

## STRADELLA-IP-28-HB-S-PC

~30° spot beam. Variant made from PC.

### TECHNICAL SPECIFICATIONS:

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

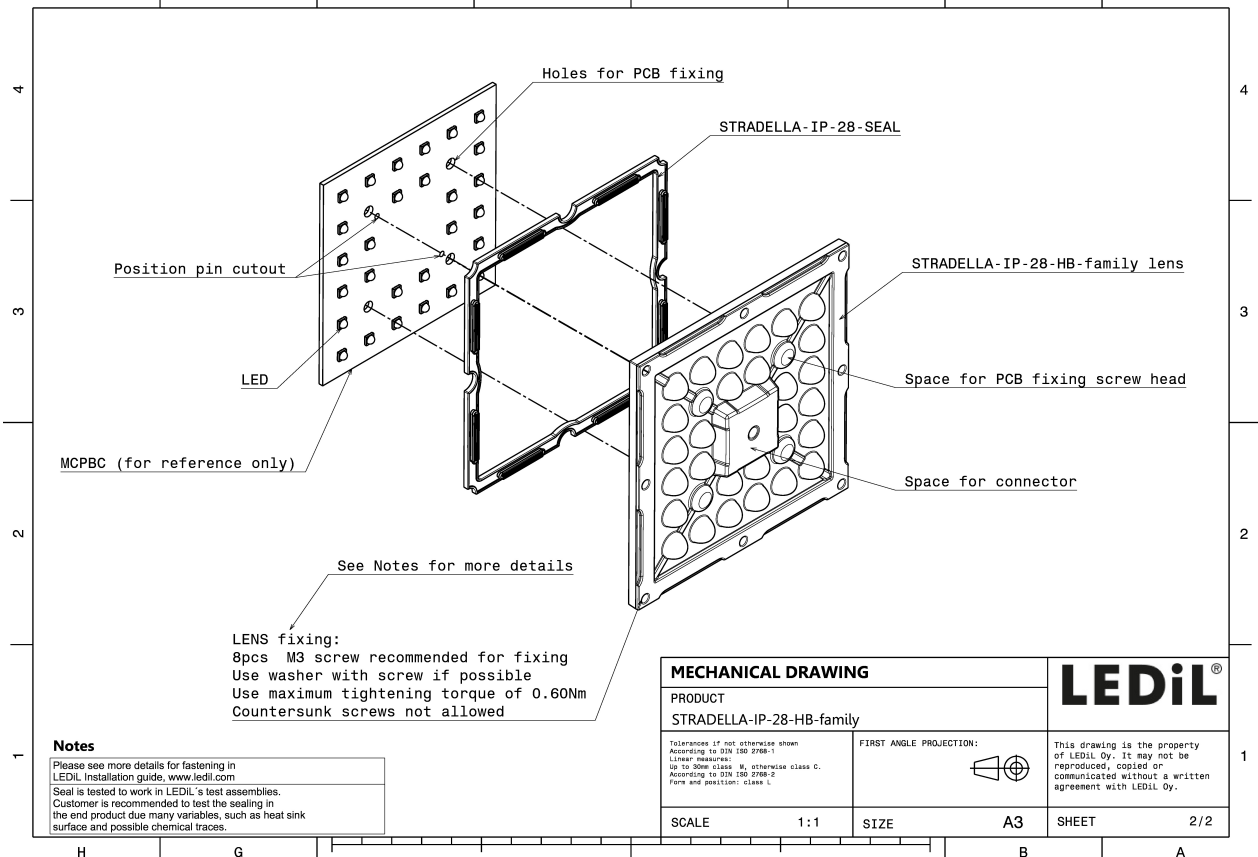
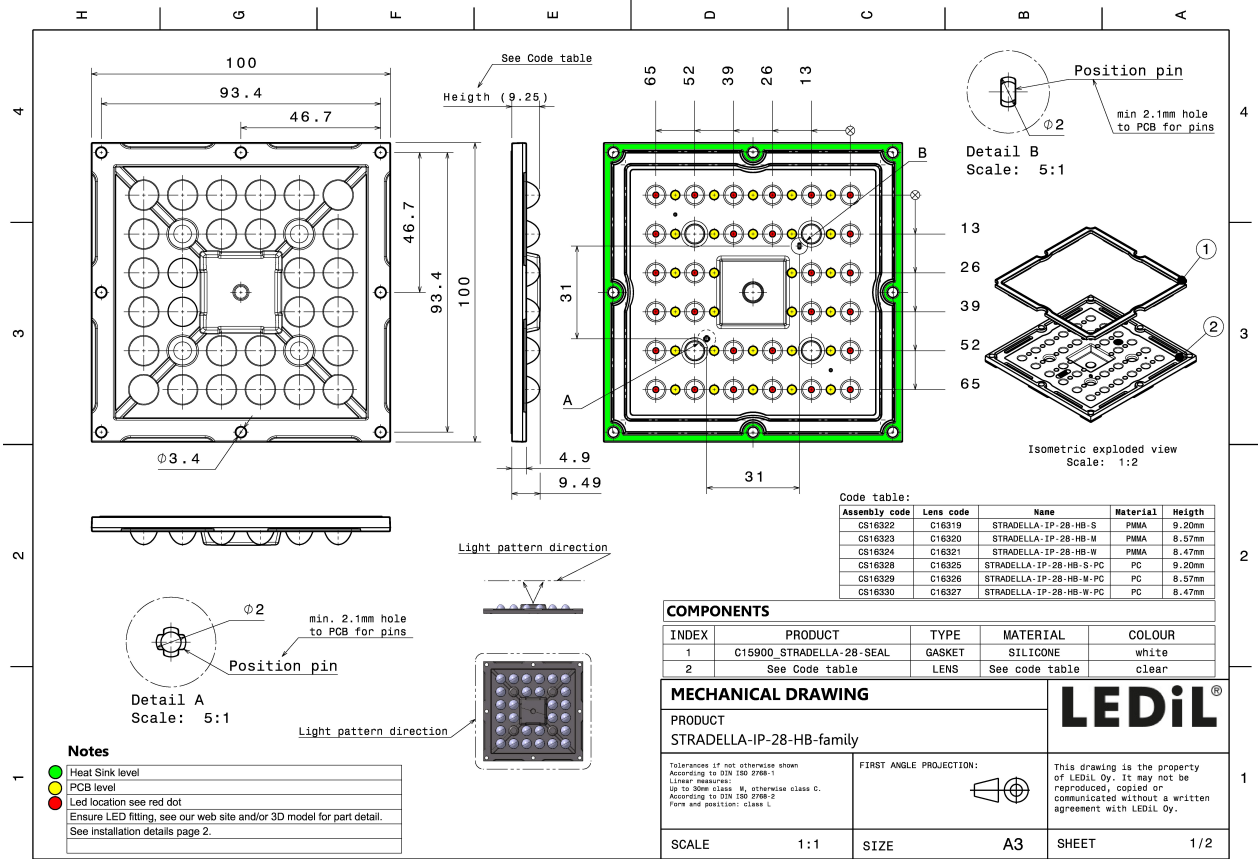
### MATERIAL SPECIFICATIONS:

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





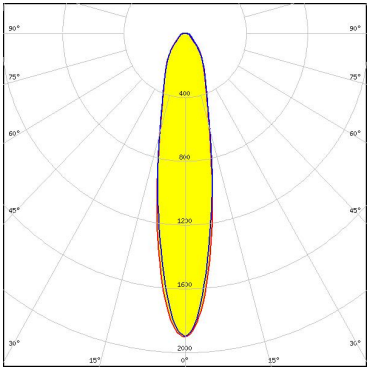


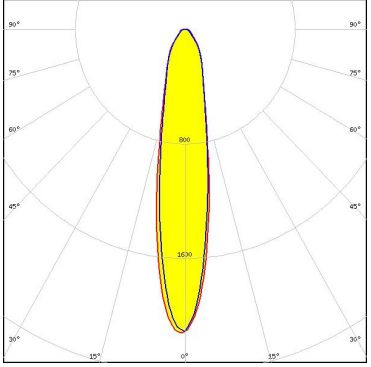

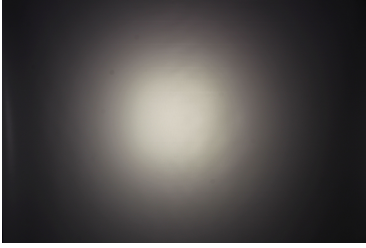
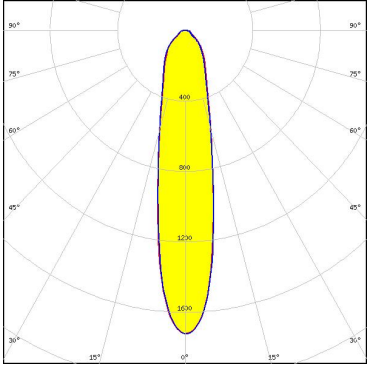

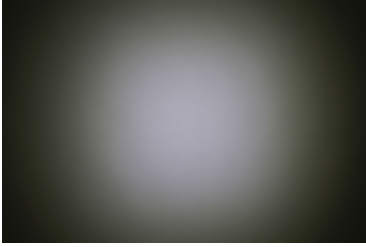
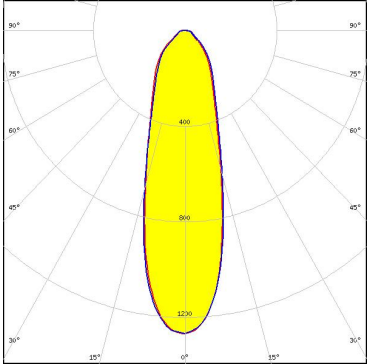
### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CS16328_STRADELLA-IP-28-HB-S-PC » Box size: 476 x 273 x 247 mm	Multi-lens	156	78	78	6.0


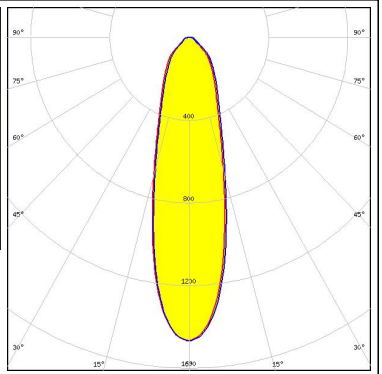

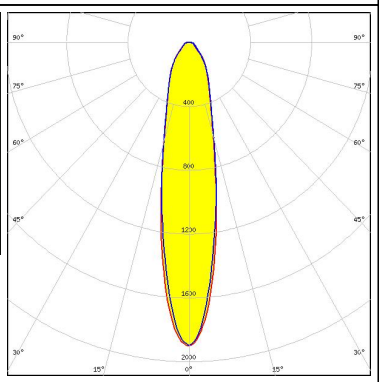

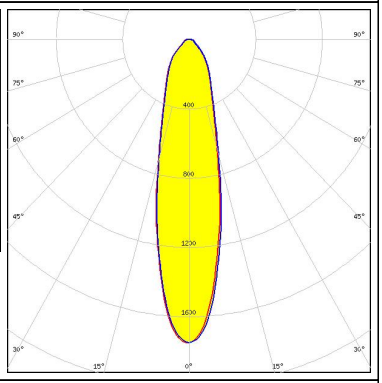

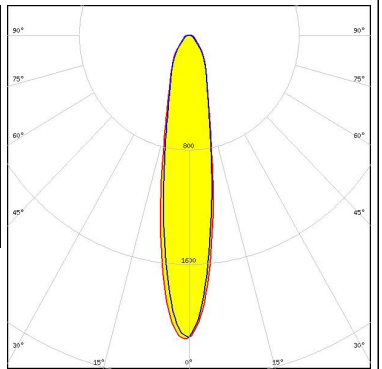


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

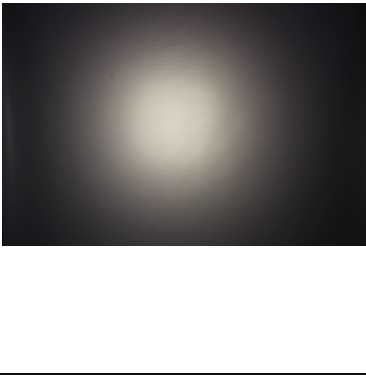
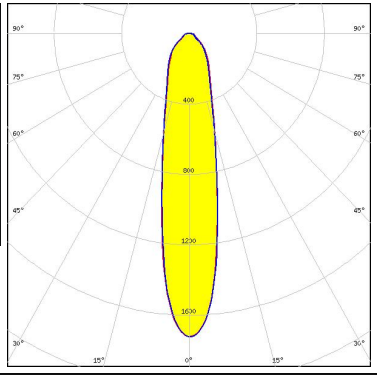

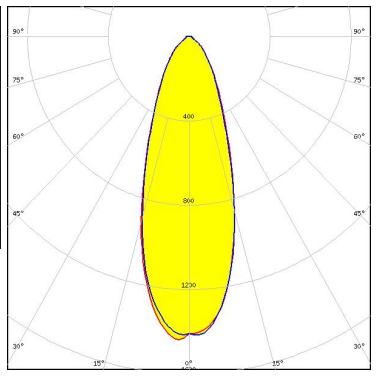

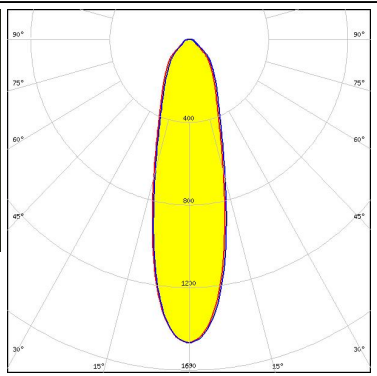

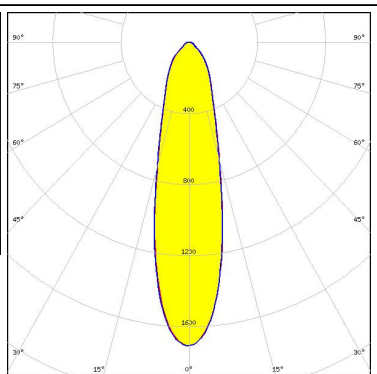
#### PHOTOMETRIC DATA (MEASURED):

	<p>LED HiQLED STR28 CR JE2835 4x7 xxx</p> <p>FWHM / FWTM 22.0° / 71.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
	<p>LED HiQLED STR28 CR JĐš3030 4x7 xxx</p> <p>FWHM / FWTM 20.0° / 65.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 2.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
	<p>LED QUICK FLUX STR28 XD2x14 xxx G8</p> <p>FWHM / FWTM 22.0° / 78.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
	<p>LED QUICK FLUX STR28 XP2x14 xxx G7</p> <p>FWHM / FWTM 30.0° / 82.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p><b>COMET ELECTRONICS</b></p> <p>LED QUICK FLUX STR28 XT2x14 xxx G5            FWHM / FWTM 29.0° / 87.0°            Efficiency 86 %            Peak intensity 1.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE LED</b></p> <p>LED J Series 2835            FWHM / FWTM 22.0° / 71.0°            Efficiency 83 %            Peak intensity 1.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE LED</b></p> <p>LED J Series 3030            FWHM / FWTM 25.0° / 77.0°            Efficiency 86 %            Peak intensity 1.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE LED</b></p> <p>LED J Series 3030            FWHM / FWTM 20.0° / 65.0°            Efficiency 82 %            Peak intensity 2.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

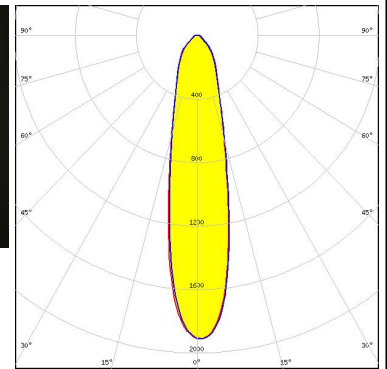
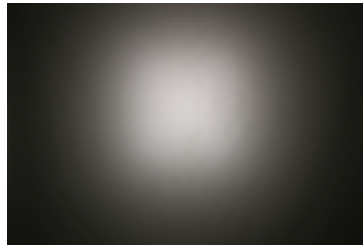
<p><b>CREE</b> → LED</p> <p>LED: XD16            FWHM / FWTM: 22.0° / 78.0°            Efficiency: 83 %            Peak intensity: 1.7 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p><b>CREE</b> → LED</p> <p>LED: XP-G3            FWHM / FWTM: 30.0° / 93.0°            Efficiency: 84 %            Peak intensity: 1.3 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p><b>CREE</b> → LED</p> <p>LED: XT-E            FWHM / FWTM: 29.0° / 87.0°            Efficiency: 86 %            Peak intensity: 1.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED: OSCONIQ S 3030            FWHM / FWTM: 26.0° / 78.0°            Efficiency: 86 %            Peak intensity: 1.7 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

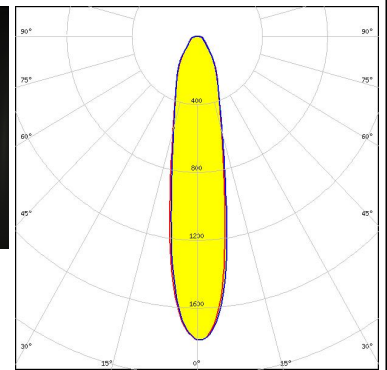
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 23.0° / 72.0°  
 Efficiency 85 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



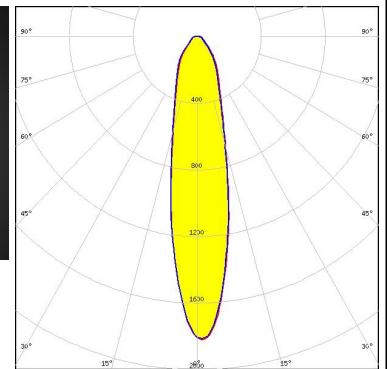
#### SAMSUNG

LED HiLOM SC28 (LH181B)  
 FWHM / FWTM 21.0° / 70.0°  
 Efficiency 80 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

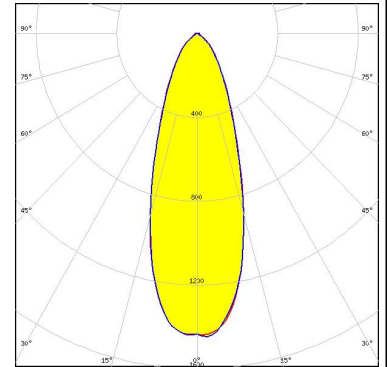
LED HiLOM SM28 (LM301B)  
 FWHM / FWTM 23.0° / 73.0°  
 Efficiency 83 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



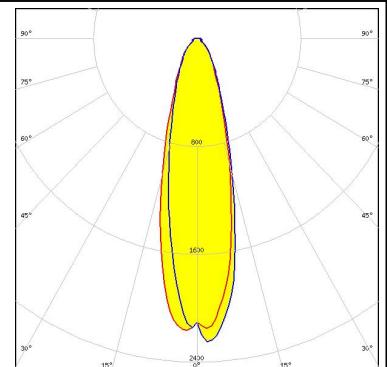
#### PHOTOMETRIC DATA (SIMULATED):



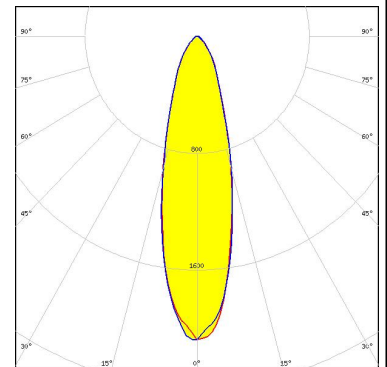
LED XP-G2 HE  
 FWHM / FWTM 36.0° / 80.0°  
 Efficiency 85 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



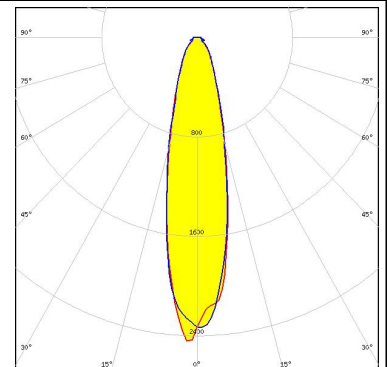
LED LUXEON 3030 2D (Round LES)  
 FWHM / FWTM 25.0° / 65.0°  
 Efficiency 89 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



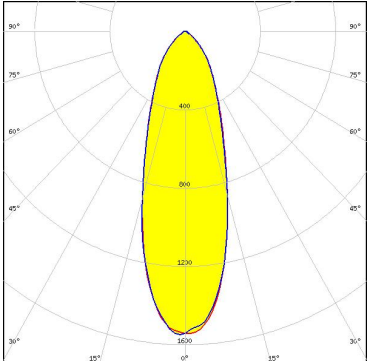
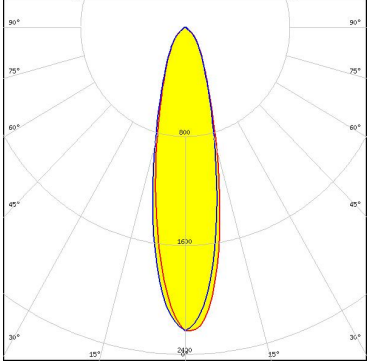
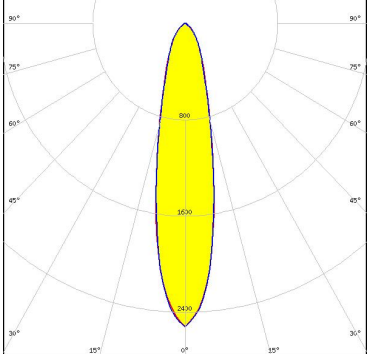
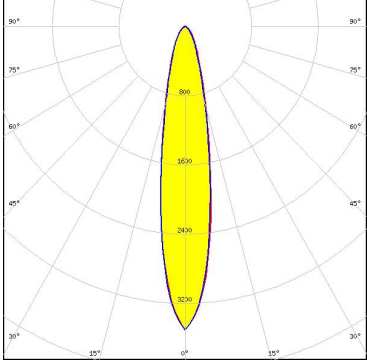
LED NF2x757G  
 FWHM / FWTM 27.0° / 68.0°  
 Efficiency 91 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NVSxE21A  
 FWHM / FWTM 23.0° / 62.0°  
 Efficiency 89 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 34.0° / 84.0°            Efficiency 93 %            Peak intensity 1.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Duris S5 (2 chip)            FWHM / FWTM 25.0° / 65.0°            Efficiency 87 %            Peak intensity 2.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ C 2424            FWHM / FWTM 22.0° / 60.0°            Efficiency 87 %            Peak intensity 2.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ P 3030            FWHM / FWTM 20.0° / 51.0°            Efficiency 92 %            Peak intensity 3.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

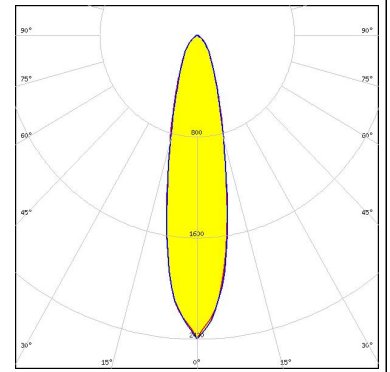


#### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM

Opto Semiconductors

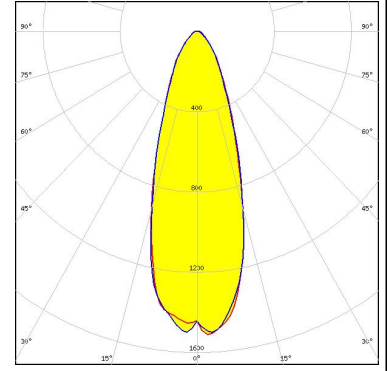
LED OSCONIQ P 3737 (2W version)  
 FWHM / FWTM 24.0° / 60.0°  
 Efficiency 87 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

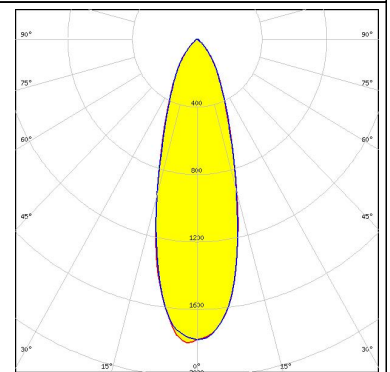
Opto Semiconductors

LED OSCONIQ P 3737 (3W version)  
 FWHM / FWTM 34.0° / 78.0°  
 Efficiency 90 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



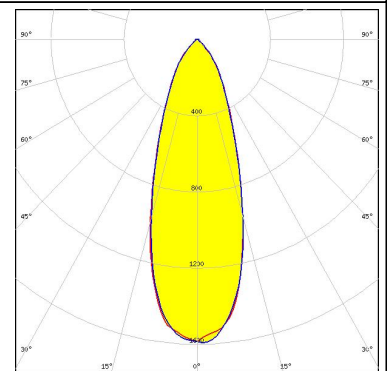
#### SAMSUNG

LED LH351B  
 FWHM / FWTM 32.0° / 73.0°  
 Efficiency 86 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

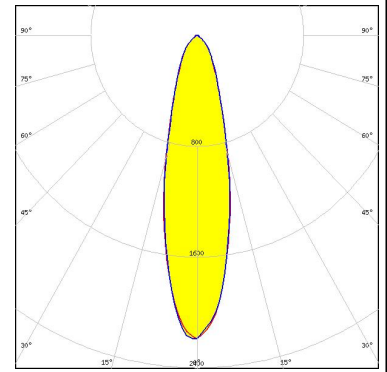
LED LH351C  
 FWHM / FWTM 35.0° / 78.0°  
 Efficiency 87 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



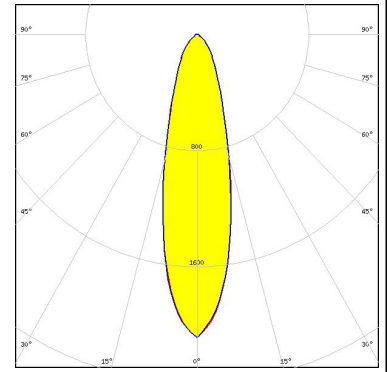
#### PHOTOMETRIC DATA (SIMULATED):

#### SAMSUNG

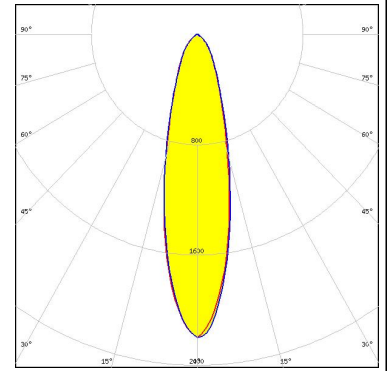
LED LM301Z Plus  
 FWHM / FWTM 26.0° / 64.0°  
 Efficiency 86 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



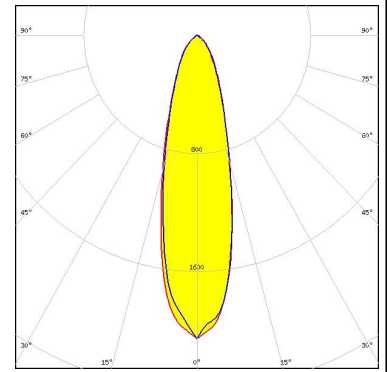
**SEOUL SEMICONDUCTOR**  
 LED SEOUL 3030  
 FWHM / FWTM 26.0° / 68.0°  
 Efficiency 87 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



**SEOUL SEMICONDUCTOR**  
 LED SEOUL DC 3030C  
 FWHM / FWTM 26.0° / 66.0°  
 Efficiency 88 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



**SEOUL SEMICONDUCTOR**  
 LED Z5M1/Z5M2  
 FWHM / FWTM 27.0° / 67.0°  
 Efficiency 87 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

<p> SEOL SEMICONDUCTOR</p> <p>LED Z8Y19</p> <p>FWHM / FWTM 24.0° / 71.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p> SEOL SEMICONDUCTOR</p> <p>LED Z8Y22</p> <p>FWHM / FWTM 28.0° / 78.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.6 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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#### LEDiL Oy

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P.R.CHINA

#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

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Hong Kong, China

#### Distribution Partners

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