

LISA3-WW-PIN

~45° wide beam with location pin installation

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 9.9 mm
Height	7 mm
Fastening	pin
ROHS compliant	yes 

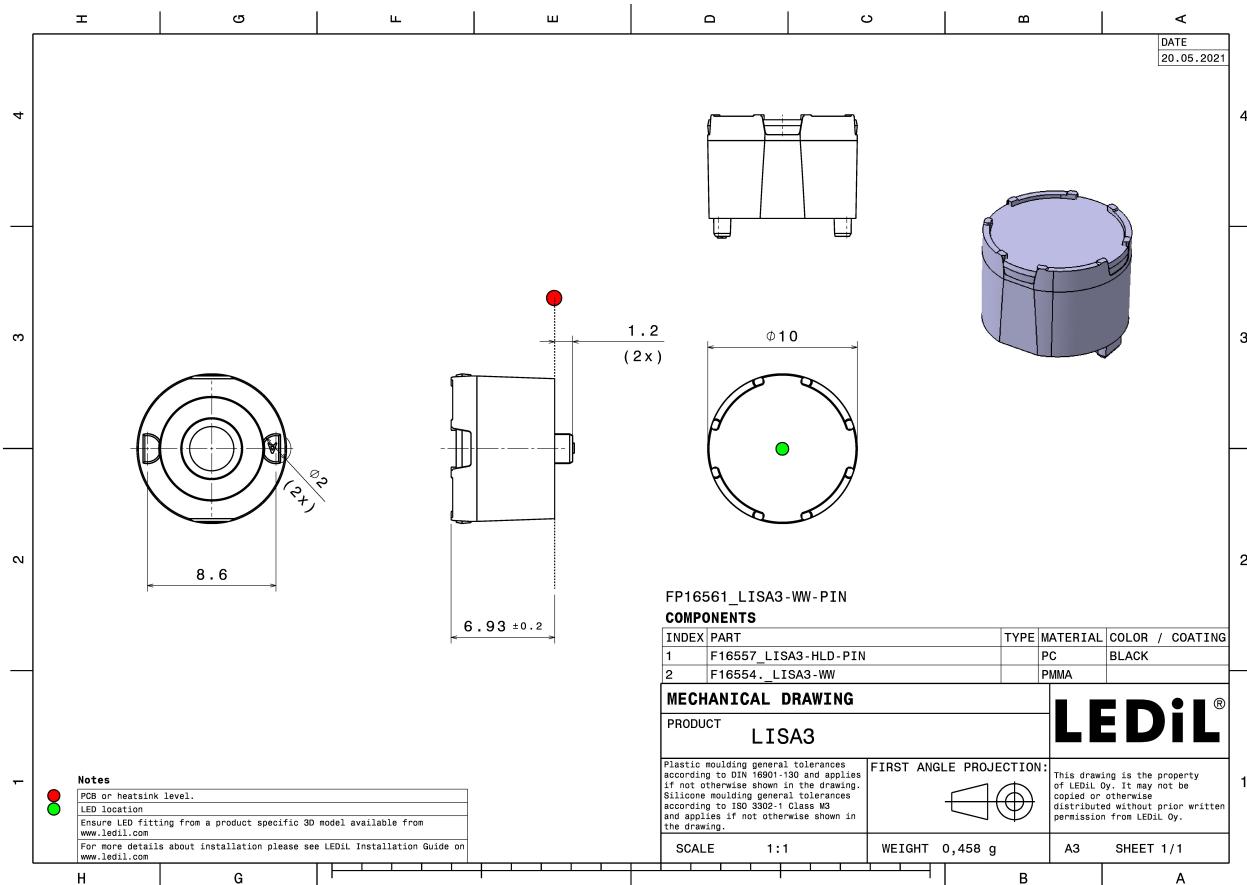


MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
LISA3-WW	Single lens	PMMA	clear	
LISA3-HLD-PIN	Holder	PC	black	

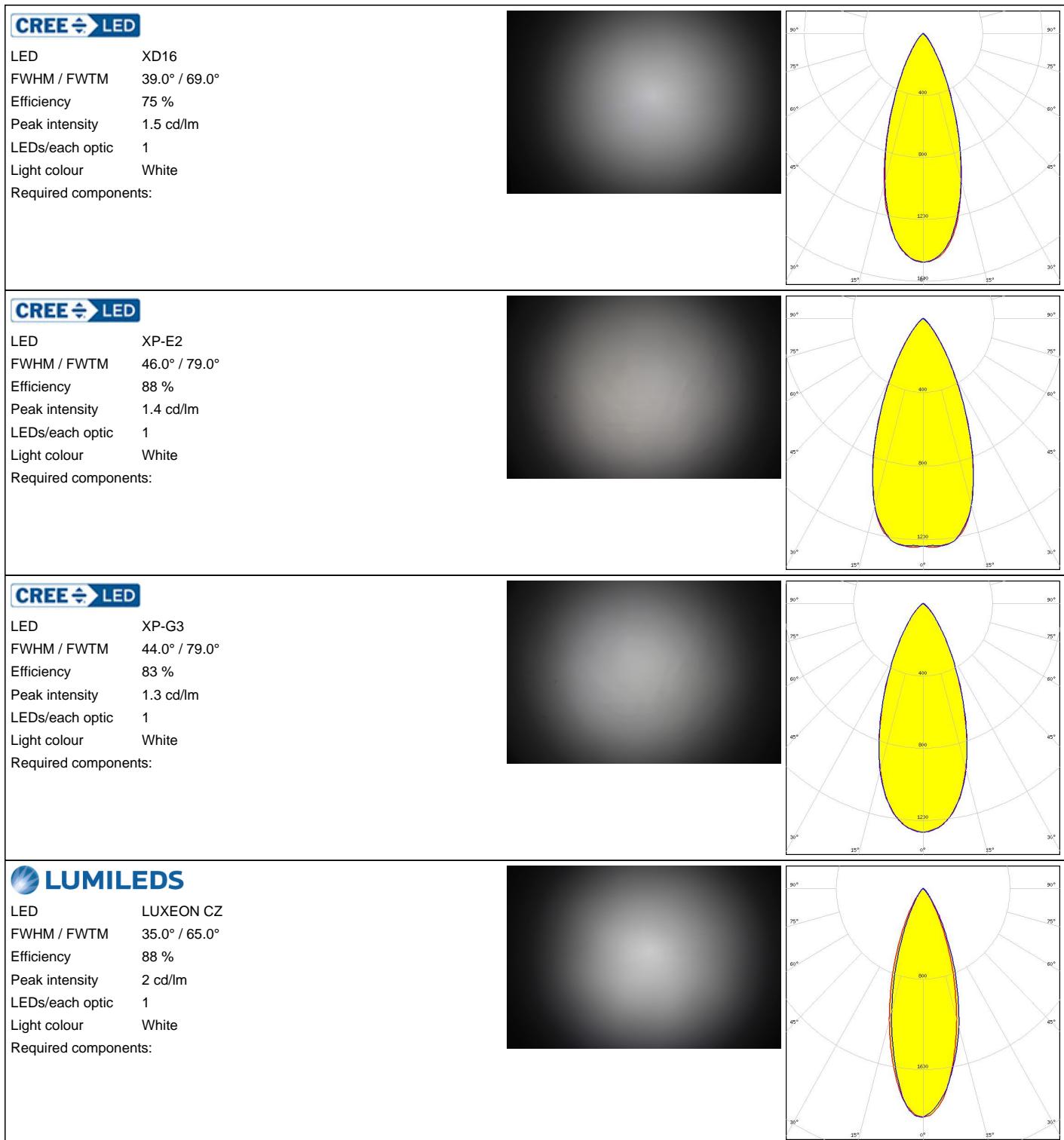
ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
FP16561_LISA3-WW-PIN » Box size: 310 x 230 x 60 mm	Single lens	2000	300	100	1.4



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

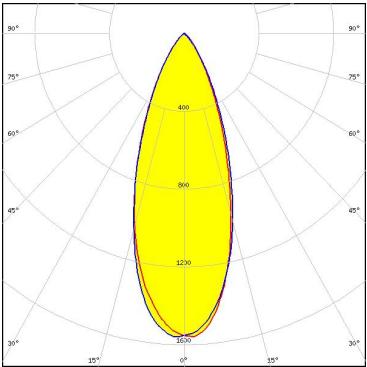
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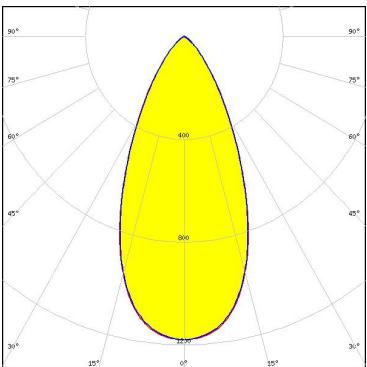
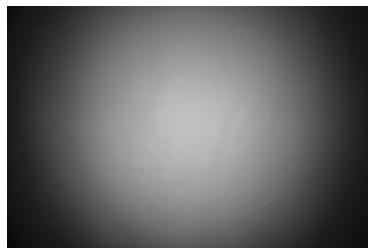
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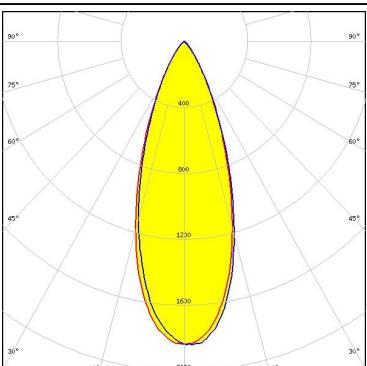
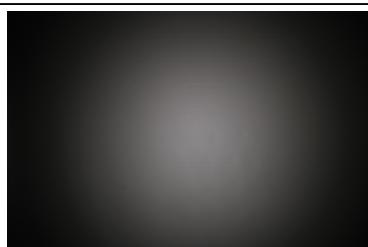
LED NF2x757G
FWHM / FWTM 38.0° / 71.0°
Efficiency 79 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



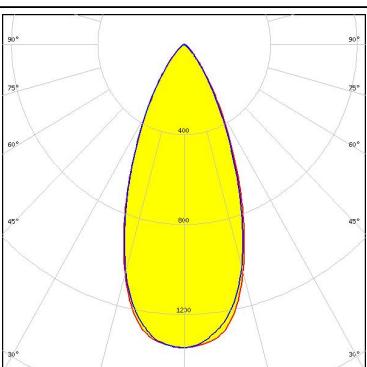
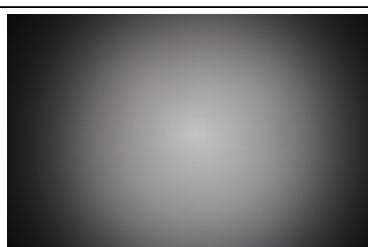
LED NVSW219F
FWHM / FWTM 48.0° / 84.0°
Efficiency 87 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM
Opto Semiconductors
LED OSCONIQ C 2424
FWHM / FWTM 37.0° / 67.0°
Efficiency 86 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



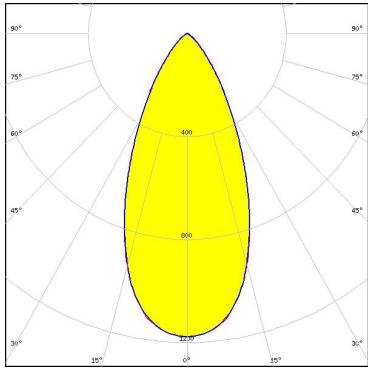
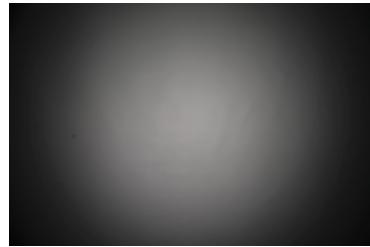
OSRAM
Opto Semiconductors
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 45.0° / 77.0°
Efficiency 87 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

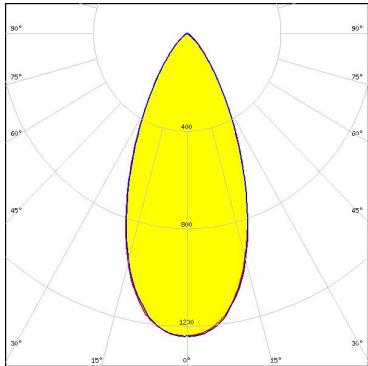
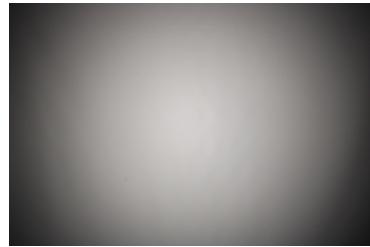
SAMSUNG

LED LH351C
FWHM / FWTM 47.0° / 83.0°
Efficiency 87 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

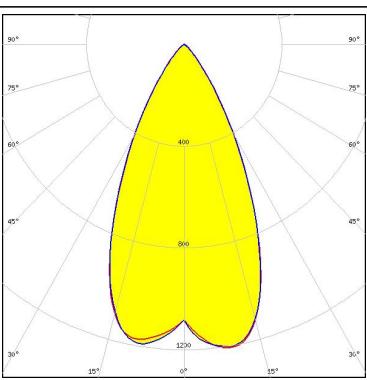
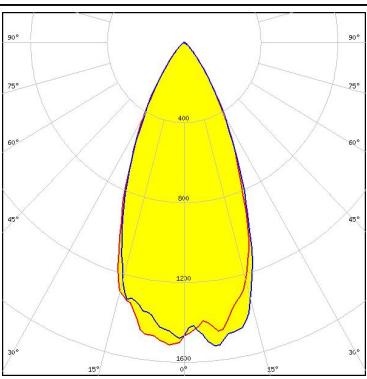
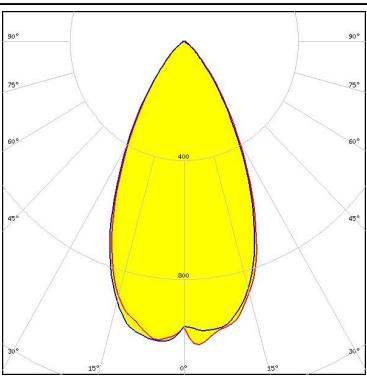
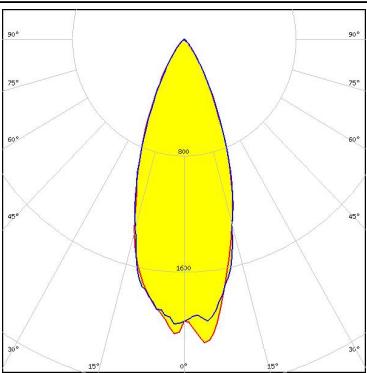


SEOUL SEMICONDUCTOR

LED Z5M4
FWHM / FWTM 46.0° / 81.0°
Efficiency 86 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

<p>CREE → LED</p> <p>LED XP-E FWHM / FWTM 51.0° / 79.0° Efficiency 91 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>CREE → LED</p> <p>LED XP-G2 FWHM / FWTM 49.0° / 78.0° Efficiency 90 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>CREE → LED</p> <p>LED XP-G2 HE FWHM / FWTM 53.0° / 87.0° Efficiency 86 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>CREE → LED</p> <p>LED XT-E FWHM / FWTM 44.0° / 73.0° Efficiency 87 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED LUXEON 3014

FWHM / FWTM 38.0° / 65.0°

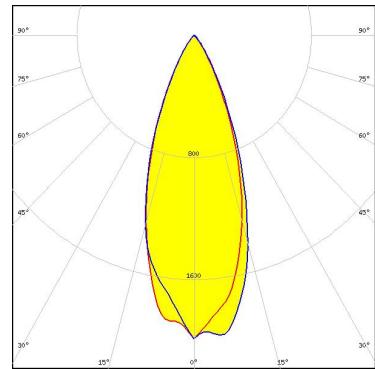
Efficiency 90 %

Peak intensity 2 cd/lm

LEDs/each optic 1

Light colour White

Required components:



LUMILEDS

LED LUXEON 3030 2D (Round LES)

FWHM / FWTM 37.0° / 65.0°

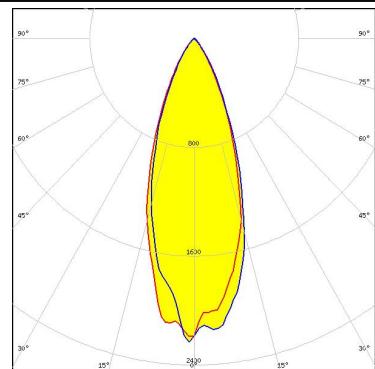
Efficiency 86 %

Peak intensity 1.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:



LUMILEDS

LED LUXEON TX

FWHM / FWTM 45.0° / 74.0°

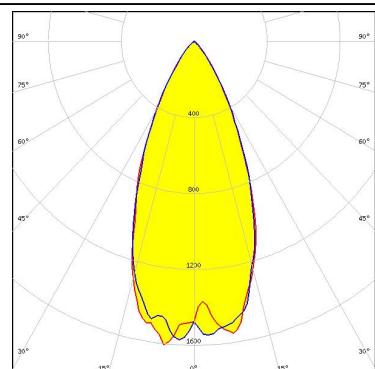
Efficiency 87 %

Peak intensity 1.4 cd/lm

LEDs/each optic 1

Light colour White

Required components:



LUMILEDS

LED LUXEON V2

FWHM / FWTM 44.0° / 76.0°

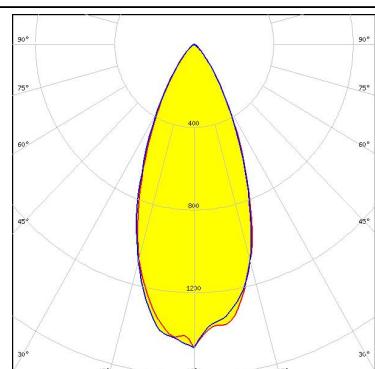
Efficiency 89 %

Peak intensity 1.5 cd/lm

LEDs/each optic 1

Light colour White

Required components:

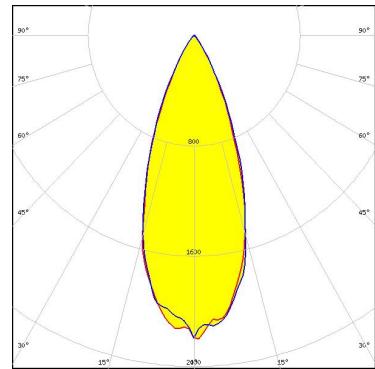


PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED	LUXEON Z
FWHM / FWTM	38.5° / 63.0°
Efficiency	89 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

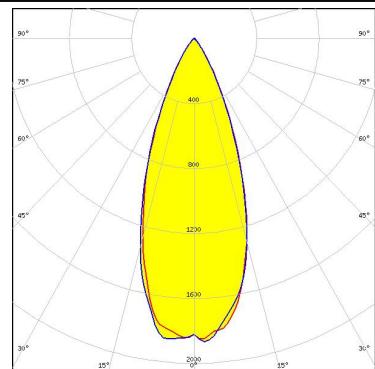
Required components:



LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	40.0° / 66.0°
Efficiency	90 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

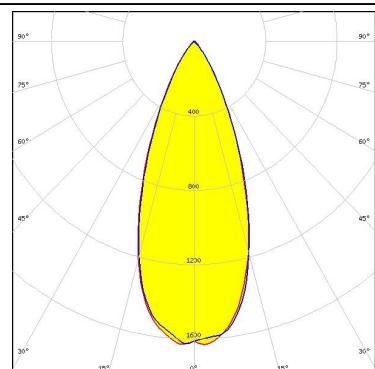
Required components:



LUMINUS

LED	SST-20
FWHM / FWTM	41.0° / 70.0°
Efficiency	88 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

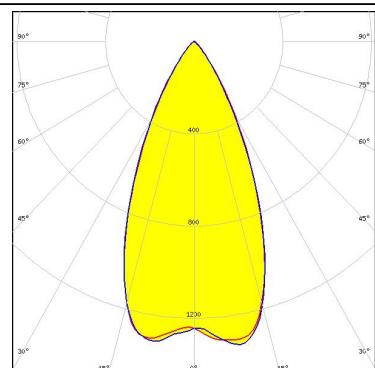
Required components:



NICHIA

LED	NCSU276C
FWHM / FWTM	49.0° / 77.0°
Efficiency	91 %
LEDs/each optic	1
Light colour	UV-A

Required components:

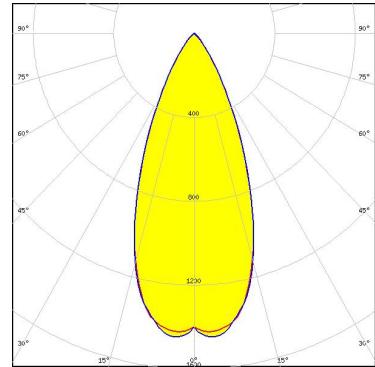


PHOTOMETRIC DATA (SIMULATED):



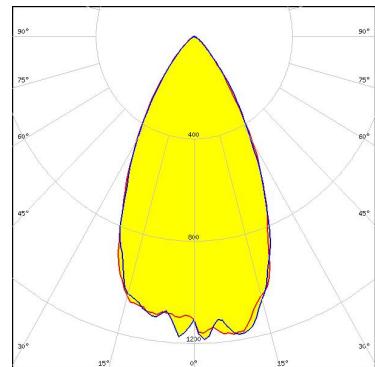
LED	NCSxx19B
FWHM / FWTM	44.0° / 72.0°
Efficiency	84 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



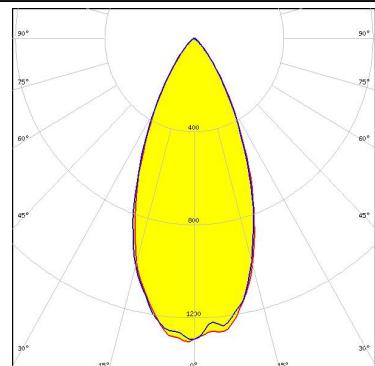
LED	NVSW219D
FWHM / FWTM	50.0° / 80.0°
Efficiency	86 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



LED	NVSxx19B/NVSxx19C
FWHM / FWTM	45.0° / 78.0°
Efficiency	85 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

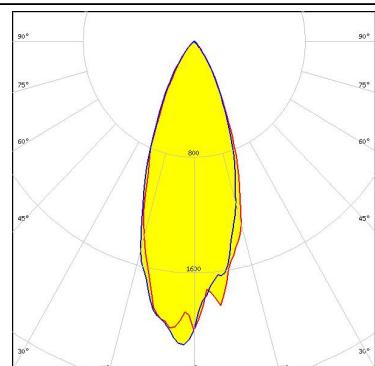
Required components:



Opto Semiconductors

LED	Duris S5 (2 chip)
FWHM / FWTM	36.0° / 66.0°
Efficiency	88 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



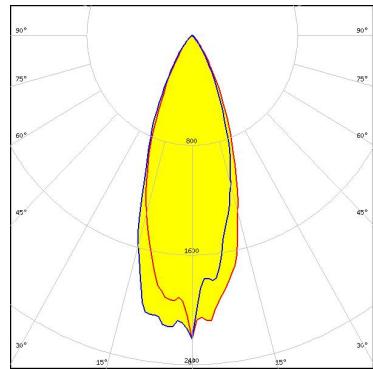
PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED	Duris S5 (Single chip)
FWHM / FWTM	37.0° / 64.0°
Efficiency	86 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

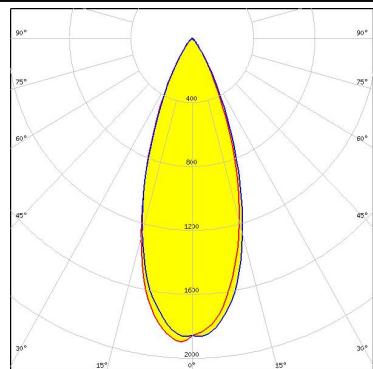


OSRAM

Opto Semiconductors

LED	OSCONIQ P 3030
FWHM / FWTM	38.0° / 66.0°
Efficiency	87 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

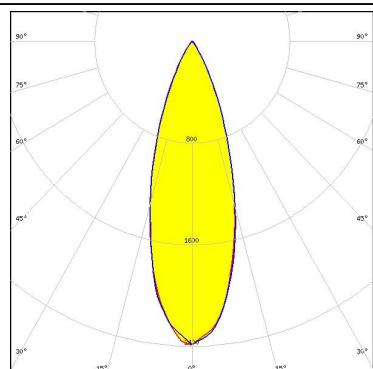


OSRAM

Opto Semiconductors

LED	OSLON Black
FWHM / FWTM	33.0° / 60.0°
Efficiency	90 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

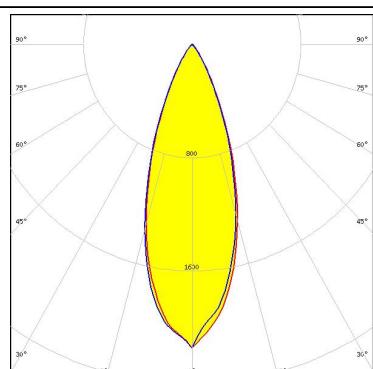


OSRAM

Opto Semiconductors

LED	OSLON Black Flat
FWHM / FWTM	36.0° / 64.0°
Efficiency	90 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	Red

Required components:



PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED OSLON Square EC

FWHM / FWTM 44.0° / 75.0°

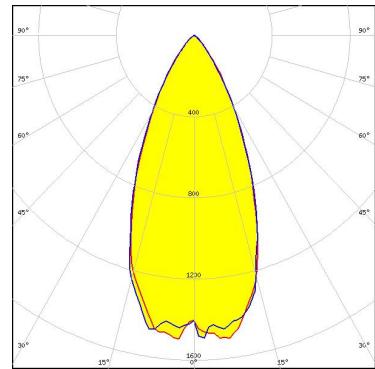
Efficiency 88 %

Peak intensity 1.4 cd/lm

LEDs/each optic 1

Light colour White

Required components:



OSRAM

Opto Semiconductors

LED OSLON SSL 150

FWHM / FWTM 45.0° / 73.0°

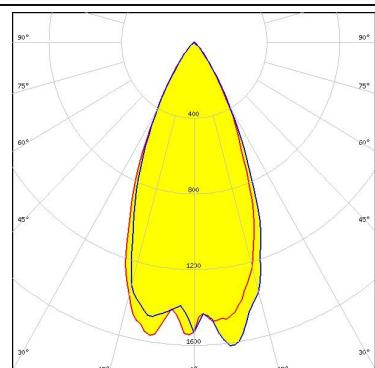
Efficiency 90 %

Peak intensity 1.4 cd/lm

LEDs/each optic 1

Light colour White

Required components:



OSRAM

Opto Semiconductors

LED SFH 4715AS

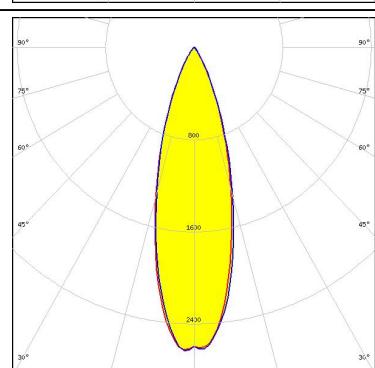
FWHM / FWTM 30.0° / 57.0°

Efficiency 89 %

LEDs/each optic 1

Light colour IR

Required components:



OSRAM

Opto Semiconductors

LED Synios P2720 1 mm

FWHM / FWTM 37.0° / 64.0°

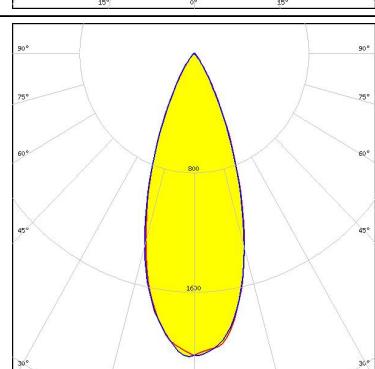
Efficiency 90 %

Peak intensity 2 cd/lm

LEDs/each optic 1

Light colour Red

Required components:



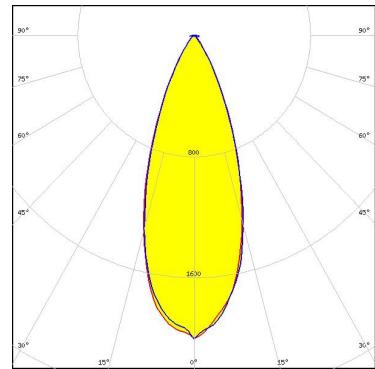
PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED	SYNOS S2222 (KW DDLM31)
FWHM / FWTM	37.0 + 38.0° / 66.0°
Efficiency	97 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

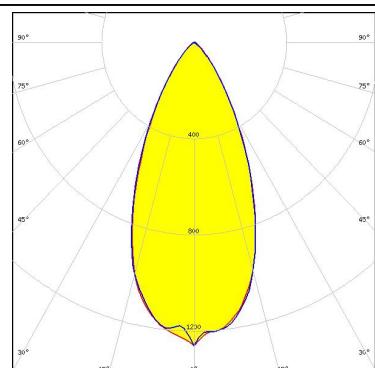
Required components:



SAMSUNG

LED	LH351B
FWHM / FWTM	47.0° / 80.0°
Efficiency	88 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White

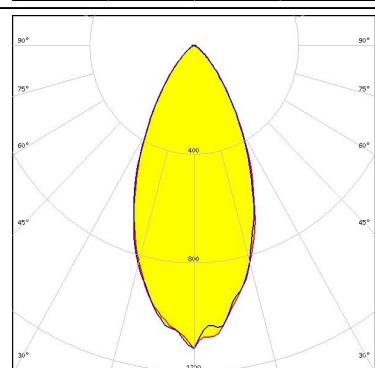
Required components:



SAMSUNG

LED	LH351D
FWHM / FWTM	47.0° / 86.0°
Efficiency	84 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

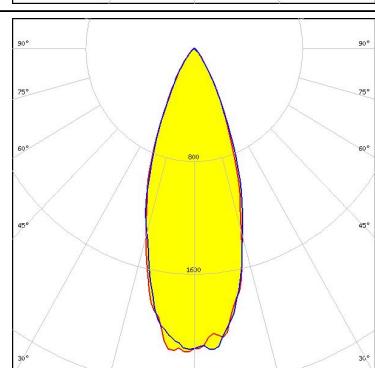
Required components:



SAMSUNG

LED	LM301A
FWHM / FWTM	36.0° / 76.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

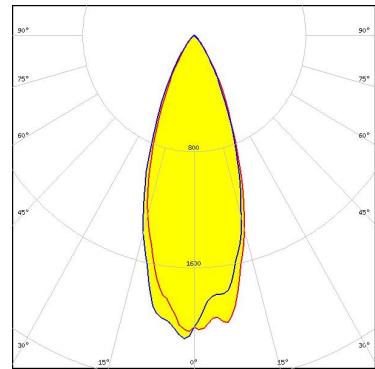
Required components:



PHOTOMETRIC DATA (SIMULATED):

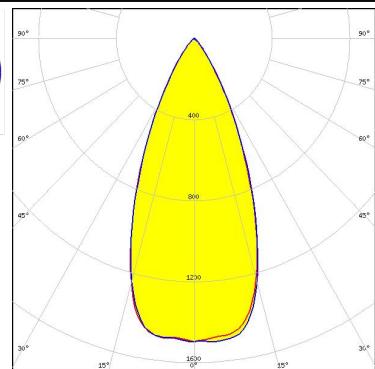
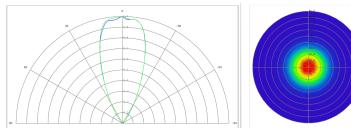
SAMSUNG

LED LM302A
 FWHM / FWTM 38.0° / 68.0°
 Efficiency 88 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



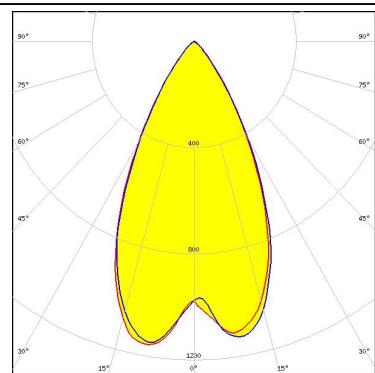
STANLEY

LED FWR1108MS
 FWHM / FWTM 44.0° / 71.0°
 Efficiency 90 %
 LEDs/each optic 1
 Light colour IR
 Required components:



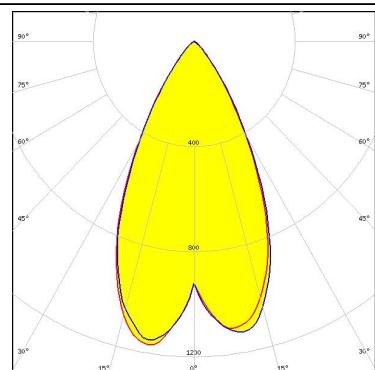
STANLEY

LED MFN1108MS
 FWHM / FWTM 54.0° / 82.0°
 Efficiency 92 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour IR
 Required components:



STANLEY

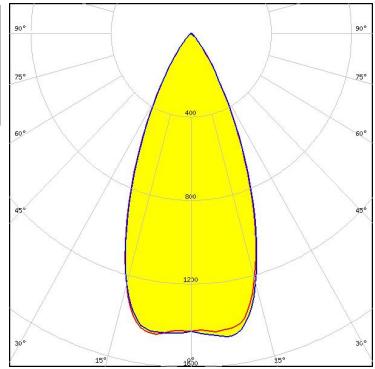
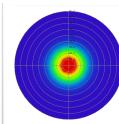
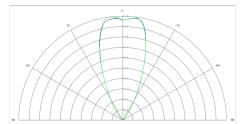
LED MGN1108MS
 FWHM / FWTM 54.0° / 82.0°
 Efficiency 92 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour IR
 Required components:



PHOTOMETRIC DATA (SIMULATED):

STANLEY

LED MJN1108MS
FWHM / FWTM 45.0° / 71.0°
Efficiency 91 %
LEDs/each optic 1
Light colour IR
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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