

VERONICA-SQ-RS

~13° spot beam

TECHNICAL SPECIFICATIONS:

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

MATERIAL SPECIFICATIONS:

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



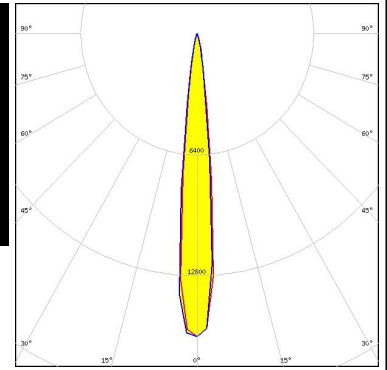
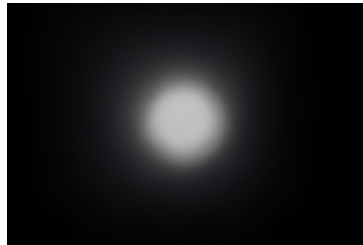
ORDERING INFORMATION:

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

PHOTOMETRIC DATA (MEASURED):

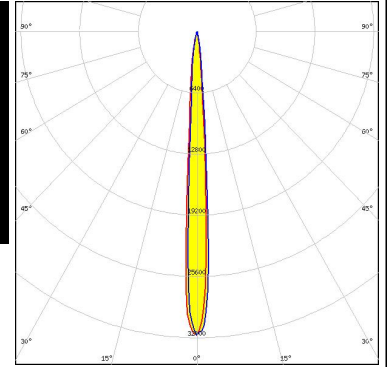
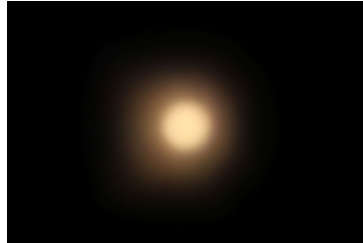
CREE LED

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:



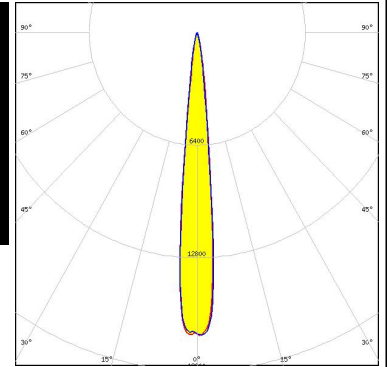
CREE LED

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:



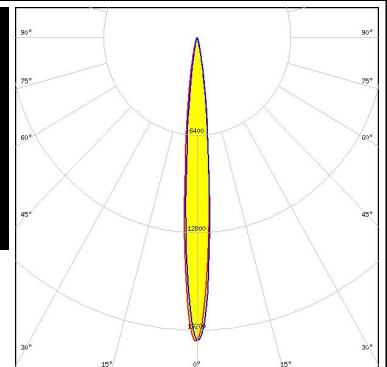
CREE LED

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

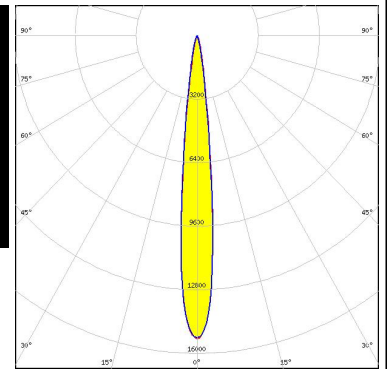
LED LUXEON 3030 2D (Square LES)
 FWHM / FWTM 10.0° / 21.0°
 Efficiency 92 %
 Peak intensity 19.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

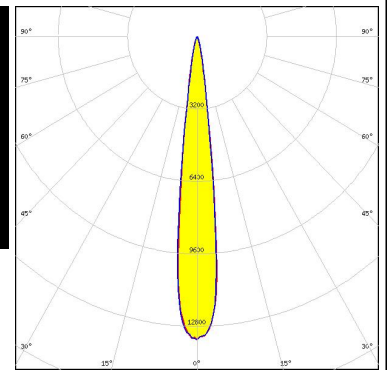
LUMILEDS

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:



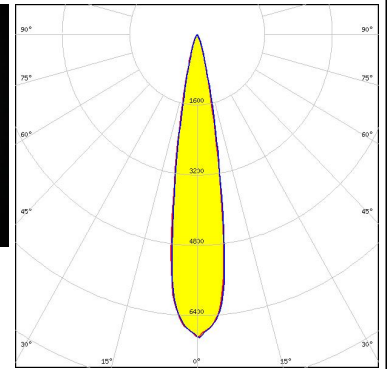
NICHIA

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:



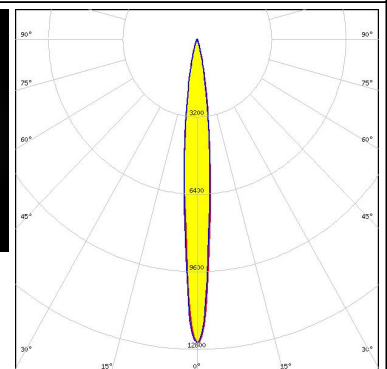
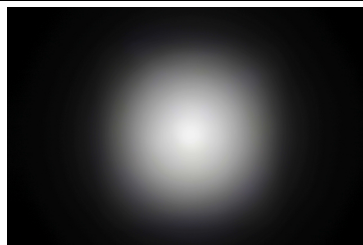
NICHIA

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:



SAMSUNG

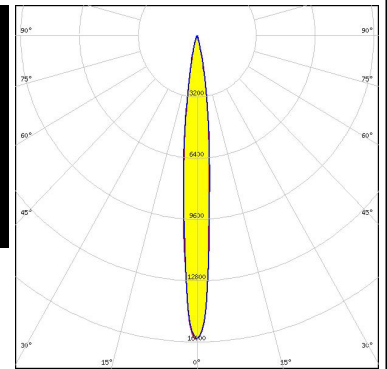
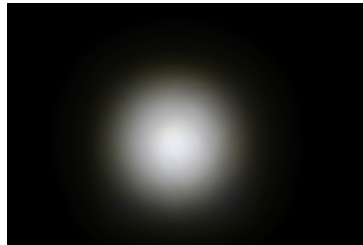
LED LH181A
 FWHM / FWTM 10.0° / 26.0°
 Efficiency 93 %
 Peak intensity 12.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

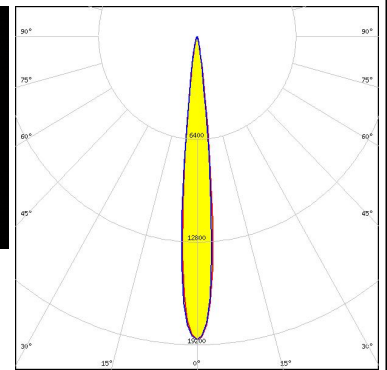
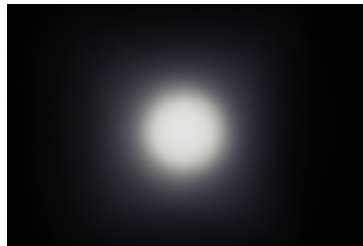
SAMSUNG

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:



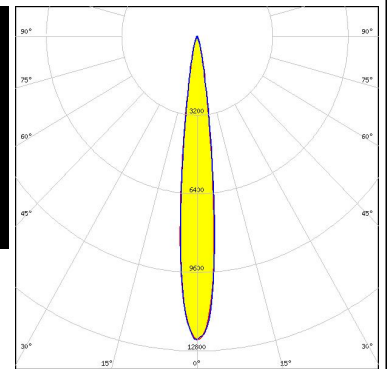
SAMSUNG

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:



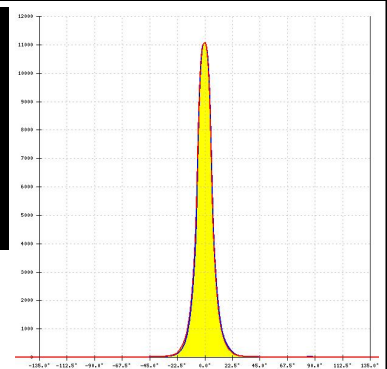
SEOUL SEMICONDUCTOR

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:



SEOUL SEMICONDUCTOR

LED Z8Y22P
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 86 %
 Peak intensity 11.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



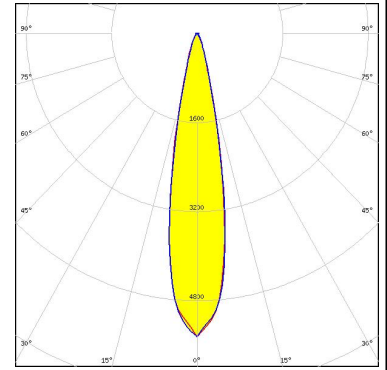
PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (SIMULATED):



LED XHP35.2
 FWHM / FWTM 20.0° / 37.0°
 Efficiency 94 %
 Peak intensity 5.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XM-L
 FWHM / FWTM 15.0°
 Efficiency 91 %
 LEDs/each optic 1
 Light colour White
 Required components:



LED XM-L2
 FWHM / FWTM 15.0°
 Efficiency 92 %
 LEDs/each optic 1
 Light colour White
 Required components:

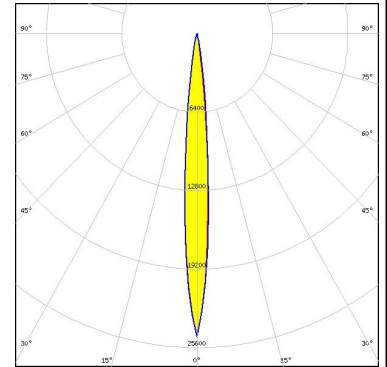


LED XP-E
 FWHM / FWTM 8.0°
 Efficiency 92 %
 LEDs/each optic 1
 Light colour White
 Required components:

PHOTOMETRIC DATA (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:

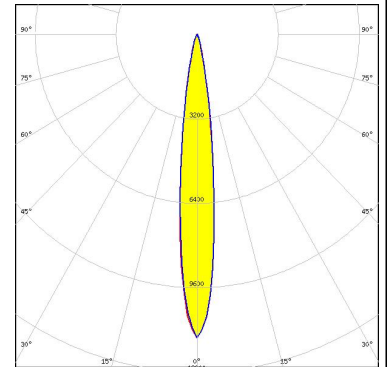


CREE → LED

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

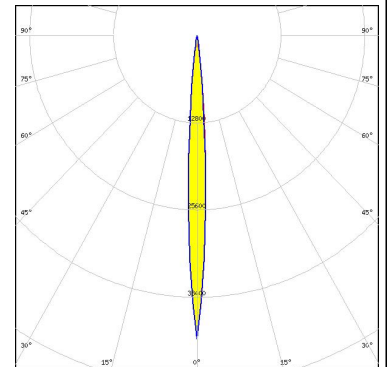
CREE → LED

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

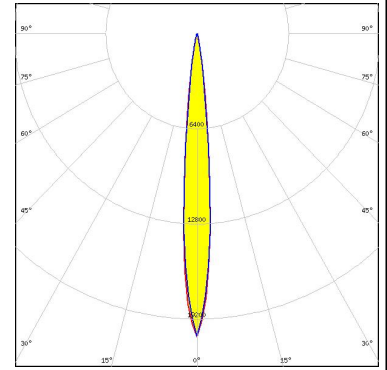
LED XP-P
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 96 %
 Peak intensity 44.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



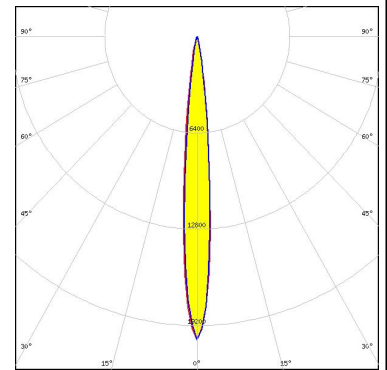
PHOTOMETRIC DATA (SIMULATED):



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:



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:



LED LUXEON A
 FWHM / FWTM 11.0°
 Efficiency 90 %
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON R
 FWHM / FWTM 11.0°
 Efficiency 90 %
 LEDs/each optic 1
 Light colour White
 Required components:

PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

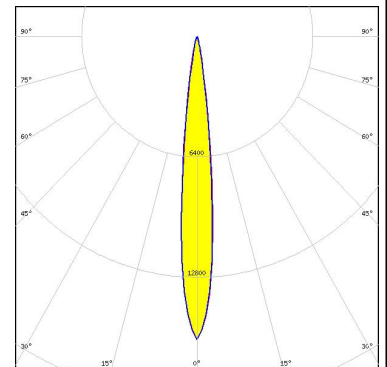
LED LUXEON Rebel
 FWHM / FWTM 9.0°
 Efficiency 90 %
 LEDs/each optic 1
 Light colour White
 Required components:

LUMILEDS

LED LUXEON Rebel ES
 FWHM / FWTM 11.0°
 Efficiency 90 %
 LEDs/each optic 1
 Light colour White
 Required components:

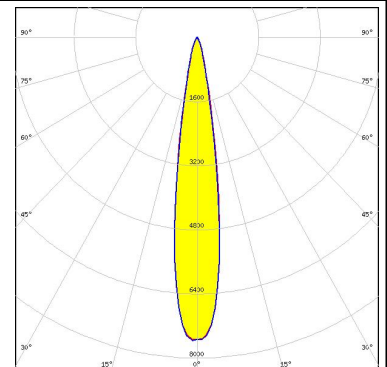
LUMILEDS

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:



LUMILEDS

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:



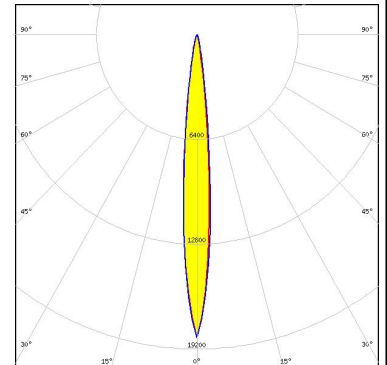
PHOTOMETRIC DATA (SIMULATED):



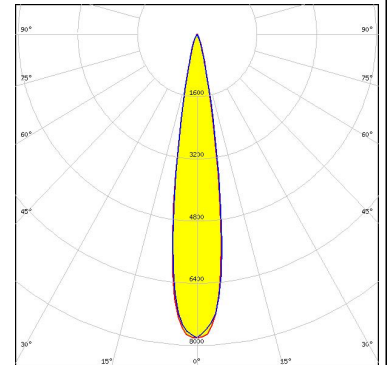
LED NCSxx19A
 FWHM / FWTM 8.0°
 Efficiency 88 %
 LEDs/each optic 1
 Light colour White
 Required components:



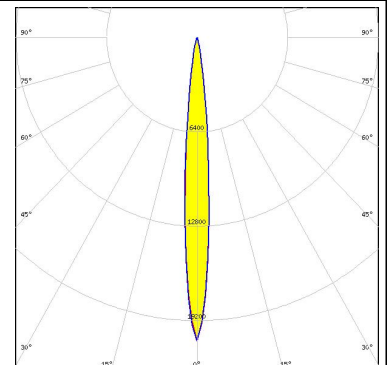
LED NF2x757G
 FWHM / FWTM 10.0° / 21.0°
 Efficiency 96 %
 Peak intensity 18.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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:



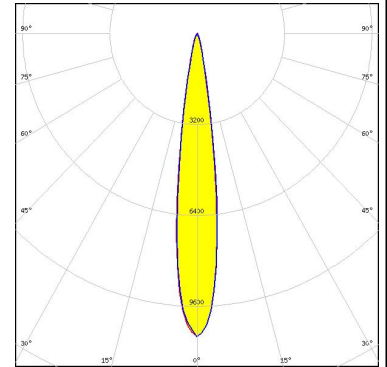
LED NVSxE21A
 FWHM / FWTM 9.4° / 21.0°
 Efficiency 94 %
 Peak intensity 20.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):



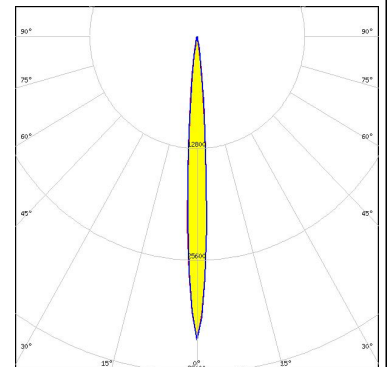
LED NVSxx19A
 FWHM / FWTM 15.0° / 28.0°
 Efficiency 96 %
 Peak intensity 10.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



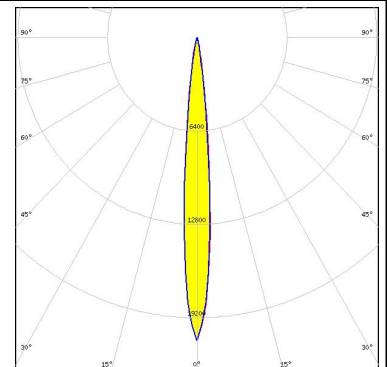
LED NVSxx19B/NVSxx19C
 FWHM / FWTM 11.0°
 Efficiency 89 %
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM Opto Semiconductors
 LED OSCONIQ P 3030
 FWHM / FWTM 7.3° / 16.0°
 Efficiency 96 %
 Peak intensity 34.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM Opto Semiconductors
 LED OSOLON Square CSSRM2/CSSRM3
 FWHM / FWTM 10.0° / 20.0°
 Efficiency 94 %
 Peak intensity 20.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

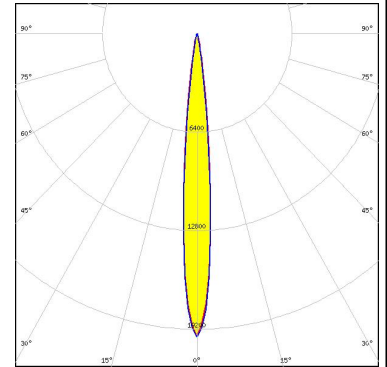


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED OSLON Square EC
 FWHM / FWTM 10.0° / 19.0°
 Efficiency 94 %
 Peak intensity 20.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

LED OSLON Square PC
 FWHM / FWTM 10.0°
 Efficiency 90 %
 LEDs/each optic 1
 Light colour White
 Required components:

OSRAM

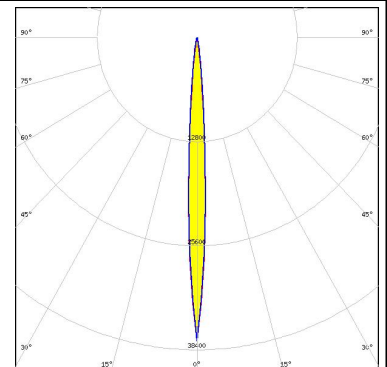
Opto Semiconductors

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

OSRAM

Opto Semiconductors

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



PHOTOMETRIC DATA (SIMULATED):

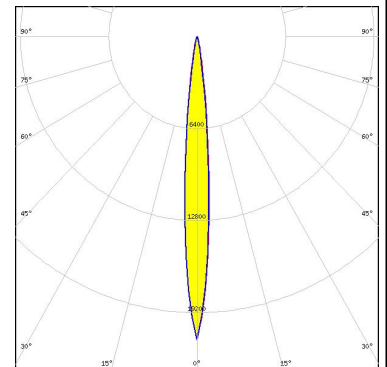
SAMSUNG

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



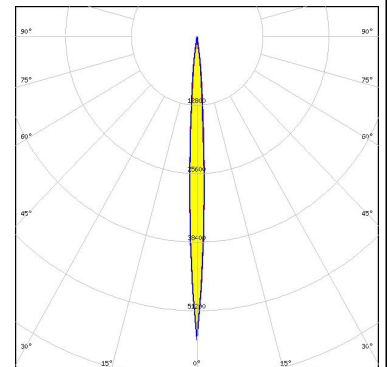
SEOUL SEMICONDUCTOR

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:



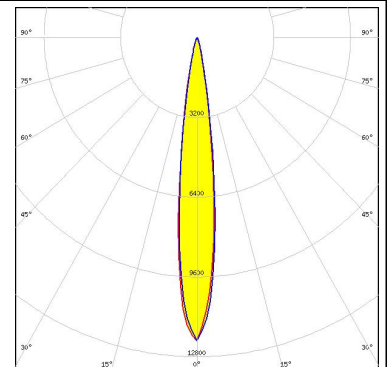
SEOUL SEMICONDUCTOR

LED Z5
 FWHM / FWTM 6.0° / 13.0°
 Efficiency 95 %
 Peak intensity 56.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SEOUL SEMICONDUCTOR

LED Z5M4
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 96 %
 Peak intensity 12.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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.

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)