

LISA3-WWW-PIN

~60° wide beam with location pin installation

TECHNICAL SPECIFICATIONS:

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

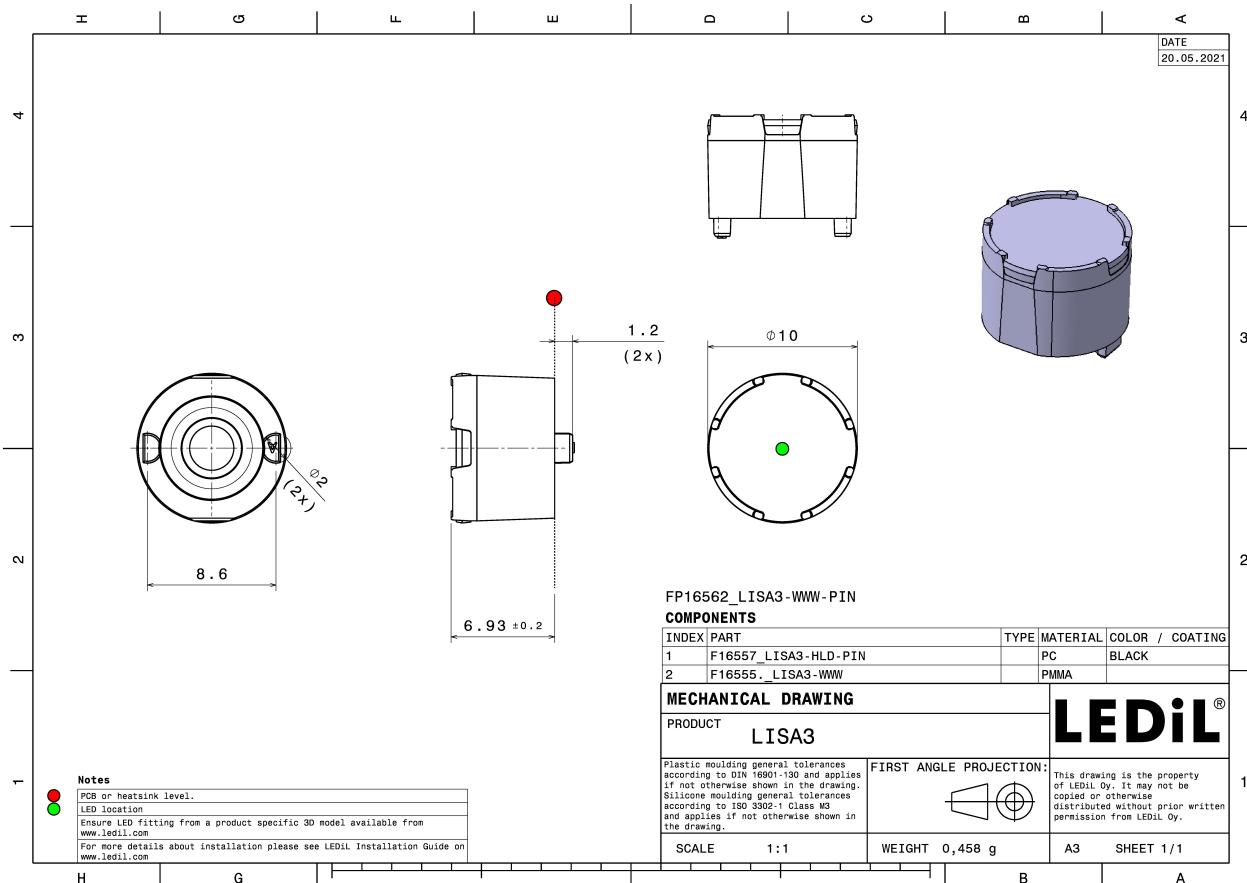


MATERIAL SPECIFICATIONS:

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

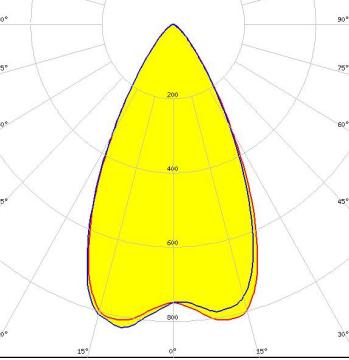
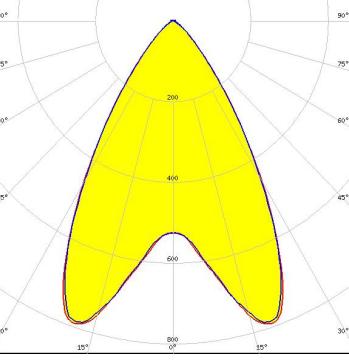
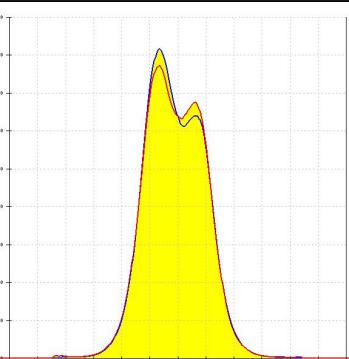
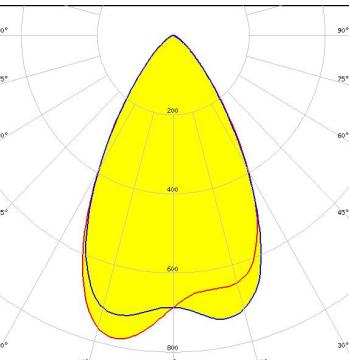
ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
FP16562_LISA3-WWW-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

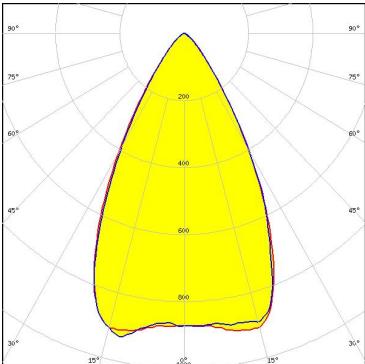
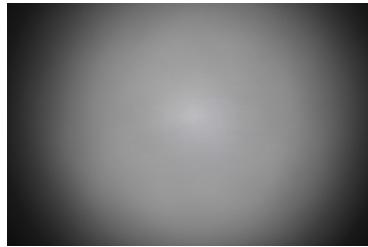
PHOTOMETRIC DATA (MEASURED):

<p>CREE → LED</p> <p>LED XD16</p> <p>FWHM / FWTM 55.0° / 85.0°</p> <p>Efficiency 74 %</p> <p>Peak intensity 0.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>CREE → LED</p> <p>LED XP-E2</p> <p>FWHM / FWTM 63.0° / 91.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>CREE → LED</p> <p>LED XP-G3</p> <p>FWHM / FWTM 60.0° / 92.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>CREE → LED</p> <p>LED XP-G3</p> <p>FWHM / FWTM 61.0° / 95.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

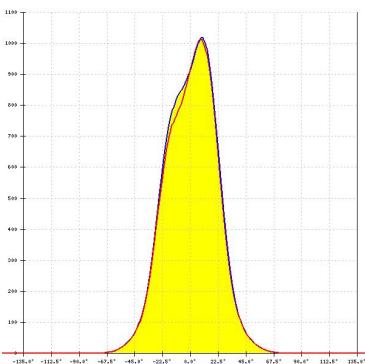
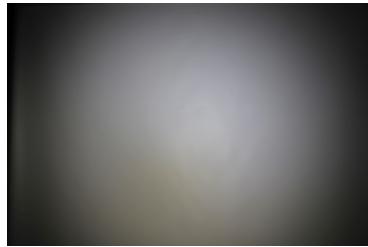
LUMILEDS

LED LUXEON CZ
 FWHM / FWTM 57.0° / 85.0°
 Efficiency 85 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



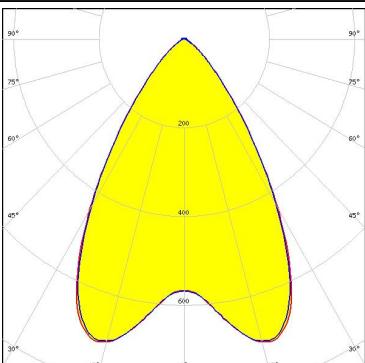
NICHIA

LED NF2x757G
 FWHM / FWTM 50.0° / 82.0°
 Efficiency 76 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



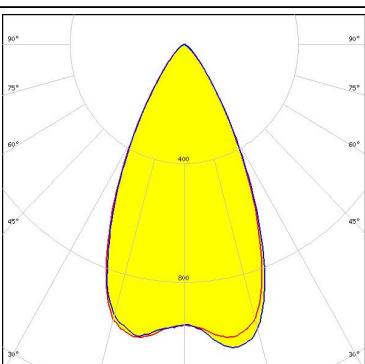
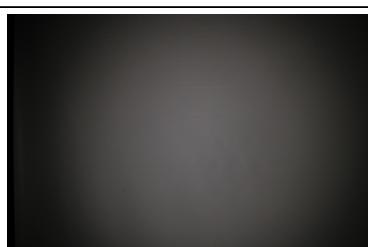
NICHIA

LED NVSW219F
 FWHM / FWTM 64.0° / 96.0°
 Efficiency 84 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors
 LED OSCONIQ C 2424
 FWHM / FWTM 53.0° / 81.0°
 Efficiency 84 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



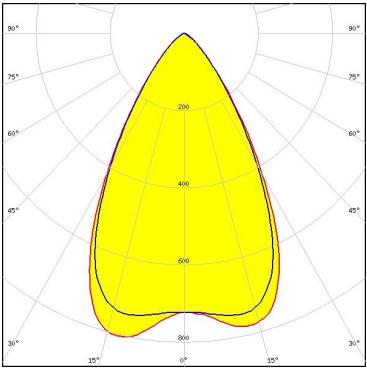
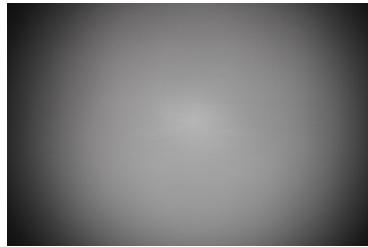
PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	60.0° / 93.0°
Efficiency	83 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

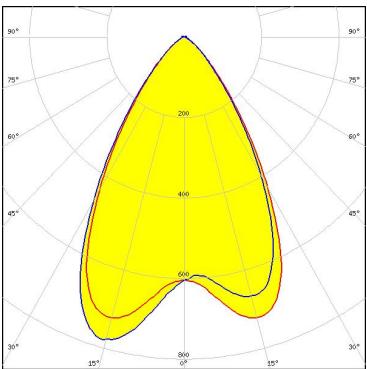
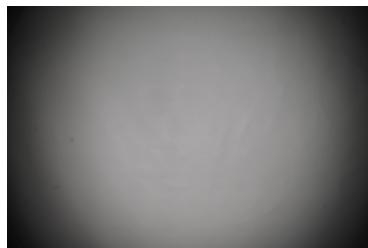
Required components:



SAMSUNG

LED	LH351C
FWHM / FWTM	64.0° / 96.0°
Efficiency	84 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

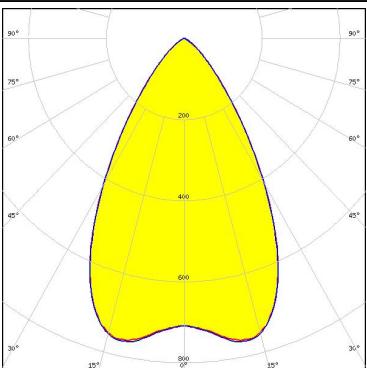
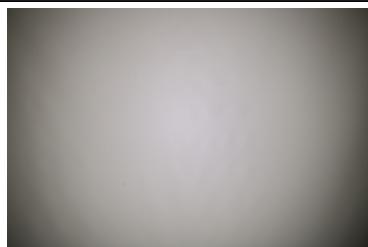
Required components:



SEoul SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	62.0° / 95.0°
Efficiency	84 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

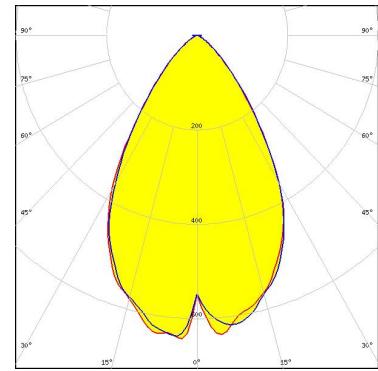


PHOTOMETRIC DATA (SIMULATED):



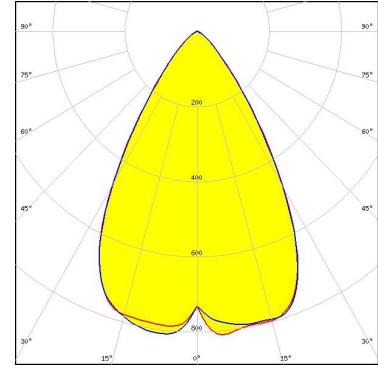
LED	XHP35.2 HD
FWHM / FWTM	64.0° / 99.0°
Efficiency	74 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



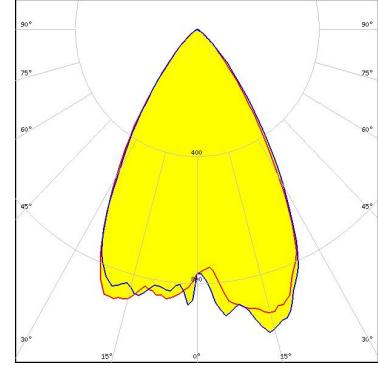
LED	XP-E
FWHM / FWTM	64.0° / 93.0°
Efficiency	89 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



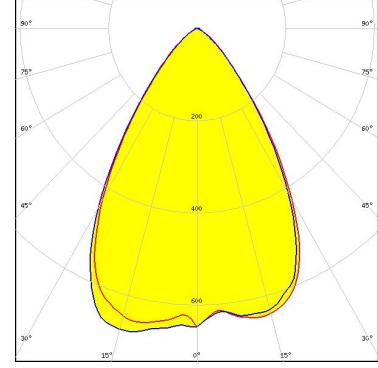
LED	XP-G2
FWHM / FWTM	66.0° / 93.0°
Efficiency	87 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



LED	XP-G2 HE
FWHM / FWTM	68.0° / 100.0°
Efficiency	82 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White

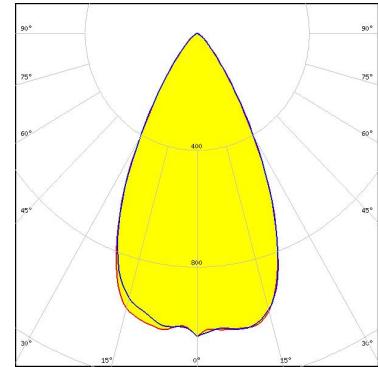
Required components:



PHOTOMETRIC DATA (SIMULATED):

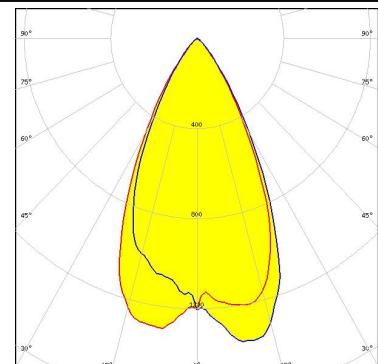
LUMILEDS

LED LUXEON 2835 Line
 FWHM / FWTM 54.0° / 82.0°
 Efficiency 88 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



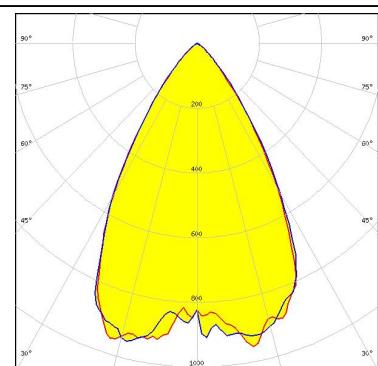
LUMILEDS

LED LUXEON 3030 2D (Round LES)
 FWHM / FWTM 54.0° / 79.0°
 Efficiency 85 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



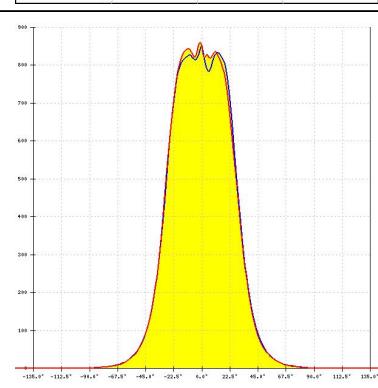
LUMILEDS

LED LUXEON TX
 FWHM / FWTM 62.0° / 87.0°
 Efficiency 85 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LUMILEDS

LED LUXEON V2
 FWHM / FWTM 60.0° / 92.0°
 Efficiency 88 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

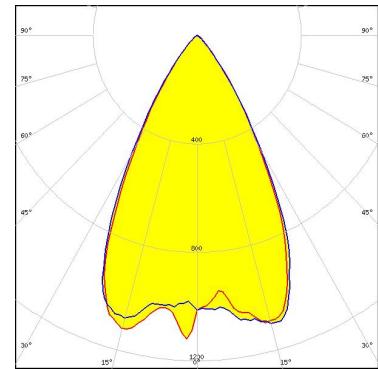


PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED	LUXEON Z
FWHM / FWTM	58.0° / 80.0°
Efficiency	88 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

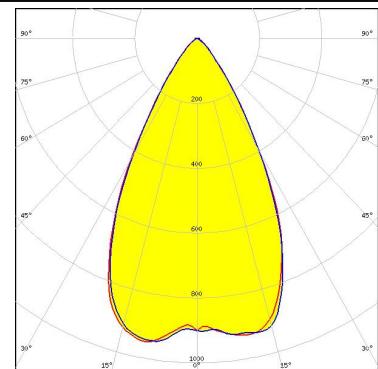
Required components:



LUMINUS

LED	SST-20
FWHM / FWTM	56.0° / 84.0°
Efficiency	86 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

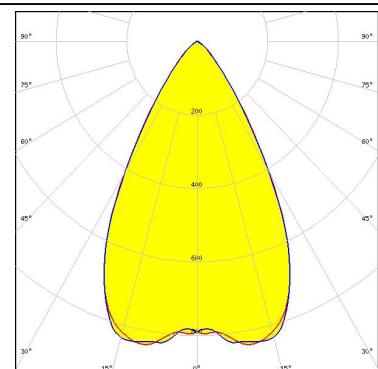
Required components:



NICHIA

LED	NCSxx19B
FWHM / FWTM	60.0° / 88.0°
Efficiency	82 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

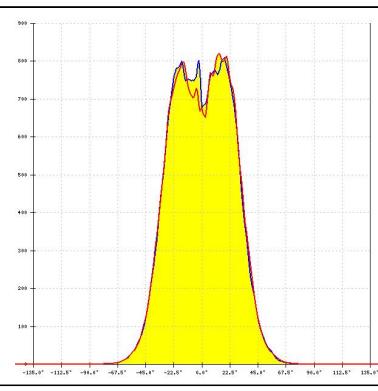
Required components:



NICHIA

LED	NVSW219D
FWHM / FWTM	67.0° / 88.0°
Efficiency	84 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White

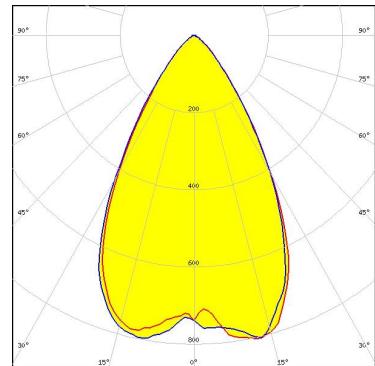
Required components:



PHOTOMETRIC DATA (SIMULATED):



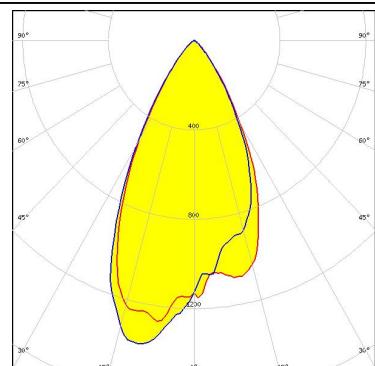
LED	NVSxx19B/NVSxx19C
FWHM / FWTM	61.0° / 92.0°
Efficiency	83 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM

Opto Semiconductors

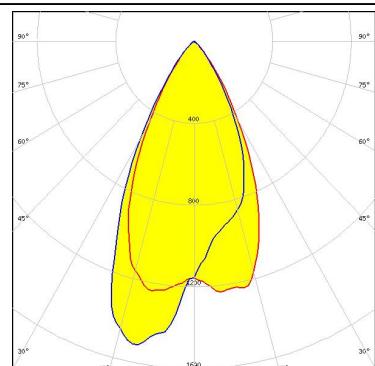
LED	Duris S5 (2 chip)
FWHM / FWTM	49.0° / 77.0°
Efficiency	87 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM

Opto Semiconductors

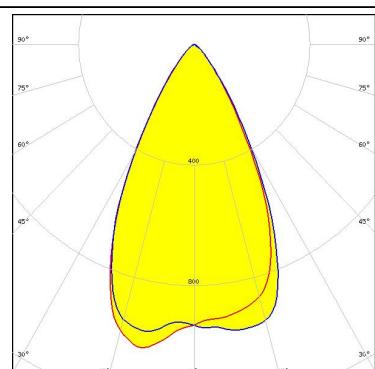
LED	Duris S5 (Single chip)
FWHM / FWTM	48.0° / 76.0°
Efficiency	86 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM

Opto Semiconductors

LED	OSCONIQ P 3030
FWHM / FWTM	56.0° / 82.0°
Efficiency	85 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



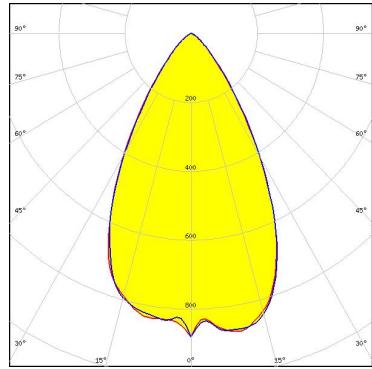
PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	58.0° / 90.0°
Efficiency	86 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

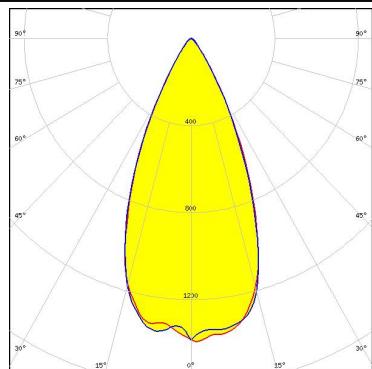


OSRAM

Opto Semiconductors

LED	OSLON Black
FWHM / FWTM	46.0° / 71.0°
Efficiency	88 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

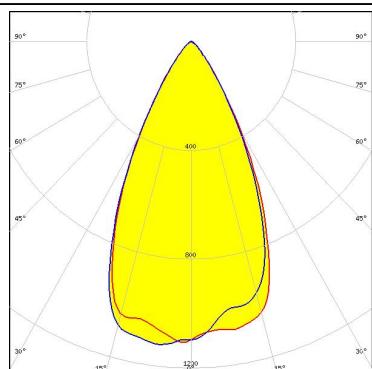


OSRAM

Opto Semiconductors

LED	OSLON Black Flat
FWHM / FWTM	54.0° / 80.0°
Efficiency	88 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	Red

Required components:

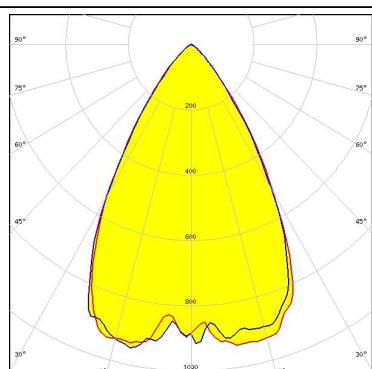


OSRAM

Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	61.0° / 86.0°
Efficiency	86 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



PHOTOMETRIC DATA (SIMULATED):

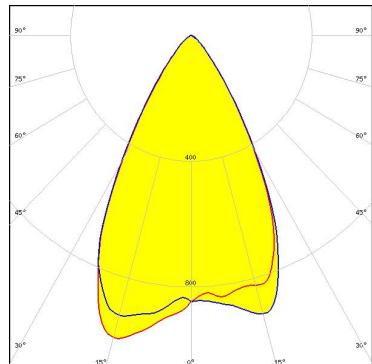
OSRAM

Opto Semiconductors

LED OSLON SSL 120
FWHM / FWTM 58.0° / 85.0°

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

Required components:



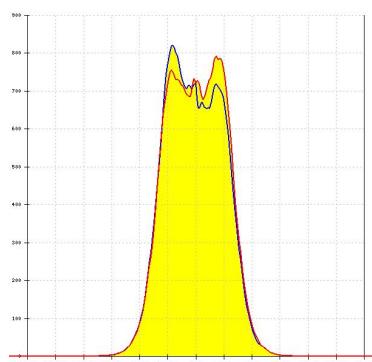
OSRAM

Opto Semiconductors

LED OSLON SSL 150
FWHM / FWTM 63.0° / 84.0°

Efficiency 87 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White

Required components:



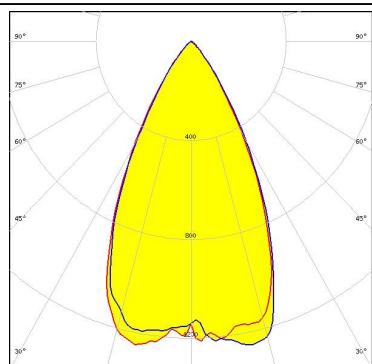
OSRAM

Opto Semiconductors

LED OSLON SSL 80
FWHM / FWTM 53.0° / 79.0°

Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White

Required components:



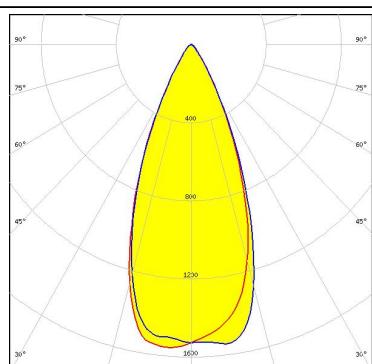
OSRAM

Opto Semiconductors

LED SFH 4715AS
FWHM / FWTM 43.0° / 67.0°

Efficiency 87 %
LEDs/each optic 1
Light colour IR

Required components:



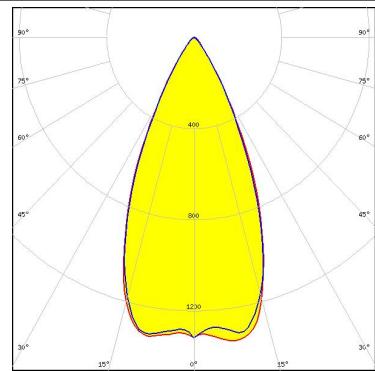
PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED	SFH 4725S
FWHM / FWTM	48.0° / 72.0°
Efficiency	88 %
LEDs/each optic	1
Light colour	IR

Required components:

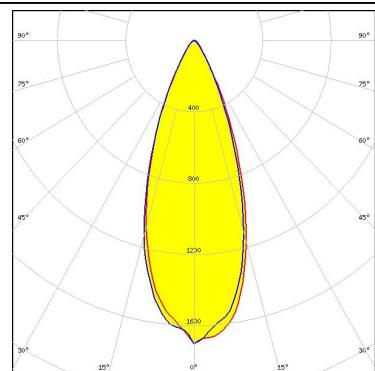


OSRAM

Opto Semiconductors

LED	SFH 4727AS
FWHM / FWTM	38.0° / 65.0°
Efficiency	81 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	IR

Required components:

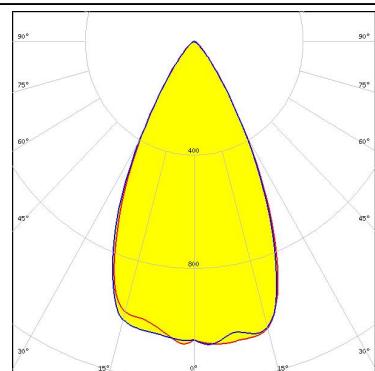


OSRAM

Opto Semiconductors

LED	Synios P2720 1 mm
FWHM / FWTM	54.0° / 80.0°
Efficiency	88 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	Red

Required components:

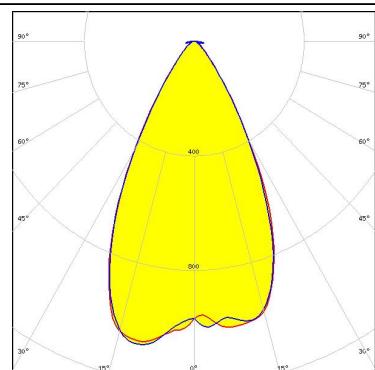


OSRAM

Opto Semiconductors

LED	SYNOS S2222
FWHM / FWTM	55.0° / 82.0°
Efficiency	96 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

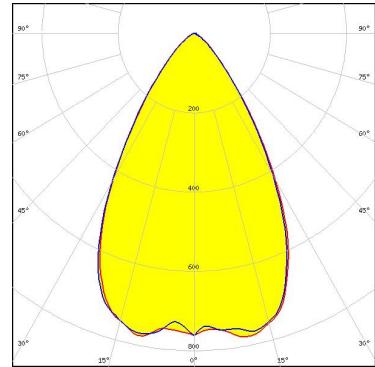
Required components:



PHOTOMETRIC DATA (SIMULATED):

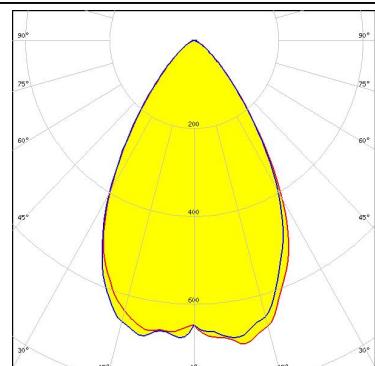
SAMSUNG

LED LH351B
 FWHM / FWTM 62.0° / 95.0°
 Efficiency 85 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



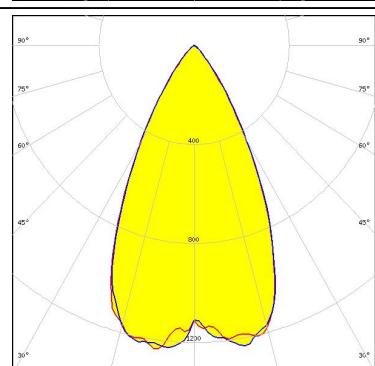
SAMSUNG

LED LH351D
 FWHM / FWTM 65.0° / 100.0°
 Efficiency 81 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



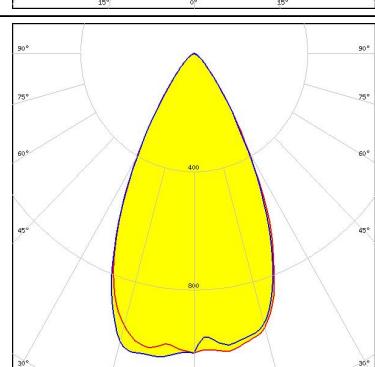
SAMSUNG

LED LM301A
 FWHM / FWTM 53.0° / 75.0°
 Efficiency 87 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

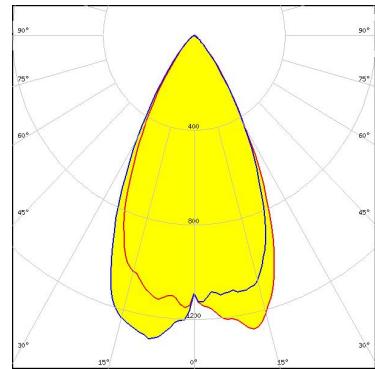
LED LM301B
 FWHM / FWTM 55.0° / 82.0°
 Efficiency 87 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

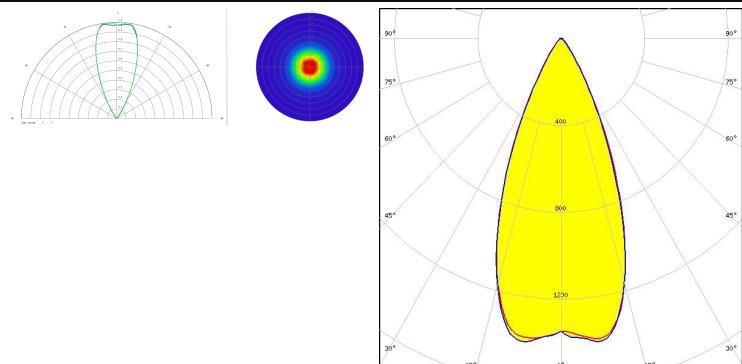
SAMSUNG

LED LM302A
 FWHM / FWTM 53.0° / 80.0°
 Efficiency 87 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



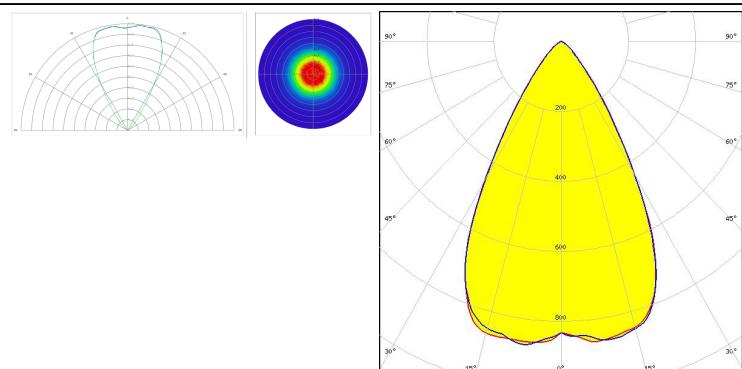
STANLEY

LED FWR1107MS
 FWHM / FWTM 44.0° / 68.0°
 Efficiency 85 %
 LEDs/each optic 1
 Light colour IR
 Required components:



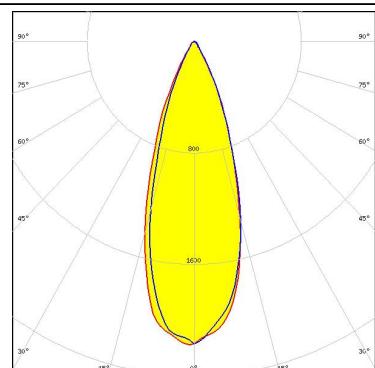
STANLEY

LED FWR1108MS
 FWHM / FWTM 60.0° / 87.0°
 Efficiency 88 %
 LEDs/each optic 1
 Light colour IR
 Required components:



STANLEY

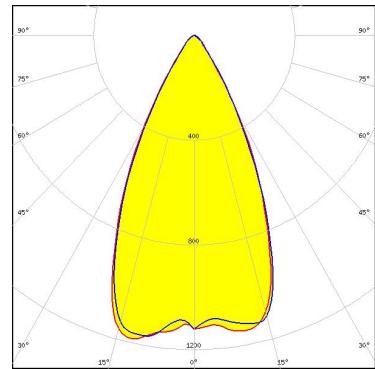
LED MFN1107MS
 FWHM / FWTM 35.0° / 60.0°
 Efficiency 91 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour IR
 Required components:



PHOTOMETRIC DATA (SIMULATED):

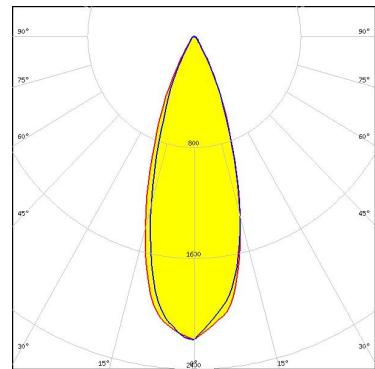
STANLEY

LED MFN1108MS
FWHM / FWTM 52.0° / 76.0°
Efficiency 90 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour IR
Required components:



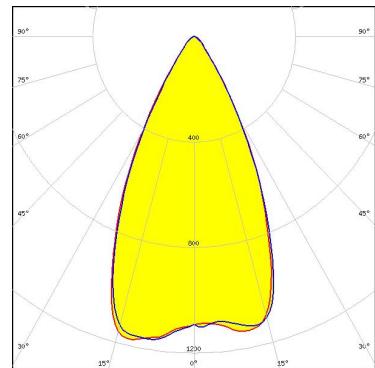
STANLEY

LED MGN1107MS
FWHM / FWTM 35.0° / 60.0°
Efficiency 91 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour IR
Required components:



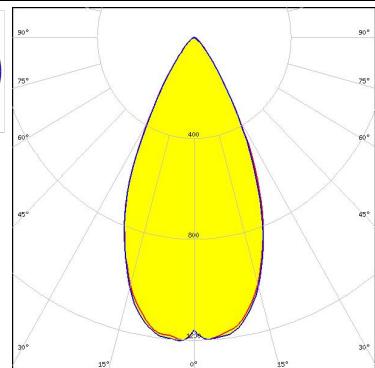
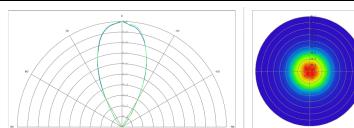
STANLEY

LED MGN1108MS
FWHM / FWTM 52.0° / 76.0°
Efficiency 90 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour IR
Required components:



STANLEY

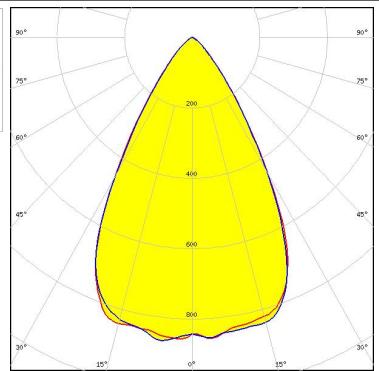
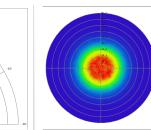
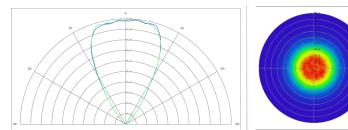
LED MJN1107MS
FWHM / FWTM 50.0° / 77.0°
Efficiency 89 %
LEDs/each optic 1
Light colour IR
Required components:



PHOTOMETRIC DATA (SIMULATED):



LED MJN1108MS
FWHM / FWTM 61.0° / 88.0°
Efficiency 88 %
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:

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