

HB-IP-2X6-RS

~20° spot beam

TECHNICAL SPECIFICATIONS:

| | |
|----------------------------|-----------------|
| Dimensions | 173.0 x 71.4 mm |
| Height | 11.4 mm |
| Fastening | pin, screw |
| Ingress protection classes | IP67 |
| ROHS compliant | yes ⓘ |

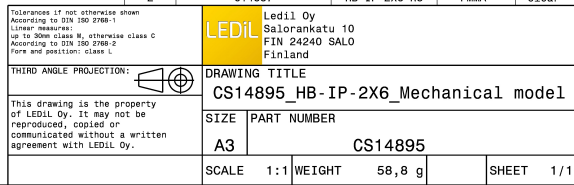


MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour | Finish |
|--------------|------------|----------|--------|--------|
| HB-IP-2X6-RS | Multi-lens | PMMA | clear | |
| 2X6-SEAL25 | Seal | Silicone | white | |

ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|------------|------------|-----|-----|-----------------|
| CS14895_HB-IP-2X6-RS | Multi-lens | 120 | 40 | 40 | 8.0 |
| » Box size: 476 x 273 x 247 mm | | | | | |

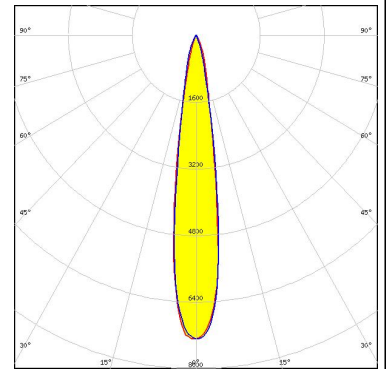


2/16

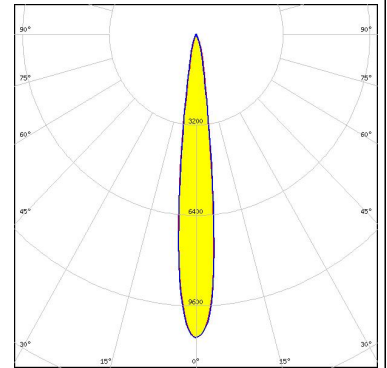
PHOTOMETRIC DATA (MEASURED):



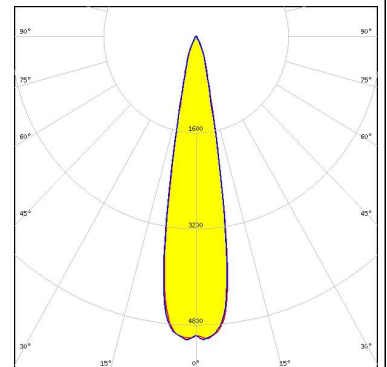
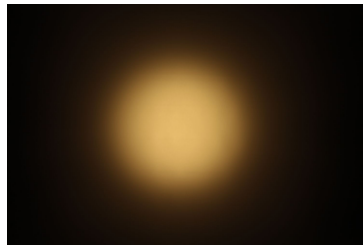
LED QUICK FLUX 2x6 LED XG xxx G7+
 FWHM 16.0°
 Efficiency 94 %
 Peak intensity 7.3 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:



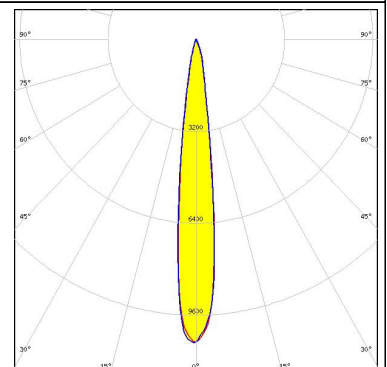
LED QUICK FLUX 2x6 LED XT xxx G5
 FWHM 13.0°
 Efficiency 94 %
 Peak intensity 10.7 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:



LED XM-L
 FWHM 21.0°
 Efficiency 94 %
 Peak intensity 5.1 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:



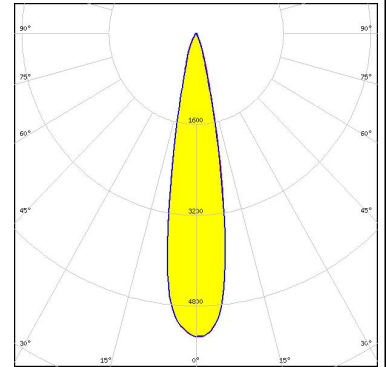
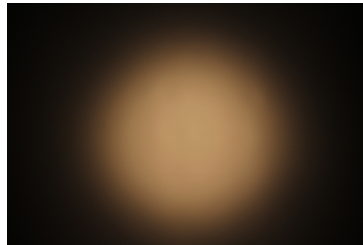
LED XP-G2
 FWHM 13.0°
 Efficiency 94 %
 Peak intensity 10.6 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

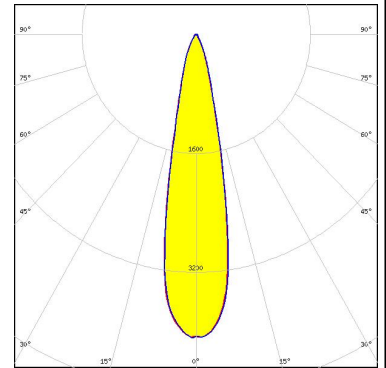
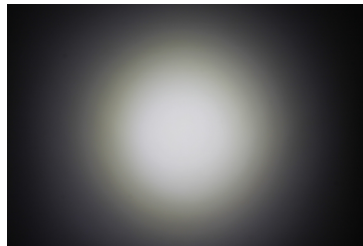
CREE

LED XP-L HD
FWHM 20.0°
Efficiency 93 %
Peak intensity 5.4 cd/Im
LEDs/each optic 1
Light colour White
Required components:



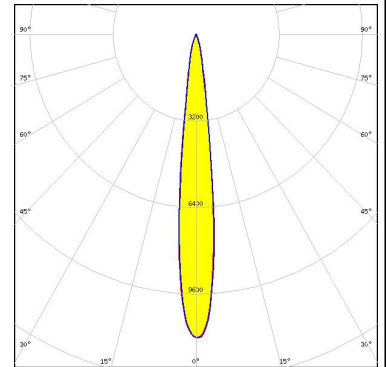
CREE

LED XP-L2
FWHM 22.0°
Efficiency 93 %
Peak intensity 4.1 cd/Im
LEDs/each optic 1
Light colour White
Required components:



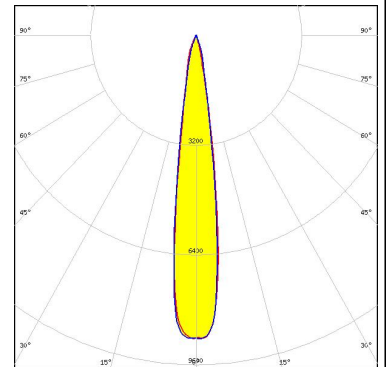
CREE

LED XT-E HE
FWHM 13.0°
Efficiency 94 %
Peak intensity 11.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

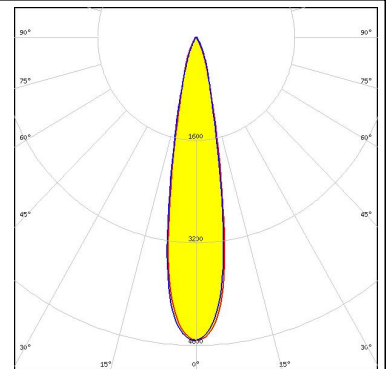
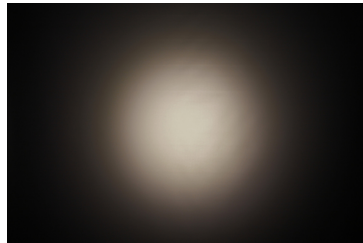
LED LUXEON T
FWHM 15.0°
Efficiency 94 %
Peak intensity 8.8 cd/Im
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

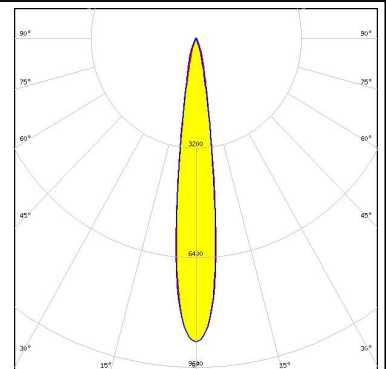
LUMILEDS

LED LUXEON V
FWHM 20.0°
Efficiency 92 %
Peak intensity 4.7 cd/Im
LEDs/each optic 1
Light colour White
Required components:



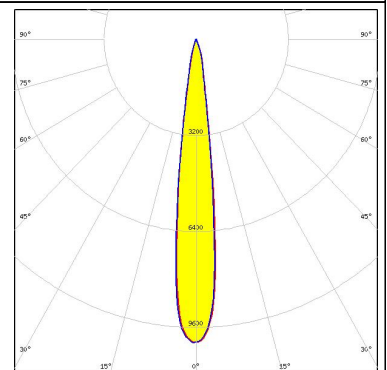
LUMILEDS

LED LUXEON V2
FWHM 15.0°
Efficiency 94 %
Peak intensity 8.9 cd/Im
LEDs/each optic 1
Light colour White
Required components:



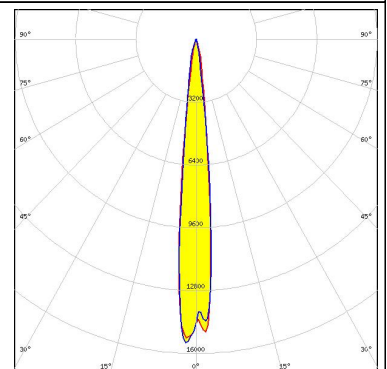
LUMILEDS

LED LUXEON XR-TX (L2T0-xyy012M)
FWHM 14.0°
Efficiency 92 %
Peak intensity 10.1 cd/Im
LEDs/each optic 1
Light colour White
Required components:



LUMINUS

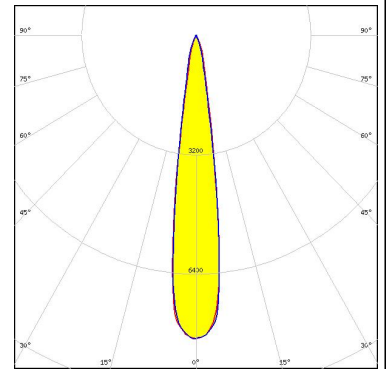
LED SST-10-B130
FWHM 12.0°
Efficiency 94 %
Peak intensity 15.6 cd/Im
LEDs/each optic 1
Light colour Deep Red
Required components:



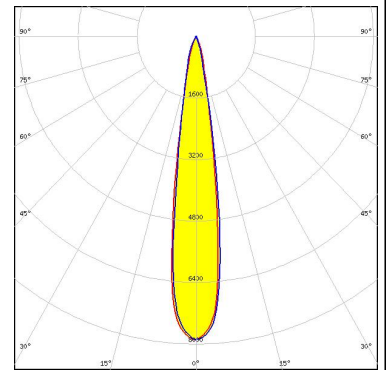
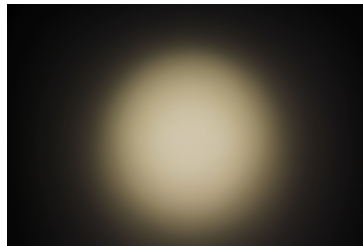
PHOTOMETRIC DATA (MEASURED):



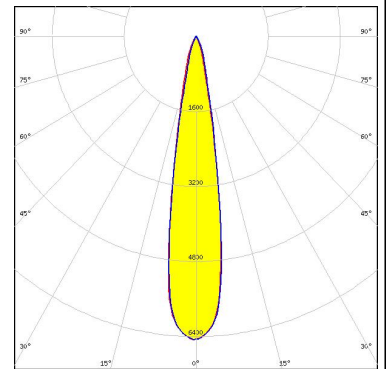
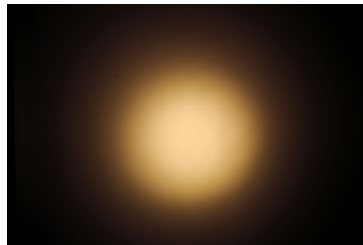
LED NVSW219D
FWHM 16.0°
Efficiency 94 %
Peak intensity 8.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



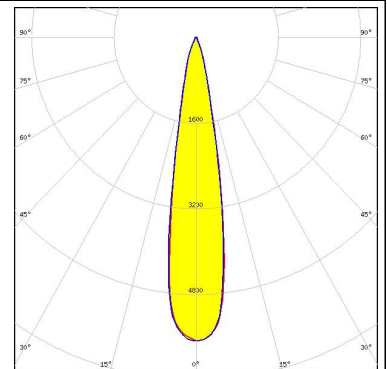
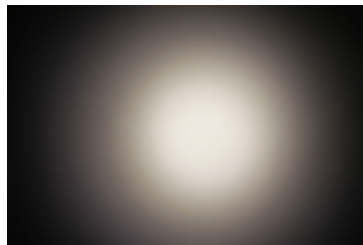
LED NVSW219F
FWHM 16.0°
Efficiency 8 %
Peak intensity 94 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSW319B
FWHM 18.0°
Efficiency 94 %
Peak intensity 6.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



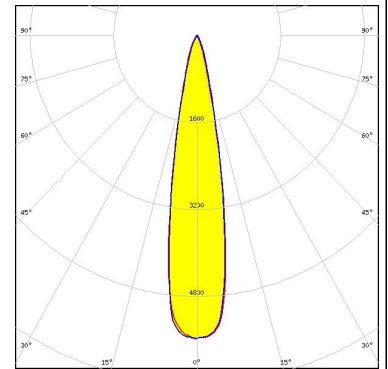
LED NVSW3x9A
FWHM 19.0°
Efficiency 92 %
Peak intensity 5.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



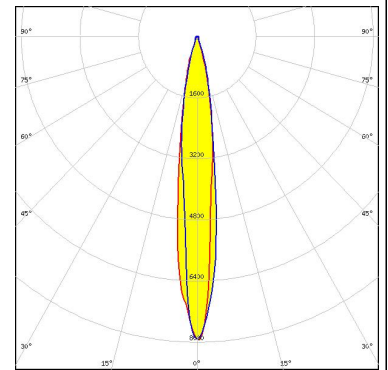
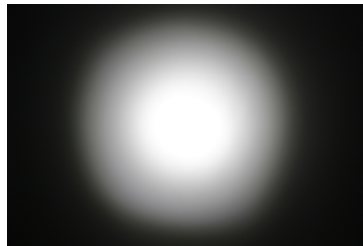
PHOTOMETRIC DATA (MEASURED):



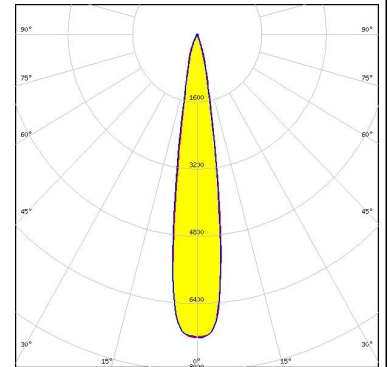
LED NVSW519A
FWHM 20.0°
Efficiency 95 %
Peak intensity 5.6 cd/Im
LEDs/each optic 1
Light colour White
Required components:



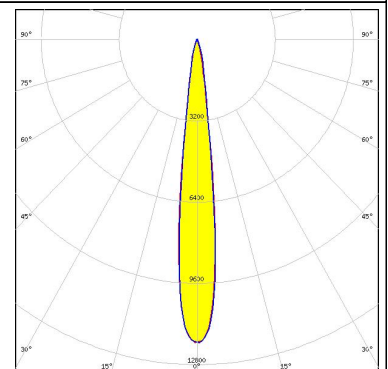
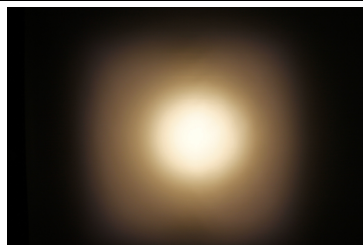
LED NVSxE21A
FWHM 13.0°
Efficiency 94 %
Peak intensity 8 cd/Im
LEDs/each optic 1
Light colour White
Required components:



LED NVSxx19B/NVSxx19C
FWHM 16.0°
Efficiency 92 %
Peak intensity 7.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:



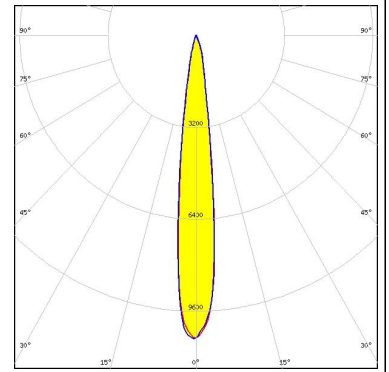
LED OSLON Square CSSRM2/CSSRM3
FWHM 13.0°
Efficiency 94 %
Peak intensity 12 cd/Im
LEDs/each optic 1
Light colour White
Required components:





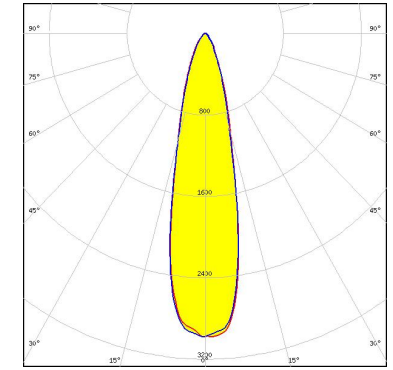


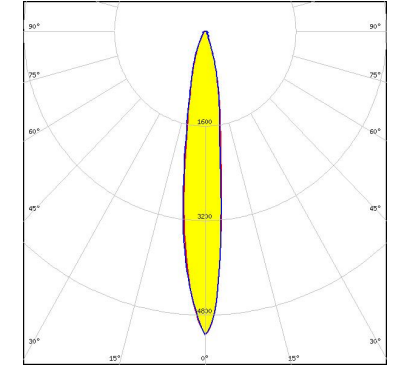


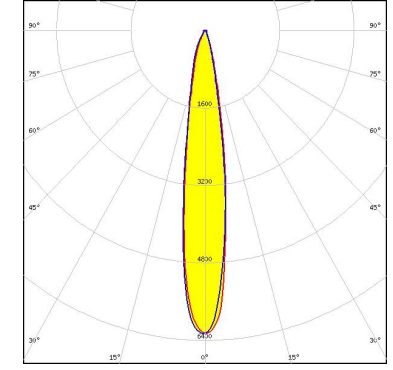


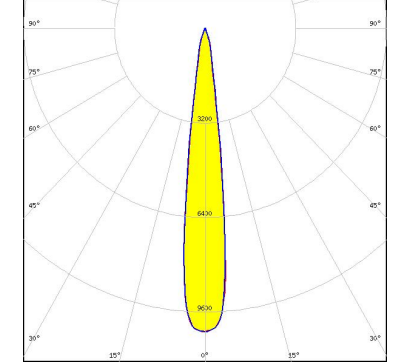
PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED Fortimo FastFlex LED 2x6 DP G4
 FWHM 13.0°
 Efficiency 94 %
 Peak intensity 10.6 cd/Im
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

| | | |
|--|--|---|
| <p> SEOUL SEMICONDUCTOR</p> <p>LED 2x6 5050 module - SMJD-3625012F-XX</p> <p>FWHM 24.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |
| <p> SEOUL SEMICONDUCTOR</p> <p>LED SMJQ-D36W12Mx</p> <p>FWHM 15.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 5.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |
| <p> SEOUL SEMICONDUCTOR</p> <p>LED SMJQ-D36W12Px</p> <p>FWHM 16.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 6.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |
| <p> SEOUL SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2</p> <p>FWHM 14.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 10 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |

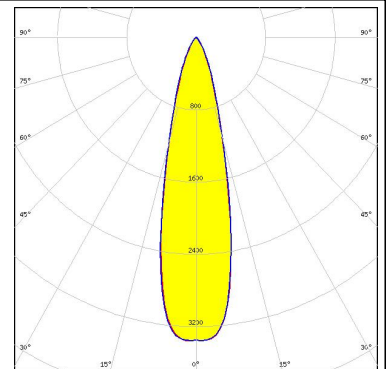
PHOTOMETRIC DATA (MEASURED):

| | | |
|---|--|--|
| <p>SEOUL SEMICONDUCTOR</p> <p>LED Z5M3</p> <p>FWHM 16.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 7.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> | | |
| <p>SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22</p> <p>FWHM 15.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 5.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> | | |
| <p>SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22P</p> <p>FWHM 17.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 6.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> | | |
| <p>TRIDONIC</p> <p>LED RLE 2x6 3000lm HP EXC2 OTD</p> <p>FWHM 13.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 11.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> | | |

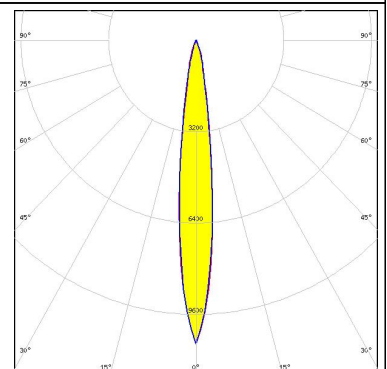
PHOTOMETRIC DATA (SIMULATED):



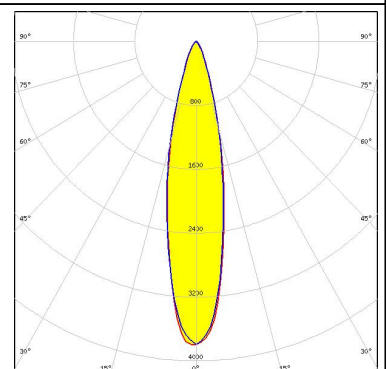
LED J Series 5050
 FWHM 25.0°
 Efficiency 94 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



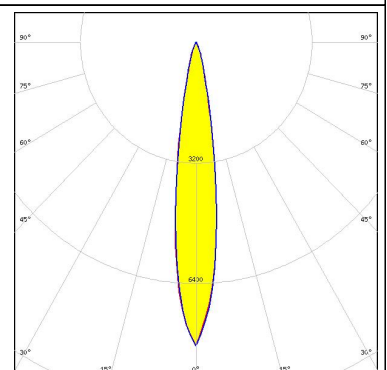
LED XB-H
 FWHM 12.0°
 Efficiency 92 %
 Peak intensity 10.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XHP35 HD
 FWHM 22.0°
 Efficiency 93 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



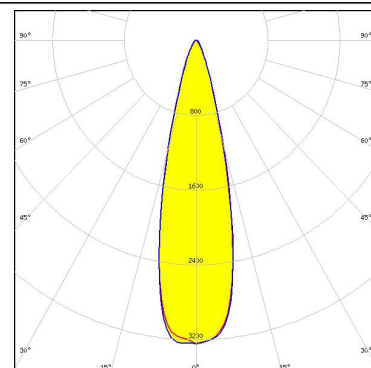
LED XHP35 HI
 FWHM 16.0°
 Efficiency 93 %
 Peak intensity 8.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

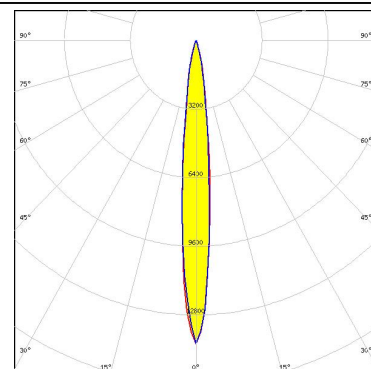
CREE

LED XHP35.2
FWHM 26.0°
Efficiency 92 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



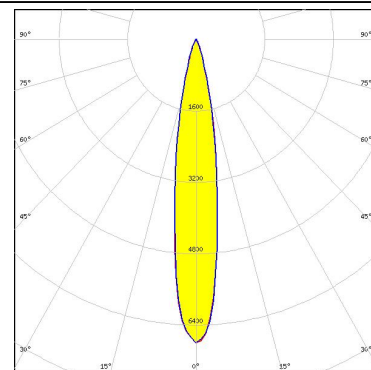
CREE

LED XP-E2
FWHM 11.0°
Efficiency 91 %
Peak intensity 14.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



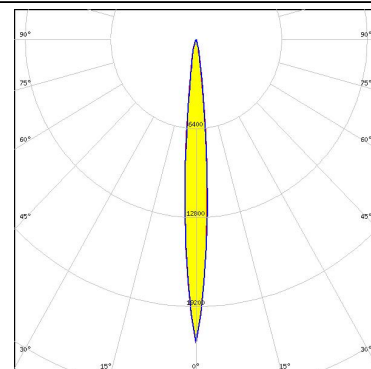
CREE

LED XP-G2 HE
FWHM 17.0°
Efficiency 93 %
Peak intensity 6.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



CREE

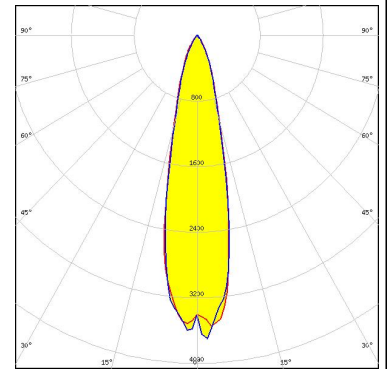
LED XQ-E HD
FWHM 8.0°
Efficiency 92 %
Peak intensity 21.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED LUXEON 5050 Round LES
 FWHM 23.0°
 Efficiency 91 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

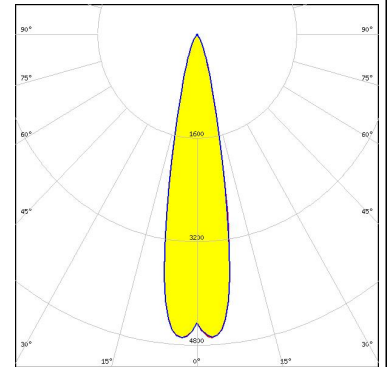


LUMILEDS

LED LUXEON 5050 Square LES
 FWHM 25.0°
 Efficiency 94 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

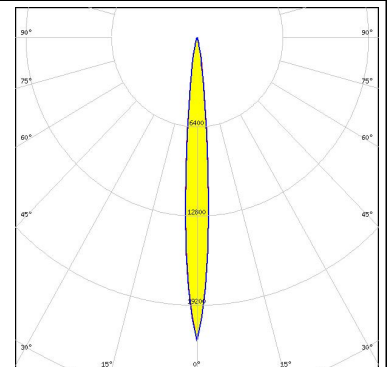
NICHIA

LED NV4WB35AM
 FWHM 22.0°
 Efficiency 94 %
 Peak intensity 4.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors
 LED OSCONIQ P 3030
 FWHM 9.0°
 Efficiency 94 %
 Peak intensity 21.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

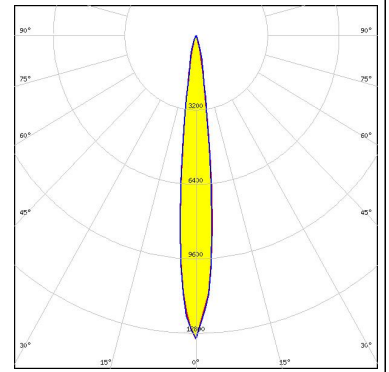


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

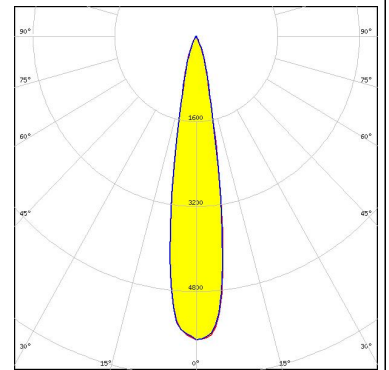
LED OSCONIQ P 3737 (2W version)
FWHM 12.0°
Efficiency 89 %
Peak intensity 13 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

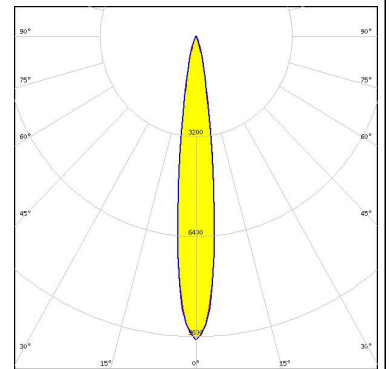
LED OSCONIQ P 3737 (3W version)
FWHM 19.0°
Efficiency 93 %
Peak intensity 6.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

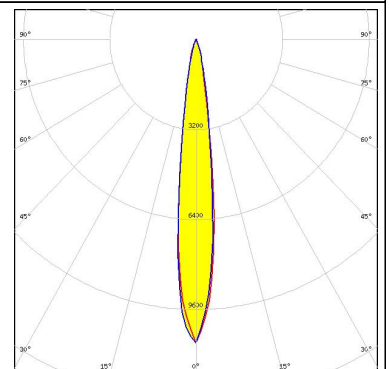
Opto Semiconductors

LED OSCONIQ P 3737 Flat
FWHM 14.0°
Efficiency 94 %
Peak intensity 9.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

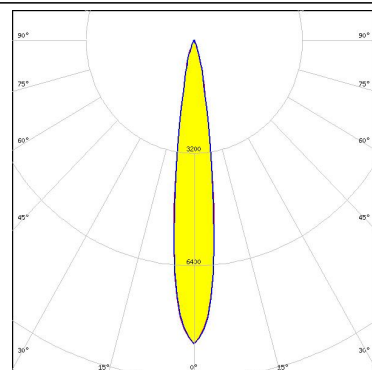
LED LH181B
FWHM 13.0°
Efficiency 93 %
Peak intensity 10.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

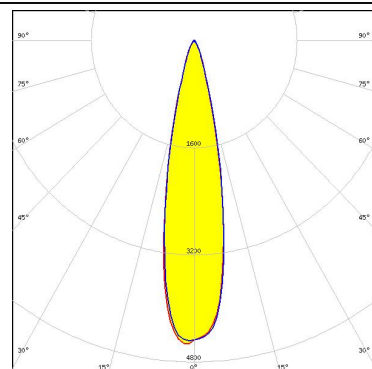
SAMSUNG

LED LH231B
FWHM 16.0°
Efficiency 93 %
Peak intensity 8.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



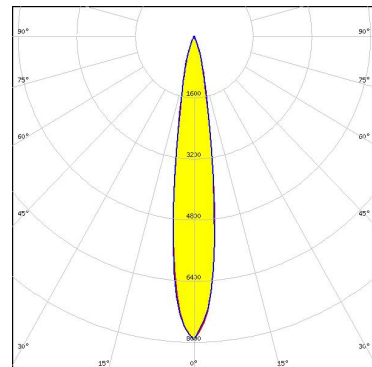
SAMSUNG

LED LH351D
FWHM 22.0°
Efficiency 93 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SEOUL SEMICONDUCTOR

LED Z8Y22T
FWHM 15.0°
Efficiency 93 %
Peak intensity 7.9 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)