

STRADELLA-16-HB-S

~25° spot beam for industrial applications

SPECIFICATION:

Dimensions	49.5 x 49.5 mm
Height	7.5 mm
Fastening	pin, screw
ROHS compliant	yes ⓘ

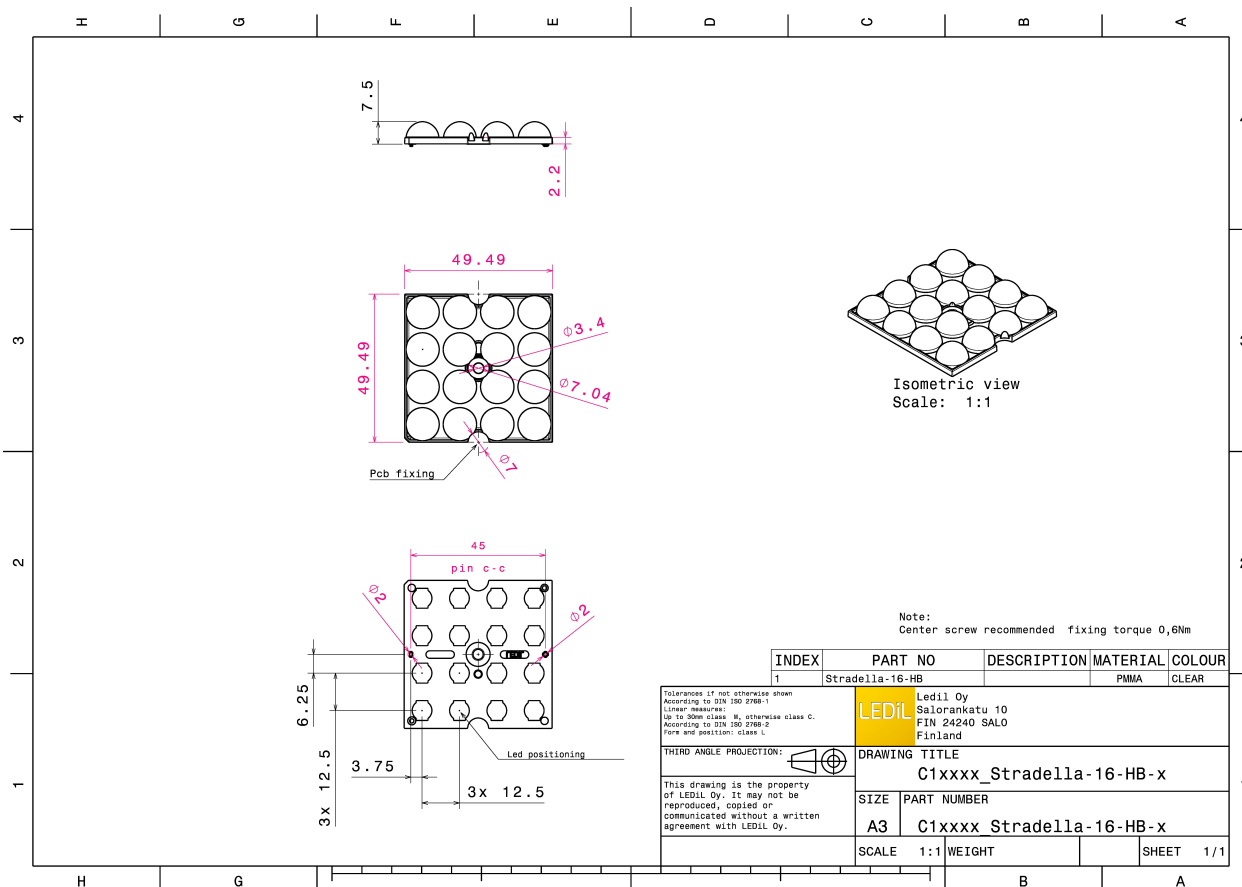
MATERIALS:

Component	Type	Material	Colour	Finish
STRADELLA-16-HB-S	Multi-lens	PMMA	clear	



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C15430_STRADELLA-16-HB-S » Box size: 480 x 280 x 300 mm	800	160	160	6.1

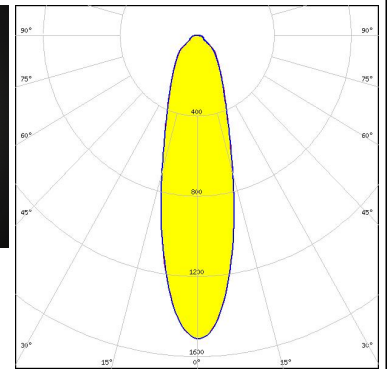


See also our general installation guide: www.ledil.com/installation_guide

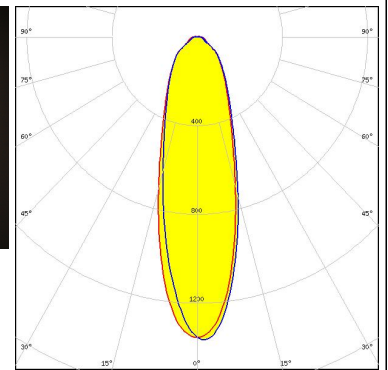
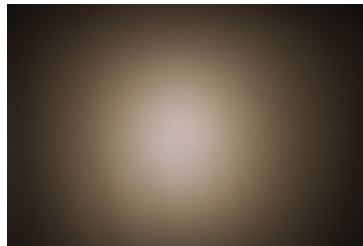
OPTICAL RESULTS (MEASURED):



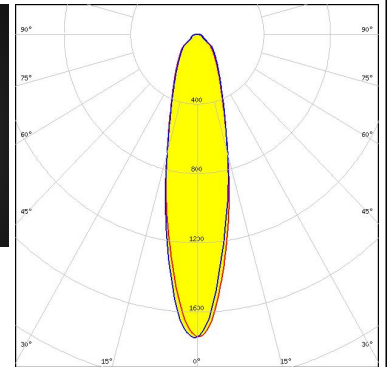
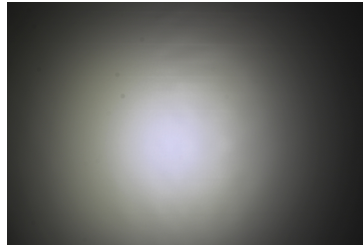
LED J Series 3030
FWHM / FWTM 29.0° / 86.0°
Efficiency 91 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



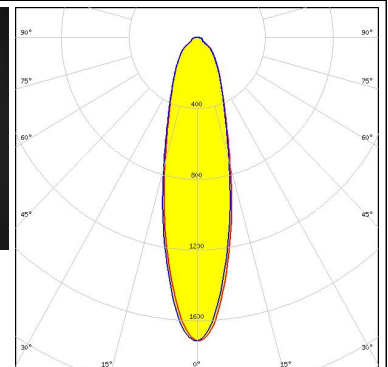
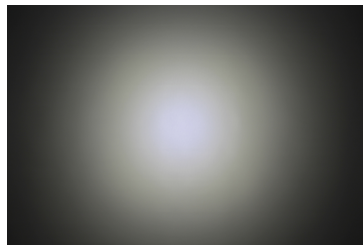
LED EHP-223.5x50-1604-xx-70-LS30-06-NTC
FWHM / FWTM 30.0° / 95.0°
Efficiency 93 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NFSx757D
FWHM / FWTM 25.0° / 78.0°
Efficiency 90 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



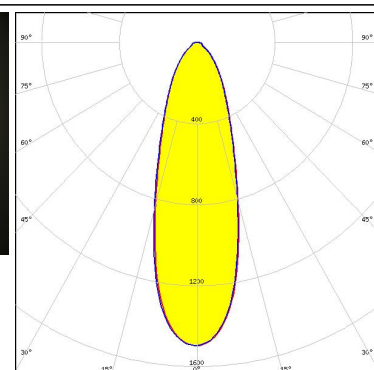
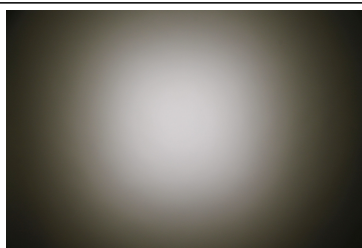
LED NFSx757G
FWHM / FWTM 27.0° / 80.0°
Efficiency 93 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



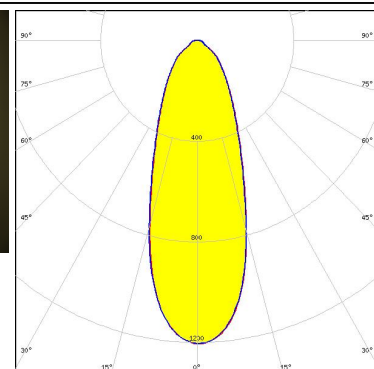
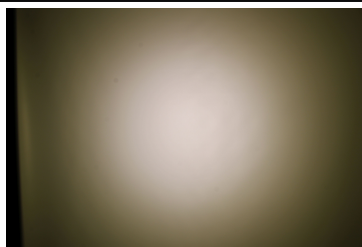
OPTICAL RESULTS (MEASURED):



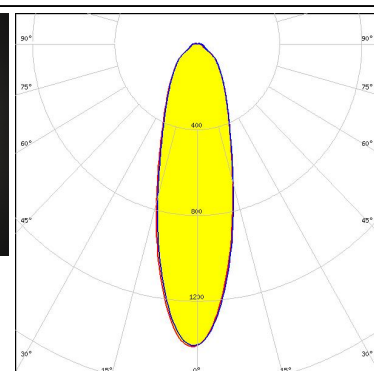
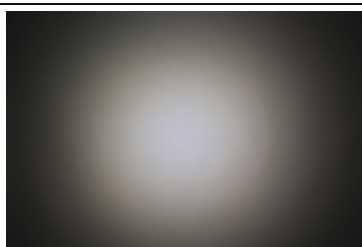
LED NVSW219D
FWHM / FWTM 32.0° / 83.0°
Efficiency 93 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



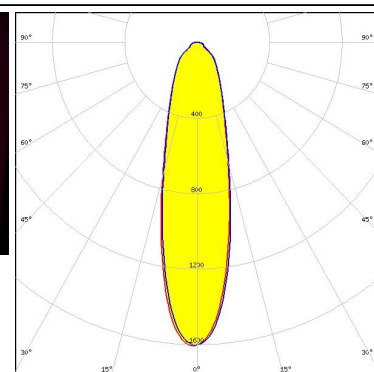
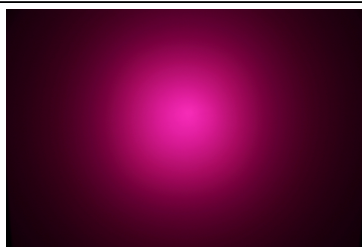
LED NVSW319B
FWHM / FWTM 37.0° / 97.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED PrevaLED Brick MP 4x16
FWHM / FWTM 30.0° / 92.0°
Efficiency 92 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED Duris S5 (2 chip)
FWHM / FWTM 27.0° / 83.0°
Efficiency 92 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour Purple
Required components:

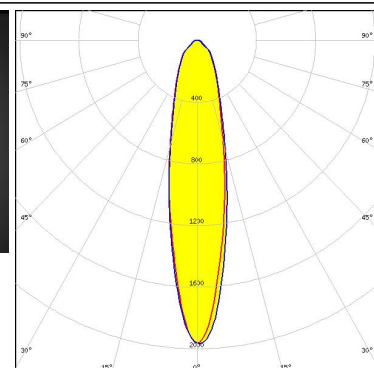


OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

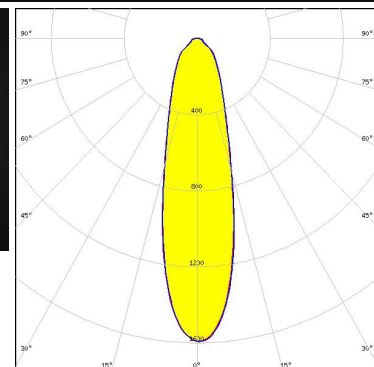
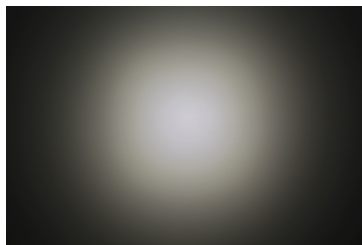
LED Duris S5 (Single chip)
 FWHM / FWTM 23.0° / 72.0°
 Efficiency 90 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

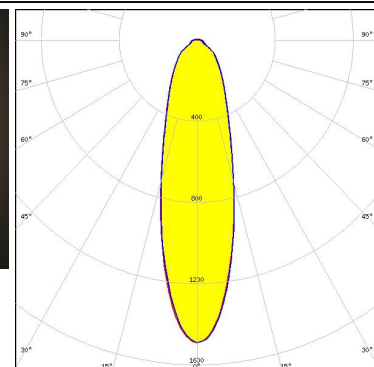
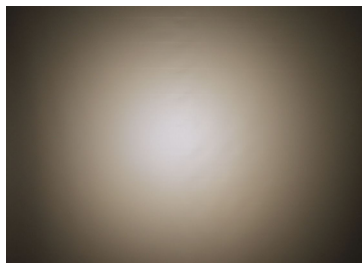
Opto Semiconductors

LED OSCONIQ S 3030 (QSLR31)
 FWHM / FWTM 28.0° / 82.0°
 Efficiency 91 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



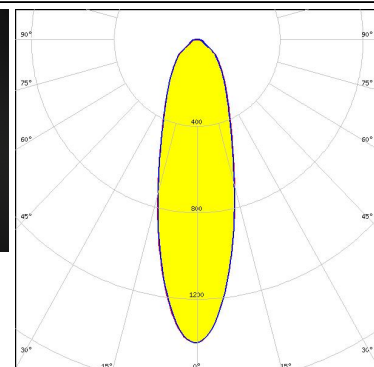
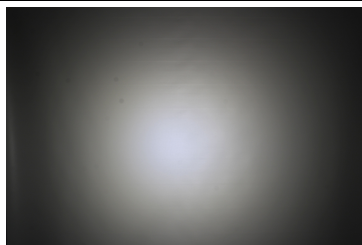
PHILIPS

LED Fortimo FastFlex LED 4x16 DHE G4
 FWHM / FWTM 29.0° / 88.0°
 Efficiency 92 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

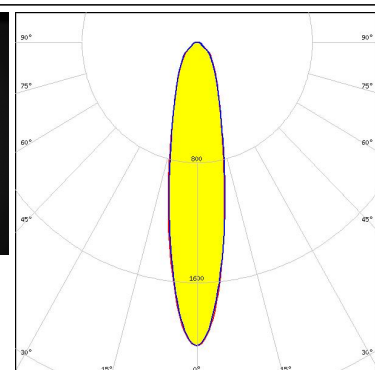
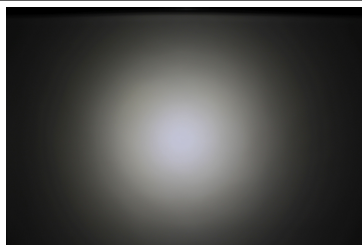
LED HiLOM RM64 (LM301B)
 FWHM / FWTM 30.0° / 92.0°
 Efficiency 93 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

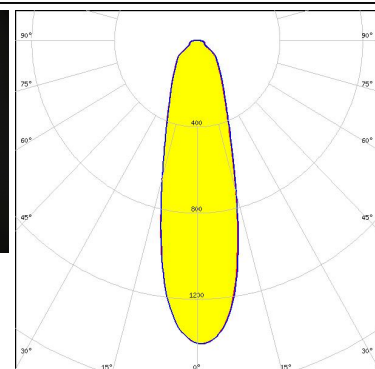
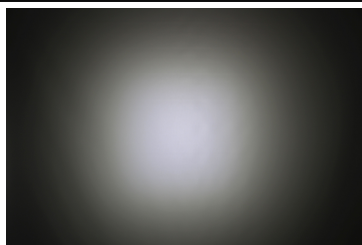
SAMSUNG

LED LM231 A/B
FWHM / FWTM 22.0° / 70.0°
Efficiency 91 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



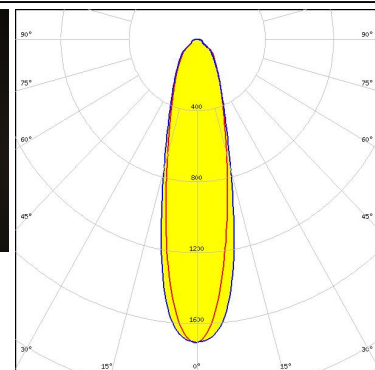
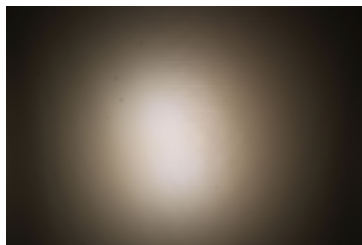
SCIOLUX

LED XLE-S44XTEHE (XT-E HE)
FWHM / FWTM 29.0° / 89.0°
Efficiency 92 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



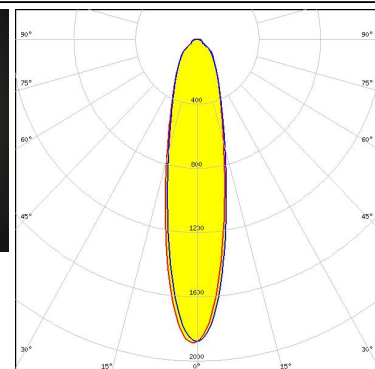
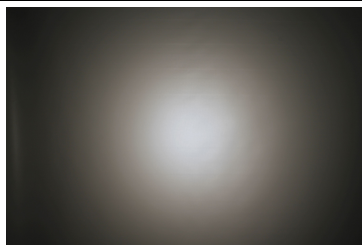
SEOUL SEMICONDUCTOR

LED SEOUL 3030
FWHM / FWTM 26.0° / 78.0°
Efficiency 90 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:


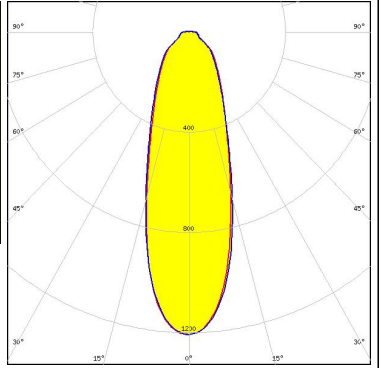
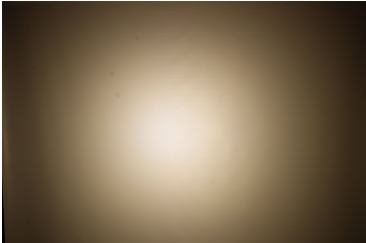
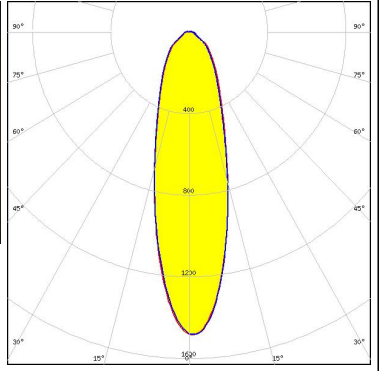


SEOUL SEMICONDUCTOR

LED SEOUL DC 3030
FWHM / FWTM 24.0° / 75.0°
Efficiency 94 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



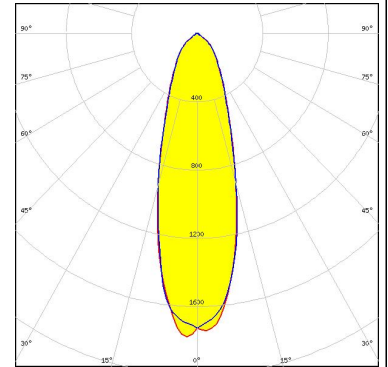
OPTICAL RESULTS (MEASURED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED Z5M3</p> <p>FWHM / FWTM 33.0° / 100.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>TRIDONIC</p> <p>LED RLE 4x16 4000lm MP ADV2 OTD</p> <p>FWHM / FWTM 29.0° / 89.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>TRIDONIC</p> <p>LED RLE 4x8 2000lm MP ADV2 OTD</p> <p>FWHM / FWTM 29.0° / 89.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

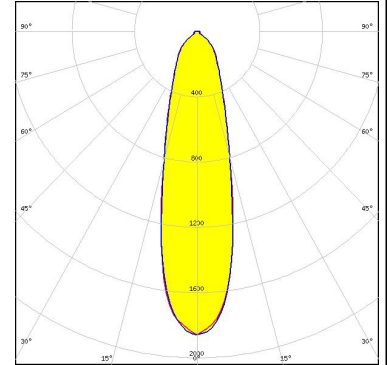
OPTICAL RESULTS (SIMULATED):



LED Bridgelux SMD 2835
 FWHM / FWTM 31.0° / 81.0°
 Efficiency 94 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

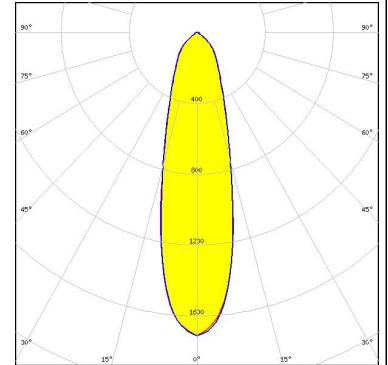


LED CSP 2727 (BXCP)
 FWHM / FWTM 28.0° / 80.0 + 78.0°
 Efficiency 93 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

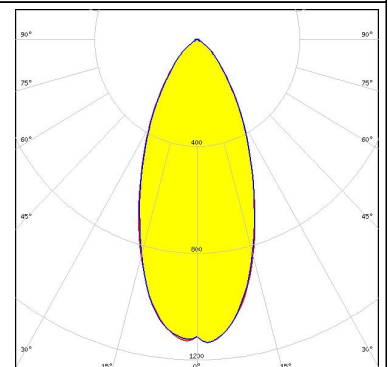


LED CSP 2727 (BXCP)
 FWHM / FWTM 28.0° / 80.0 + 78.0°
 Efficiency 84 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

Protective plate, glass



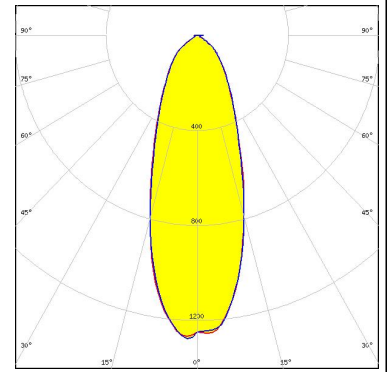
LED XP-G2 HE
 FWHM / FWTM 46.0° / 90.0°
 Efficiency 90 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



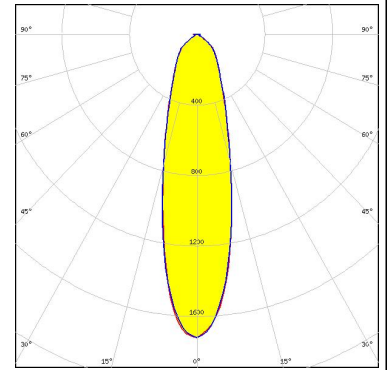
OPTICAL RESULTS (SIMULATED):



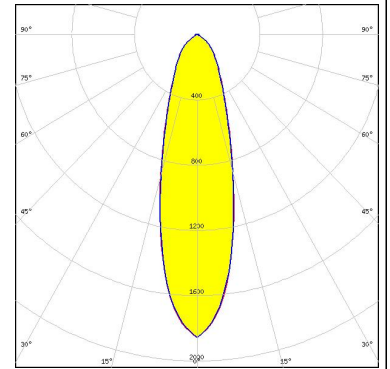
LED XP-G3
 FWHM / FWTM 37.0° / 95.0°
 Efficiency 91 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XT-E
 FWHM / FWTM 28.0° / 82.0°
 Efficiency 91 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

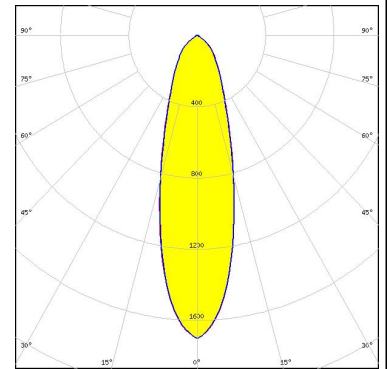


LED LUXEON 2835 Line
 FWHM / FWTM 28.0° / 78.0°
 Efficiency 93 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON 2835 Line
 FWHM / FWTM 30.0° / 78.0°
 Efficiency 85 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

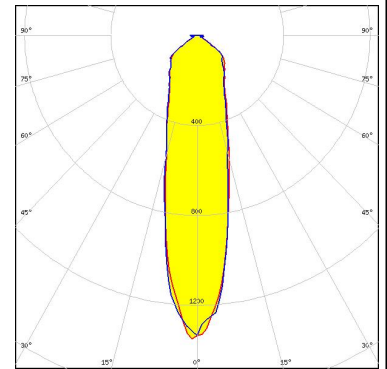
Protective plate, glass



OPTICAL RESULTS (SIMULATED):

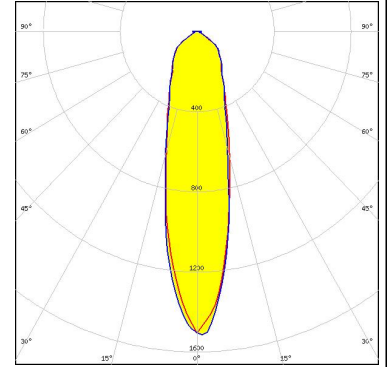
LUMILEDS

LED LUXEON C
FWHM / FWTM 25.0° / 107.0°
Efficiency 90 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour Green
Required components:



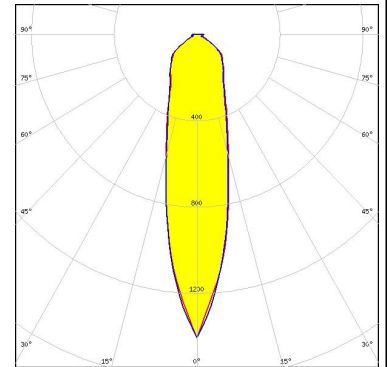
LUMILEDS

LED LUXEON C
FWHM / FWTM 25.0° / 96.0°
Efficiency 91 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



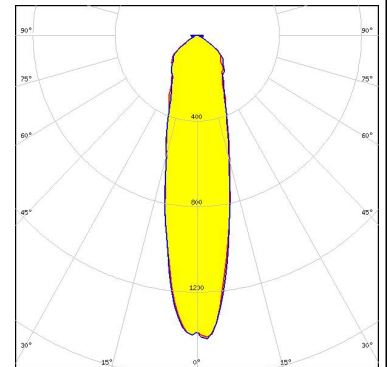
LUMILEDS

LED LUXEON C
FWHM / FWTM 25.0° / 105.0°
Efficiency 91 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour RGBW
Required components:



LUMILEDS

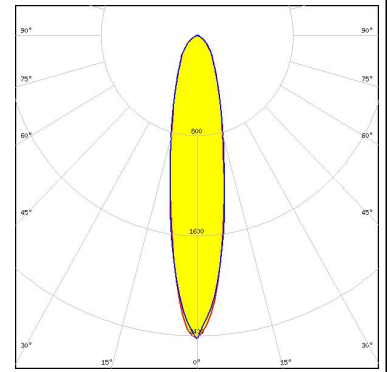
LED LUXEON C
FWHM / FWTM 25.0° / 104.0°
Efficiency 91 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour Blue
Required components:



OPTICAL RESULTS (SIMULATED):

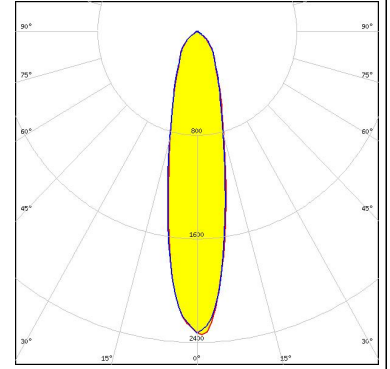
LUMILEDS

LED LUXEON CZ
FWHM / FWTM 22.0° / 67.0°
Efficiency 94 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



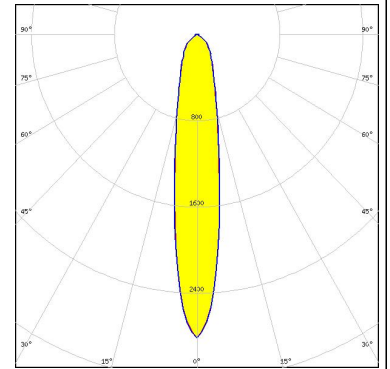
LUMILEDS

LED LUXEON CZ
FWHM / FWTM 23.0° / 70.0°
Efficiency 94 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour RGBW
Required components:



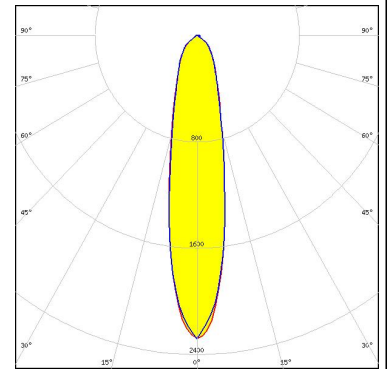
LUMILEDS

LED LUXEON HL1Z
FWHM / FWTM 18.0° / 62.0°
Efficiency 94 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



NICHIA

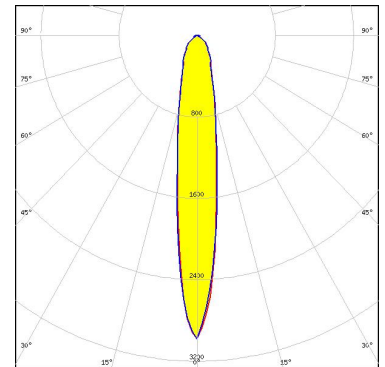
LED NCSxE17A
FWHM / FWTM 22.0° / 69.0°
Efficiency 91 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



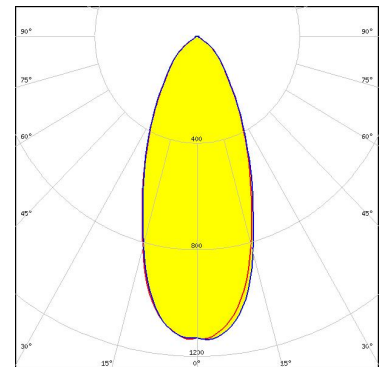
OPTICAL RESULTS (SIMULATED):



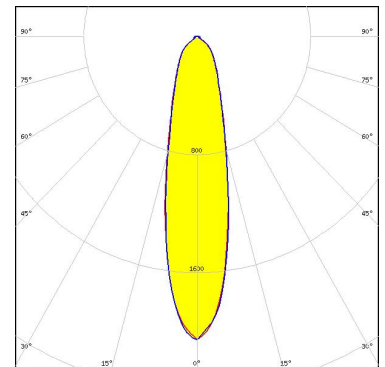
LED NFSWE11A
 FWHM / FWTM 16.0° / 56.0°
 Efficiency 90 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



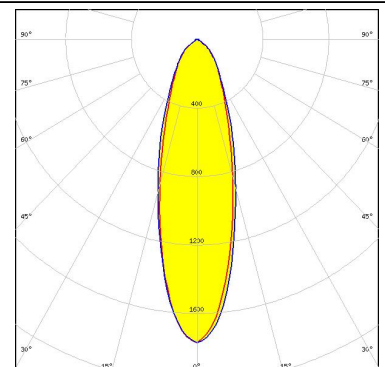
LED NVSW519A
 FWHM / FWTM 43.0° / 95.0°
 Efficiency 90 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NVSxE21A
 FWHM / FWTM 25.0° / 74.0°
 Efficiency 92 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED Duris E5
 FWHM / FWTM 30.0° / 80.0°
 Efficiency 93 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

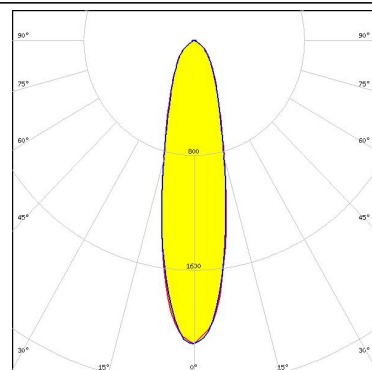


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

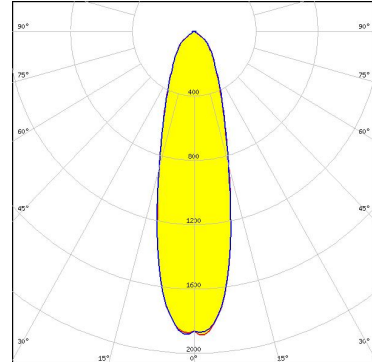
LED OSCONIQ C 2424
FWHM / FWTM 26.0° / 73.0°
Efficiency 93 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

LED OSCONIQ C 3030
FWHM / FWTM 28.0° / 78.0°
Efficiency 94 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

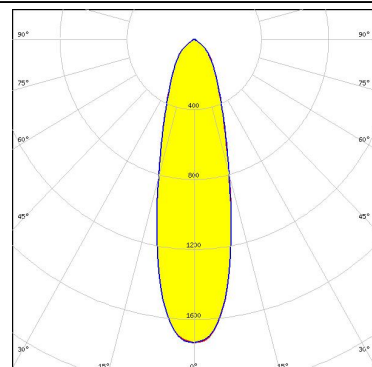


OSRAM

Opto Semiconductors

LED OSCONIQ C 3030
FWHM / FWTM 28.0° / 78.0°
Efficiency 86 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:

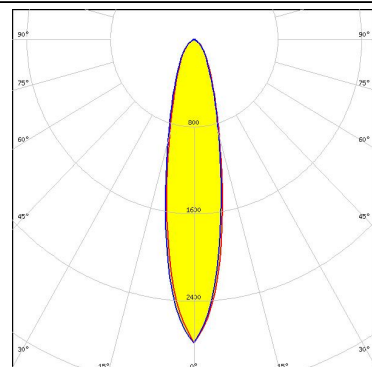
Protective plate, glass



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:

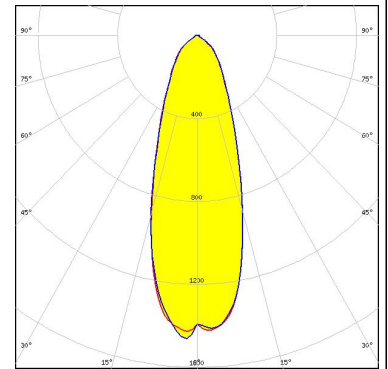


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

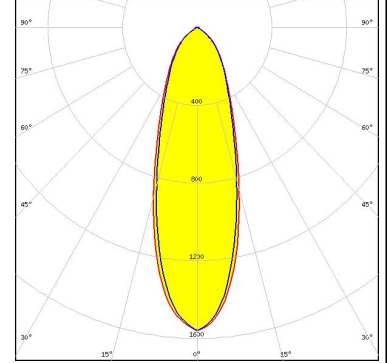
LED OSCONIQ P 3737 (3W version)
FWHM / FWTM 36.0 + 34.0° / 88.0 + 87.0°
Efficiency 94 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

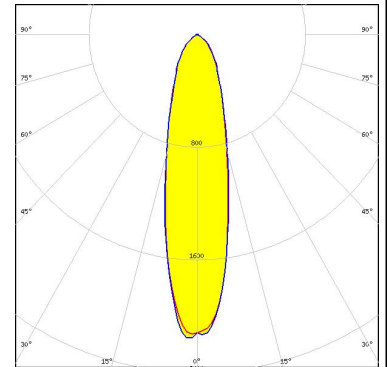
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 32.0° / 87.0°
Efficiency 94 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour Red
Required components:



OSRAM

Opto Semiconductors

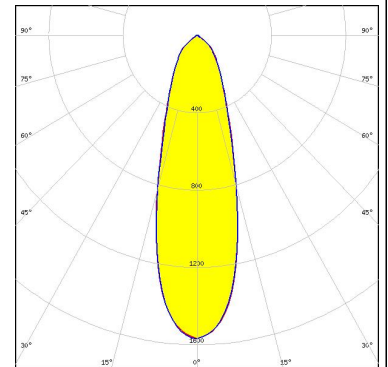
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 25.0° / 74.0°
Efficiency 94 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour Far Red
Required components:



SAMSUNG

LED LH231B
FWHM / FWTM 31.0° / 80.0°
Efficiency 83 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

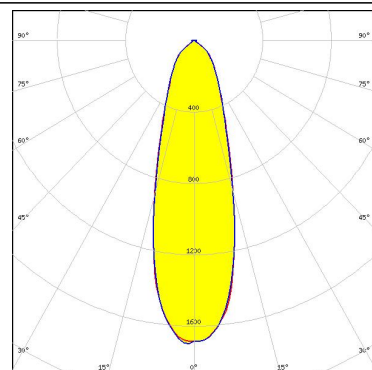
Protective plate, glass



OPTICAL RESULTS (SIMULATED):

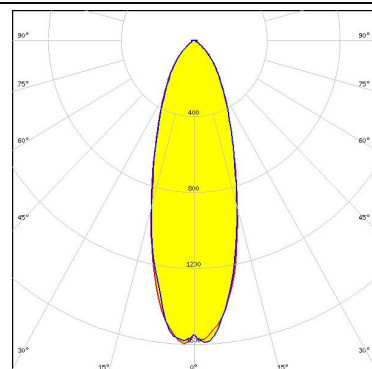
SAMSUNG

LED LH231B
FWHM / FWTM 31.0° / 82.0°
Efficiency 91 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



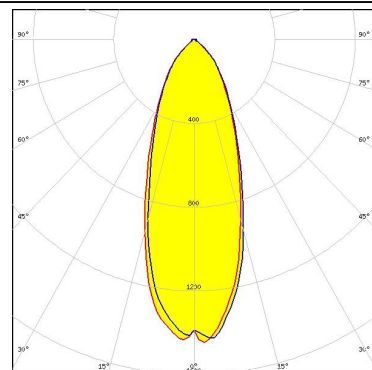
SAMSUNG

LED LH351B
FWHM / FWTM 33.0° / 83.0°
Efficiency 94 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



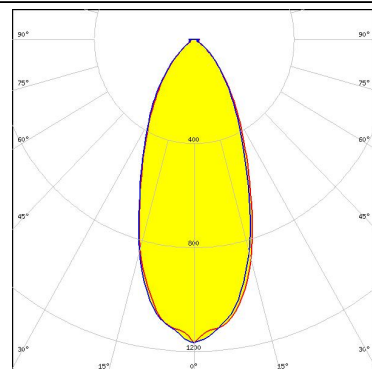
SAMSUNG

LED LH351C
FWHM / FWTM 37.0° / 87.0°
Efficiency 94 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED LH351D
FWHM / FWTM 44.0° / 93.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

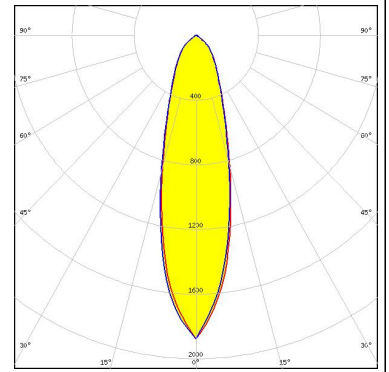


OPTICAL RESULTS (SIMULATED):

SAMSUNG

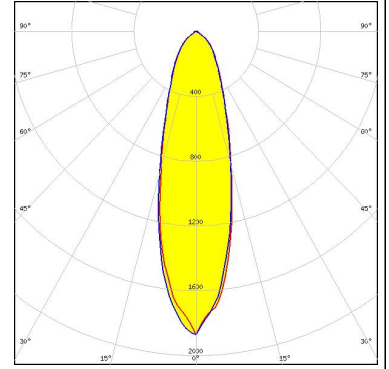
LED LM301B
FWHM / FWTM 28.0° / 76.0°
Efficiency 87 %
Peak intensity 1.9 cd/Im
LEDs/each optic 1
Light colour White
Required components:

Protective plate, glass



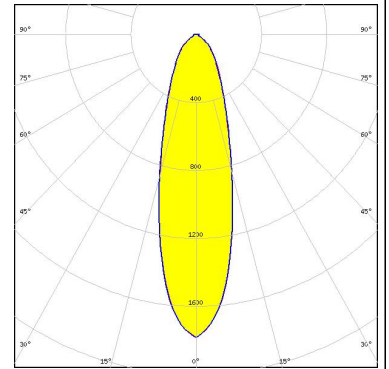
SAMSUNG

LED LM301B
FWHM / FWTM 27.0° / 78.0°
Efficiency 93 %
Peak intensity 1.9 cd/Im
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

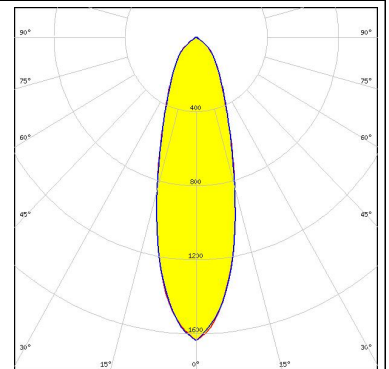
LED LM302D
FWHM / FWTM 29.0° / 79.0°
Efficiency 93 %
Peak intensity 1.8 cd/Im
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED LM302Z plus
FWHM / FWTM 30.0° / 82.0°
Efficiency 87 %
Peak intensity 1.6 cd/Im
LEDs/each optic 1
Light colour White
Required components:

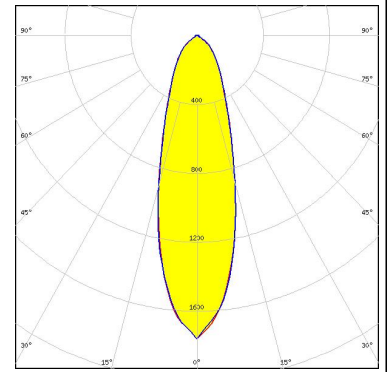
Protective plate, glass



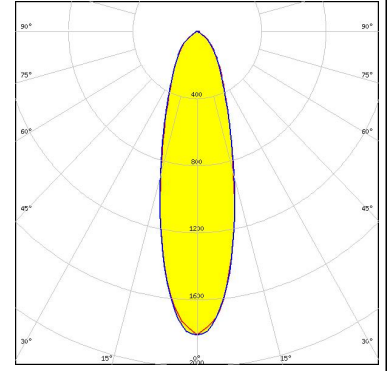
OPTICAL RESULTS (SIMULATED):

SAMSUNG

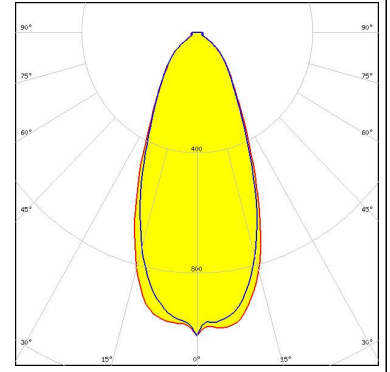
LED LM302Z plus
FWHM / FWTM 30.0° / 80.0°
Efficiency 93 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



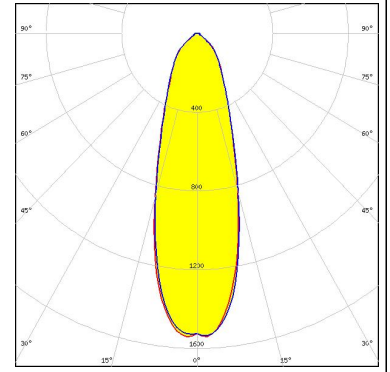
SEOUL SEMICONDUCTOR
LED SEOUL DC 3030C
FWHM / FWTM 30.0° / 80.0°
Efficiency 93 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SEOUL SEMICONDUCTOR
LED SEOUL DC 5050 6V
FWHM / FWTM 45.0° / 100.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SEOUL SEMICONDUCTOR
LED Z8Y22T
FWHM / FWTM 31.0° / 82.0°
Efficiency 93 %
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)