

STRADELLA-IP-28-HB-S

~30° spot beam. Variant made from PMMA.

SPECIFICATION:

Dimensions	100.0 x 100.0 mm
Height	9.5 mm
Fastening	pin, screw
Ingress protection classes	IP66, IP67
ROHS compliant	yes ⓘ

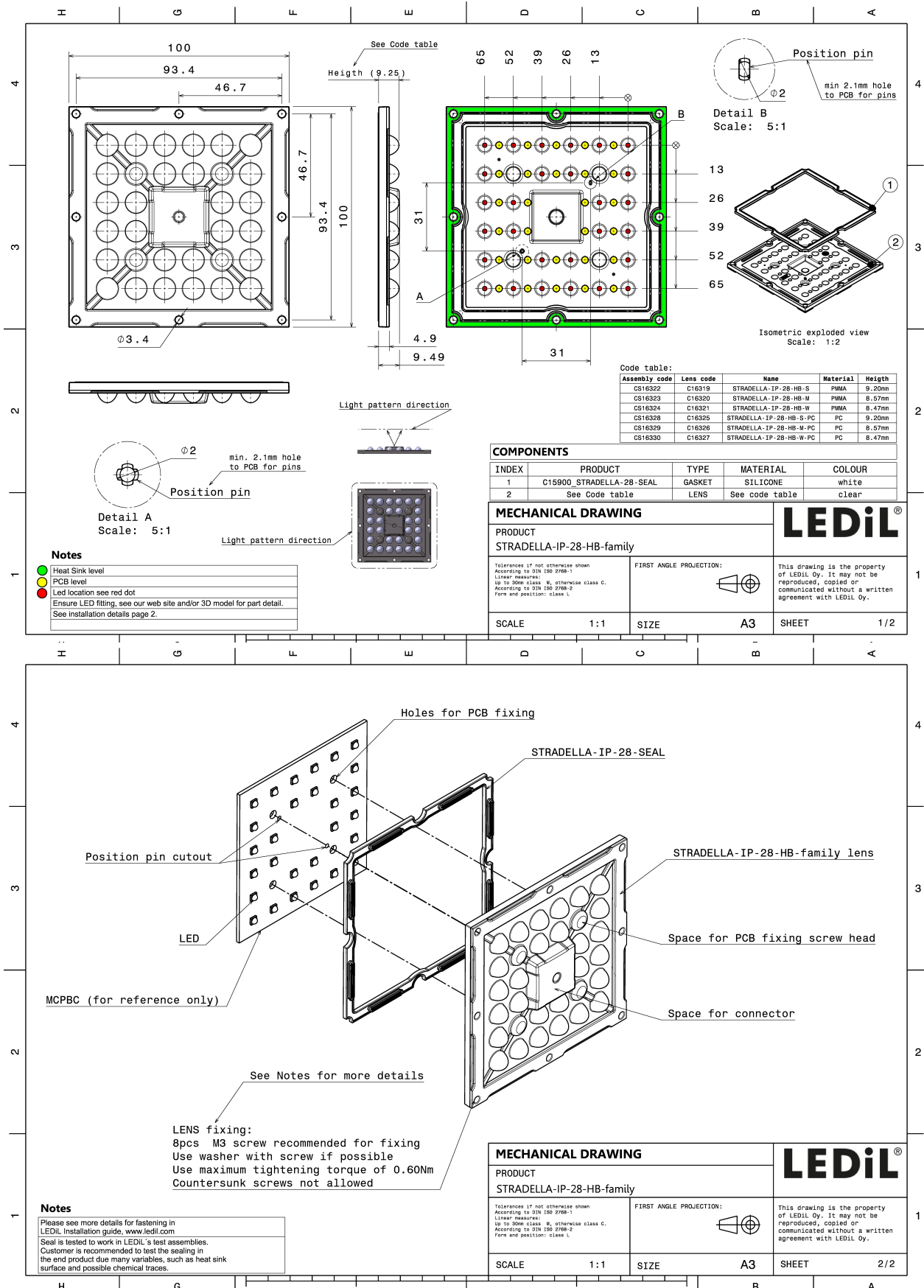
MATERIALS:

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					

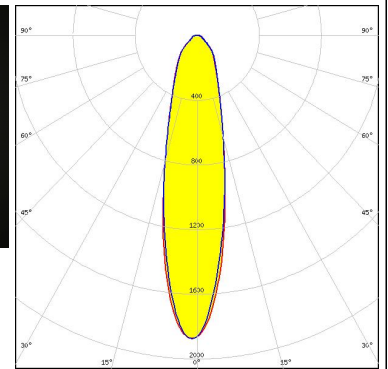


See also our general installation guide: www.ledil.com/installation_guide

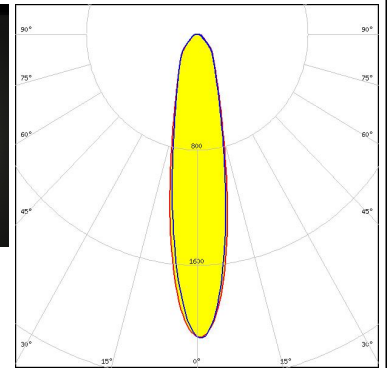
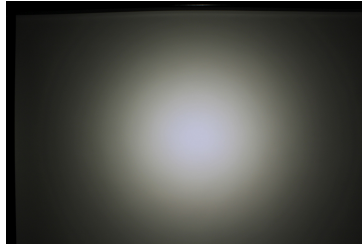
OPTICAL RESULTS (MEASURED):



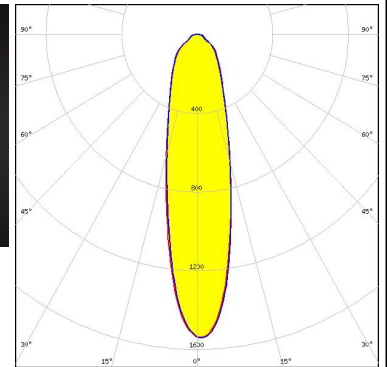
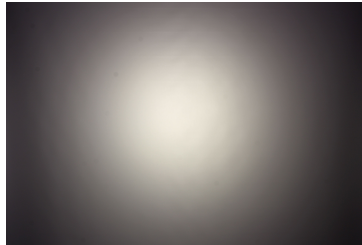
LED HiQLED STR28 CR JE2835 4x7 xxx
 FWHM / FWTM 24.0° / 75.0°
 Efficiency 91 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



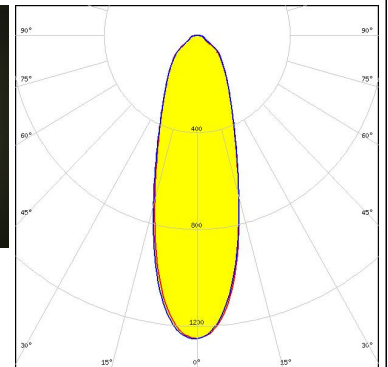
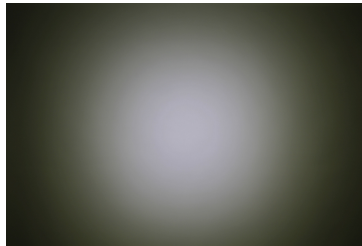
LED HiQLED STR28 CR JK3030 4x7 xxx
 FWHM / FWTM 22.0° / 69.0°
 Efficiency 90 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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:



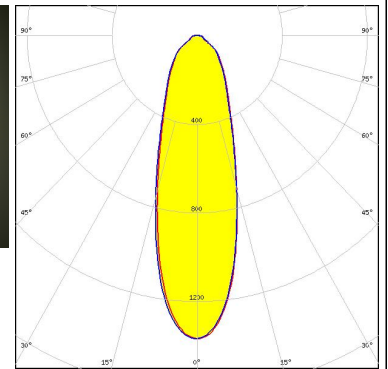
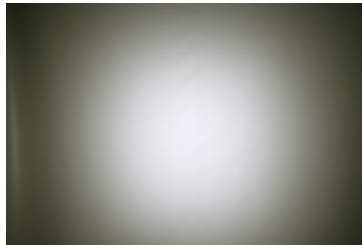
LED QUICK FLUX STR28 XP2x14 xxx G7
 FWHM / FWTM 33.0° / 99.0°
 Efficiency 92 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



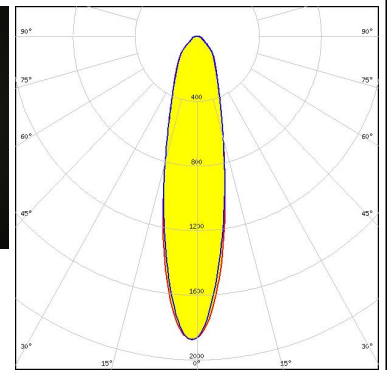
OPTICAL RESULTS (MEASURED):



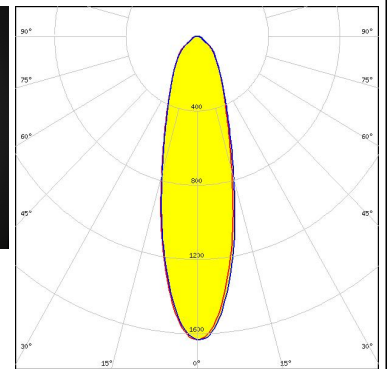
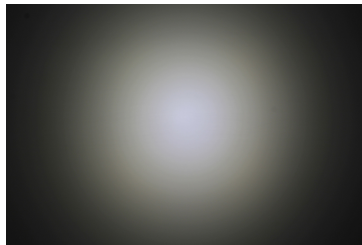
LED QUICK FLUX STR28 XT2x14 xxx G5
 FWHM / FWTM 32.0° / 95.0°
 Efficiency 93 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



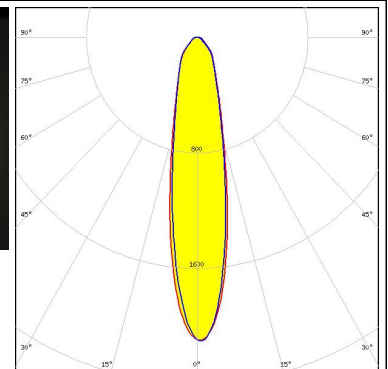
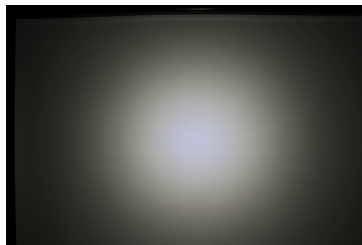
LED J Series 2835
 FWHM / FWTM 24.0° / 75.0°
 Efficiency 91 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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



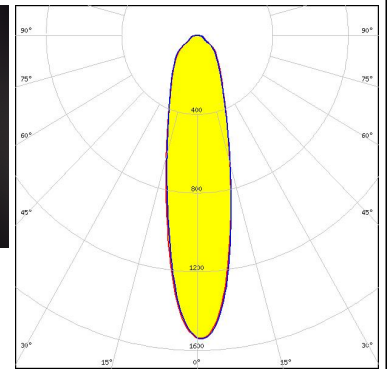
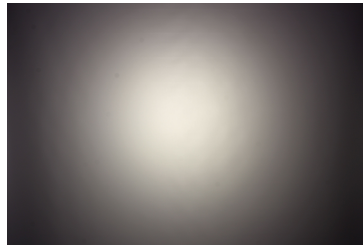
LED J Series 3030
 FWHM / FWTM 22.0° / 69.0°
 Efficiency 90 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



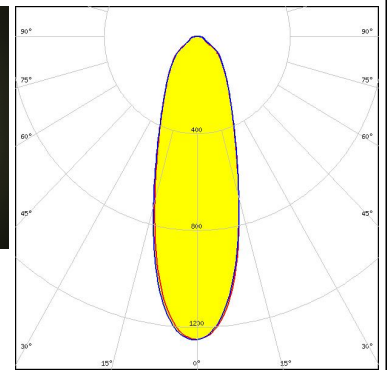
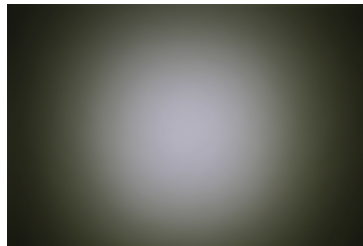
OPTICAL RESULTS (MEASURED):



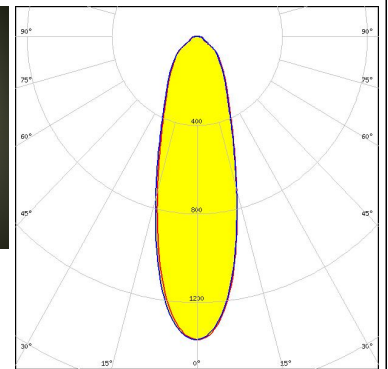
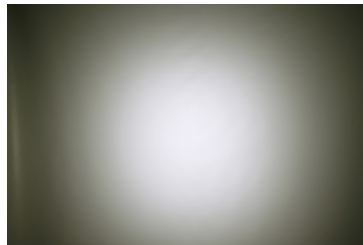
LED XD16
FWHM / FWTM 26.0° / 88.0°
Efficiency 91 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



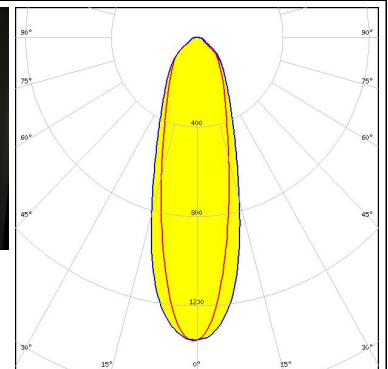
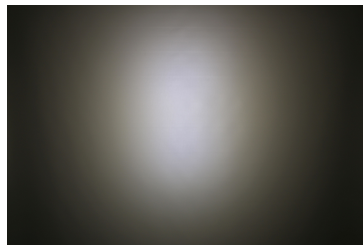
LED XP-G3
FWHM / FWTM 33.0° / 99.0°
Efficiency 92 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:



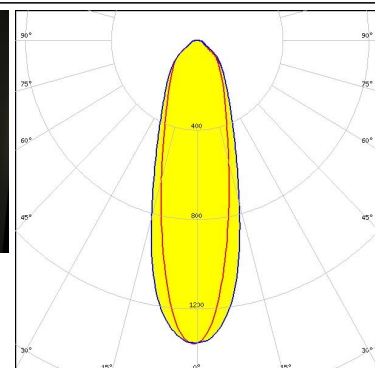
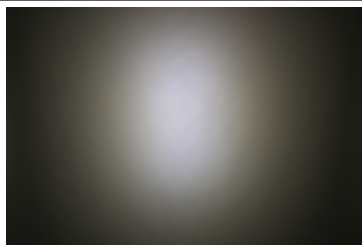
LED NF2W585AR
FWHM / FWTM 31.0° / 96.0°
Efficiency 91 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



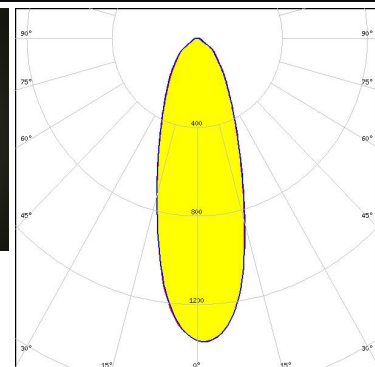
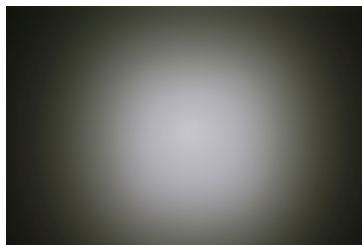
OPTICAL RESULTS (MEASURED):



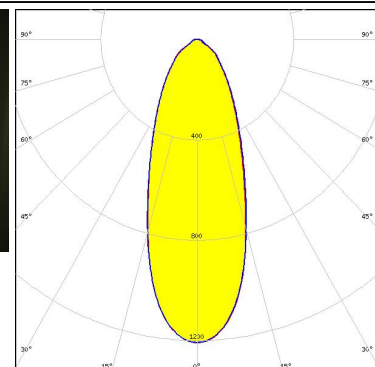
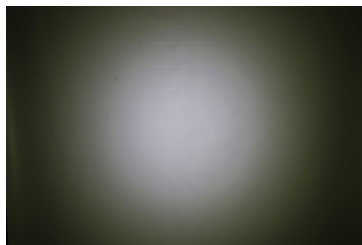
LED NF2W585AR
 FWHM / FWTM 31.0° / 97.0°
 Efficiency 91 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



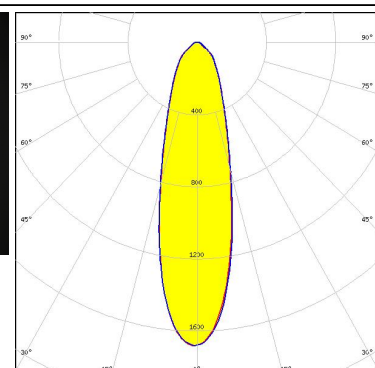
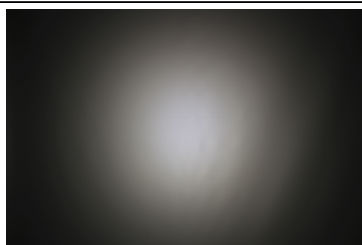
LED NVSW219F
 FWHM / FWTM 34.0° / 90.0°
 Efficiency 94 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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 (QSLR31)
 FWHM / FWTM 28.0° / 81.0°
 Efficiency 93 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

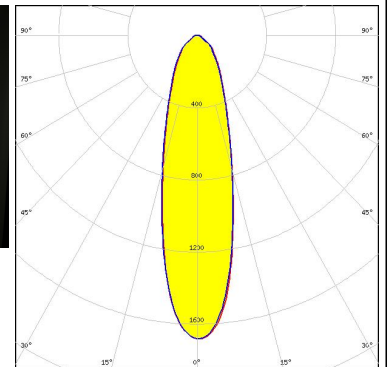
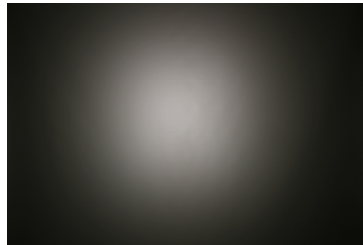


OPTICAL RESULTS (MEASURED):

OSRAM

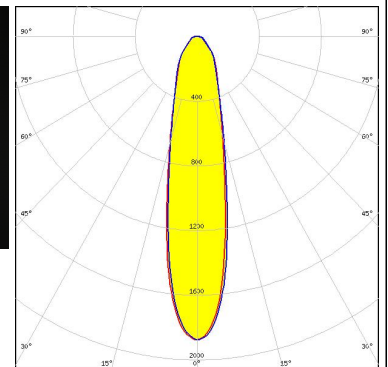
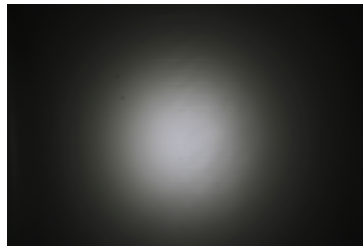
Opto Semiconductors

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:



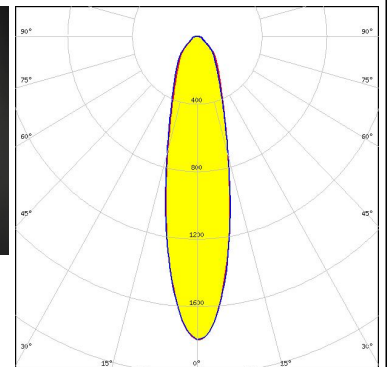
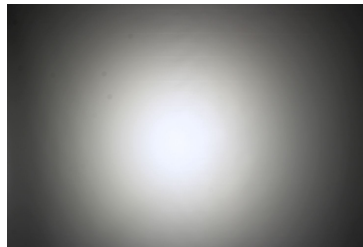
SAMSUNG

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:



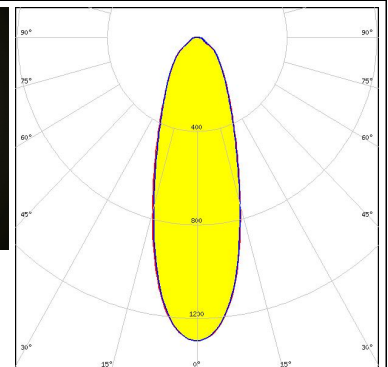
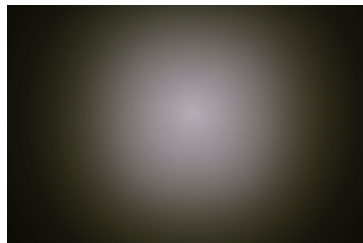
SAMSUNG

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

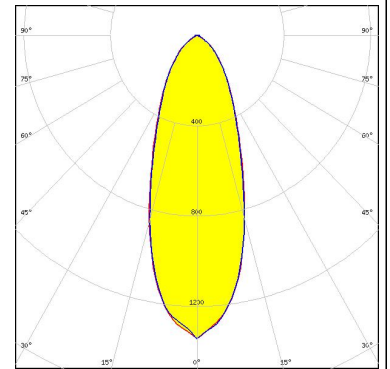
LED Z5M3
FWHM / FWTM 34.0° / 94.0°
Efficiency 93 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



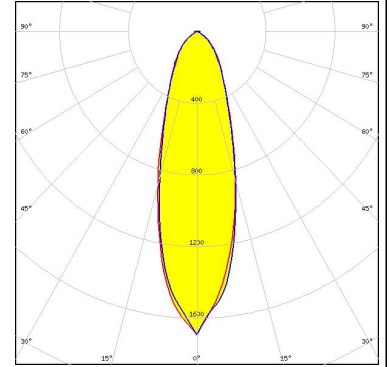
OPTICAL RESULTS (SIMULATED):



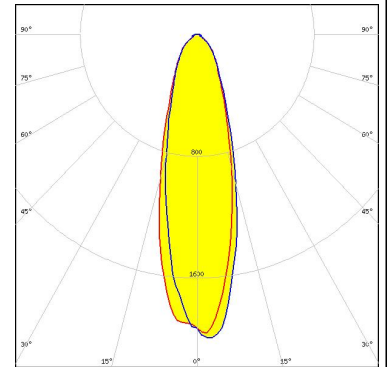
LED XP-G2 HE
FWHM / FWTM 37.0° / 90.0°
Efficiency 92 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



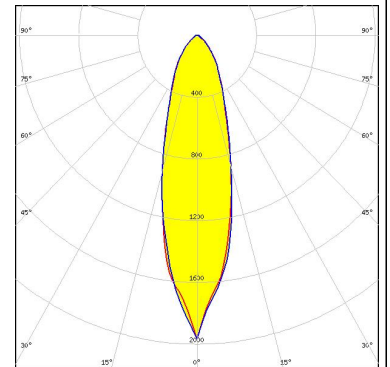
LED XP-L HI
FWHM / FWTM 30.0° / 82.0°
Efficiency 90 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:



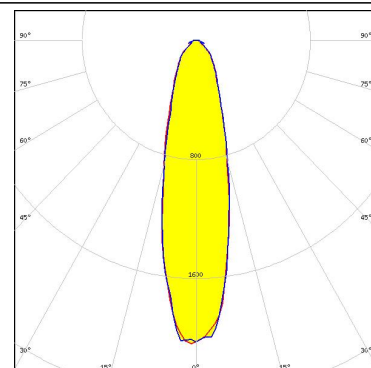
LED NF2x757G
FWHM / FWTM 28.0° / 76.0°
Efficiency 93 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



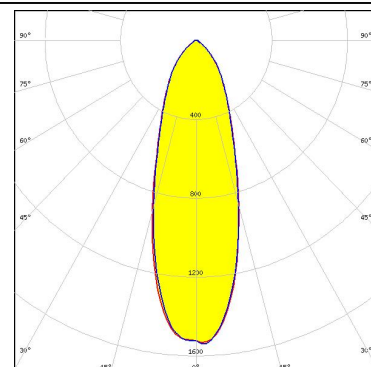
OPTICAL RESULTS (SIMULATED):



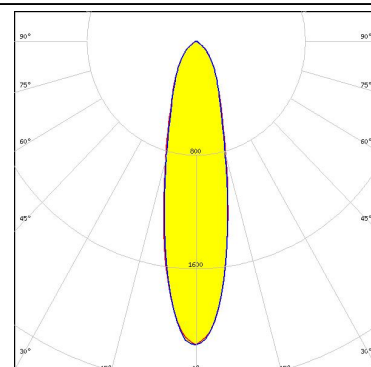
LED NVSxE21A
FWHM / FWTM 25.0° / 73.0°
Efficiency 92 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



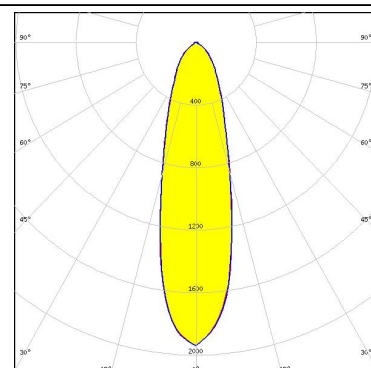
LED NVSxx19B/NVSxx19C
FWHM / FWTM 34.0° / 86.0°
Efficiency 93 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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 C 3030
FWHM / FWTM 28.0° / 76.0°
Efficiency 94 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

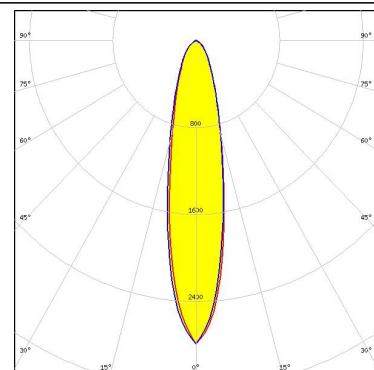


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

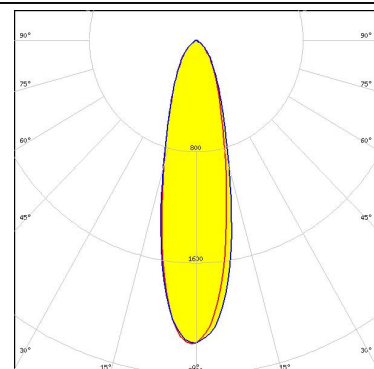
LED OSCONIQ P 3030
FWHM / FWTM 22.0° / 60.0°
Efficiency 94 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

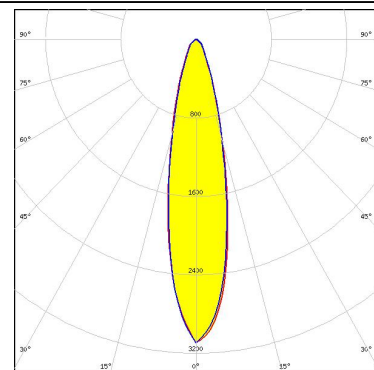
LED OSCONIQ P 3737 (2W version)
FWHM / FWTM 27.0° / 69.0°
Efficiency 93 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

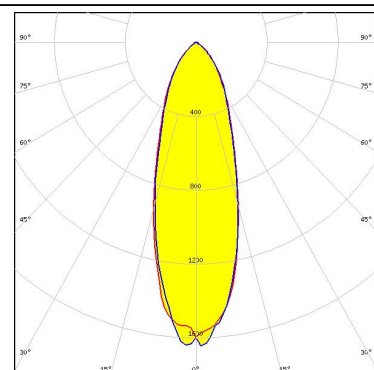
Opto Semiconductors

LED OSLON 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

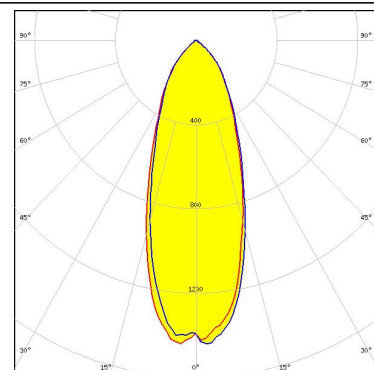
LED LH351B
FWHM / FWTM 33.0° / 82.0°
Efficiency 94 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (SIMULATED):

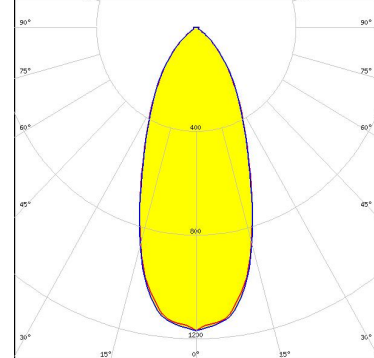
SAMSUNG

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:



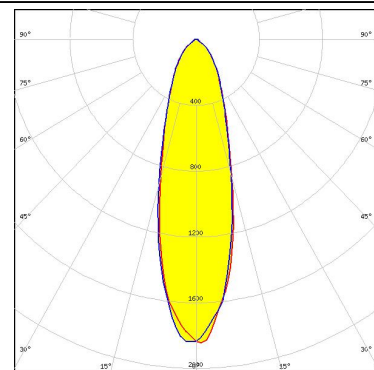
SAMSUNG

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



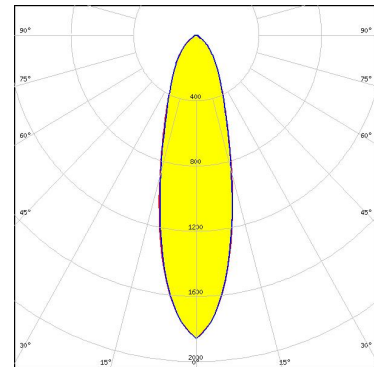
SAMSUNG

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

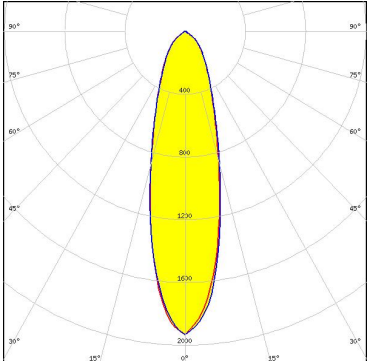
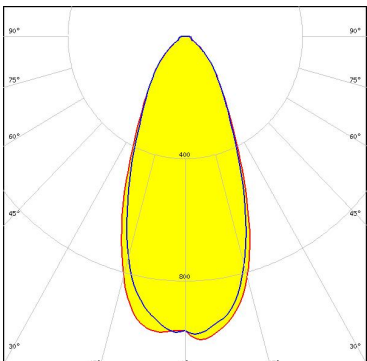
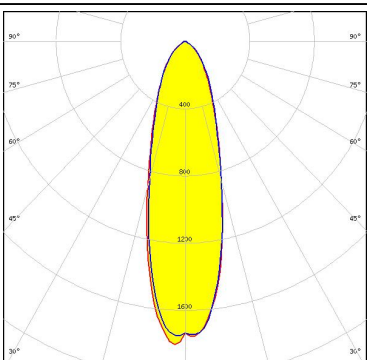
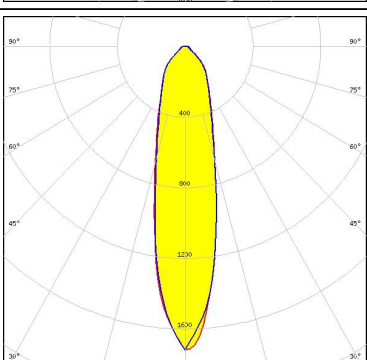


SEOUL SEMICONDUCTOR

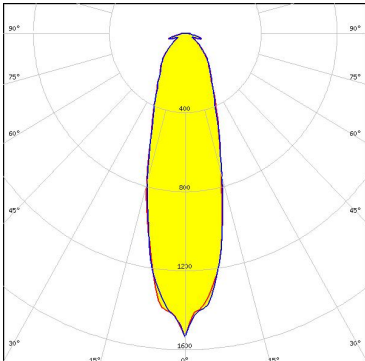
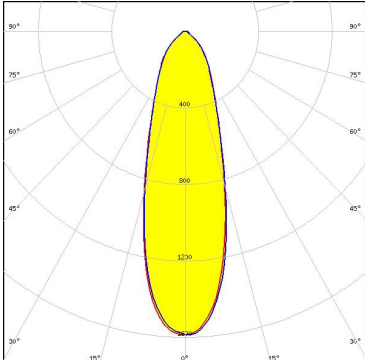
LED SEOUL 3030
FWHM / FWTM 28.0° / 78.0°
Efficiency 93 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR LED: SEOUL DC 3030C FWHM / FWTM: 28.0° / 77.0° Efficiency: 93 % Peak intensity: 1.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:	
SEOUL SEMICONDUCTOR LED: SEOUL DC 5050 6V FWHM / FWTM: 46.0° / 98.0° Efficiency: 89 % Peak intensity: 1 cd/lm LEDs/each optic: 1 Light colour: White Required components:	
SEOUL SEMICONDUCTOR LED: Z5M1/Z5M2 FWHM / FWTM: 30.0° / 79.0° Efficiency: 94 % Peak intensity: 1.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:	
SEOUL SEMICONDUCTOR LED: Z8Y19 FWHM / FWTM: 24.0° / 84.0° Efficiency: 89 % Peak intensity: 1.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:	

OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR LED Z8Y22 FWHM / FWTM 29.0° / 88.0° Efficiency 92 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components:	
SEOUL SEMICONDUCTOR LED Z8Y22T FWHM / FWTM 32.0° / 83.0° Efficiency 92 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components:	

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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Salo, Finland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)