

LISA3-M-PIN

~25° medium beam with location pin installation

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 10.0 mm
Height	7.9 mm
Fastening	glue
ROHS compliant	yes 

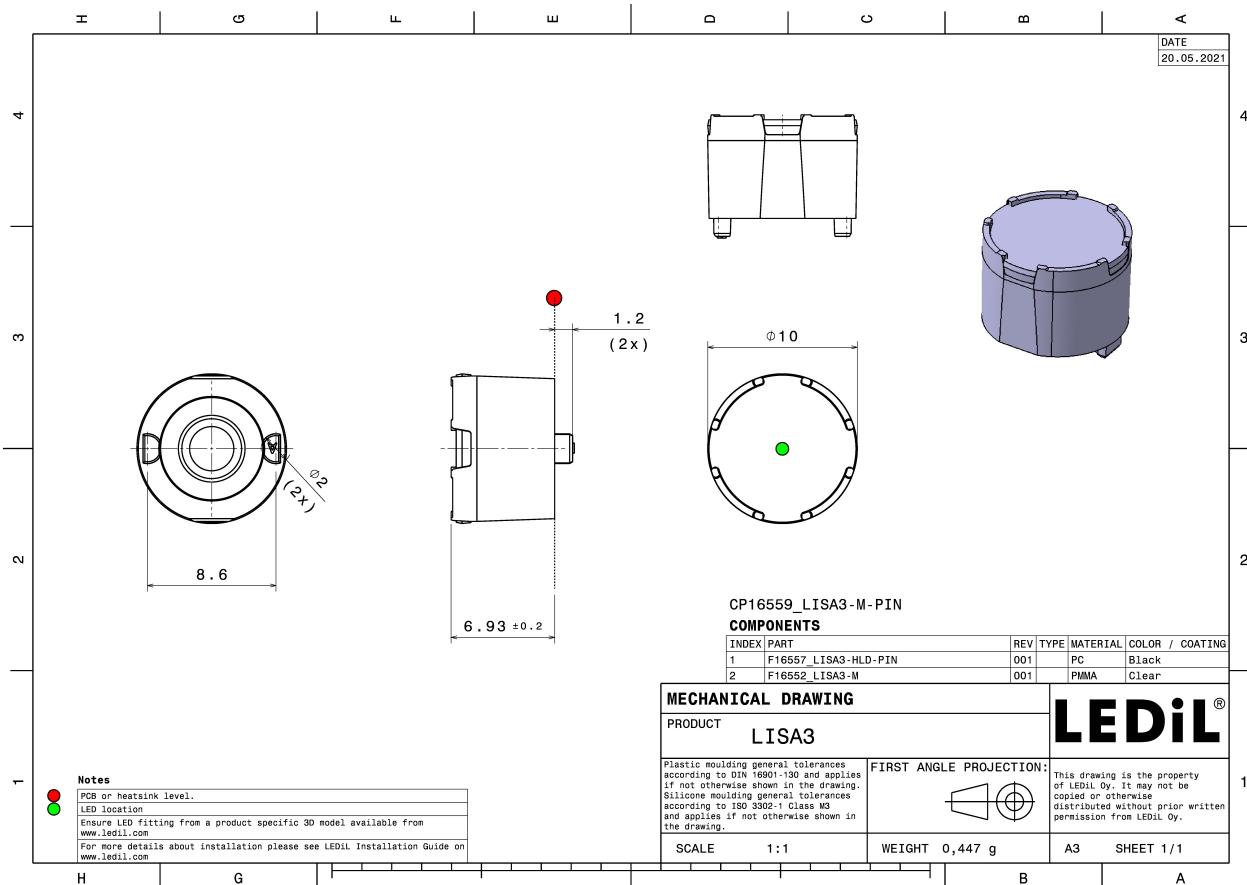


MATERIAL SPECIFICATIONS:

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

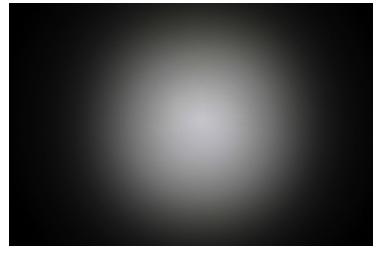
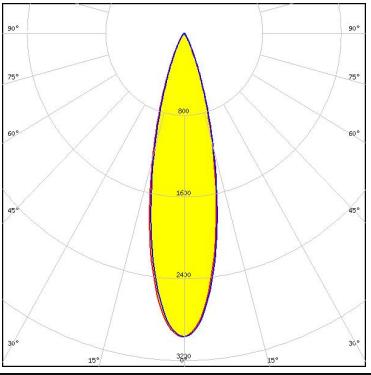
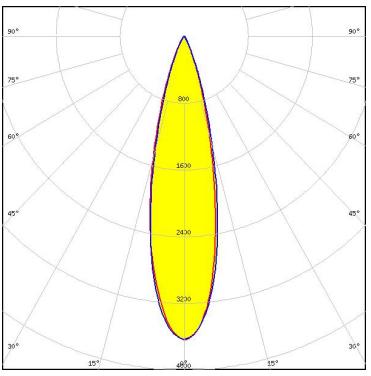
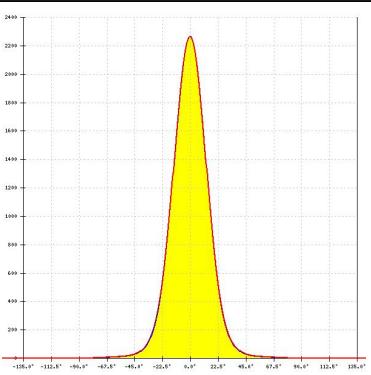
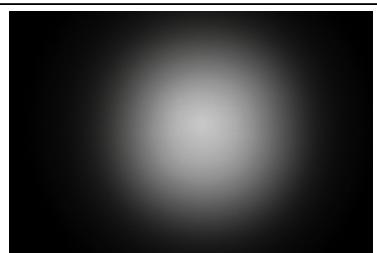
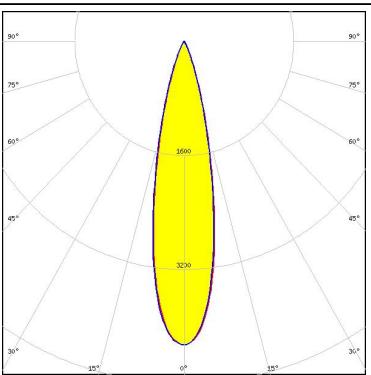
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)	
FP16559_LISA3-M-PIN » Box size: 310 x 230 x 60 mm	Single lens	2000	300	100	1.3



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

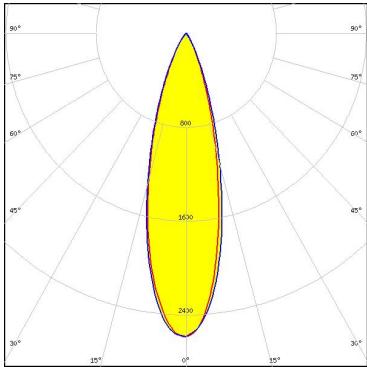
PHOTOMETRIC DATA (MEASURED):

	<p>LED XD16 FWHM / FWTM 26.0° / 49.0° Efficiency 76 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
	<p>LED XP-E2 FWHM / FWTM 25.0° / 47.0° Efficiency 88 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
	<p>LED XP-G3 FWHM / FWTM 31.0° / 58.0° Efficiency 81 % Peak intensity 2.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
	<p>LED LUXEON CZ FWHM / FWTM 23.0° / 43.0° Efficiency 87 % Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

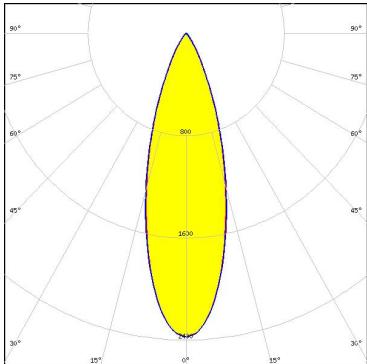
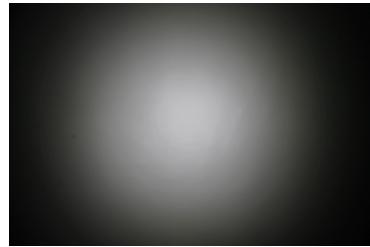
PHOTOMETRIC DATA (MEASURED):



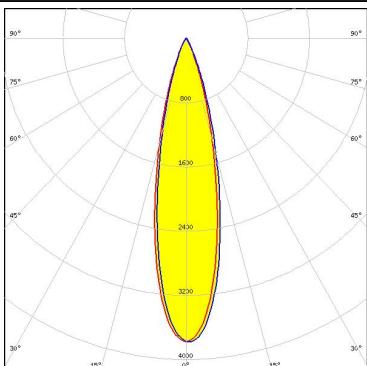
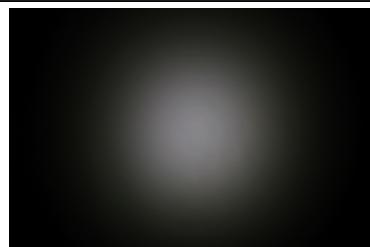
LED NF2x757G
FWHM / FWTM 28.0° / 54.0°
Efficiency 79 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



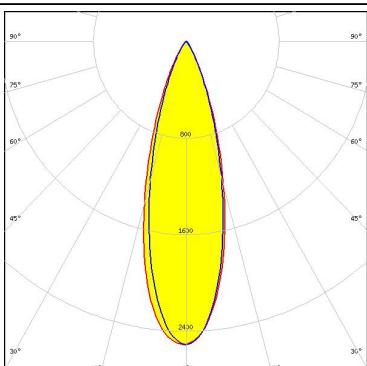
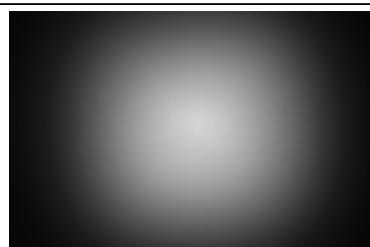
LED NVSW219F
FWHM / FWTM 32.0° / 59.0°
Efficiency 88 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



Opto Semiconductors
LED OSCONIQ C 2424
FWHM / FWTM 24.0° / 46.0°
Efficiency 87 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



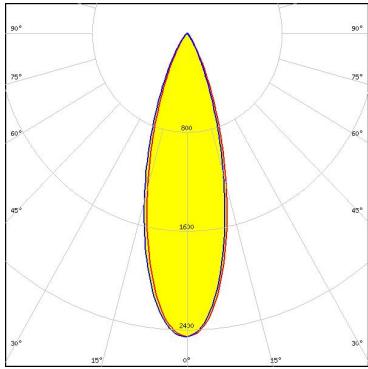
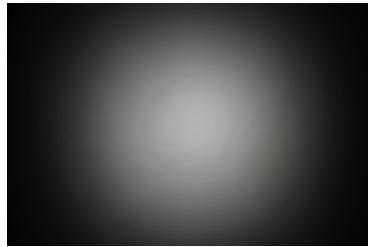
Opto Semiconductors
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 30.0° / 55.0°
Efficiency 87 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

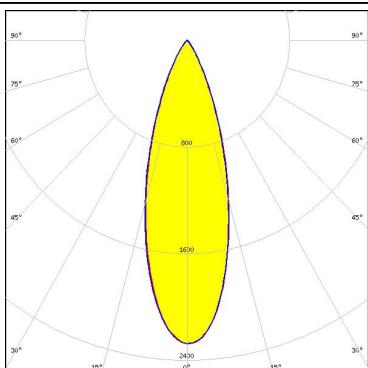
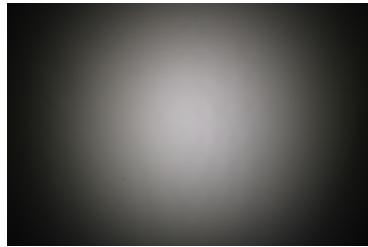
SAMSUNG

LED LH351C
FWHM / FWTM 31.0° / 58.0°
Efficiency 89 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SEOUL SEMICONDUCTOR

LED Z5M4
FWHM / FWTM 33.0° / 61.0°
Efficiency 88 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

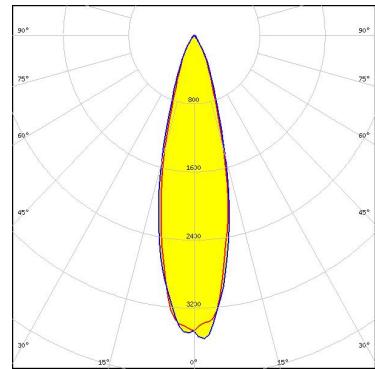


PHOTOMETRIC DATA (SIMULATED):



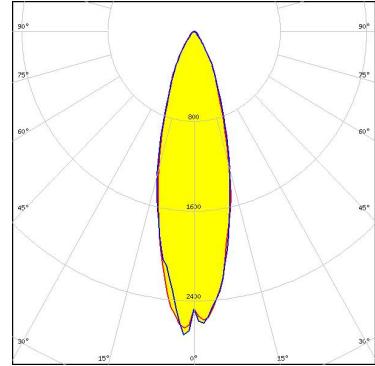
LED	XP-E
FWHM / FWTM	28.0° / 45.0°
Efficiency	90 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



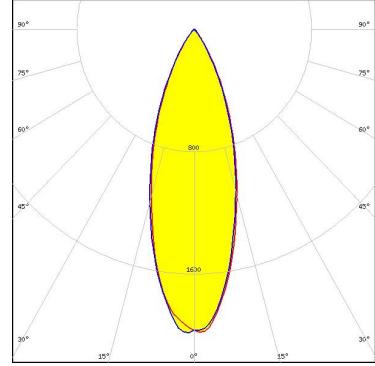
LED	XP-G
FWHM / FWTM	30.0° / 50.0°
Efficiency	88 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



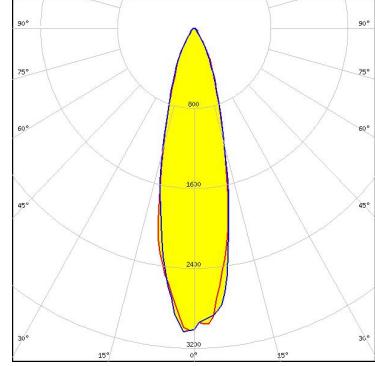
LED	XP-G2 HE
FWHM / FWTM	34.0° / 66.0°
Efficiency	86 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



LED	XT-E
FWHM / FWTM	24.0° / 46.0°
Efficiency	82 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



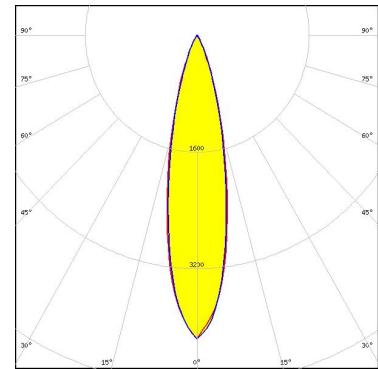
PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED LUXEON 2835 Line
FWHM / FWTM 23.0° / 46.0°

Efficiency 89 %
Peak intensity 4.2 cd/lm
LEDs/each optic 1
Light colour White

Required components:

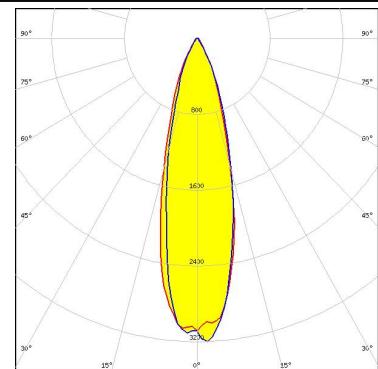


LUMILEDS

LED LUXEON 3030 2D (Round LES)
FWHM / FWTM 25.0° / 45.0°

Efficiency 85 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:

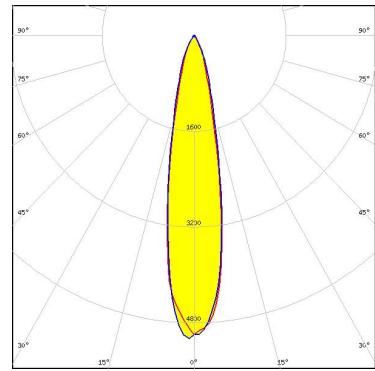


PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED	LUXEON Z
FWHM / FWTM	20.0° / 38.0°
Efficiency	88 %
Peak intensity	6.1 cd/lm
LEDs/each optic	1
Light colour	White

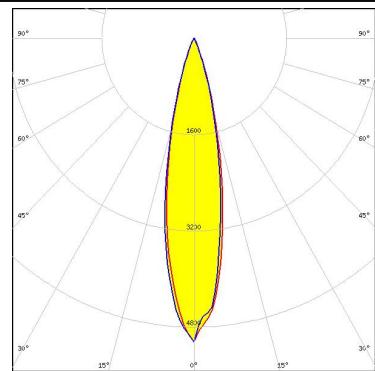
Required components:



LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	22.0° / 41.0°
Efficiency	89 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour	White

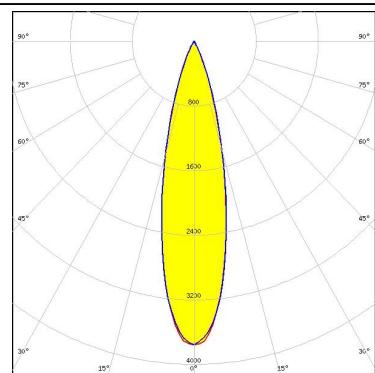
Required components:



LUMINUS

LED	SST-20
FWHM / FWTM	26.0° / 46.0°
Efficiency	87 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White

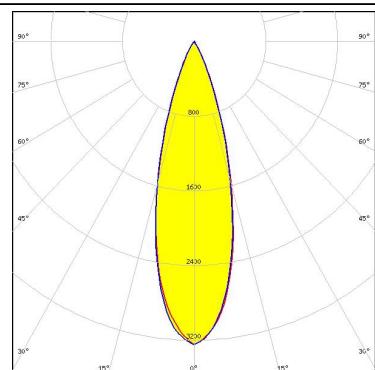
Required components:



NICHIA

LED	NCSU276C
FWHM / FWTM	30.0° / 52.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	UV-A

Required components:

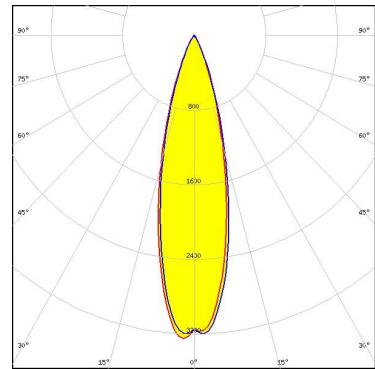


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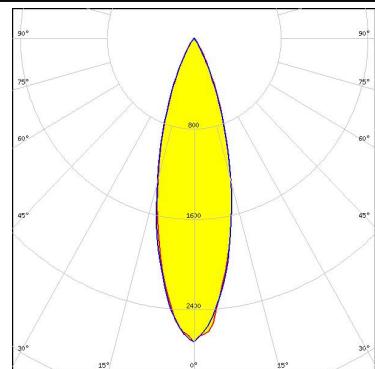
LED	NCSxx19B
FWHM / FWTM	26.0° / 49.0°
Efficiency	83 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



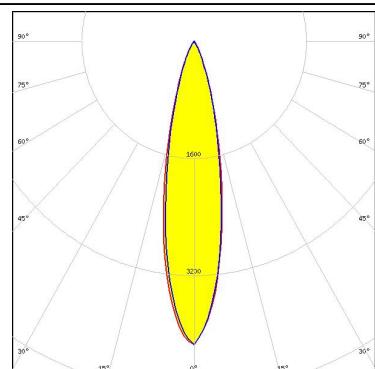
LED	NVSxx19B/NVSxx19C
FWHM / FWTM	29.0° / 56.0°
Efficiency	86 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



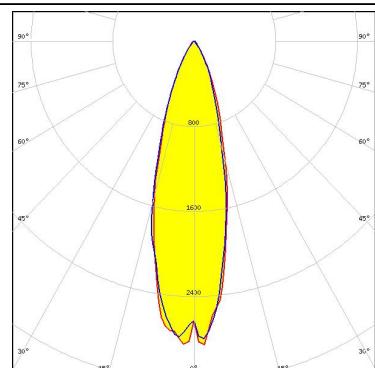
LED	Duris E 2835
FWHM / FWTM	23.0° / 46.0°
Efficiency	87 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



LED	Duris S5 (2 chip)
FWHM / FWTM	25.0° / 45.0°
Efficiency	89 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



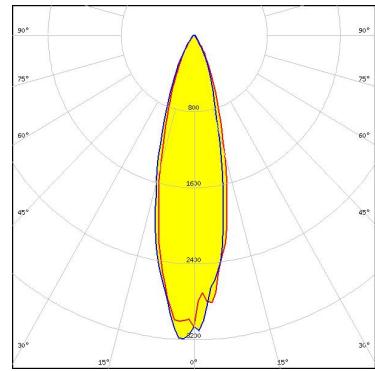
PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED	Duris S5 (Single chip)
FWHM / FWTM	25.0° / 45.0°
Efficiency	86 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

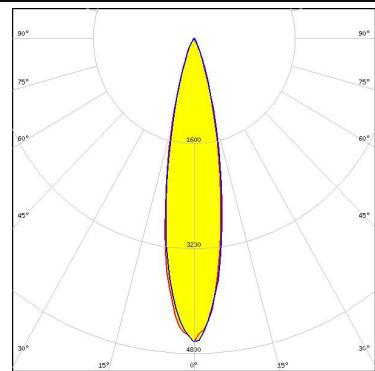


OSRAM

Opto Semiconductors

LED	OSCONIQ P 3030
FWHM / FWTM	22.0° / 42.0°
Efficiency	85 %
Peak intensity	4.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

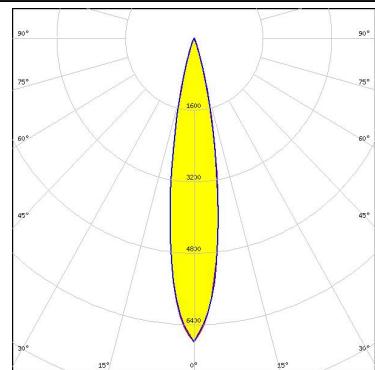


OSRAM

Opto Semiconductors

LED	OSLON Black
FWHM / FWTM	18.0° / 34.0°
Efficiency	88 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

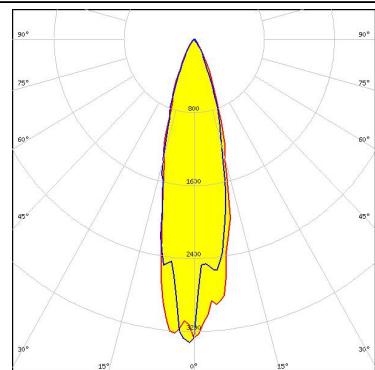


OSRAM

Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	26.0° / 49.0°
Efficiency	88 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



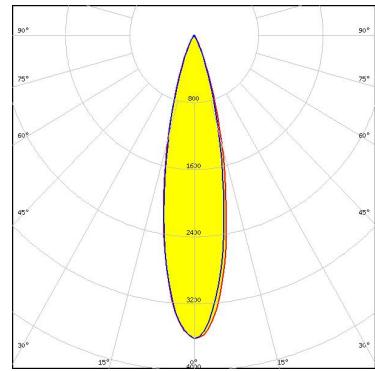
PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED	OSLON Square Flat
FWHM / FWTM	24.0° / 45.0°
Efficiency	78 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

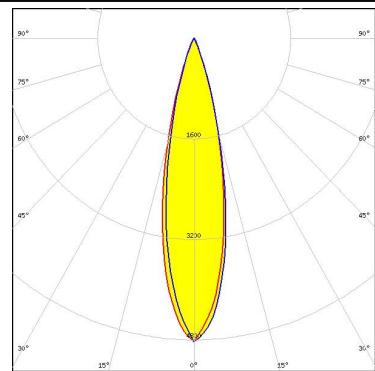


OSRAM

Opto Semiconductors

LED	OSLON SSL 120
FWHM / FWTM	23.0° / 41.0°
Efficiency	91 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour	Hyper Red

Required components:

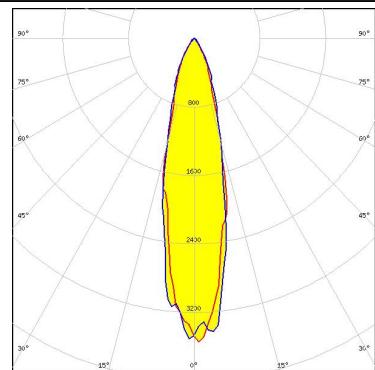


OSRAM

Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	25.0° / 45.0°
Efficiency	89 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

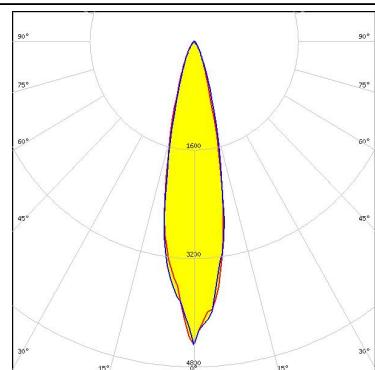


OSRAM

Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	21.0° / 40.0°
Efficiency	87 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



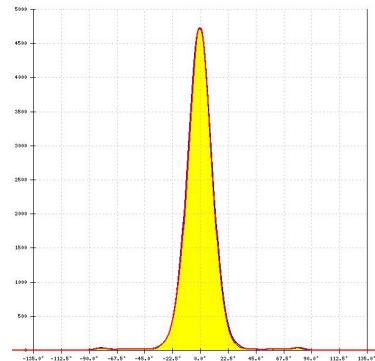
PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED	SYNOS S2222 (KW DDLM31)
FWHM / FWTM	23.0° / 44.0°
Efficiency	97 %
Peak intensity	4.7 cd/lm
LEDs/each optic	1
Light colour	White

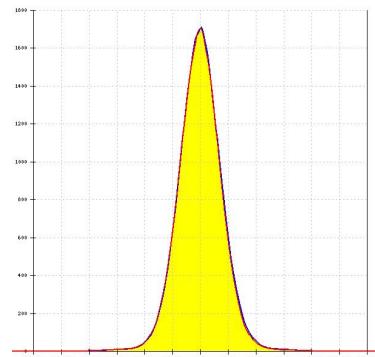
Required components:



SAMSUNG

LED	LH351D
FWHM / FWTM	36.0° / 70.0°
Efficiency	85 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

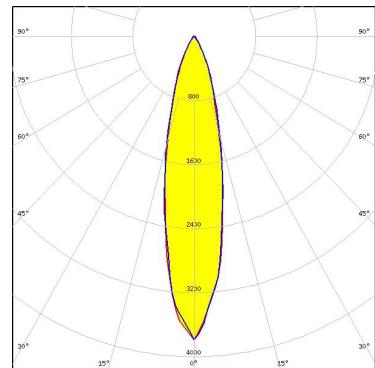
Required components:



SAMSUNG

LED	LM301A
FWHM / FWTM	22.0° / 41.0°
Efficiency	87 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White

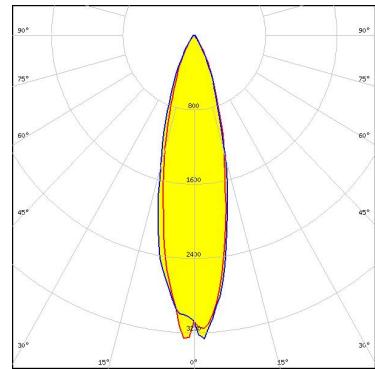
Required components:



SAMSUNG

LED	LM302A
FWHM / FWTM	25.0° / 47.0°
Efficiency	87 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour	White

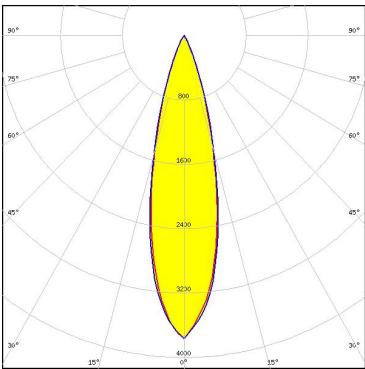
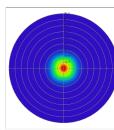
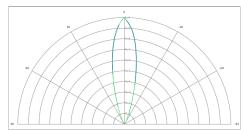
Required components:



PHOTOMETRIC DATA (SIMULATED):

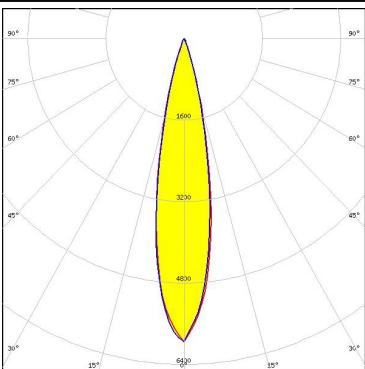
STANLEY

LED FWR1108MS
FWHM / FWTM 25.0° / 46.0°
Efficiency 89 %
LEDs/each optic 1
Light colour IR
Required components:



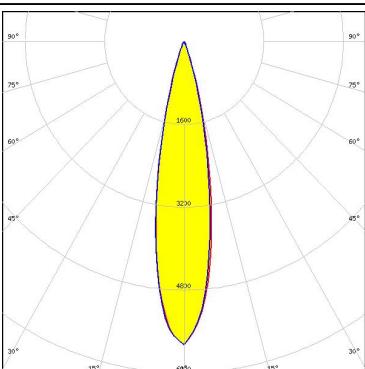
STANLEY

LED MFN1108MS
FWHM / FWTM 21.0° / 37.0°
Efficiency 91 %
Peak intensity 6 cd/lm
LEDs/each optic 1
Light colour IR
Required components:



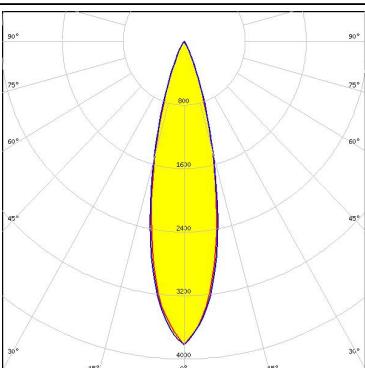
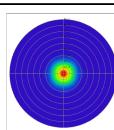
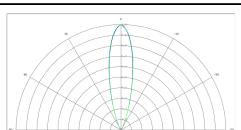
STANLEY

LED MGN1108MS
FWHM / FWTM 22.0° / 37.0°
Efficiency 91 %
Peak intensity 5.9 cd/lm
LEDs/each optic 1
Light colour IR
Required components:



STANLEY

LED MJN1108MS
FWHM / FWTM 25.0° / 46.0°
Efficiency 90 %
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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