LISA3-RS-PIN

~15° spot beam with location pin installation



SPECIFICATION:

Dimensions	Ø 10.0 mm
Height	6.9 mm
Fastening	glue
ROHS compliant	yes

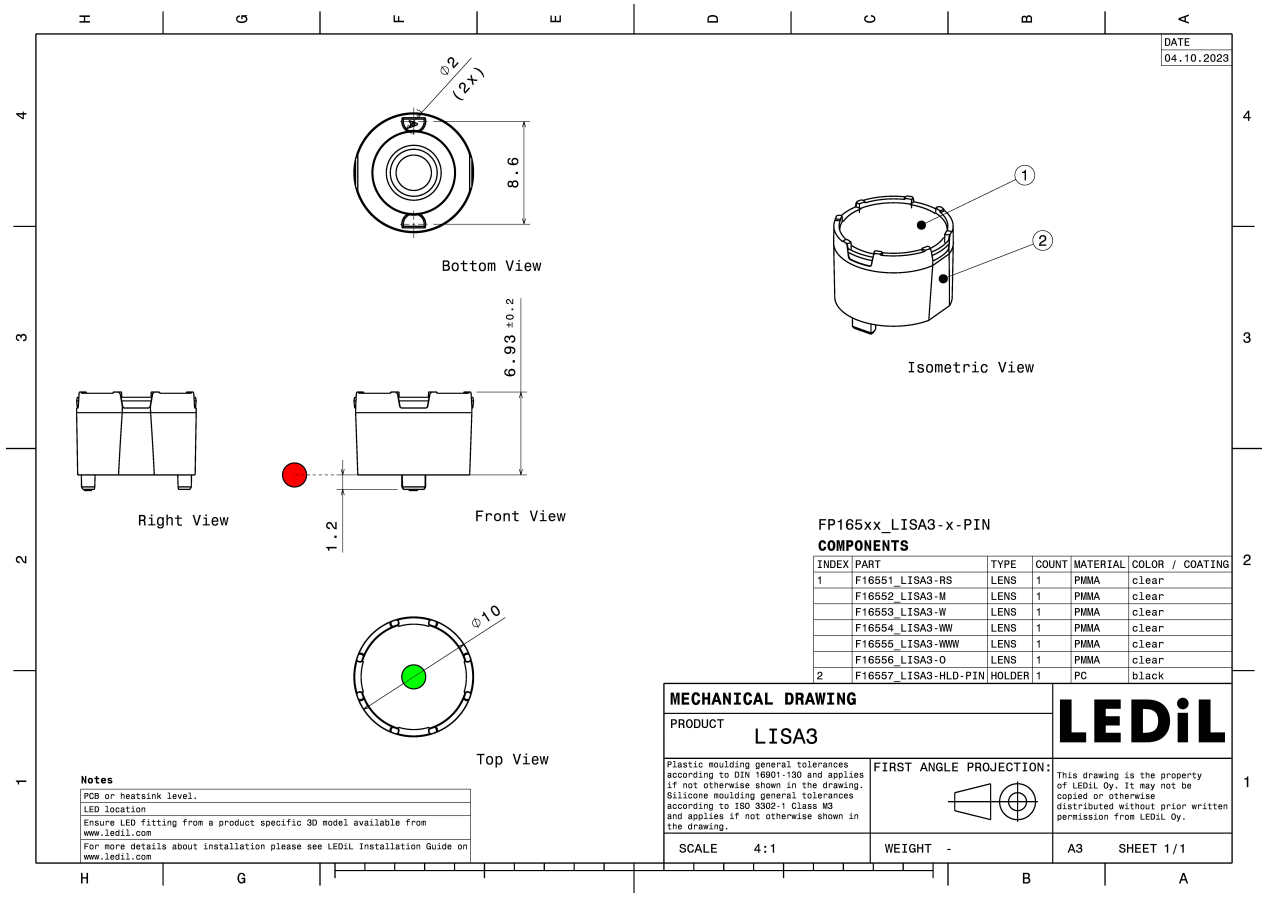
MATERIALS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16558_LISA3-RS-PIN » Box size: 310 x 230 x 60 mm	Single lens	2000	300	100	1.3

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.



FP165xx_LISA3-x-PIN

COMPONENTS

INDEX	PART	TYPE	COUNT	MATERIAL	COLOR / COATING
1	F16551_LISA3-RS	LENS	1	PMMA	clear
	F16552_LISA3-M	LENS	1	PMMA	clear
	F16553_LISA3-W	LENS	1	PMMA	clear
	F16554_LISA3-WW	LENS	1	PMMA	clear
	F16555_LISA3-WWW	LENS	1	PMMA	clear
	F16556_LISA3-O	LENS	1	PMMA	clear
2	F16557_LISA3-HLD-PIN	HOLDER	1	PC	black

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

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

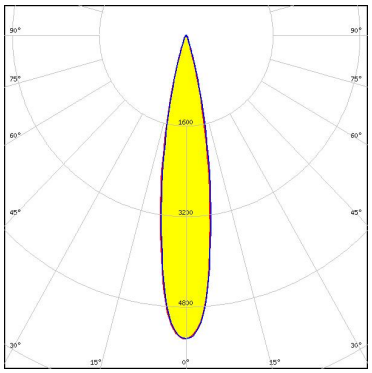
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XD16
FWHM / FWTM	19.0° / 34.0°
Efficiency	78 %
Peak intensity	5.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

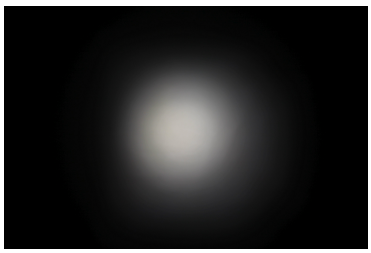


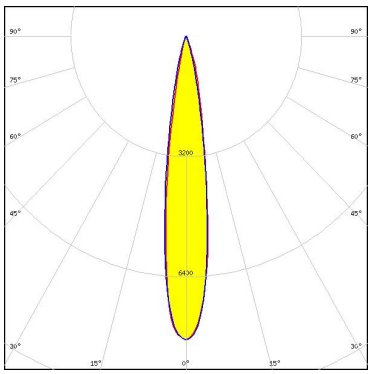


CREE LEDs

LED	XP-E2
FWHM / FWTM	16.0° / 31.0°
Efficiency	90 %
Peak intensity	8.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



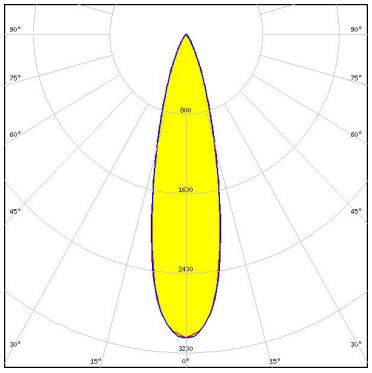


CREE LEDs

LED	XP-G3
FWHM / FWTM	26.0° / 51.0°
Efficiency	84 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

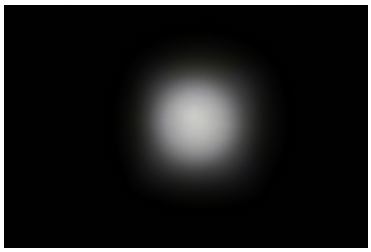


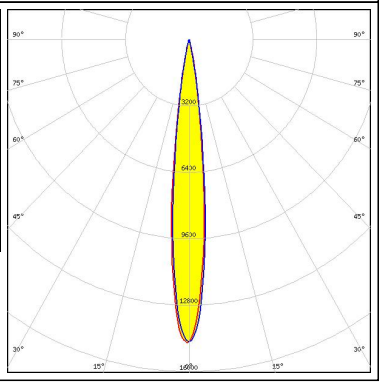


LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	12.0° / 23.0°
Efficiency	89 %
Peak intensity	14.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



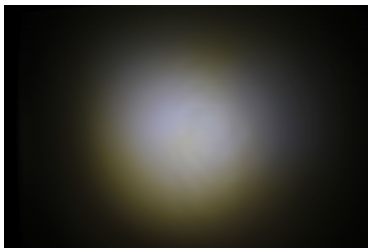


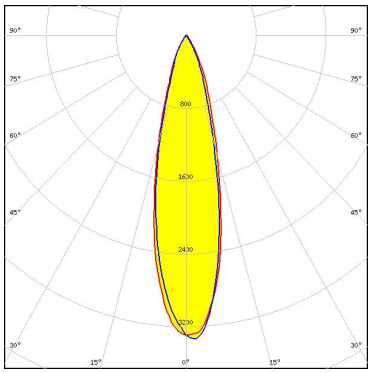
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

NICHIA

LED	NF2x757G
FWHM / FWTM	25.0° / 52.0°
Efficiency	88 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

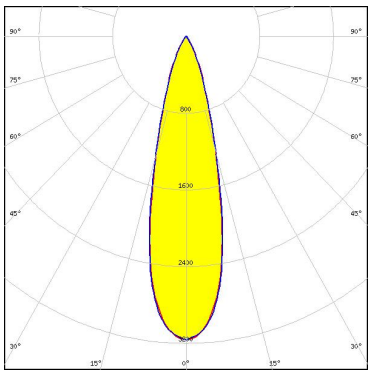




NICHIA

LED	NVSW219F
FWHM / FWTM	26.0° / 52.0°
Efficiency	90 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

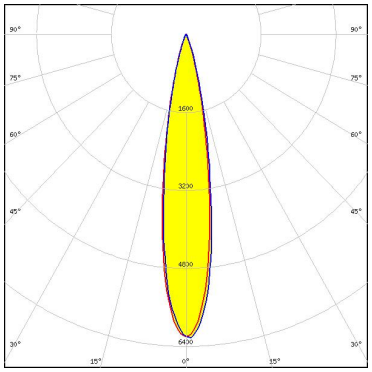




OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	18.0° / 35.0°
Efficiency	88 %
Peak intensity	6.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

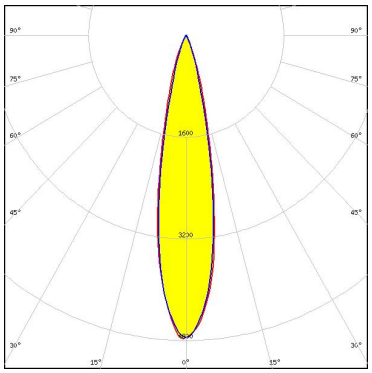




OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	21.0° / 40.0°
Efficiency	88 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





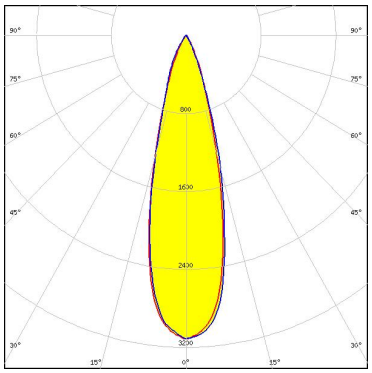
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LH351C
FWHM / FWTM	28.0° / 51.0°
Efficiency	90 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

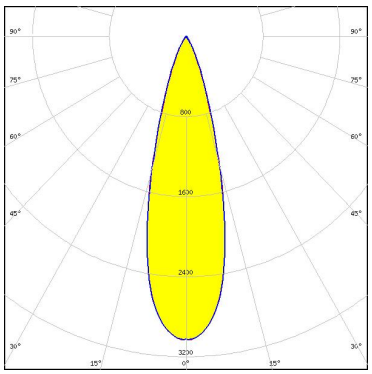




SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	29.0° / 51.0°
Efficiency	89 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

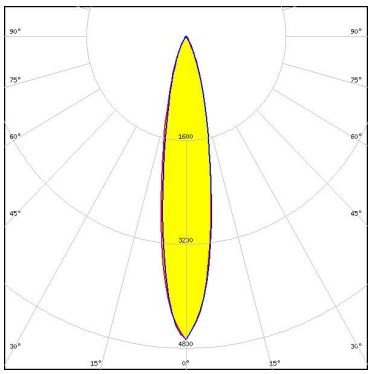
OPTICAL RESULTS (SIMULATED):

bridgelux

LED	CSP 2323 (BXCP)
FWHM / FWTM	18.0° / 40.0°
Efficiency	81 %
Peak intensity	5.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

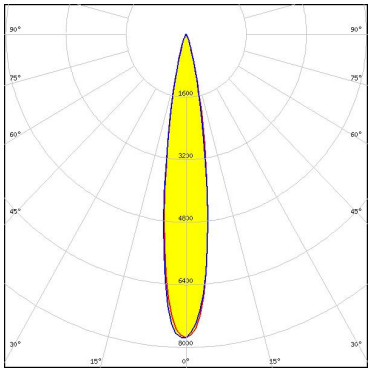
CREE LEDs

LED	J Series 2835
FWHM / FWTM	19.0° / 44.0°
Efficiency	88 %
Peak intensity	4.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



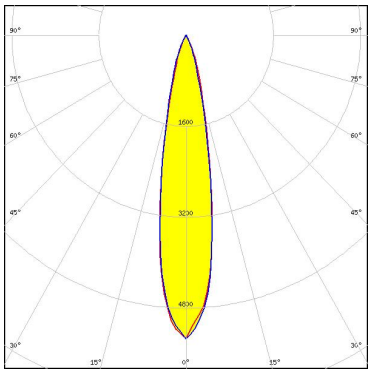
CREE LEDs

LED	XP-E
FWHM / FWTM	16.0° / 32.0°
Efficiency	91 %
Peak intensity	7.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LEDs

LED	XP-G2
FWHM / FWTM	20.0° / 40.0°
Efficiency	89 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

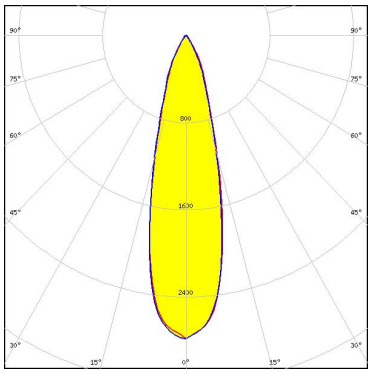


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

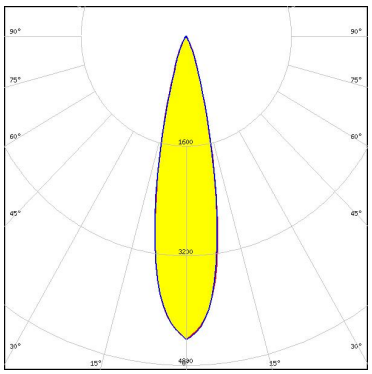
CREE LEDs

LED	XP-G2 HE
FWHM / FWTM	27.0° / 57.0°
Efficiency	86 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



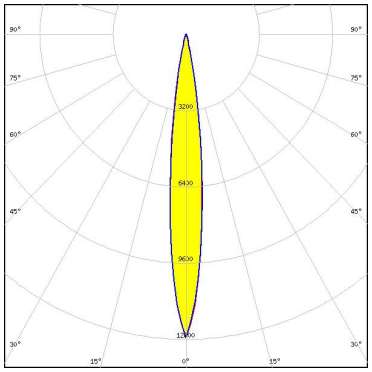
CREE LEDs

LED	XP-G4
FWHM / FWTM	24.0° / 42.0°
Efficiency	90 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



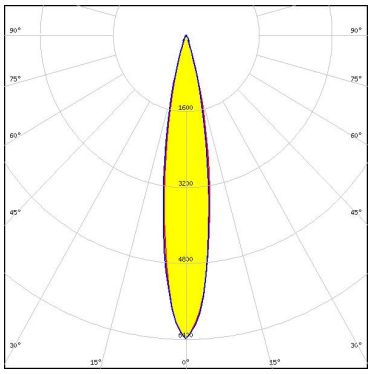
CREE LEDs

LED	XP-P
FWHM / FWTM	12.0° / 26.0°
Efficiency	97 %
Peak intensity	12.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LEDs

LED	XQ-E HI
FWHM / FWTM	18.0° / 34.0°
Efficiency	82 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

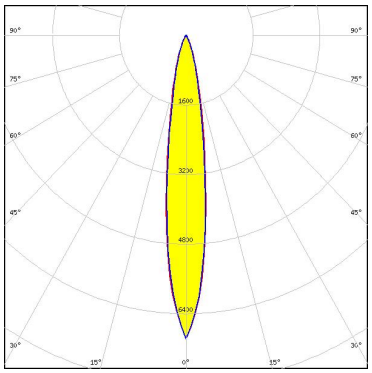


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

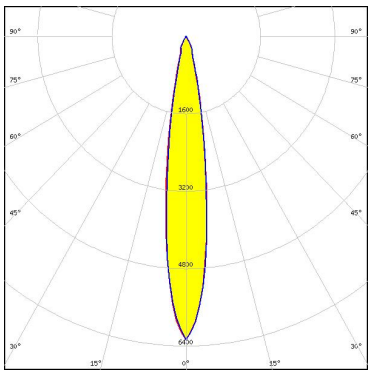
LUMILEDS

LED	LUXEON 2835 Line
FWHM / FWTM	16.0° / 36.0°
Efficiency	89 %
Peak intensity	7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



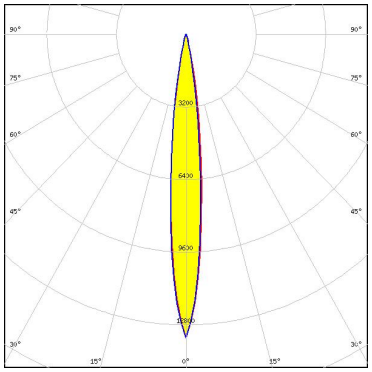
LUMILEDS

LED	LUXEON C
FWHM / FWTM	16.0° / 32.0°
Efficiency	78 %
Peak intensity	6.3 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



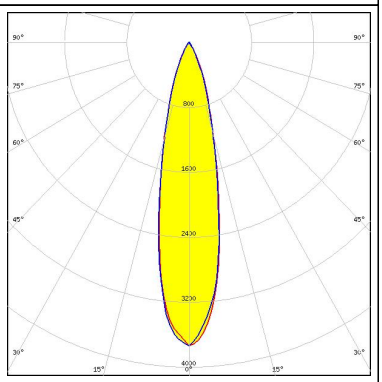
LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	12.0° / 25.0°
Efficiency	90 %
Peak intensity	13.4 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



LUMILEDS

LED	LUXEON V2
FWHM / FWTM	22.0° / 51.0°
Efficiency	90 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

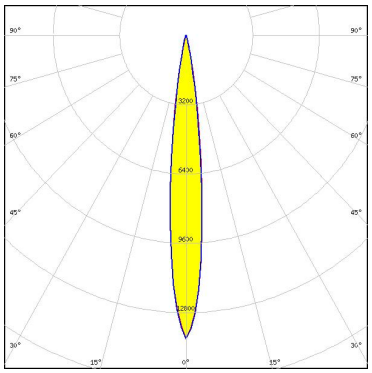


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

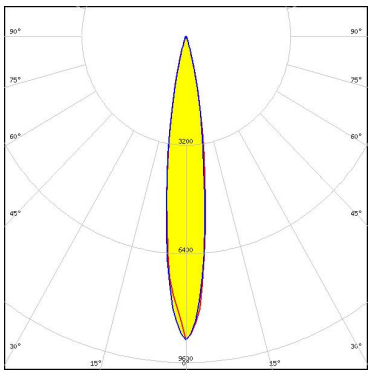
LUMILEDS

LED	LUXEON Z
FWHM / FWTM	12.0° / 23.0°
Efficiency	87 %
Peak intensity	13.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



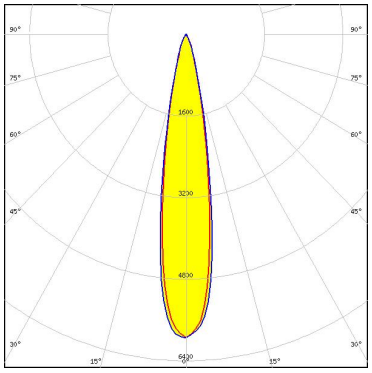
LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	15.0° / 30.0°
Efficiency	88 %
Peak intensity	9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



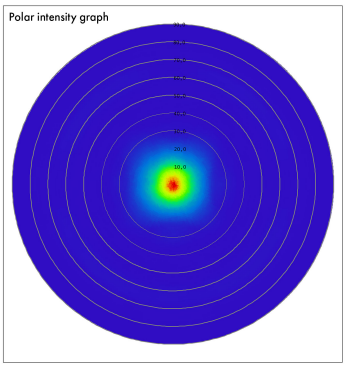
LUMINUS

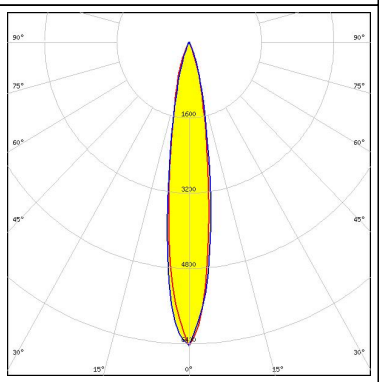
LED	SST-10-B130
FWHM / FWTM	19.0° / 36.0°
Efficiency	89 %
Peak intensity	6 cd/lm
LEDs/each optic	1
Light colour	Deep Red
Required components:	



LUMINUS

LED	SST-10-IR-B90
FWHM / FWTM	17.0° / 38.0°
Efficiency	87 %
LEDs/each optic	1
Light colour	IR
Required components:	



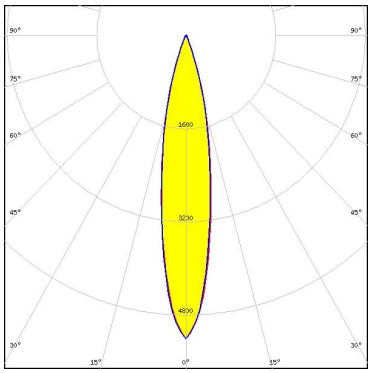


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

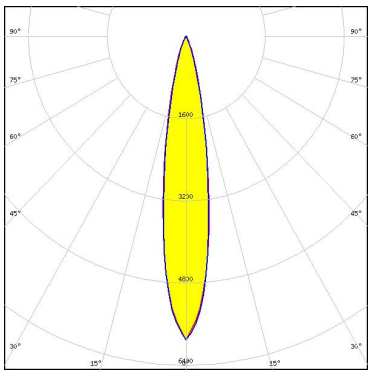
LUMINUS

LED	SST-20
FWHM / FWTM	20.0° / 40.0°
Efficiency	86 %
Peak intensity	5.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



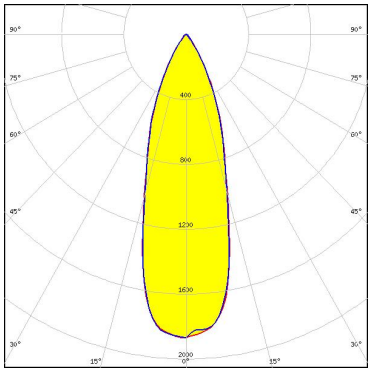
NICHIA

LED	NCSxx19B
FWHM / FWTM	18.0° / 37.0°
Efficiency	84 %
Peak intensity	5.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



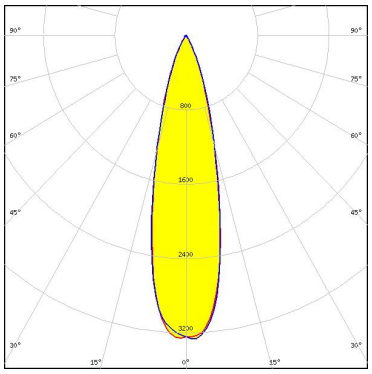
NICHIA

LED	NV4WB35AM
FWHM / FWTM	32.0° / 65.0°
Efficiency	84 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	26.0° / 50.0°
Efficiency	85 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

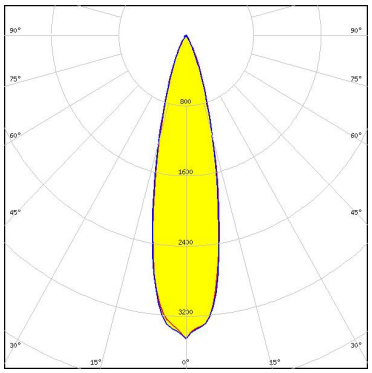


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

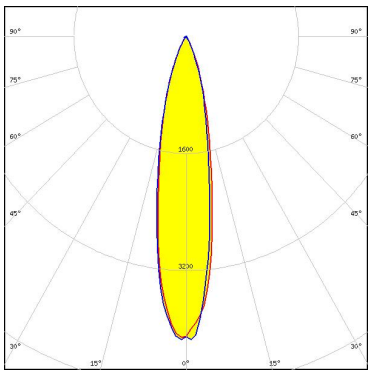
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	25.0° / 50.0°
Efficiency	85 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



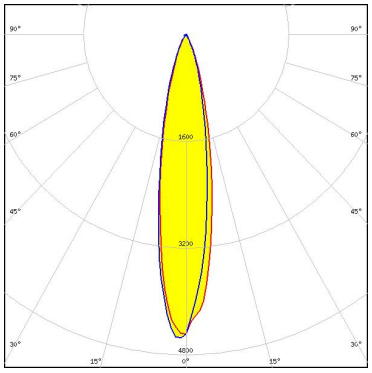
OSRAM
Opto Semiconductors

LED	Duris S5 (2 chip)
FWHM / FWTM	20.0° / 44.0°
Efficiency	87 %
Peak intensity	7.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



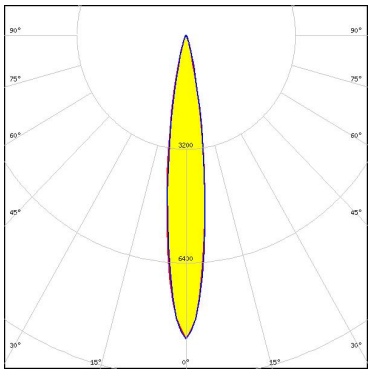
OSRAM
Opto Semiconductors

LED	Duris S5 (Single chip)
FWHM / FWTM	20.0° / 43.0°
Efficiency	86 %
Peak intensity	4.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	OSCONIQ P 3030
FWHM / FWTM	14.0° / 30.0°
Efficiency	86 %
Peak intensity	8.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

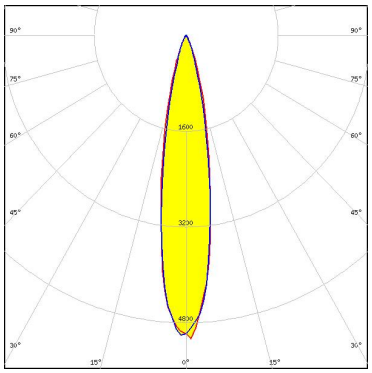


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

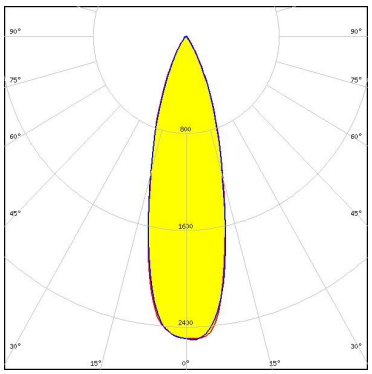
OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	20.0° / 40.0°
Efficiency	88 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



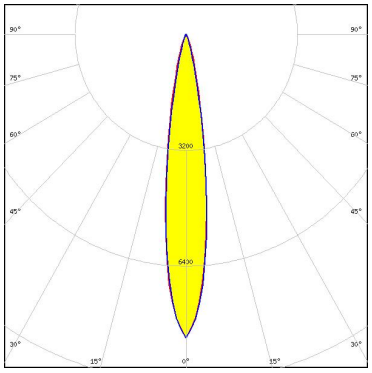
OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	29.0° / 58.0°
Efficiency	88 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



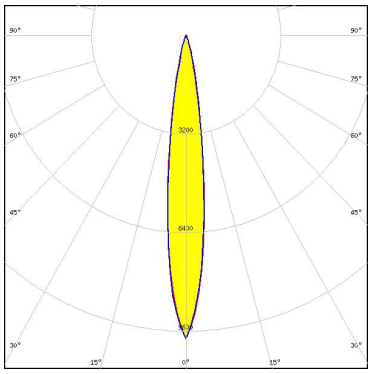
OSRAM
Opto Semiconductors

LED	OSLON Boost HX (KW CULPM1.TG)
FWHM / FWTM	16.0° / 32.0°
Efficiency	90 %
Peak intensity	8.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	OSLON Signal
FWHM / FWTM	14.0° / 29.0°
Efficiency	88 %
Peak intensity	9.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

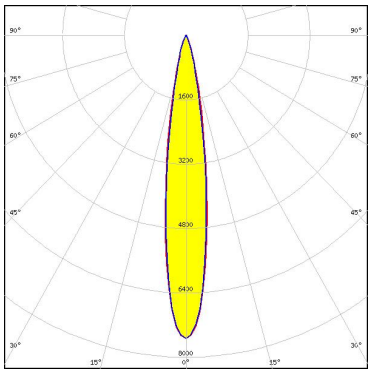


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

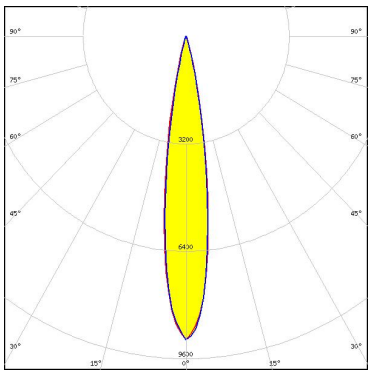
OSRAM
Opto Semiconductors

LED	OSLON Square Flat
FWHM / FWTM	16.0° / 33.0°
Efficiency	89 %
Peak intensity	7.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



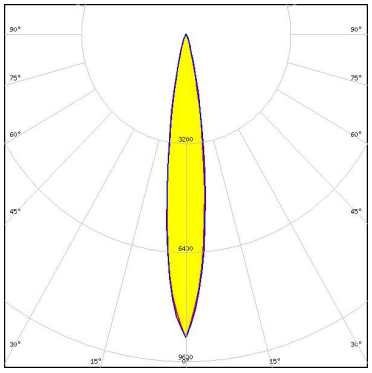
OSRAM
Opto Semiconductors

LED	OSLON SSL 120
FWHM / FWTM	16.0° / 29.0°
Efficiency	90 %
Peak intensity	9 cd/lm
LEDs/each optic	1
Light colour	Hyper Red
Required components:	



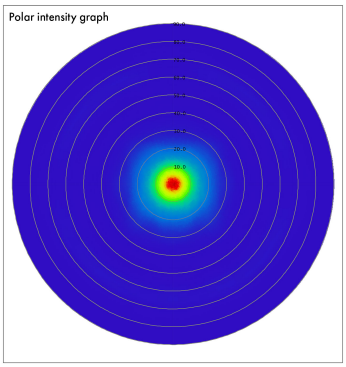
OSRAM
Opto Semiconductors

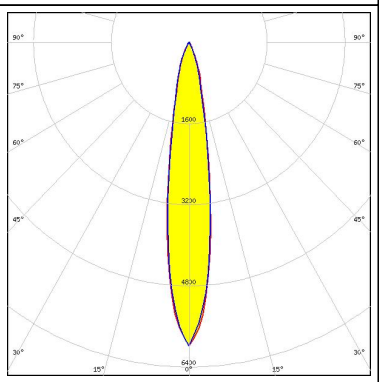
LED	OSLON SSL 150
FWHM / FWTM	14.5° / 29.0°
Efficiency	88 %
Peak intensity	8.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	17.0° / 40.0°
Efficiency	87 %
LEDs/each optic	1
Light colour	White
Required components:	



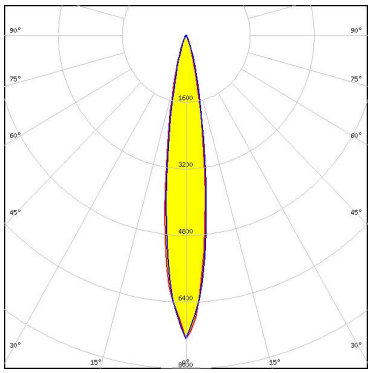


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

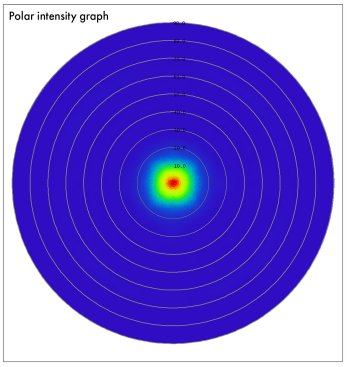
OSRAM
Opto Semiconductors

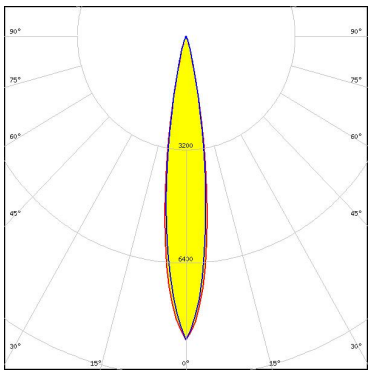
LED	OSLON SSL 80
FWHM / FWTM	15.0° / 31.0°
Efficiency	87 %
Peak intensity	7.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

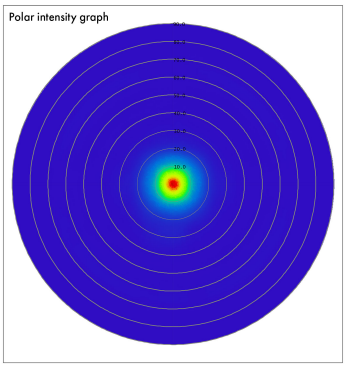
LED	SFH 4716S
FWHM / FWTM	16.0° / 29.0°
Efficiency	86 %
LEDs/each optic	1
Light colour	IR
Required components:	

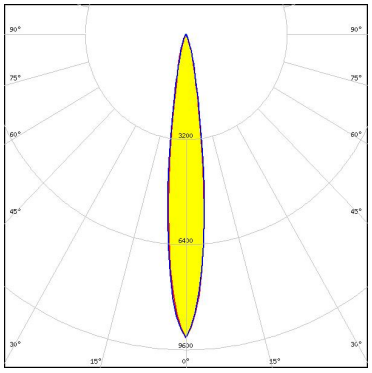




OSRAM
Opto Semiconductors

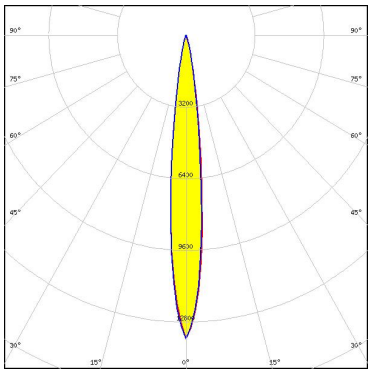
LED	SFH 4770S
FWHM / FWTM	14.0° / 30.0°
Efficiency	87 %
LEDs/each optic	1
Light colour	IR
Required components:	





OSRAM
Opto Semiconductors

LED	Synios P2720 1 mm
FWHM / FWTM	12.0° / 24.0°
Efficiency	88 %
Peak intensity	13.6 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	

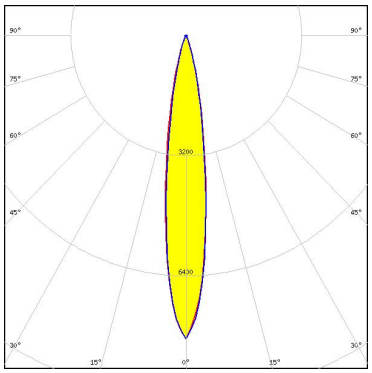


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

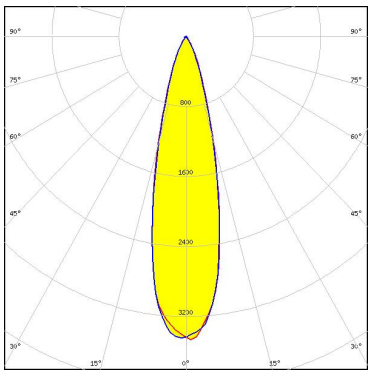
OSRAM
Opto Semiconductors

LED	SYNIOS S2222
FWHM / FWTM	16.0° / 34.0 + 32.0°
Efficiency	97 %
Peak intensity	8.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



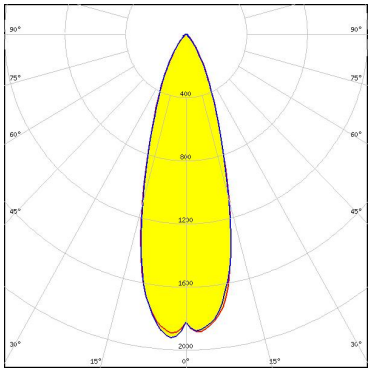
SAMSUNG

LED	LH351B
FWHM / FWTM	26.0° / 49.0°
Efficiency	88 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



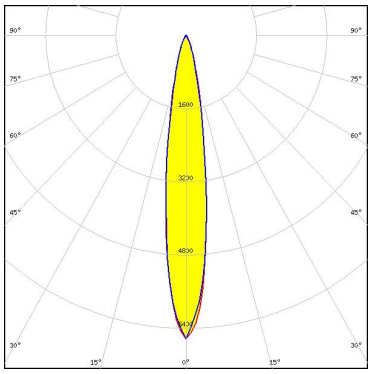
SAMSUNG

LED	LH351D
FWHM / FWTM	34.0° / 66.0°
Efficiency	85 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

LED	LM301A
FWHM / FWTM	14.5° / 33.0°
Efficiency	87 %
Peak intensity	7.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

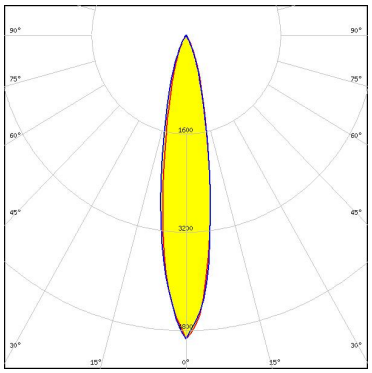


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

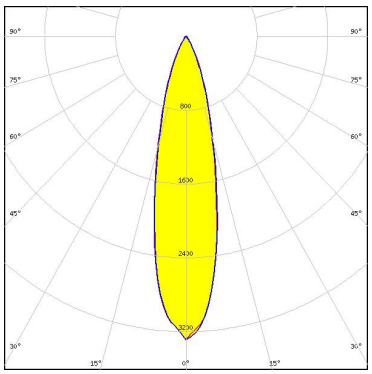
SAMSUNG

LED	LM302A
FWHM / FWTM	16.0° / 40.0°
Efficiency	87 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



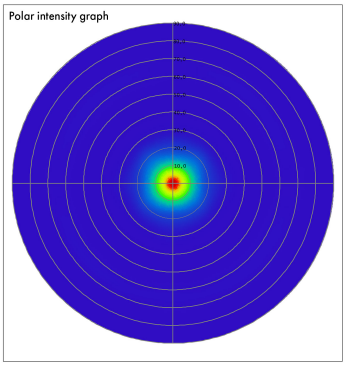
SEOUL SEMICONDUCTOR

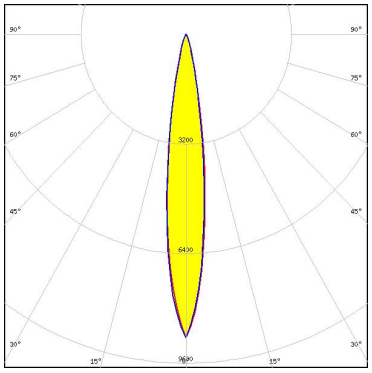
LED	Z5M3
FWHM / FWTM	24.0° / 51.0°
Efficiency	86 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



STANLEY

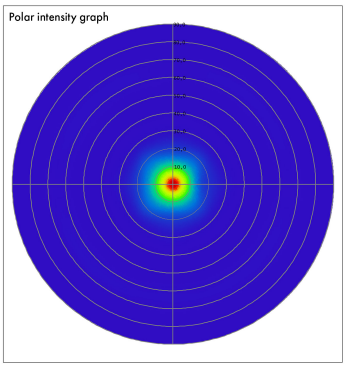
LED	MGN1108MS
FWHM / FWTM	15.0° / 30.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	IR
Required components:	

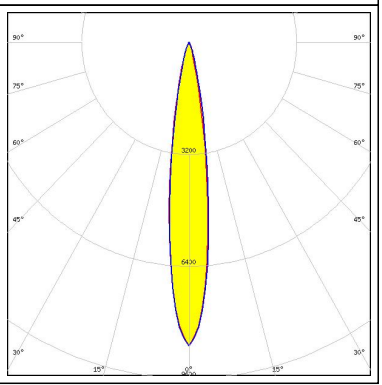




STANLEY

LED	MJN1108MS
FWHM / FWTM	15.0° / 31.0°
Efficiency	90 %
LEDs/each optic	1
Light colour	IR
Required components:	





LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

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

Shipping locations
Salo, Finland
Hong Kong, China

Distribution Partners
www.ledil.com/
where_to_buy

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.