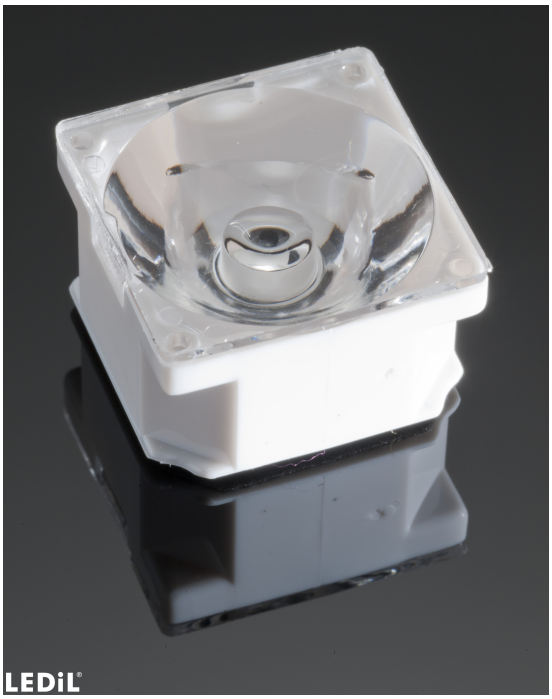
LAURA-RS-PIN

~8° spot beam optimized for CREE XP-E. Assembly with white holder, installation tape and location pins.



SPECIFICATION:

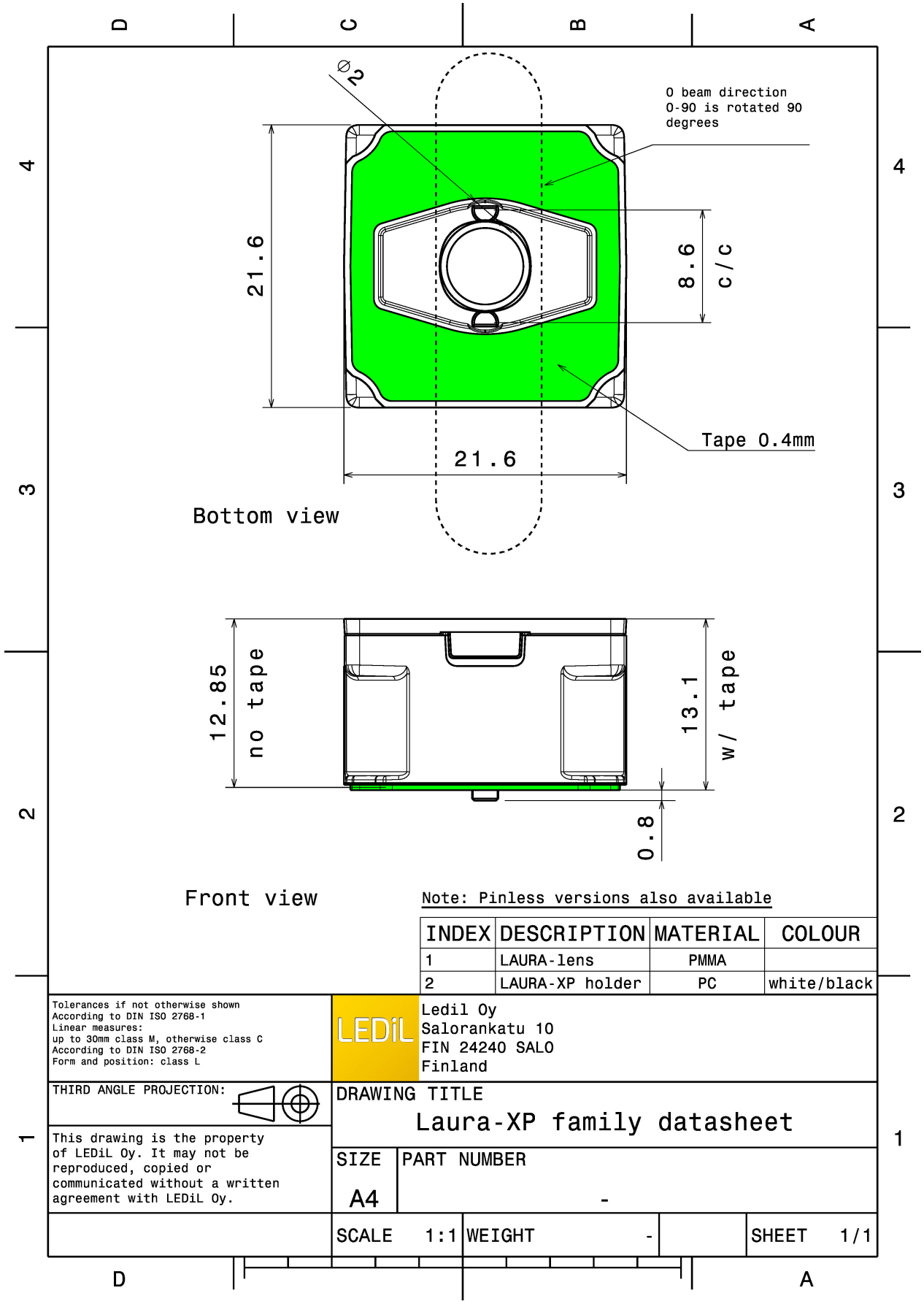
Dimensions	21.6 x 21.6 mm
Height	13.1 mm
Fastening	tape, pin
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Length
LAURA-RS	Single lens	PMMA	clear		21.6
LAURA-PIN-XP-HLD-WHT	Holder	PC	white		21.6
ROSE-TAPE	Tape	Acrylic foam	black		21.6

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA11959_LAURA-RS-PIN » Box size:	1440	360	180	7.6



Note: Pinless versions also available

INDEX	DESCRIPTION	MATERIAL	COLOUR
1	LAURA-lens	PMMA	
2	LAURA-XP holder	PC	white/black

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
up to 30mm class M, otherwise class C
According to DIN ISO 2768-2
Form and position: class L

THIRD ANGLE PROJECTION:

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
Laura-XP family datasheet

SIZE A4 | PART NUMBER -

SCALE 1:1 | WEIGHT - | SHEET 1/1

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

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-E
FWHM / FWTM	8.0° / 16.0°
Efficiency	93 %
Peak intensity	33.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

CREE LEDs

LED	XP-G
FWHM / FWTM	11.0°
Efficiency	93 %
LEDs/each optic	1
Light colour/type	White

Required components:

LUMILEDS

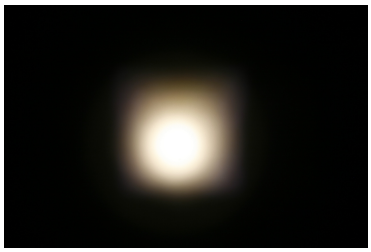
LED	LUXEON Rebel
FWHM / FWTM	7.0° / 16.0°
Efficiency	93 %
Peak intensity	34 cd/lm
LEDs/each optic	1
Light colour/type	White

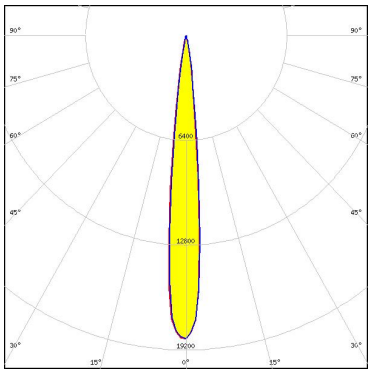
Required components:

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON T
FWHM / FWTM	11.0° / 21.0°
Efficiency	92 %
Peak intensity	18.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

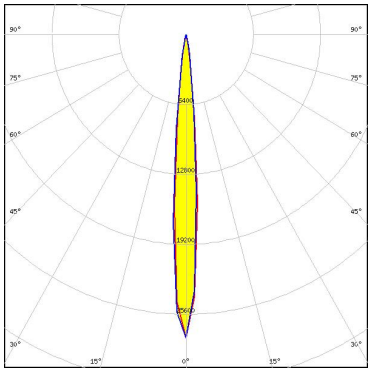




Light distribution files

NICHIA

LED	NCSxx19B
FWHM / FWTM	10.0° / 19.0°
Efficiency	91 %
Peak intensity	27.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

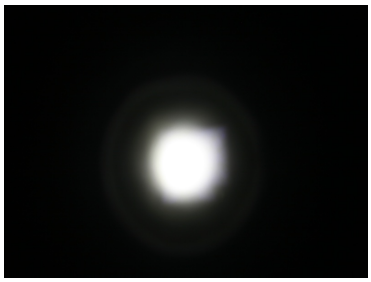
OSRAM
Opto Semiconductors

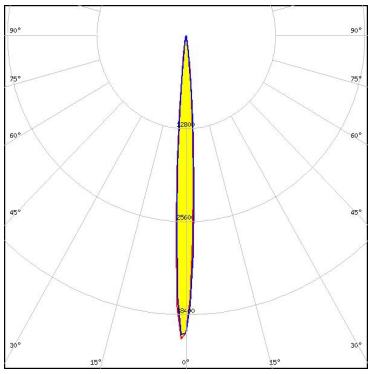
LED	OSLON Square EC
FWHM / FWTM	9.0° / 18.0°
Efficiency	93 %
Peak intensity	20 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	7.0° / 14.0°
Efficiency	92 %
Peak intensity	42 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

OSRAM
Opto Semiconductors

LED	SFH 4725S
FWHM / FWTM	10.0° / 21.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	

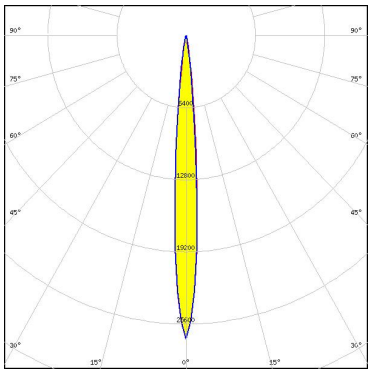
SEOUL SEMICONDUCTOR

LED	Z5
FWHM / FWTM	7.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	

OPTICAL RESULTS (SIMULATED):

CREE LEDs

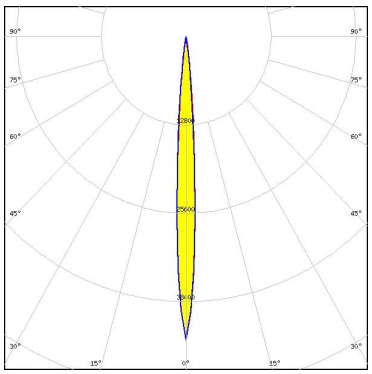
LED	XD16
FWHM / FWTM	8.6° / 18.0°
Efficiency	94 %
Peak intensity	26.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

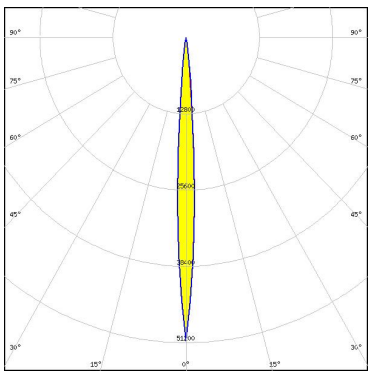
LED	XP-E2
FWHM / FWTM	8.0° / 14.0°
Efficiency	95 %
Peak intensity	44 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-P
FWHM / FWTM	6.0° / 14.0°
Efficiency	96 %
Peak intensity	50.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

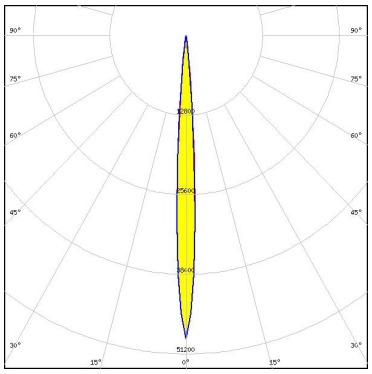


Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE LEDs

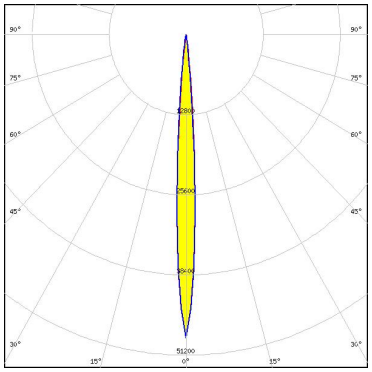
LED	XQ-E HD
FWHM / FWTM	8.0° / 14.0°
Efficiency	93 %
Peak intensity	48.8 cd/lm
LEDs/each optic	1
Light colour/type	Green
Required components:	



Light distribution files

CREE LEDs

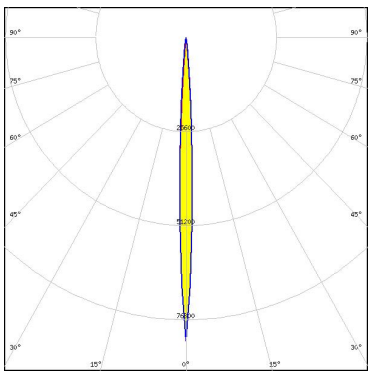
LED	XQ-E HD
FWHM / FWTM	6.0° / 14.0°
Efficiency	94 %
Peak intensity	48.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XQ-E HI
FWHM / FWTM	6.0° / 10.0°
Efficiency	93 %
Peak intensity	82.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON H50-2
FWHM / FWTM	12.0° / 23.0°
Efficiency	92 %
Peak intensity	16.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

LUMILEDS

LED	LUXEON IR Domed 150 (L1I0-0xxx150000000)
FWHM / FWTM	9.0° / 18.0°
Efficiency	0 %
LEDs/each optic	1
Light colour/type	White
Required components:	

LUMILEDS

LED	LUXEON IR Domed 60 (L1I0-0xxx060000000)
FWHM / FWTM	9.2° / 20.0°
Efficiency	94 %
LEDs/each optic	1
Light colour/type	White
Required components:	

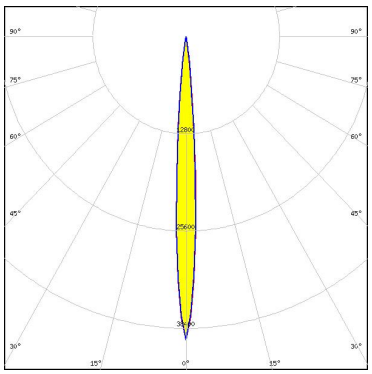
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON IR Domed 90 (L1I0-0xxx090000000)
FWHM / FWTM	9.0° / 18.0°
Efficiency	94 %
LEDs/each optic	1
Light colour/type	White
Required components:	

LUMILEDS

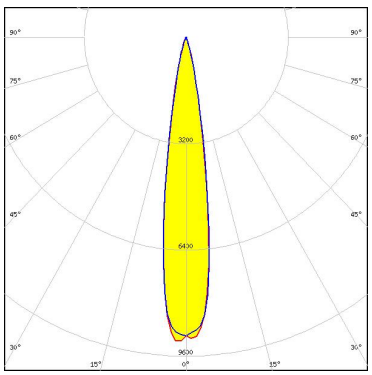
LED	LUXEON Z ES
FWHM / FWTM	8.0° / 15.0°
Efficiency	95 %
Peak intensity	39.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NV4WB35AM
FWHM / FWTM	16.0° / 30.0°
Efficiency	96 %
Peak intensity	9.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

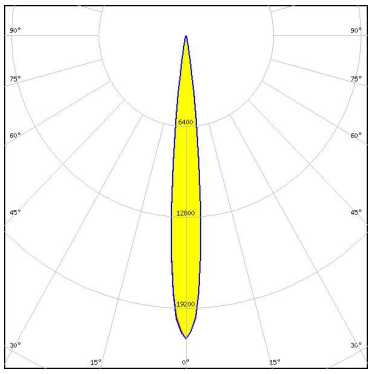


Light distribution files

OPTICAL RESULTS (SIMULATED):

NICHIA

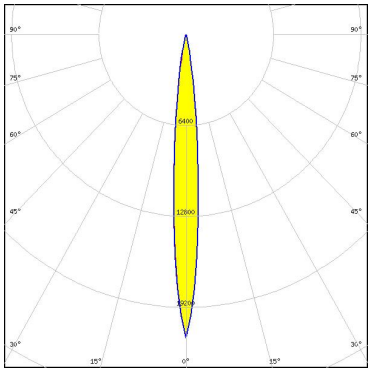
LED	NVSW719AC
FWHM / FWTM	10.0° / 20.0°
Efficiency	96 %
Peak intensity	21.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

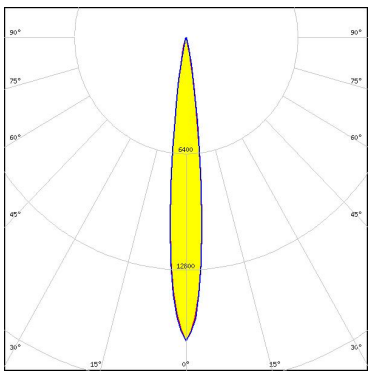
LED	NVSxE21A
FWHM / FWTM	10.0° / 21.0°
Efficiency	94 %
Peak intensity	21.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	12.0° / 22.0°
Efficiency	94 %
Peak intensity	16.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

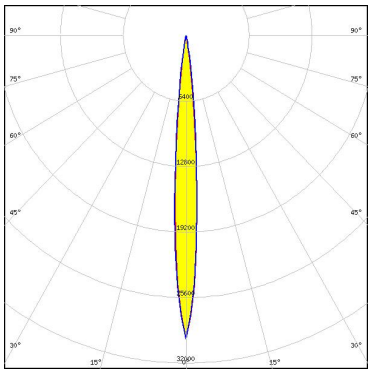


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

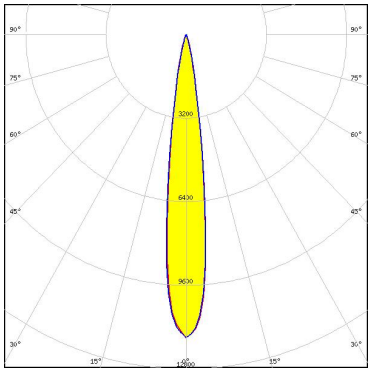
LED	OSCONIQ C 2424
FWHM / FWTM	8.0° / 18.0°
Efficiency	96 %
Peak intensity	29.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

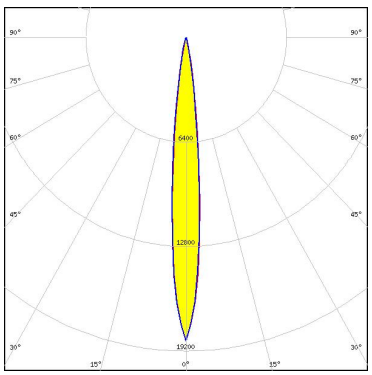
LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	14.0° / 27.0°
Efficiency	94 %
Peak intensity	11.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 Flat
FWHM / FWTM	10.0° / 22.0°
Efficiency	96 %
Peak intensity	18.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

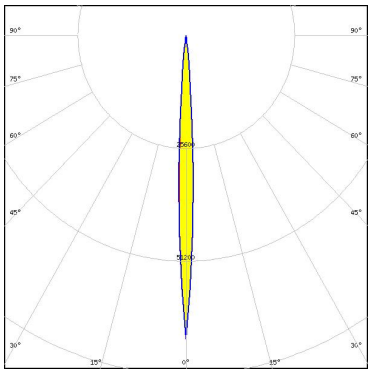


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

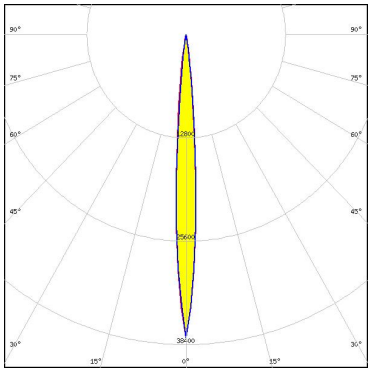
LED	OSLON Black Flat (LUW HWQP)
FWHM / FWTM	6.0° / 12.0°
Efficiency	95 %
Peak intensity	68.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

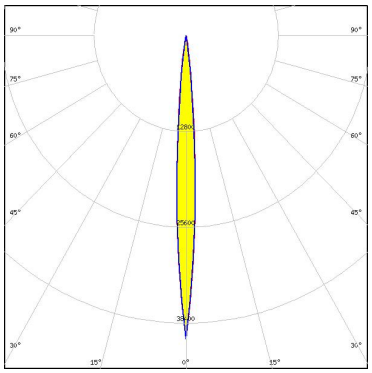
LED	OSLON Boost HX (KW CULPM1.TG)
FWHM / FWTM	8.0° / 16.0°
Efficiency	96 %
Peak intensity	37.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Signal
FWHM / FWTM	8.0° / 16.0°
Efficiency	95 %
Peak intensity	40.5 cd/lm
LEDs/each optic	1
Light colour/type	Red
Required components:	

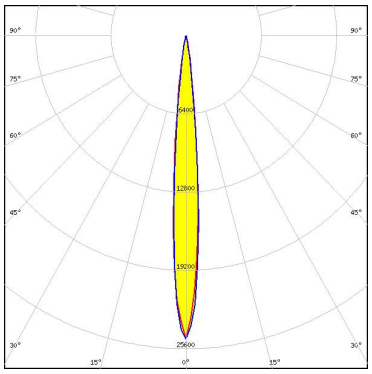


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

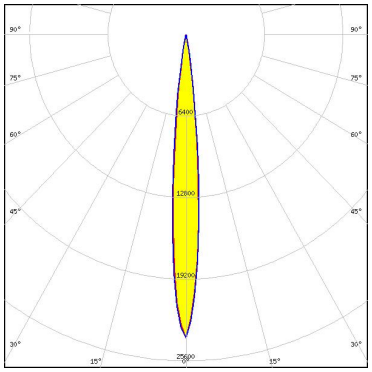
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	9.5° / 19.0°
Efficiency	94 %
Peak intensity	24.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	SFH 4715AS
FWHM / FWTM	10.0° / 19.0°
Efficiency	94 %
Peak intensity	23.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	SFH 4715S
FWHM / FWTM	9.5°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED	SFH 4770S
FWHM / FWTM	10.0° / 23.0°
Efficiency	94 %
LEDs/each optic	1
Light colour/type	White
Required components:	

SAMSUNG

LED	LM301B
FWHM / FWTM	9.0° / 19.0°
Efficiency	94 %
Peak intensity	24.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

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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