

VERONICA-SQ-RS

~13° spot beam

SPECIFICATION:

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

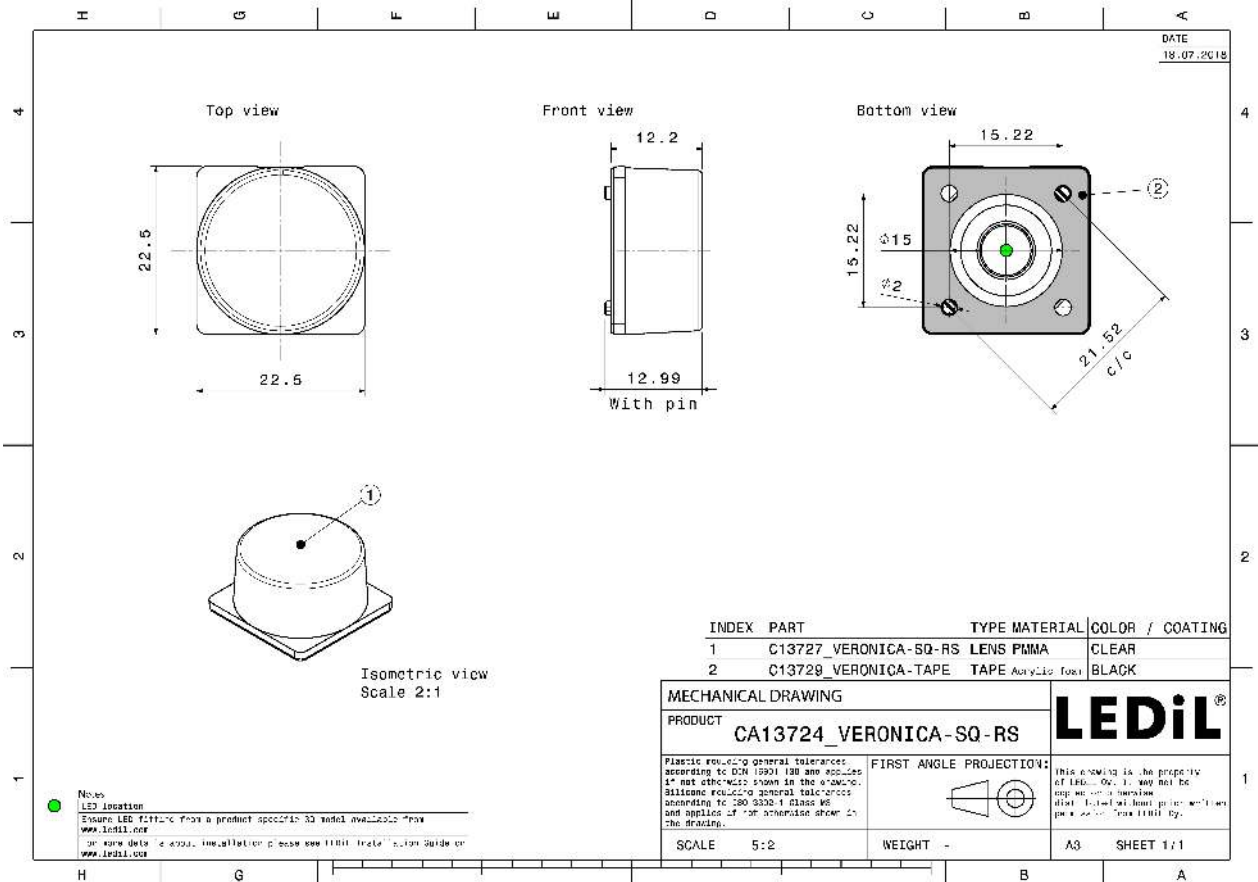
MATERIALS:

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

ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CA13724_VERONICA-SQ-RS » Box size: 480 x 280 x 300 mm	Single lens	1980	360	90	8.2



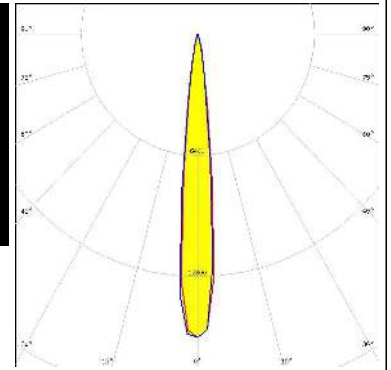


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

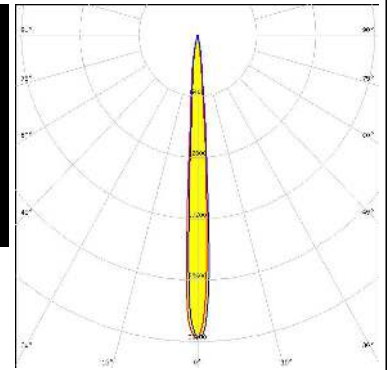
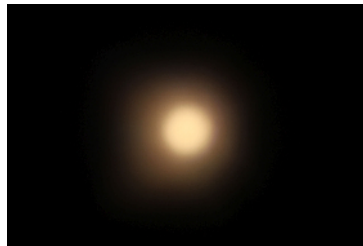
CREE LED

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



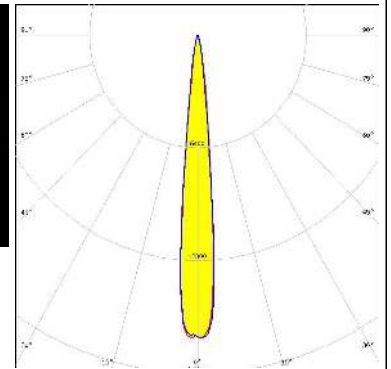
CREE LED

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



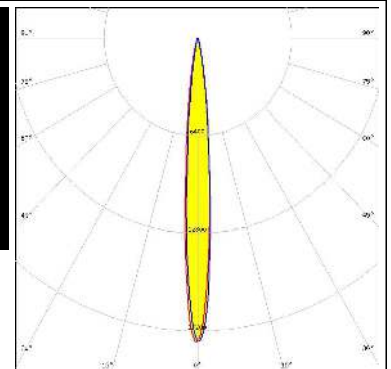
CREE LED

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


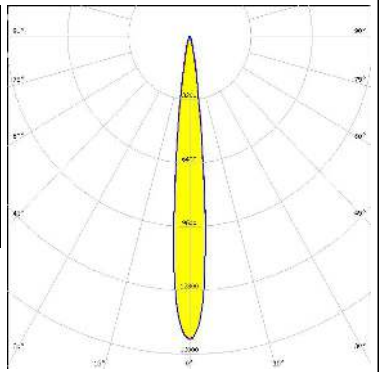

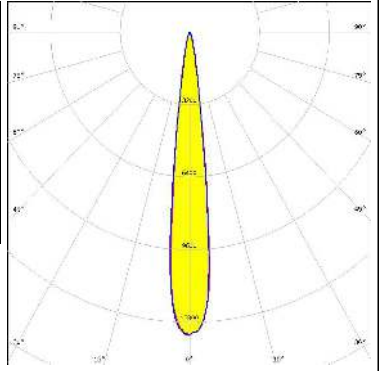

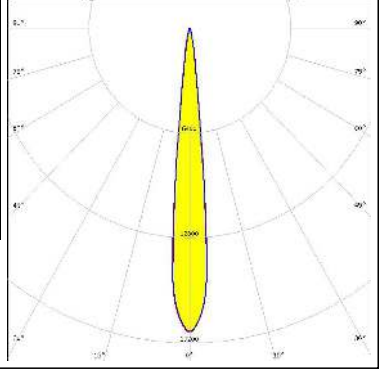

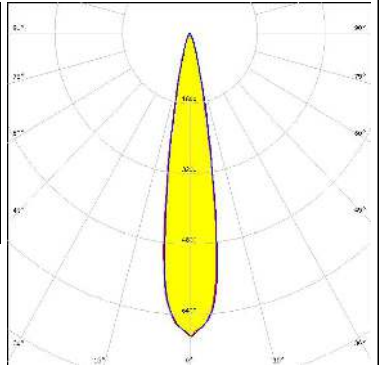


LUMILEDS

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 White
 Required components:



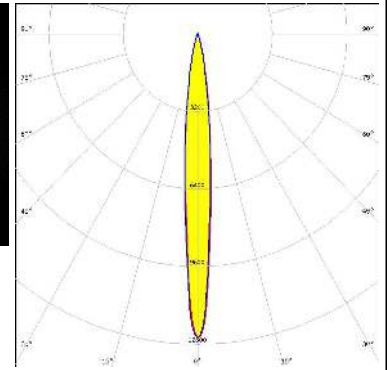
OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON V2 FWHM / FWTM 12.0° / 22.0° Efficiency 94 % Peak intensity 15.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NVSW219F FWHM / FWTM 13.0° / 23.0° Efficiency 94 % Peak intensity 13.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NVSW719AC Assembly NULL FWHM / FWTM 11.0° / 20.0° Efficiency 97 % Peak intensity 18.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NWSx229A FWHM / FWTM 18.0° / 33.0° Efficiency 88 % Peak intensity 6.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

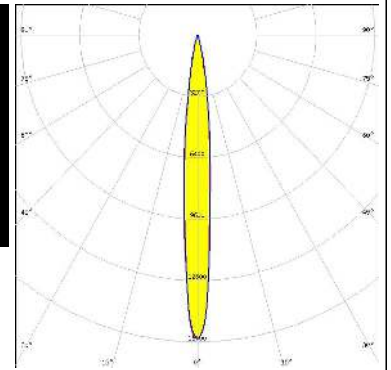
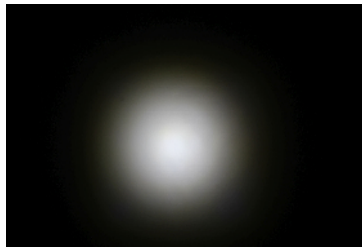
SAMSUNG

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



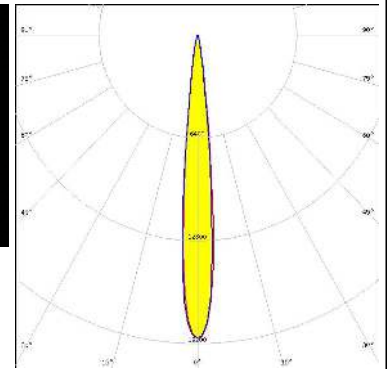
SAMSUNG

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

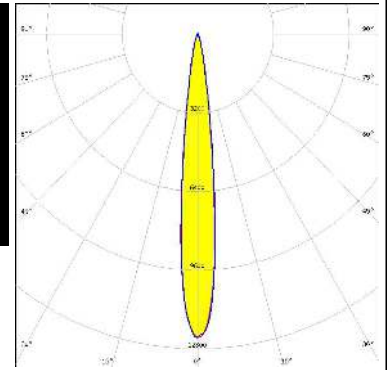


SAMSUNG



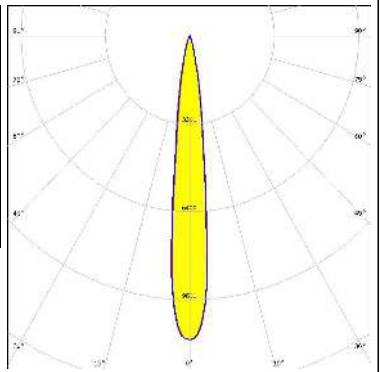


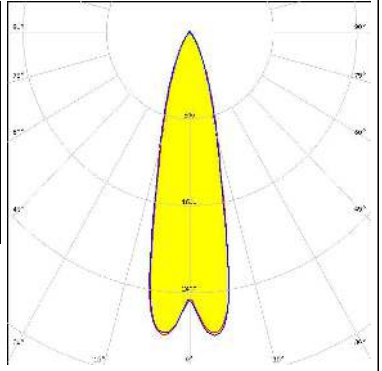
LED LH351Z
 FWHM / FWTM 12.0° / 20.0°
 Efficiency 89 %
 Peak intensity 18.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



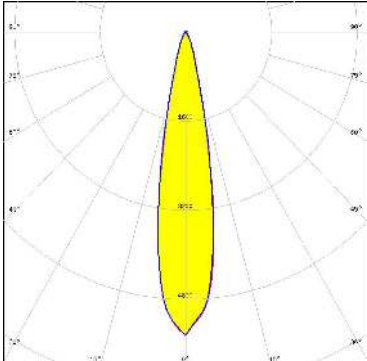
SEOUL SEMICONDUCTOR
 LED Z5M3
 FWHM / FWTM 13.0° / 25.0°
 Efficiency 94 %
 Peak intensity 12.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22P</p> <p>FWHM / FWTM 12.0° / 26.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 11.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p> SEOUL SEMICONDUCTOR</p> <p>LED Z8Y50P</p> <p>FWHM / FWTM 25.0° / 52.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 2.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

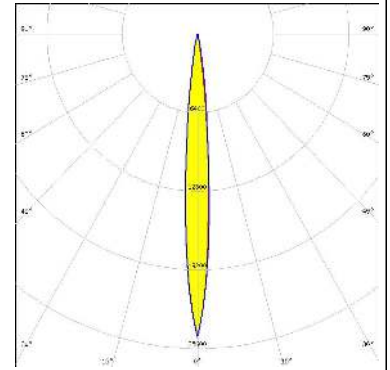
OPTICAL RESULTS (SIMULATED):

<p>CREE ⇄ LED</p> <p>LED: XHP35.2 HD FWHM / FWTM: 20.0° / 37.0° Efficiency: 94 % Peak intensity: 5.5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE ⇄ LED</p> <p>LED: XM-L FWHM / FWTM: 15.0° Efficiency: 91 % LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE ⇄ LED</p> <p>LED: XM-L2 FWHM / FWTM: 15.0° Efficiency: 92 % LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE ⇄ LED</p> <p>LED: XP-E FWHM / FWTM: 8.0° Efficiency: 92 % LEDs/each optic: 1 Light colour: White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

CREE ⇄ LED

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

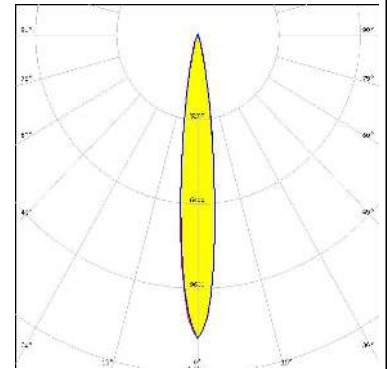


CREE ⇄ LED

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

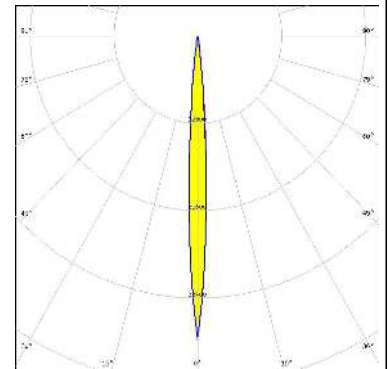
CREE ⇄ LED

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

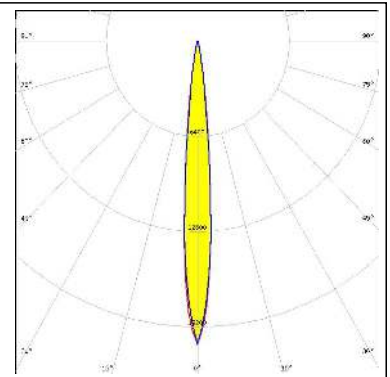
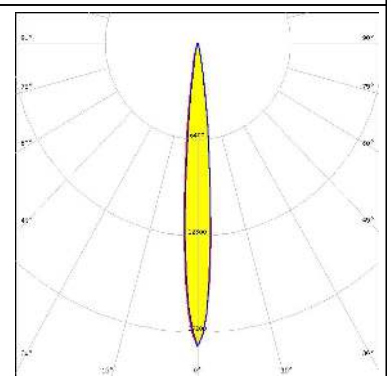


CREE ⇄ LED




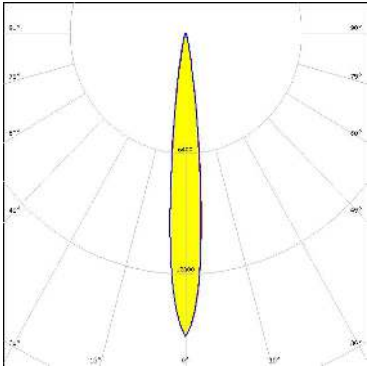

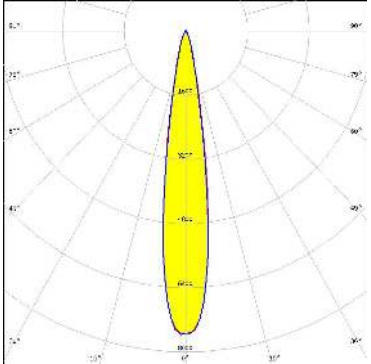
LED XP-P
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 96 %
 Peak intensity 44.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

<p>CREE → LED</p> <p>LED XT-E FWHM / FWTM 10.0° / 20.0° Efficiency 90 % Peak intensity 20.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON 3030 HV FWHM / FWTM 10.0° / 21.0° Efficiency 94 % Peak intensity 21 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON A FWHM / FWTM 11.0° Efficiency 90 % LEDs/each optic 1 Light colour White Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON R FWHM / FWTM 11.0° Efficiency 90 % LEDs/each optic 1 Light colour White Required components:</p>	

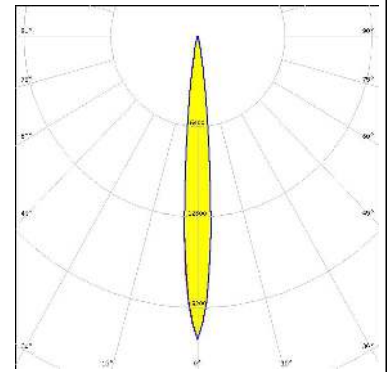
OPTICAL RESULTS (SIMULATED):

		
LED	LUXEON Rebel	
FWHM / FWTM	9.0°	
Efficiency	90 %	
LEDs/each optic	1	
Light colour	White	
Required components:		
		
LED	LUXEON Rebel ES	
FWHM / FWTM	11.0°	
Efficiency	90 %	
LEDs/each optic	1	
Light colour	White	
Required components:		
		
LED	LUXEON T	
FWHM / FWTM	12.0° / 22.0°	
Efficiency	96 %	
Peak intensity	16.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		
LED	LUXEON V	
FWHM / FWTM	17.0° / 31.0°	
Efficiency	94 %	
Peak intensity	7.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		

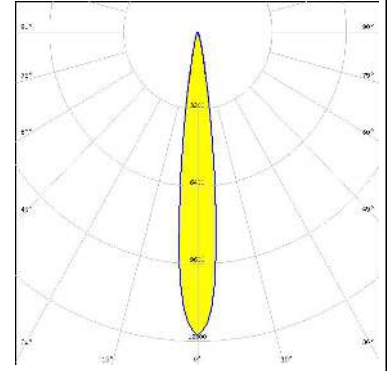
OPTICAL RESULTS (SIMULATED):



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



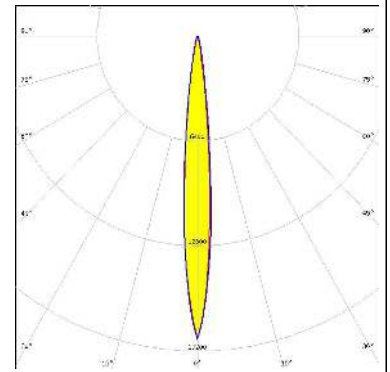
LED SFT-70X-WCS
 FWHM / FWTM 14.0° / 24.0°
 Efficiency 96 %
 Peak intensity 12.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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



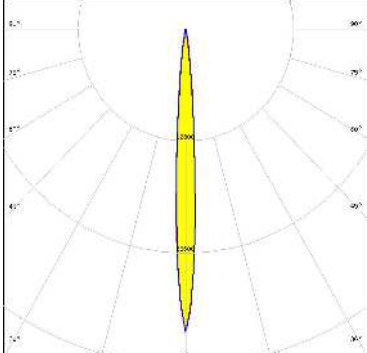
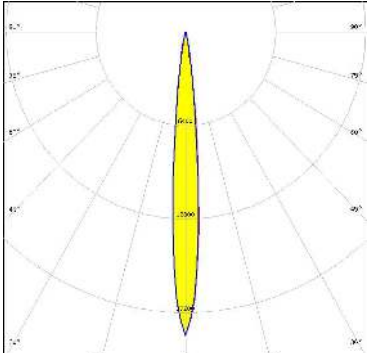
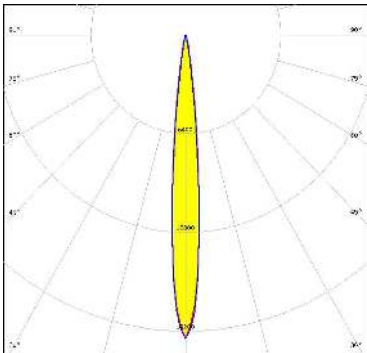

LED NF2x757G
 FWHM / FWTM 10.0° / 21.0°
 Efficiency 96 %
 Peak intensity 18.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED NV4WB35AM FWHM / FWTM 18.0° / 32.0° Efficiency 96 % Peak intensity 7.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NVSxE21A FWHM / FWTM 9.4° / 21.0° Efficiency 94 % Peak intensity 20.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NVSxx19A FWHM / FWTM 15.0° / 28.0° Efficiency 96 % Peak intensity 10.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NVSxx19B/NVSxx19C FWHM / FWTM 11.0° Efficiency 89 % LEDs/each optic 1 Light colour White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED OSCONIQ P 3030</p> <p>FWHM / FWTM 7.3° / 16.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 34.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 10.0° / 20.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 20.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square EC</p> <p>FWHM / FWTM 10.0° / 19.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 20.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square PC</p> <p>FWHM / FWTM 10.0°</p> <p>Efficiency 90 %</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

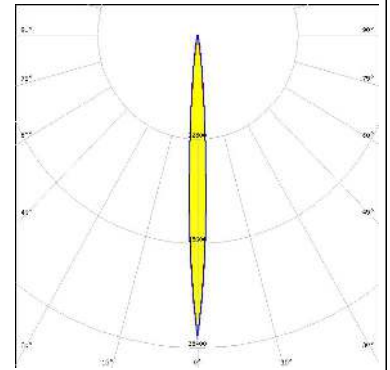
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED OSLO[®] SSL 150
FWHM / FWTM 8.0°
Efficiency 91 %
LEDs/each optic 1
Light colour White
Required components:

OSRAM
Opto Semiconductors

LED OSLO[®] SSL 80
FWHM / FWTM 7.0°
Efficiency 90 %
LEDs/each optic 1
Light colour White
Required components:

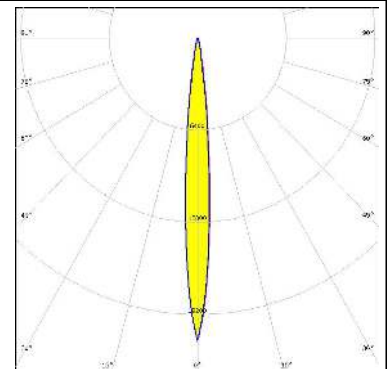


SAMSUNG


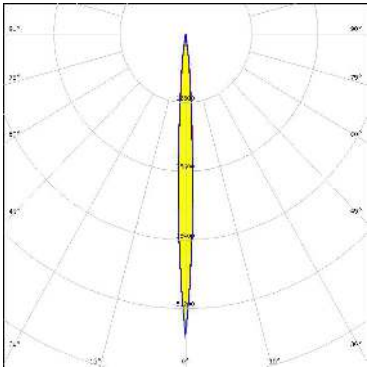

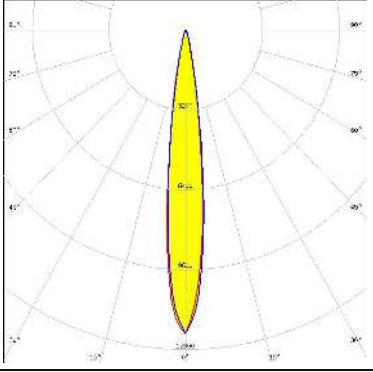

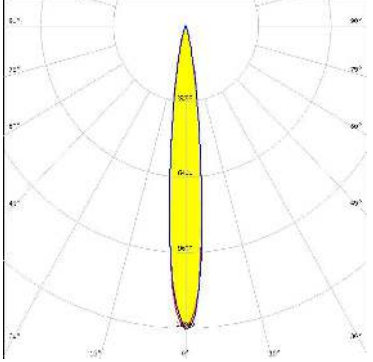
LED LH351B
FWHM / FWTM 12.0°
Efficiency 93 %
LEDs/each optic 1
Light colour White
Required components:

SECL
SEOUL SEMICONDUCTOR

LED MJT 3030
FWHM / FWTM 10.0° / 20.0°
Efficiency 95 %
Peak intensity 21.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (SIMULATED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED: Z5</p> <p>FWHM / FWTM: 6.0° / 13.0°</p> <p>Efficiency: 95 %</p> <p>Peak intensity: 56.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p> SEOUL SEMICONDUCTOR</p> <p>LED: Z5M4</p> <p>FWHM / FWTM: 14.0° / 26.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 12.2 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p> SEOUL SEMICONDUCTOR</p> <p>LED: Z8Y22T</p> <p>FWHM / FWTM: 12.0° / 26.0°</p> <p>Efficiency: 94 %</p> <p>Peak intensity: 12.9 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

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

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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

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