/type Amber
Required components:



Light distribution files



LED XP-E2
FWHM / FWTM 8.0°
Efficiency 92 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (SIMULATED):

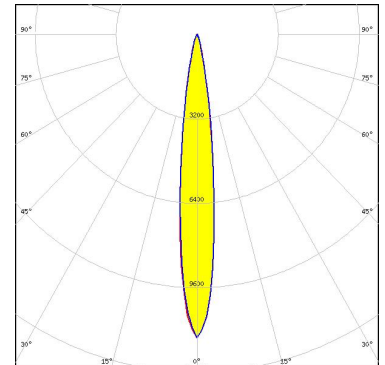


LED XP-G
FWHM / FWTM 10.0°
Efficiency 92 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



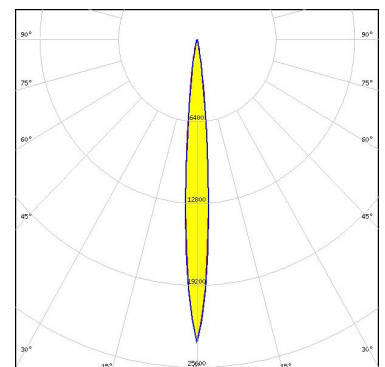
LED XP-G2 HE
FWHM / FWTM 14.0° / 27.0°
Efficiency 98 %
Peak intensity 11.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G4 HI
FWHM / FWTM 8.0° / 18.0°
Efficiency 96 %
Peak intensity 23.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

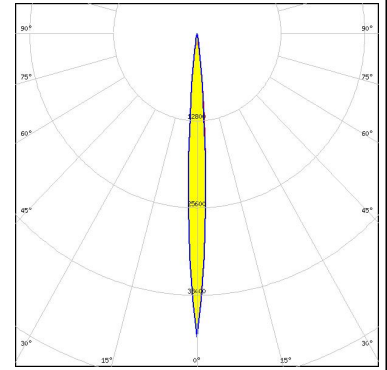


Light distribution files

OPTICAL RESULTS (SIMULATED):



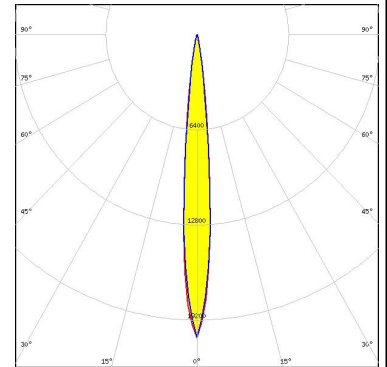
LED XP-P
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 96 %
 Peak intensity 44.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



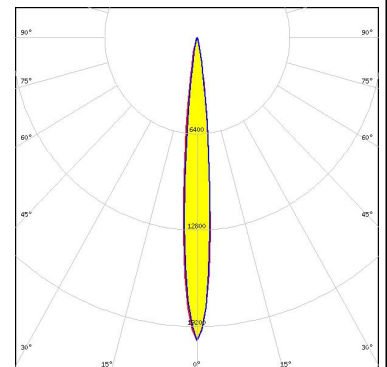
LED XT-E
 FWHM / FWTM 10.0° / 20.0°
 Efficiency 90 %
 Peak intensity 20.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON 3030 HV
 FWHM / FWTM 10.0° / 21.0°
 Efficiency 94 %
 Peak intensity 21 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OPTICAL RESULTS (SIMULATED):



LED	LUXEON A
FWHM / FWTM	11.0°
Efficiency	90 %
LEDs/each optic	1
Light colour/type	White
Required components:	

[Light distribution files](#)



LED	LUXEON R
FWHM / FWTM	11.0°
Efficiency	90 %
LEDs/each optic	1
Light colour/type	White
Required components:	

[Light distribution files](#)



LED	LUXEON Rebel
FWHM / FWTM	9.0°
Efficiency	90 %
LEDs/each optic	1
Light colour/type	White
Required components:	

[Light distribution files](#)

OPTICAL RESULTS (SIMULATED):

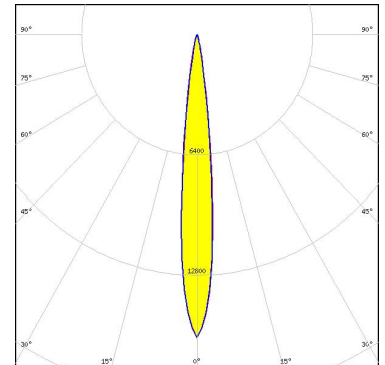


LED LUXEON Rebel ES
FWHM / FWTM 11.0°
Efficiency 90 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



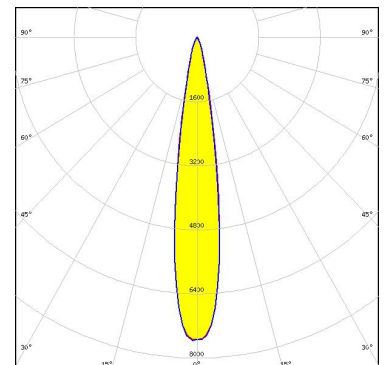
LED LUXEON T
FWHM / FWTM 12.0° / 22.0°
Efficiency 96 %
Peak intensity 16.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON V
FWHM / FWTM 17.0° / 31.0°
Efficiency 94 %
Peak intensity 7.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

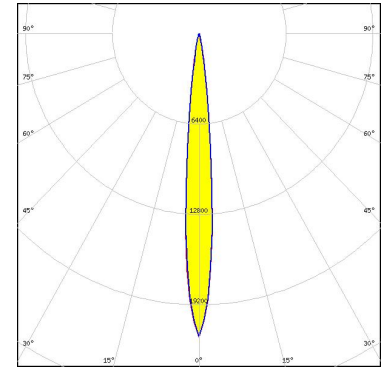


Light distribution files

OPTICAL RESULTS (SIMULATED):



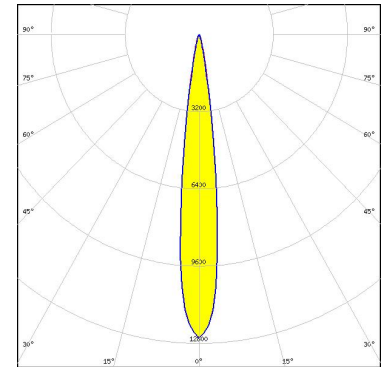
LED SFT-40-WCS
FWHM / FWTM 10.0° / 20.0°
Efficiency 96 %
Peak intensity 21.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED SFT-70X-WCS
FWHM / FWTM 14.0° / 24.0°
Efficiency 96 %
Peak intensity 12.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



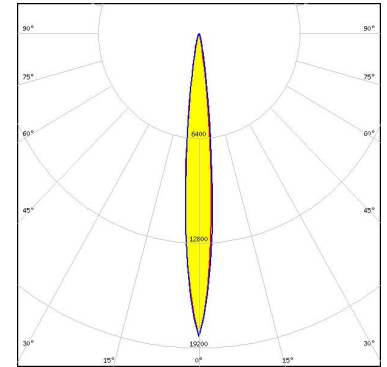
LED NCSxx19A
FWHM / FWTM 8.0°
Efficiency 88 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (SIMULATED):



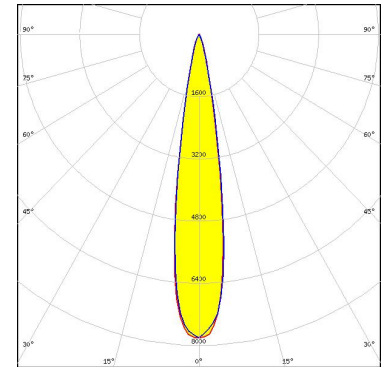
LED NF2x757G
FWHM / FWTM 10.0° / 21.0°
Efficiency 96 %
Peak intensity 18.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



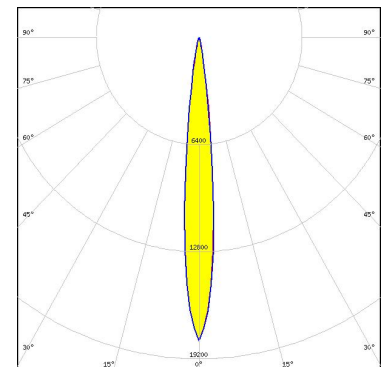
LED NV4WB35AM
FWHM / FWTM 18.0° / 32.0°
Efficiency 96 %
Peak intensity 7.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

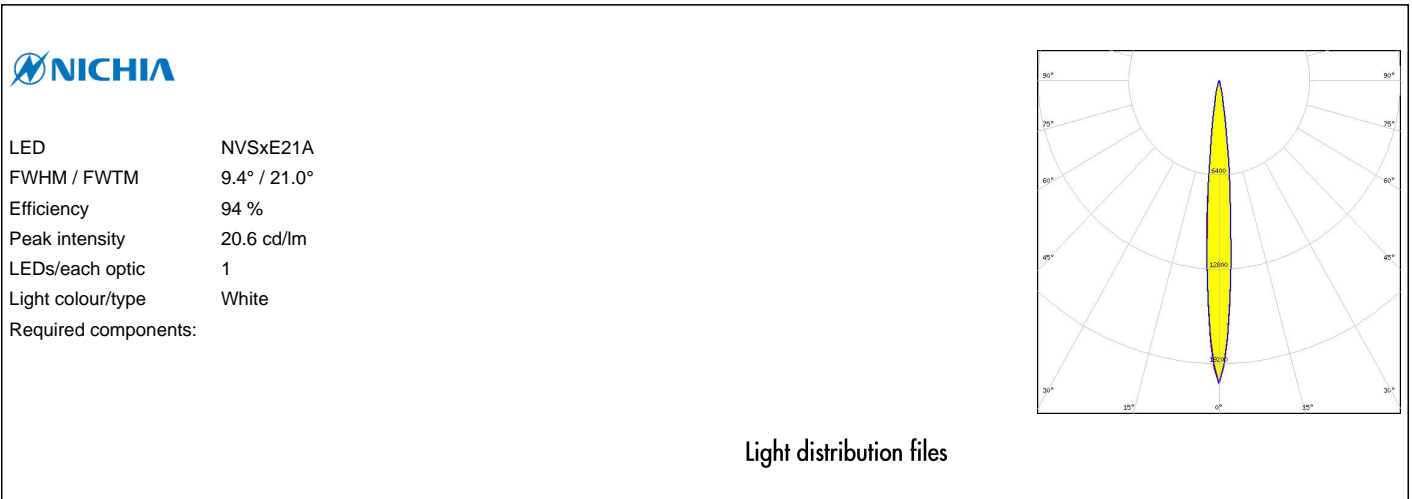


LED NVSW719AC
FWHM / FWTM 12.0° / 20.0°
Efficiency 96 %
Peak intensity 18.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

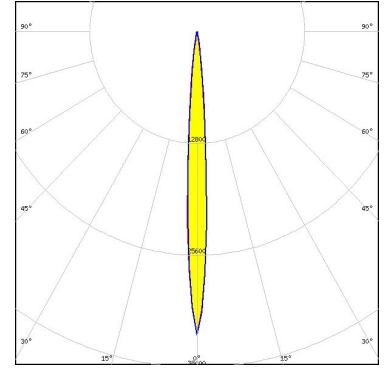
OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

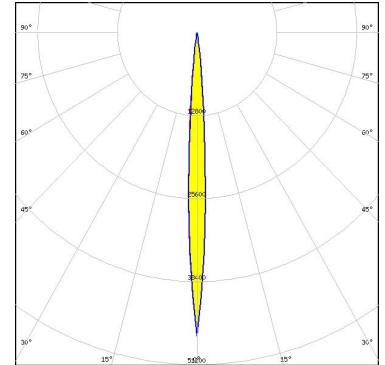
LED OSCONIQ P 3030
 FWHM / FWTM 7.3° / 16.0°
 Efficiency 96 %
 Peak intensity 34.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

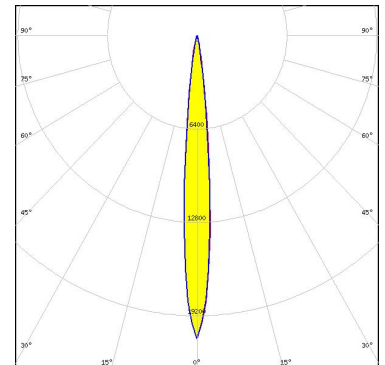
LED OSLO Pure 1414
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 95 %
 Peak intensity 46.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLO Square CSSRM2/CSSRM3
 FWHM / FWTM 10.0° / 20.0°
 Efficiency 94 %
 Peak intensity 20.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

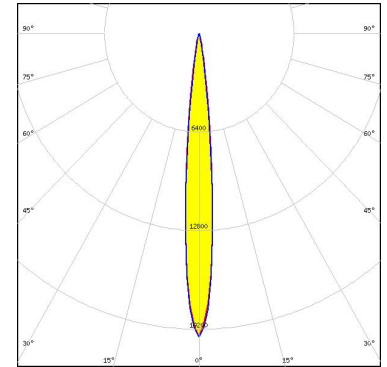


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED OSLON Square EC
FWHM / FWTM 10.0° / 19.0°
Efficiency 94 %
Peak intensity 20.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON Square PC
FWHM / FWTM 10.0°
Efficiency 90 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OSRAM
Opto Semiconductors

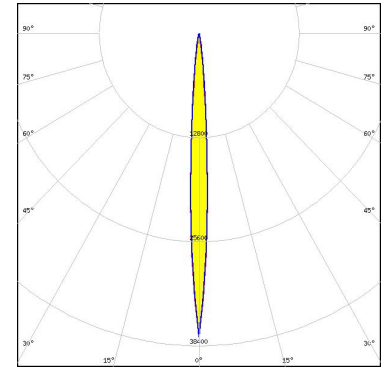
LED OSLON SSL 150
FWHM / FWTM 8.0°
Efficiency 91 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

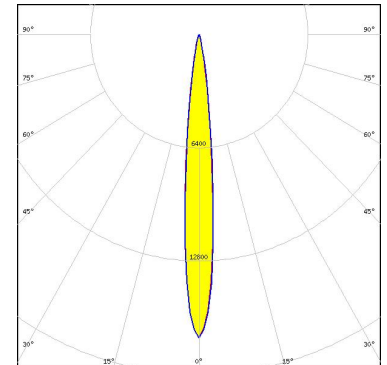
LED OSLON SSL 80
FWHM / FWTM 7.0°
Efficiency 90 %
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH181B
FWHM / FWTM 11.0° / 23.0°
Efficiency 94 %
Peak intensity 17 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



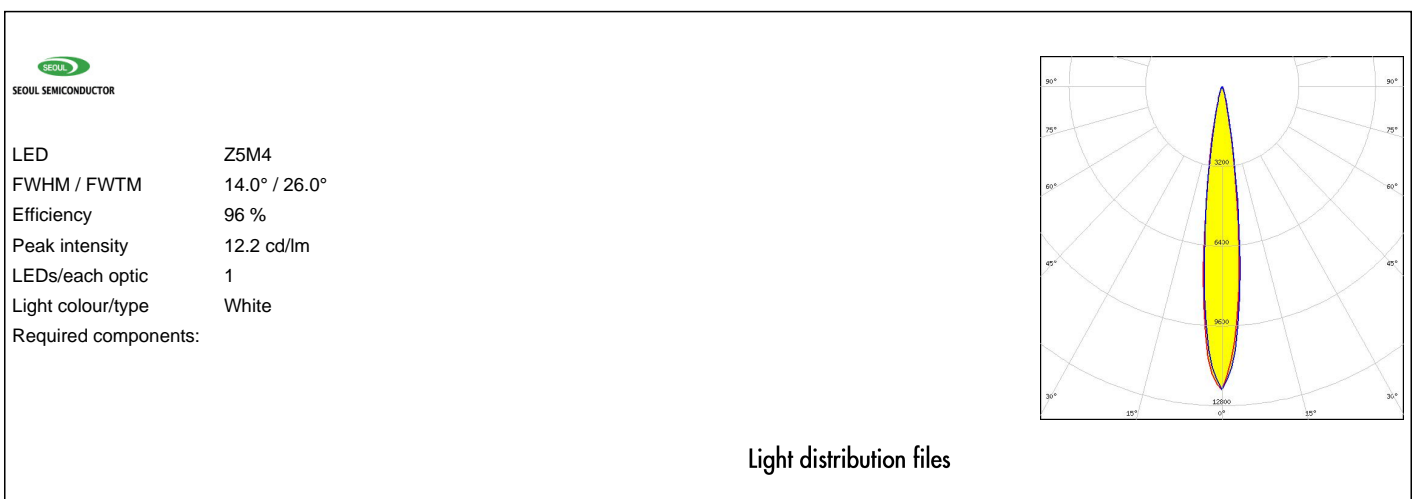
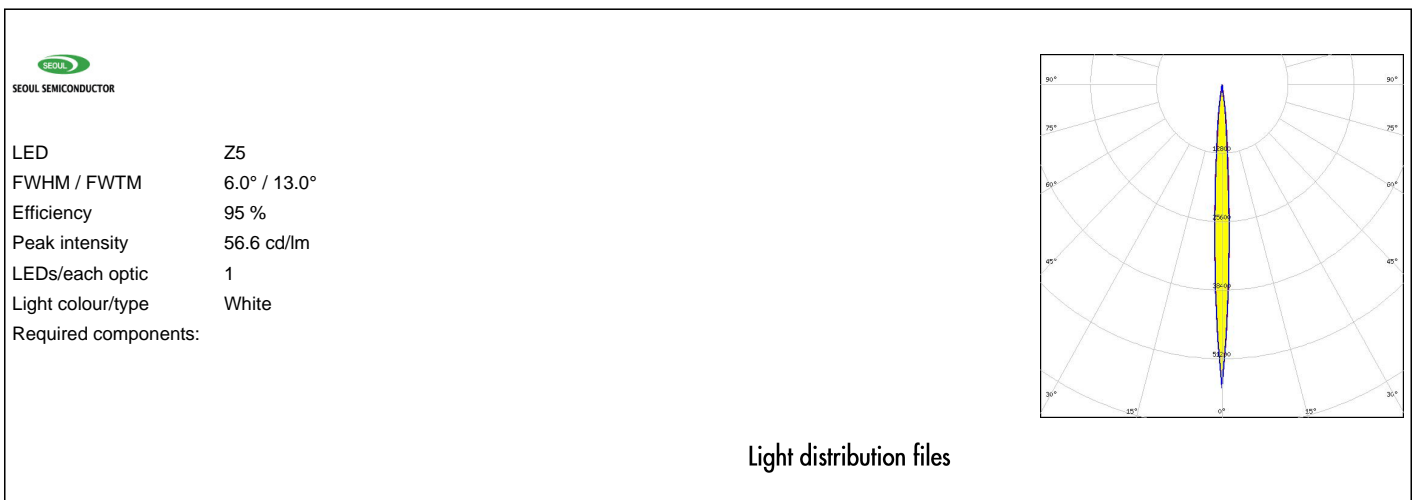
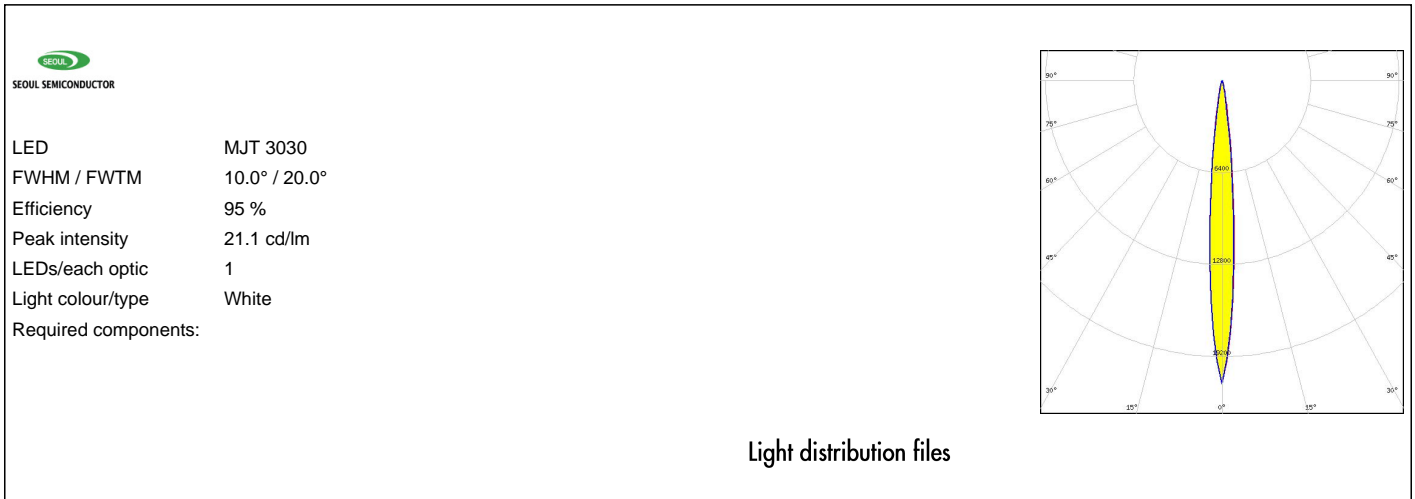
Light distribution files

SAMSUNG

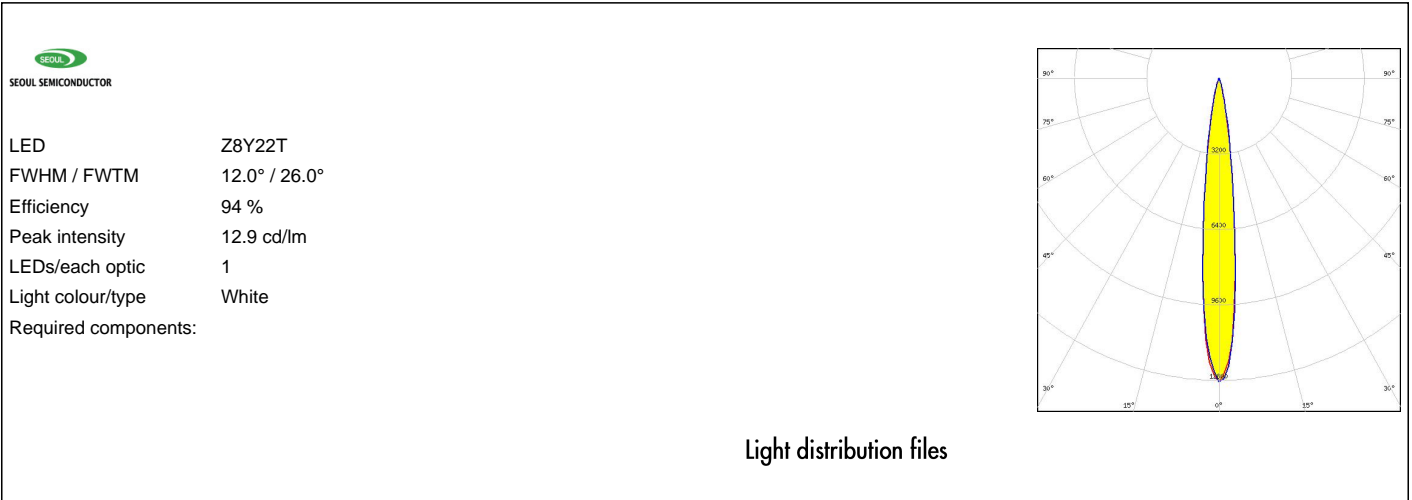
LED LH351B
FWHM / FWTM 12.0°
Efficiency 93 %
LEDs/each optic 1
Light colour/type White
Required components:

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:

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.

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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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Hong Kong, China

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