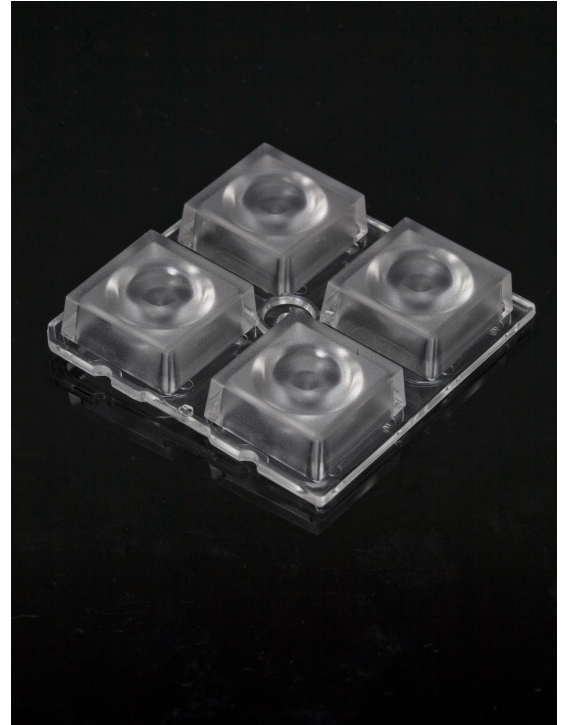


HB-2X2-RW

~50° wide beam optimized for CREE XP-L and XM-L

TECHNICAL SPECIFICATIONS:

| | |
|-----------------|--------------------|
| Dimensions | 50.0 mm |
| Height | 8.5 mm |
| Fastening | pin, screw |
| Colour | clear |
| Box size | 476 x 273 x 292 mm |
| Box weight | 9.1 kg |
| Quantity in Box | 800 pcs |
| ROHS compliant | yes ⓘ |



MATERIAL SPECIFICATIONS:

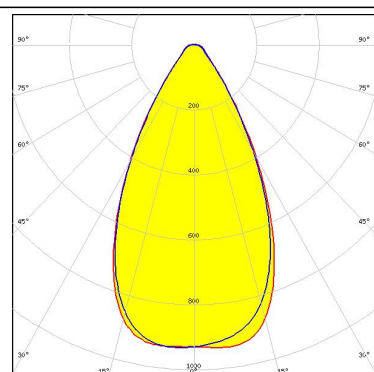
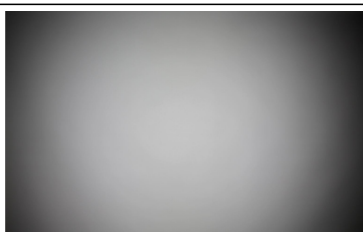
| Component | Type | Material | Colour |
|-----------|------------|----------|--------|
| HB-2X2-RW | Multi-lens | PMMA | clear |



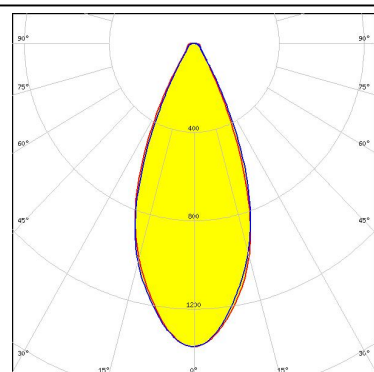
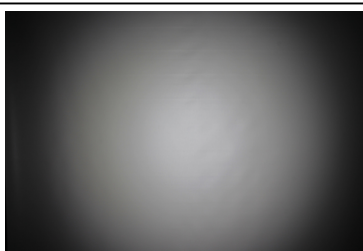
PHOTOMETRIC DATA (MEASURED):



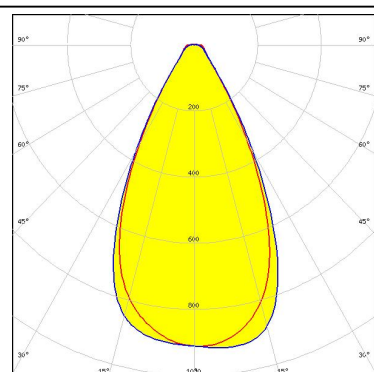
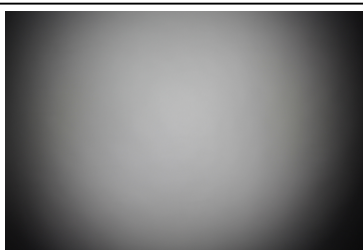
LED Bridgelux SMD 5050
 FWHM 56.0°
 Efficiency 94 %
 Peak intensity 0.940 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



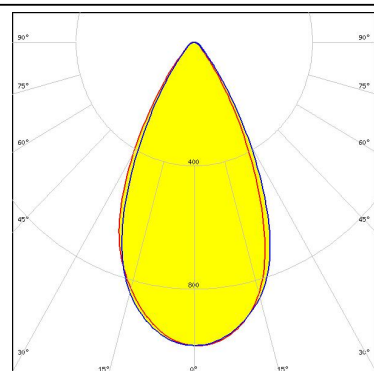
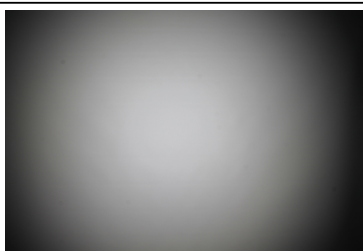
LED XD16
 FWHM 44.0°
 Efficiency 90 %
 Peak intensity 1.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XD16
 FWHM 54.0°
 Efficiency 92 %
 Peak intensity 0.920 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:



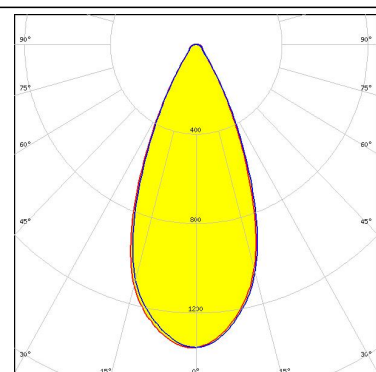
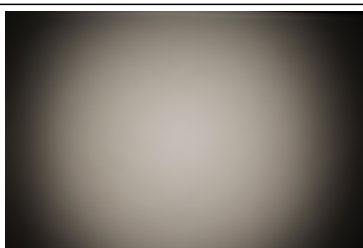
LED XHP35 HD
 FWHM 53.0°
 Efficiency 84 %
 Peak intensity 0.990 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



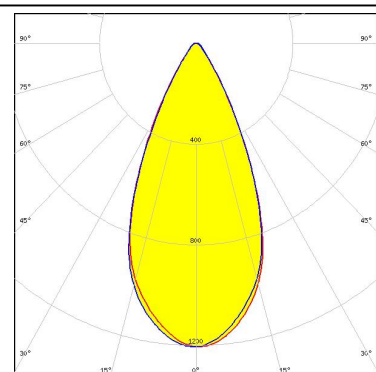
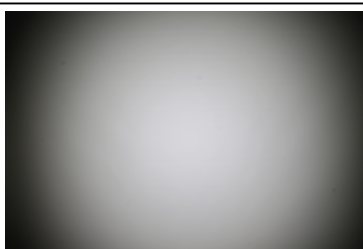
PHOTOMETRIC DATA (MEASURED):



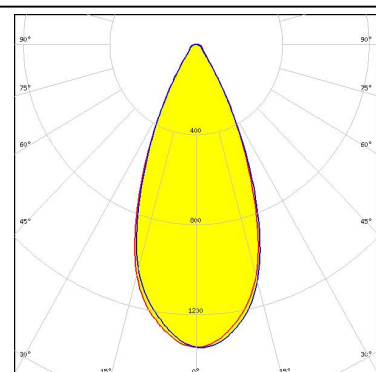
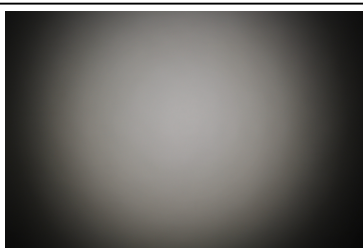
LED XP-G2
FWHM 45.0°
Efficiency 94 %
Peak intensity 1.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



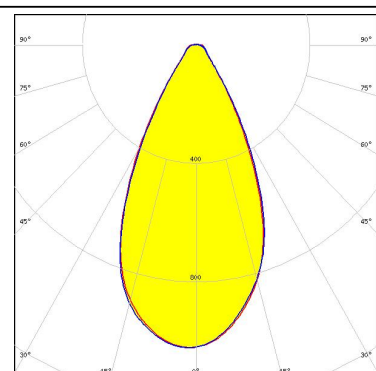
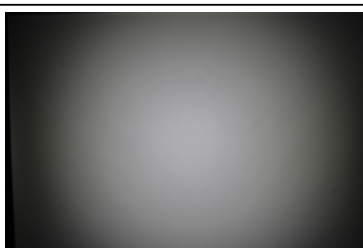
LED XP-G3
FWHM 48.0°
Efficiency 86 %
Peak intensity 1.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XP-L HI
FWHM 45.0°
Efficiency 92 %
Peak intensity 1.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



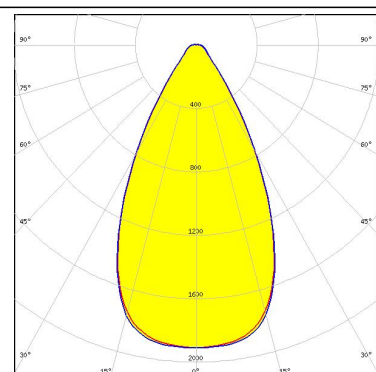
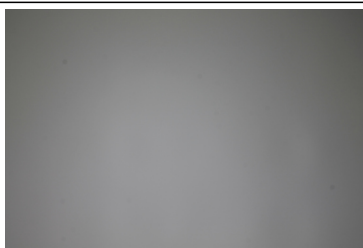
LED XP-L2
FWHM 52.0°
Efficiency 92 %
Peak intensity 1.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



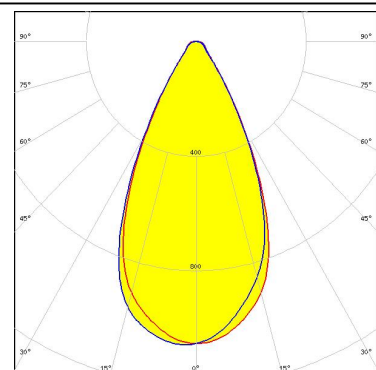
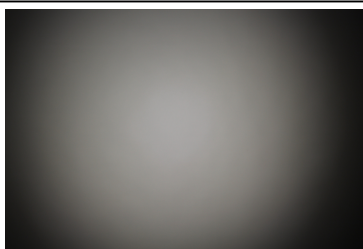
PHOTOMETRIC DATA (MEASURED):



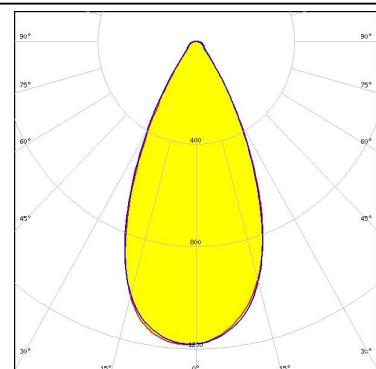
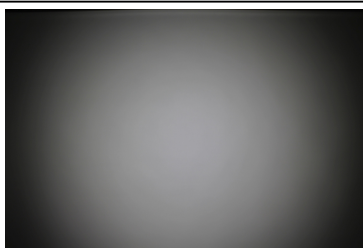
LED LUXEON 5050
FWHM 55.0°
Efficiency 94 %
Peak intensity 0.990 cd/lm
LEDs/each optic 1
Light colour White
Required components:



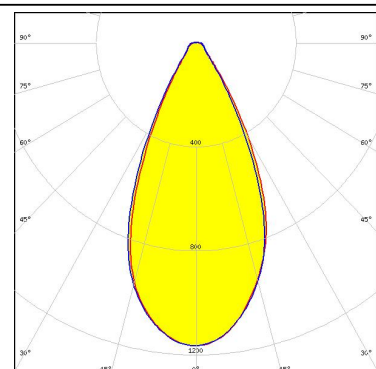
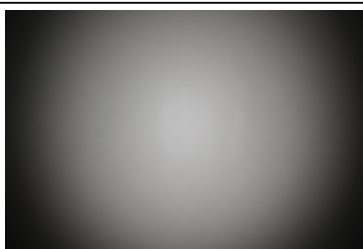
LED LUXEON V
FWHM 52.0°
Efficiency 93 %
Peak intensity 1.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSW319B
FWHM 50.0°
Efficiency 94 %
Peak intensity 1.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



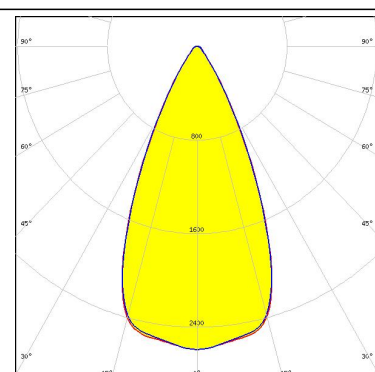
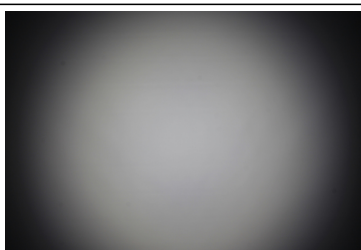
LED NVSW3x9A
FWHM 50.0°
Efficiency 93 %
Peak intensity 1.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

OSRAM

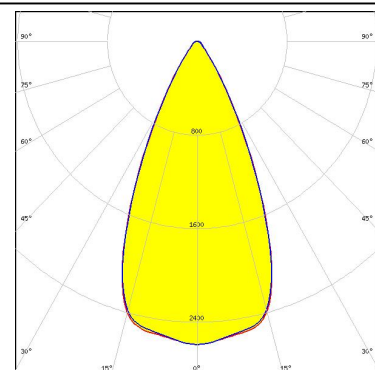
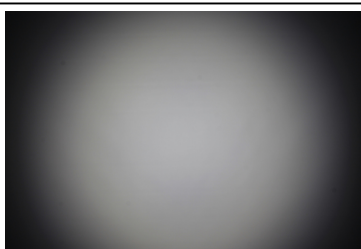
LED PrevaLED Brick DC 2x8
FWHM 49.0°
Efficiency 94 %
Peak intensity 1.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

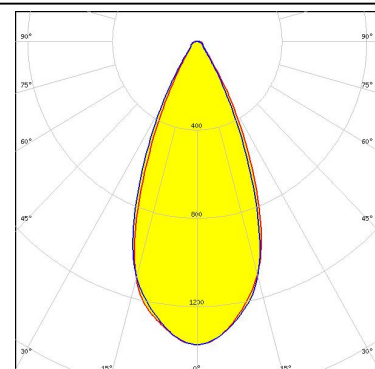
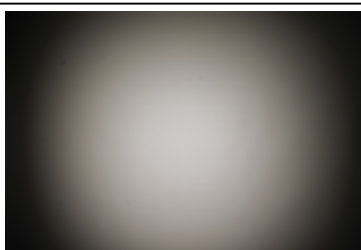
Opto Semiconductors

LED Oslon Square Gen3
FWHM 49.0°
Efficiency 94 %
Peak intensity 1.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



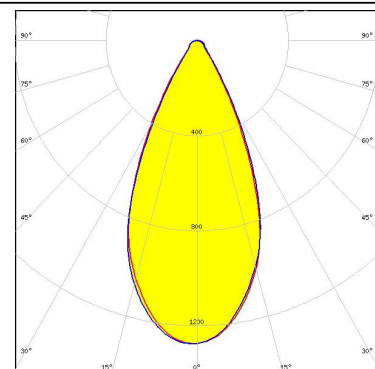
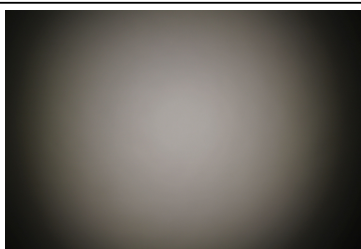
PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4
FWHM 45.0°
Efficiency 93 %
Peak intensity 1.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

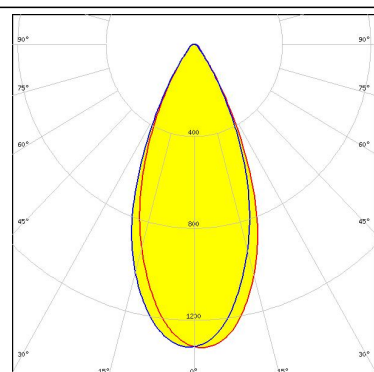
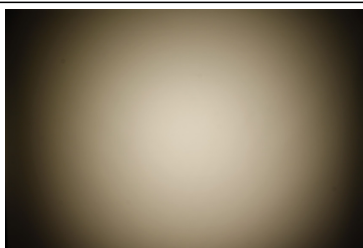
LED HiLOM RH16 (LH351C)
FWHM 48.0°
Efficiency 94 %
Peak intensity 1.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

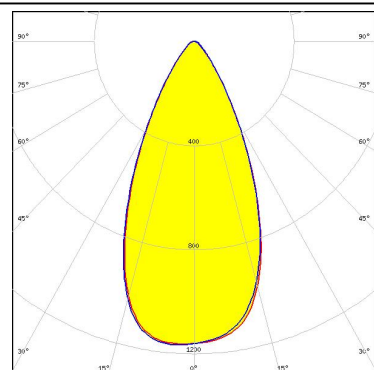
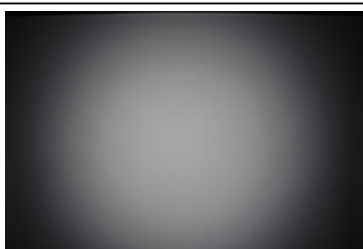
SAMSUNG

LED LH351B
FWHM 45.0°
Efficiency 86 %
Peak intensity 1.320 cd/lm
LEDs/each optic 1
Light colour White
Required components:



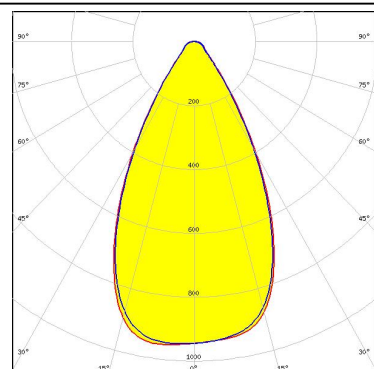
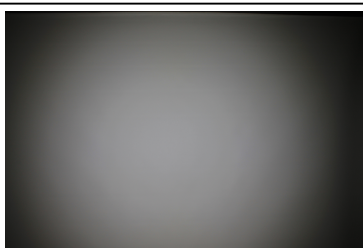
SAMSUNG

LED LH351D
FWHM 49.0°
Efficiency 94 %
Peak intensity 0.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



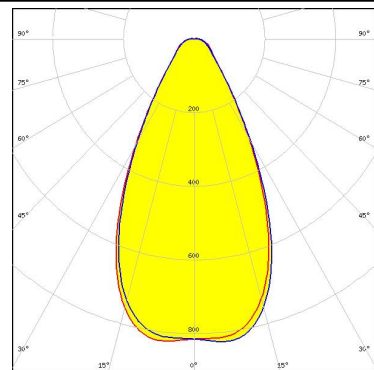
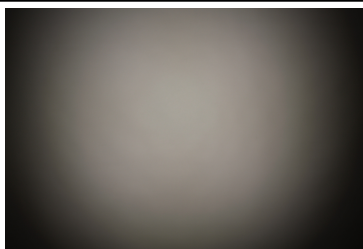
SAMSUNG

LED LH508A
FWHM 56.0°
Efficiency 93 %
Peak intensity 0.950 cd/lm
LEDs/each optic 1
Light colour White
Required components:


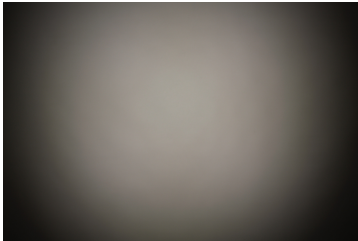
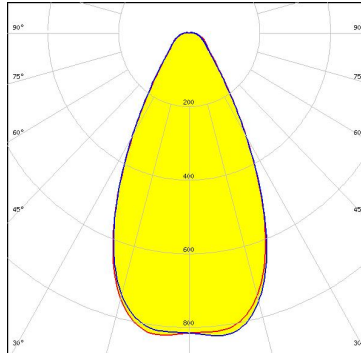

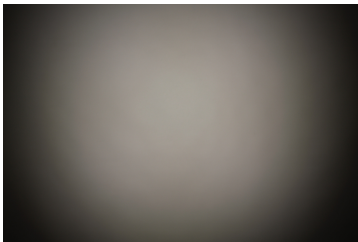
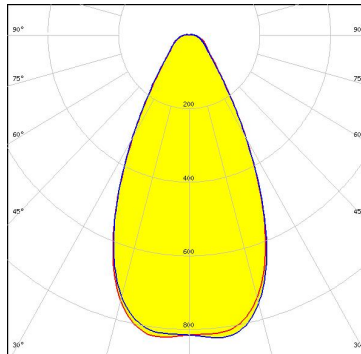

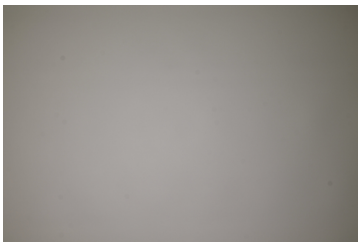
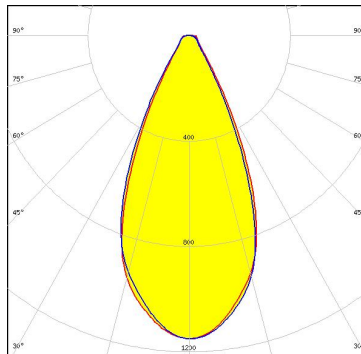


SEOUL SEMICONDUCTOR

LED 2x2 Y22 module - SMJQ-D48W16AA-XX
FWHM 54.0°
Efficiency 92 %
Peak intensity 0.840 cd/lm
LEDs/each optic 1
Light colour White
Required components:



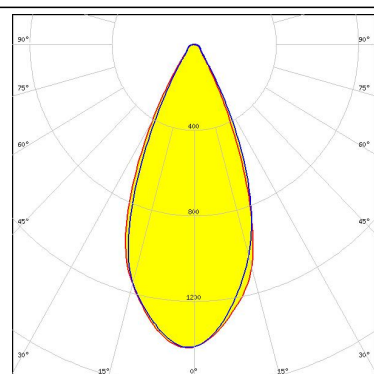
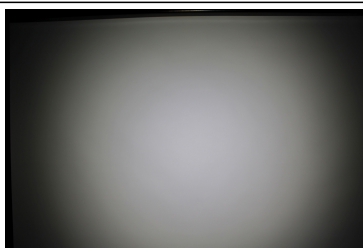
PHOTOMETRIC DATA (MEASURED):

| | | |
|--|--|---|
| <p> SEOUL SEMICONDUCTOR</p> <p>LED Z8Y19 FWHM 54.0° Efficiency 92 % Peak intensity 0.840 cd/lm LEDs/each optic 4 Light colour White Required components:</p> |  |  |
| <p> SEOUL SEMICONDUCTOR</p> <p>LED Z8Y19 FWHM 54.0° Efficiency 92 % Peak intensity 0.840 cd/lm LEDs/each optic 4 Light colour White Required components:</p> |  |  |
| <p> SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22P FWHM 48.0° Efficiency 92 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |
| <p>TRIDONIC</p> <p>LED RLE 2x4 2000lm HP EXC2 OTD FWHM 46.0° Efficiency 94 % Peak intensity 1.400 cd/lm LEDs/each optic 1 Light colour White Required components:</p> | | |

PHOTOMETRIC DATA (MEASURED):

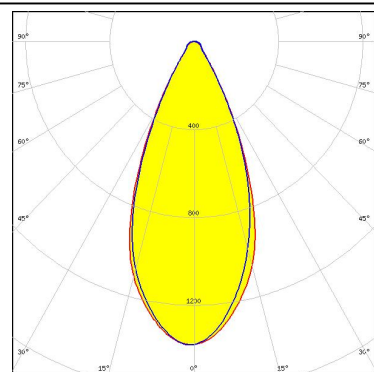
TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD
 FWHM 46.0°
 Efficiency 94 %
 Peak intensity 1.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



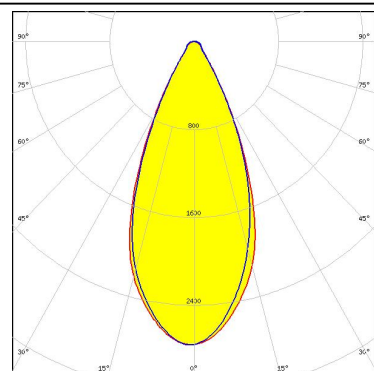
TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD
 FWHM 46.0°
 Efficiency 94 %
 Peak intensity 1.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



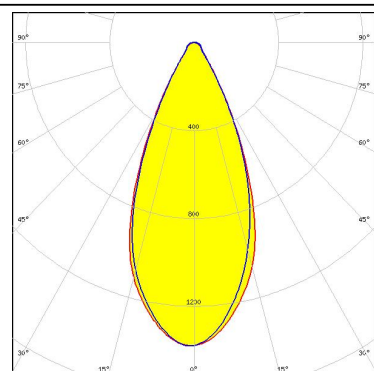
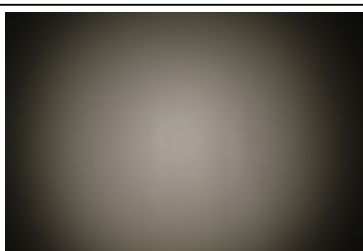
TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD
 FWHM 46.0°
 Efficiency 94 %
 Peak intensity 1.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



TRIDONIC

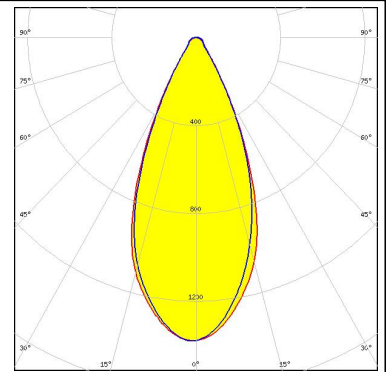
LED RLE G1 49x223mm 4000lm xxx EXC OTD
 FWHM 46.0°
 Efficiency 94 %
 Peak intensity 1.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

TRIDONIC

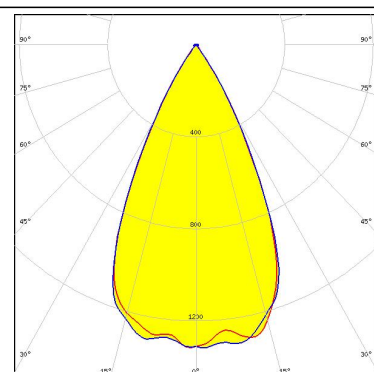
LED RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM 46.0°
Efficiency 94 %
Peak intensity 1.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



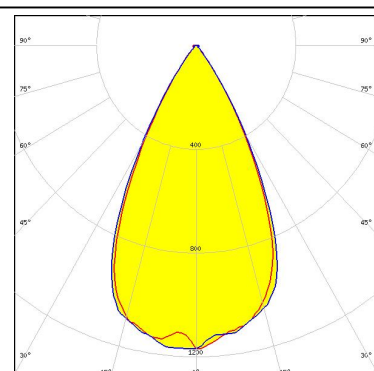
PHOTOMETRIC DATA (SIMULATED):



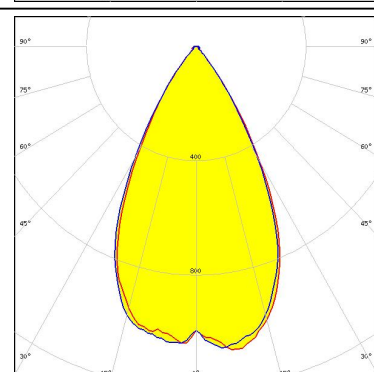
LED XHP35 HI
FWHM 52.0°
Efficiency 93 %
Peak intensity 1.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



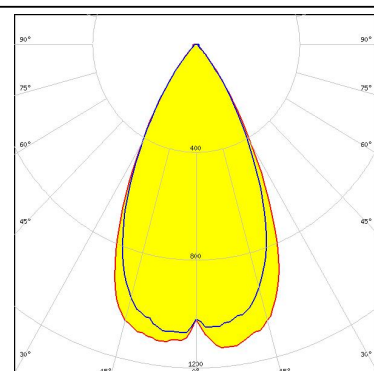
LED XM-L
FWHM 54.0°
Efficiency 92 %
Peak intensity 1.180 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XP-L HD
FWHM 55.0°
Efficiency 93 %
Peak intensity 1.080 cd/lm
LEDs/each optic 1
Light colour White
Required components:



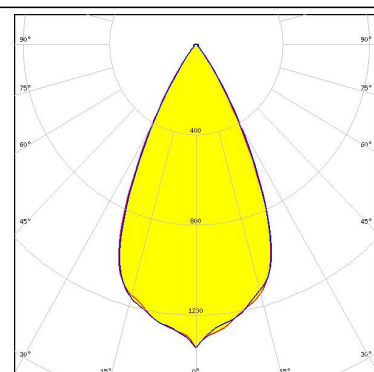
LED Duris S8
FWHM 53.0°
Efficiency 91 %
Peak intensity 1.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

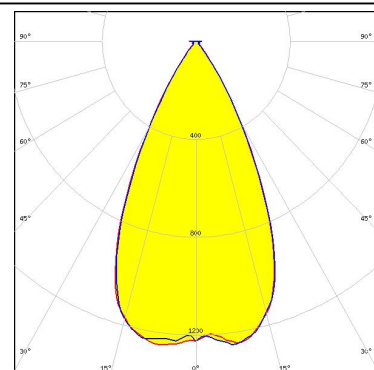
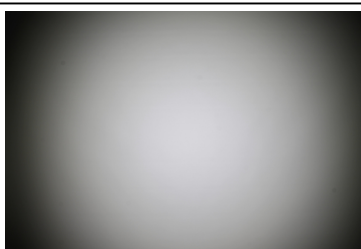
OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 (3W version)
FWHM 52.0°
Efficiency 94 %
Peak intensity 1.350 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHILIPS

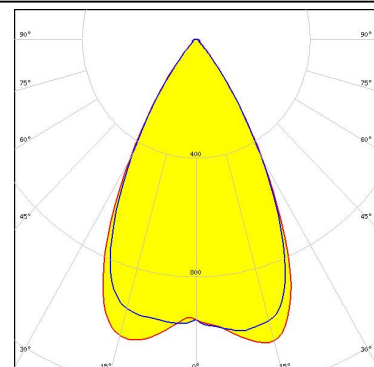
LED Fortimo FastFlex LED 2x8 DAX G4
FWHM 51.0°
Efficiency 94 %
Peak intensity 1.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SEOUL

SEOUL SEMICONDUCTOR

LED SEOUL DC 5050 6V
FWHM 54.0°
Efficiency 94 %
Peak intensity 1.100 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.

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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

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

Shipping locations

Salu, Finland
Hong Kong, China

Distribution Partners

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