

## STRADELLA-IP-28-HB-S

~30° spot beam. Variant made from PMMA.

## TECHNICAL SPECIFICATIONS:

Dimensions	100.0 x 100.0 mm
Height	9.5 mm
Fastening	pin, screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

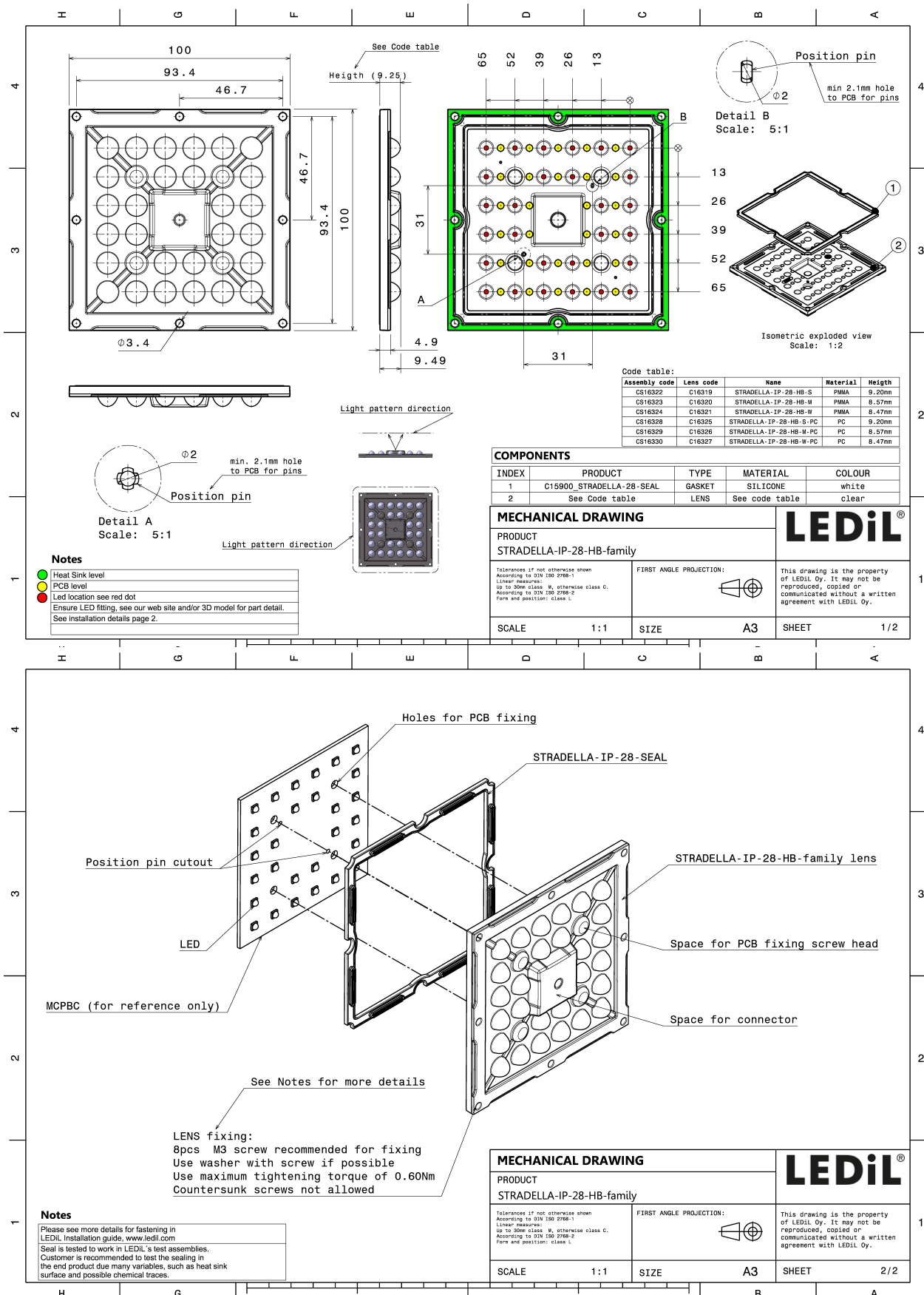
## MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
STRADELLA-IP-28-HB-S	Multi-lens	PMMA	clear	
STRADELLA-28-SEAL	Seal	Silicone	white	

## ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS16322_STRADELLA-IP-28-HB-S	Multi-lens	156	78	78	5.9
» Box size: 476 x 273 x 247 mm					



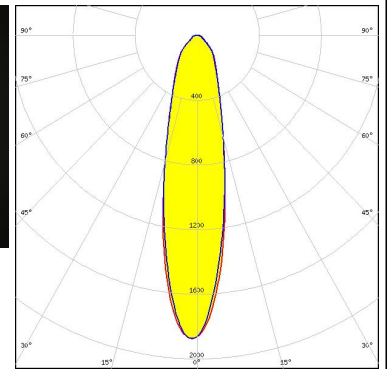


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

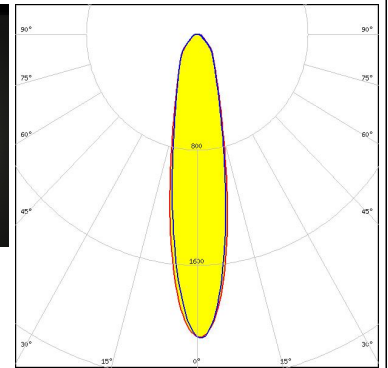
#### PHOTOMETRIC DATA (MEASURED):



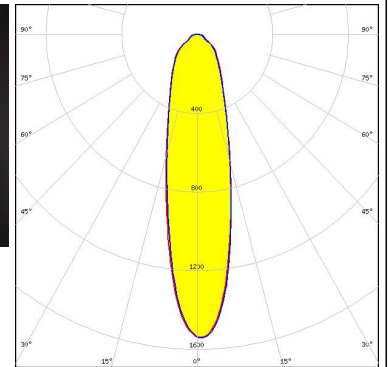
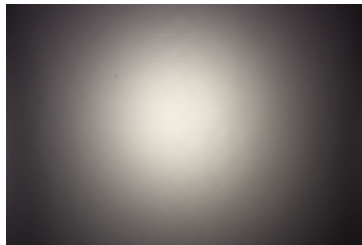
LED HiQLED STR28 CR JE2835 4x7 xxx  
 FWHM / FWTM 24.0° / 75.0°  
 Efficiency 91 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



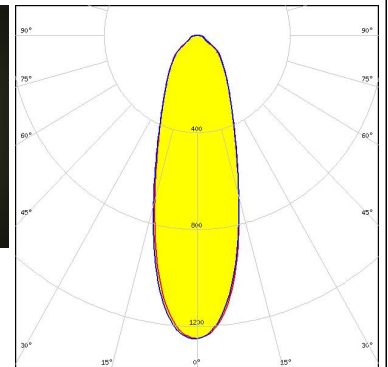
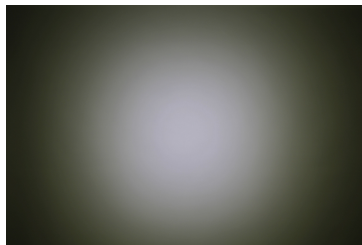
LED HiQLED STR28 CR JÐ53030 4x7 xxx  
 FWHM / FWTM 22.0° / 69.0°  
 Efficiency 90 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED QUICK FLUX STR28 XD2x14 xxx G8  
 FWHM / FWTM 26.0° / 88.0°  
 Efficiency 91 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



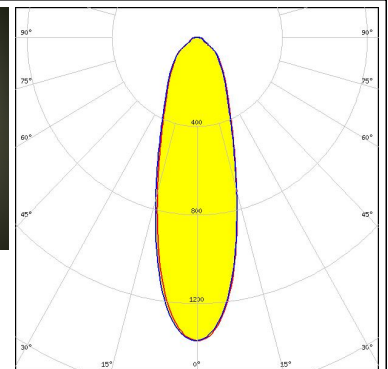
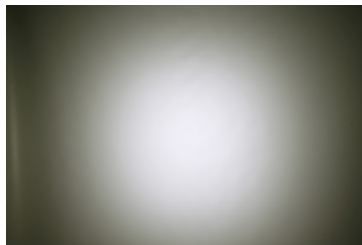
LED QUICK FLUX STR28 XP2x14 xxx G7  
 FWHM / FWTM 33.0° / 99.0°  
 Efficiency 92 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



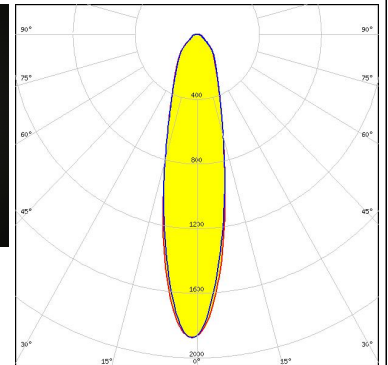
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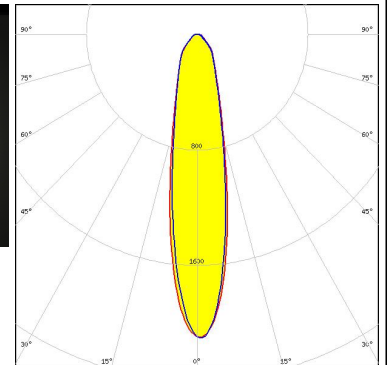
LED QUICK FLUX STR28 XT2x14 xxx G5  
 FWHM / FWTM 32.0° / 95.0°  
 Efficiency 93 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



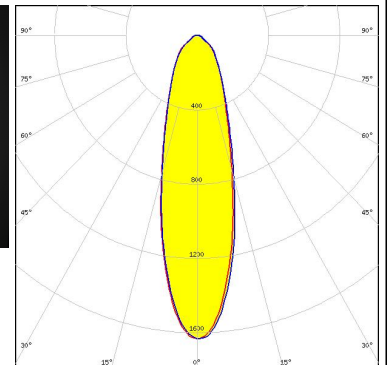
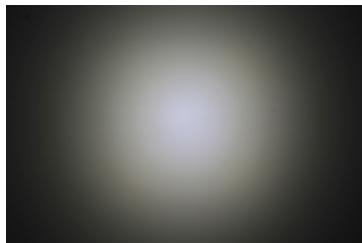
LED J Series 2835  
 FWHM / FWTM 24.0° / 75.0°  
 Efficiency 91 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED J Series 3030  
 FWHM / FWTM 22.0° / 69.0°  
 Efficiency 90 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED J Series 3030  
 FWHM / FWTM 28.0° / 83.0°  
 Efficiency 93 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

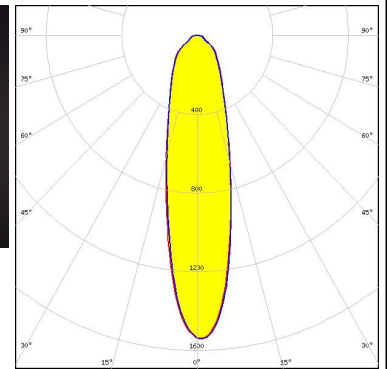
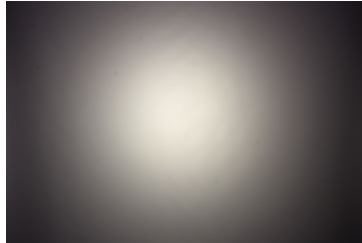




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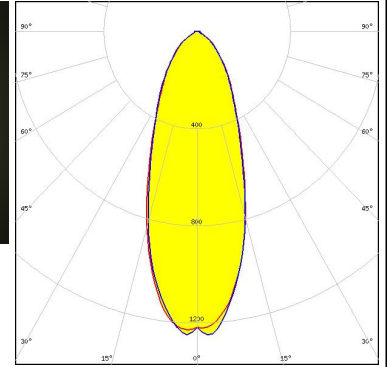
##### CREE LED

LED XD16  
FWHM / FWTM 26.0° / 88.0°  
Efficiency 91 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



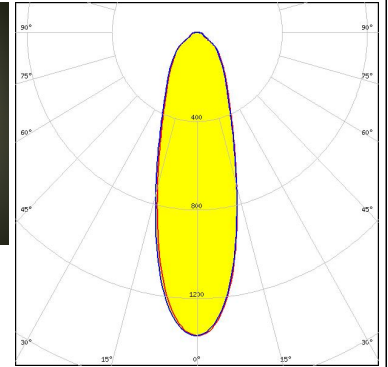
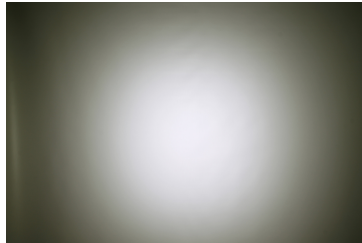
##### CREE LED

LED XP-G3  
FWHM / FWTM 33.0° / 99.0°  
Efficiency 92 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



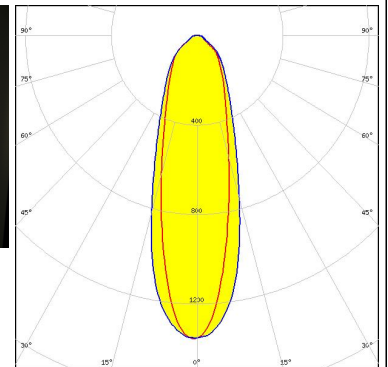
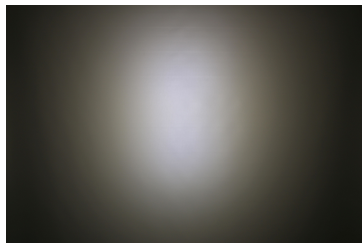
##### CREE LED

LED XT-E  
FWHM / FWTM 32.0° / 95.0°  
Efficiency 93 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### NICHIA

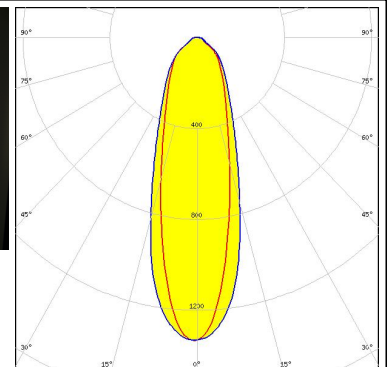
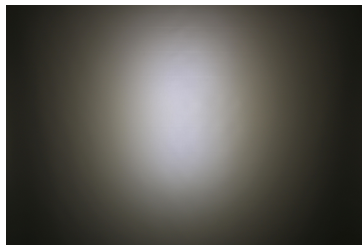
LED NF2W585AR  
FWHM / FWTM 31.0° / 96.0°  
Efficiency 91 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



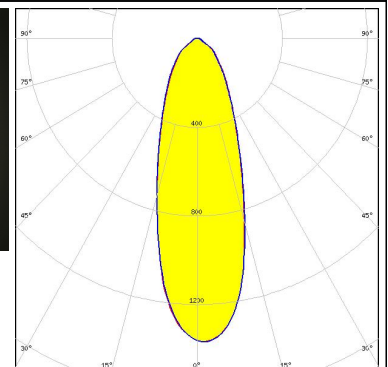
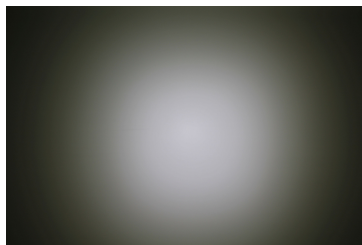
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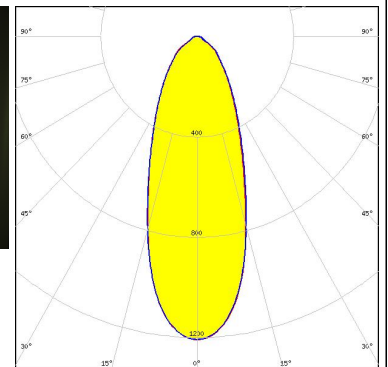
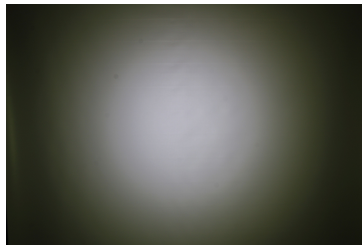
LED NF2W585AR  
 FWHM / FWTM 31.0° / 97.0°  
 Efficiency 91 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



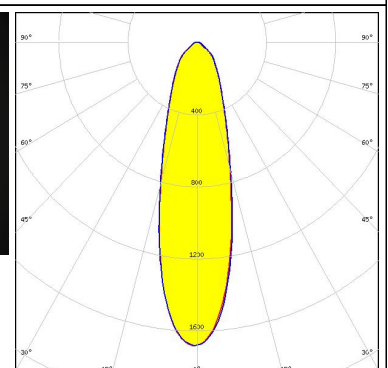
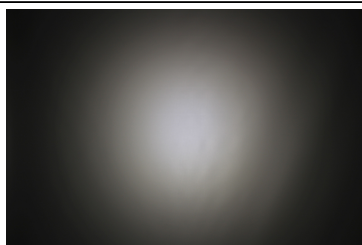
LED NVSW219F  
 FWHM / FWTM 34.0° / 90.0°  
 Efficiency 94 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NVSW319B  
 FWHM / FWTM 39.0° / 97.0°  
 Efficiency 94 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSCONIQ S 3030  
 FWHM / FWTM 28.0° / 81.0°  
 Efficiency 93 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

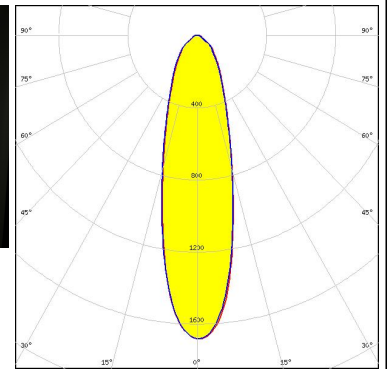
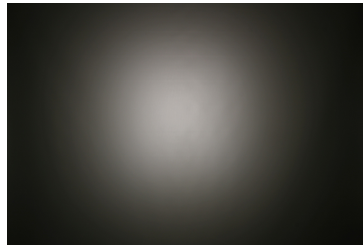


#### PHOTOMETRIC DATA (MEASURED):

##### OSRAM

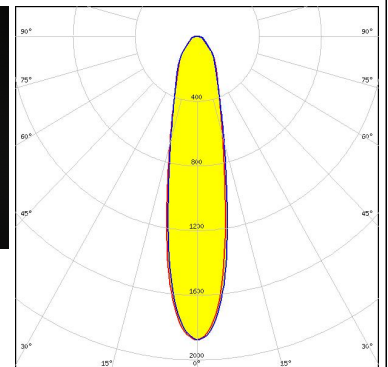
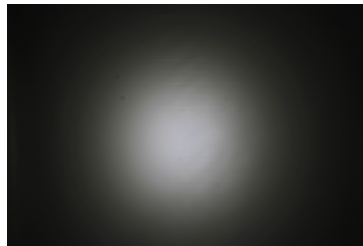
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM 28.0° / 80.0°  
Efficiency 93 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



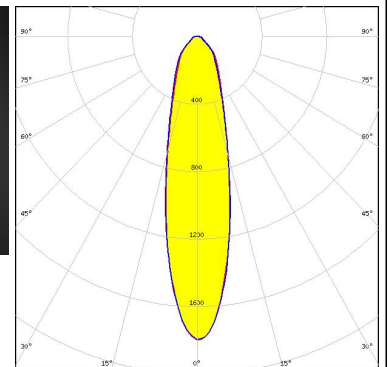
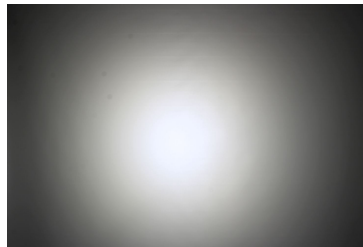
##### SAMSUNG

LED HiLOM SC28 (LH181B)  
FWHM / FWTM 23.0° / 74.0°  
Efficiency 89 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



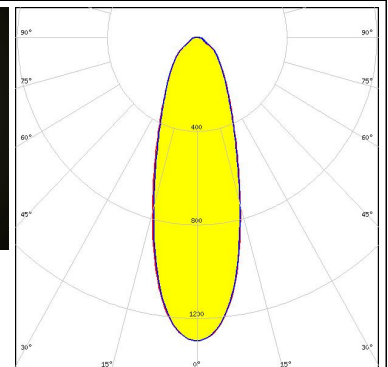
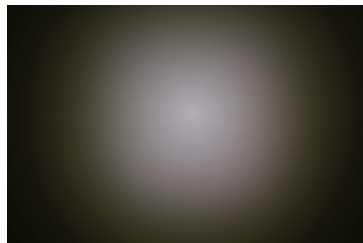
##### SAMSUNG

LED HiLOM SM28 (LM301B)  
FWHM / FWTM 25.0° / 78.0°  
Efficiency 91 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



SEOUL SEMICONDUCTOR

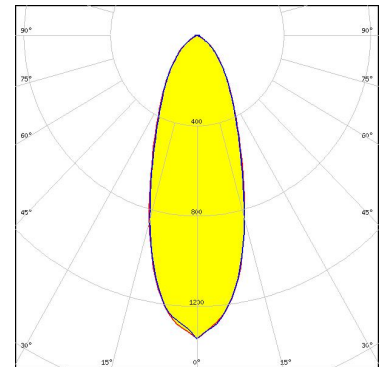
LED Z5M3  
FWHM / FWTM 34.0° / 94.0°  
Efficiency 93 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



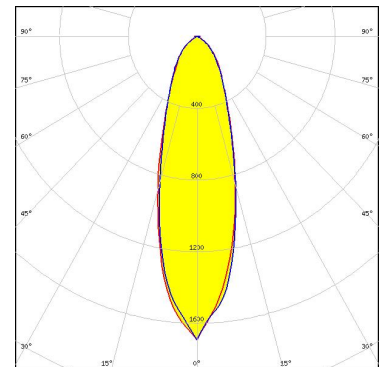
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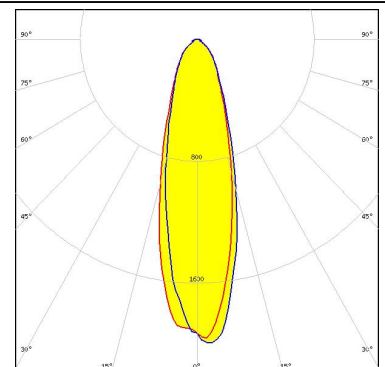
LED XP-G2 HE  
FWHM / FWTM 37.0° / 90.0°  
Efficiency 92 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



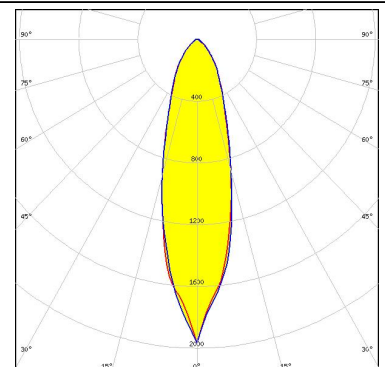
LED XP-L HI  
FWHM / FWTM 30.0° / 82.0°  
Efficiency 90 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON 3030 2D (Round LES)  
FWHM / FWTM 27.0° / 74.0°  
Efficiency 92 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



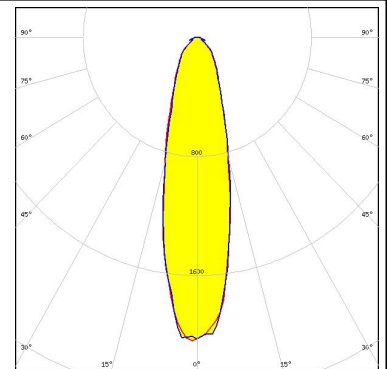
LED NF2x757G  
FWHM / FWTM 28.0° / 76.0°  
Efficiency 93 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



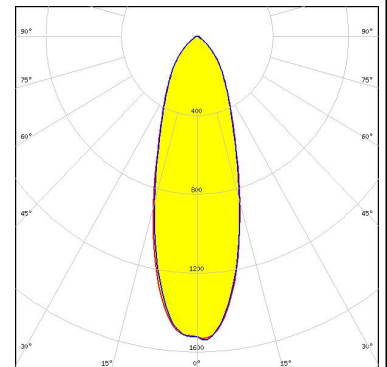
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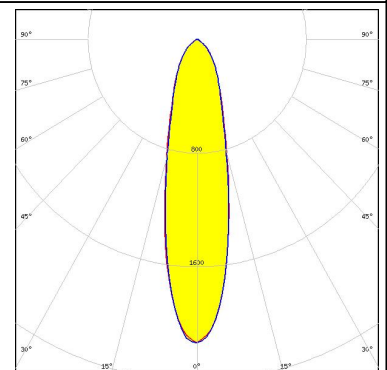
LED NVSxE21A  
FWHM / FWTM 25.0° / 73.0°  
Efficiency 92 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



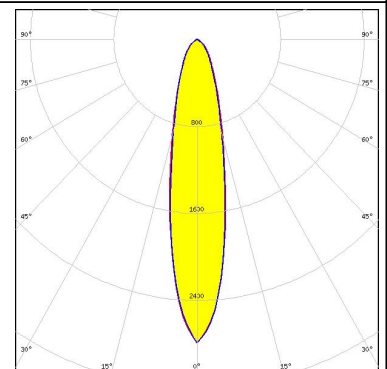
LED NVSxx19B/NVSxx19C  
FWHM / FWTM 34.0° / 86.0°  
Efficiency 93 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED OSCONIQ C 2424  
FWHM / FWTM 25.0° / 73.0°  
Efficiency 93 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



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



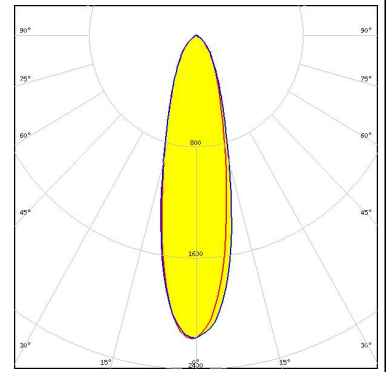


#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

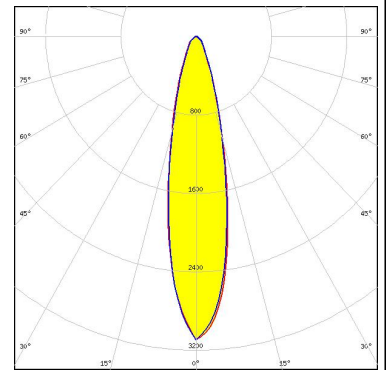
LED OSCONIQ P 3737 (2W version)  
FWHM / FWTM 27.0° / 69.0°  
Efficiency 93 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM

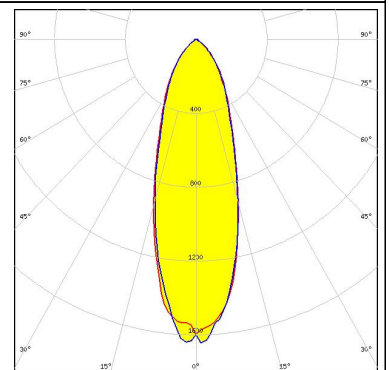
Opto Semiconductors

LED OSLOM SSL 80  
FWHM / FWTM 23.0° / 51.0°  
Efficiency 93 %  
Peak intensity 3.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



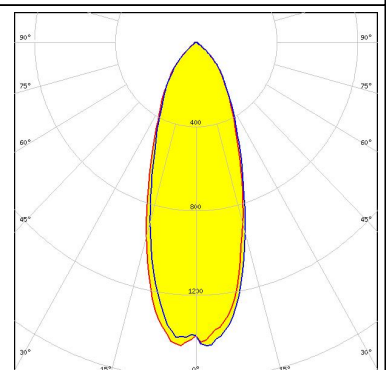
##### SAMSUNG

LED LH351B  
FWHM / FWTM 33.0° / 82.0°  
Efficiency 94 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### SAMSUNG

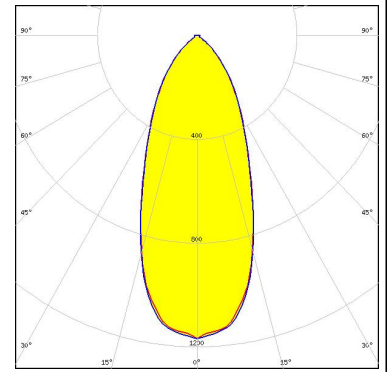
LED LH351C  
FWHM / FWTM 37.0° / 87.0°  
Efficiency 94 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (SIMULATED):

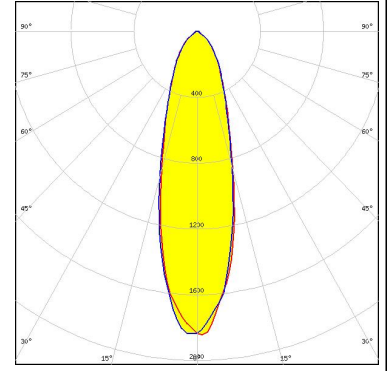
#### SAMSUNG


LED LH351D  
FWHM / FWTM 44.0° / 92.0°  
Efficiency 91 %  
Peak intensity 1.2 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:

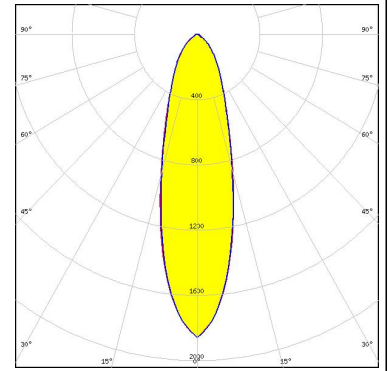



#### SAMSUNG

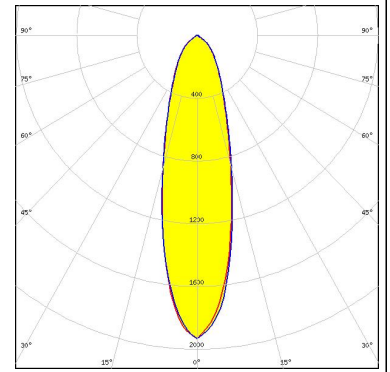
LED LM301B  
FWHM / FWTM 29.0° / 78.0°  
Efficiency 93 %  
Peak intensity 1.9 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



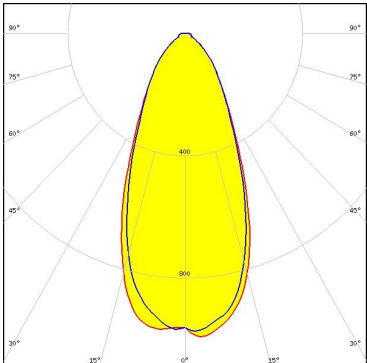
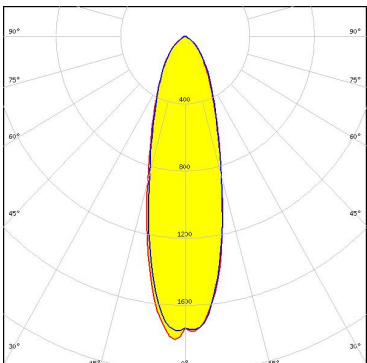
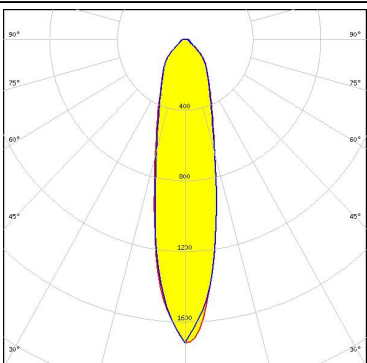
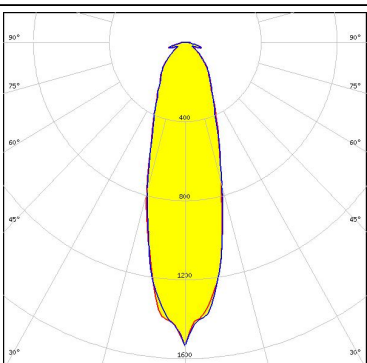
 SEOUL SEMICONDUCTOR  
LED SEOUL 3030  
FWHM / FWTM 28.0° / 78.0°  
Efficiency 93 %  
Peak intensity 1.9 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



 SEOUL SEMICONDUCTOR  
LED SEOUL DC 3030C  
FWHM / FWTM 28.0° / 77.0°  
Efficiency 93 %  
Peak intensity 1.9 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: SEOUL DC 5050 6V</p> <p>FWHM / FWTM: 46.0° / 98.0°</p> <p>Efficiency: 89 %</p> <p>Peak intensity: 1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: Z5M1/Z5M2</p> <p>FWHM / FWTM: 30.0° / 79.0°</p> <p>Efficiency: 94 %</p> <p>Peak intensity: 1.8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: Z8Y19</p> <p>FWHM / FWTM: 24.0° / 84.0°</p> <p>Efficiency: 89 %</p> <p>Peak intensity: 1.7 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: Z8Y22</p> <p>FWHM / FWTM: 29.0° / 88.0°</p> <p>Efficiency: 92 %</p> <p>Peak intensity: 1.5 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

#### PHOTOMETRIC DATA (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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