VERONICA-SQ-MINI-D

~15° diffused spot beam



SPECIFICATION:

Dimensions	13.9 x 13.9 mm
Height	8.9 mm
Fastening	tape, pin
ROHS compliant	yes

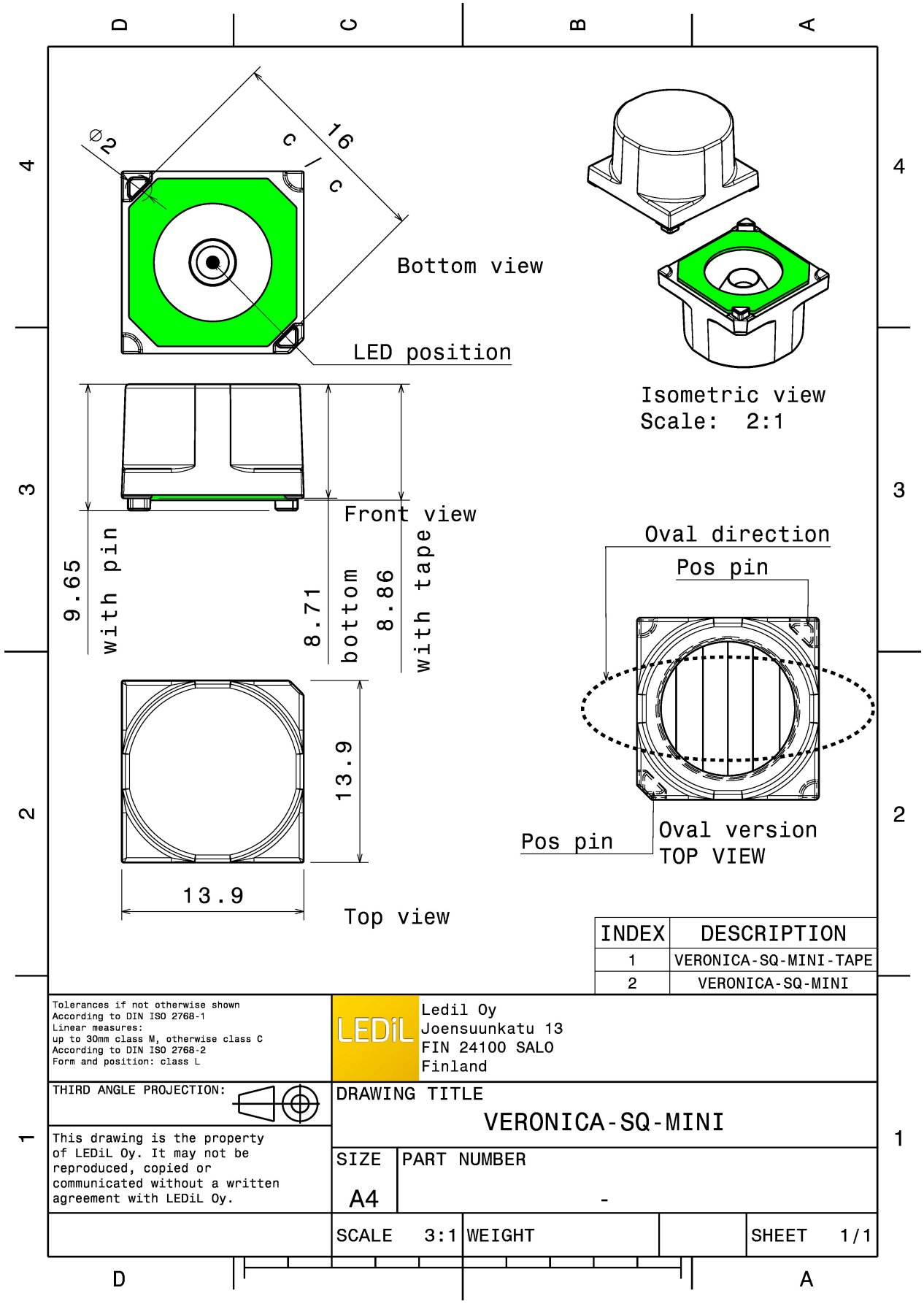
MATERIALS:

Component	Type	Material	Colour	Finish
VERONICA-SQ-MINI-D	Single lens	PMMA	clear	
VERONICA-SQ-MINI-TAPE	Tape	Acrylic foam	clear	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA15519_VERONICA-SQ-MINI-D » Box size: 480 x 280 x 300 mm	Single lens	5544	252	252	8.2

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INDEX	DESCRIPTION
1	VERONICA-SQ-MINI-TAPE
2	VERONICA-SQ-MINI

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

Ledil Oy
Joensuunkatu 13
FIN 24100 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
VERONICA-SQ-MINI

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SIZE A4 | PART NUMBER -

SCALE 3:1 | WEIGHT | SHEET 1/1

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

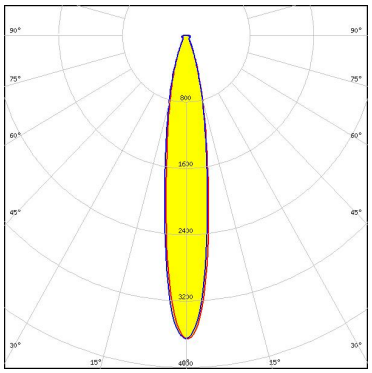
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OPTICAL RESULTS (MEASURED):

CREE LEDs

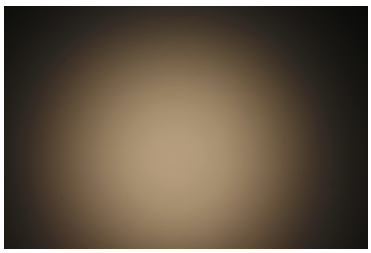
LED	XD16
FWHM / FWTM	17.0° / 42.0°
Efficiency	90 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

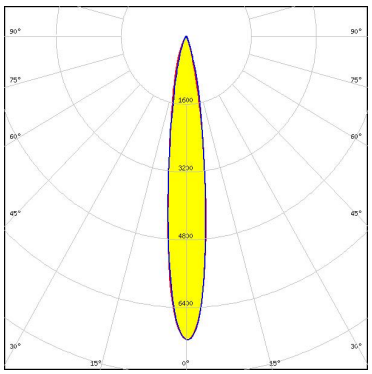




CREE LEDs

LED	XP-E2
FWHM / FWTM	15.0° / 33.0°
Efficiency	92 %
Peak intensity	7.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

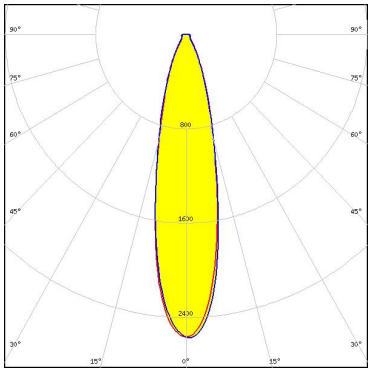




CREE LEDs

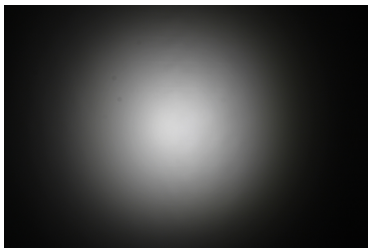
LED	XP-G3
FWHM / FWTM	24.0° / 55.0°
Efficiency	93 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

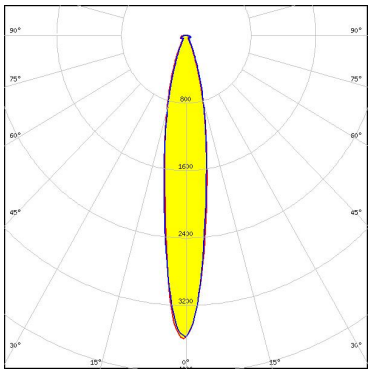




NICHIA

LED	NCSxE17A
FWHM / FWTM	17.0° / 44.0°
Efficiency	89 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





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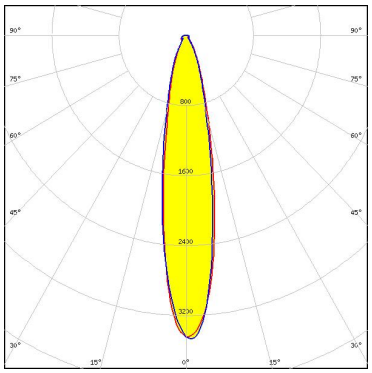
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Duris S5 (2 chip)
FWHM / FWTM	20.0° / 48.0°
Efficiency	93 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:





OSRAM
Opto Semiconductors

LED	SFH 4170S
FWHM / FWTM	11.0° / 31.0°
Efficiency	%
LEDs/each optic	1
Light colour	IR

Required components:

OSRAM
Opto Semiconductors

LED	SFH 4180S
FWHM / FWTM	11.0° / 29.0°
Efficiency	%
LEDs/each optic	1
Light colour	IR

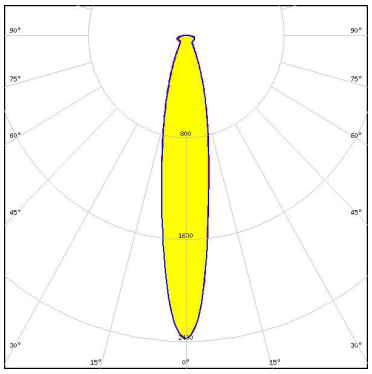
Required components:

SAMSUNG

LED	LH181A
FWHM / FWTM	19.0° / 51.0°
Efficiency	88 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:





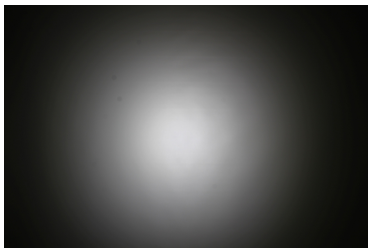
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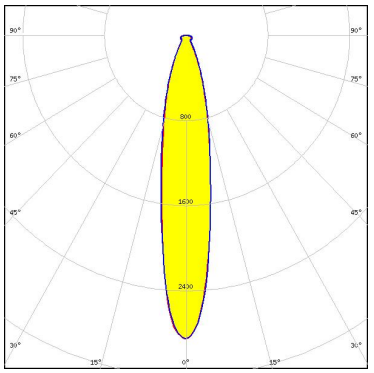
OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LH181B
FWHM / FWTM	19.0° / 50.0°
Efficiency	90 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



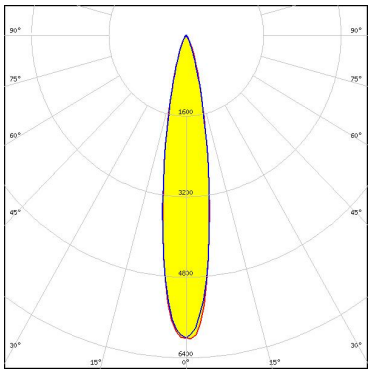


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OPTICAL RESULTS (SIMULATED):

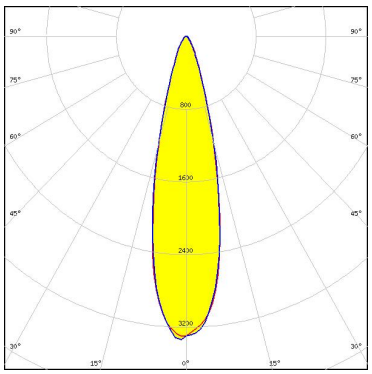
CREE LEDs

LED	J Series 3030
FWHM / FWTM	18.0° / 38.0°
Efficiency	94 %
Peak intensity	6.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



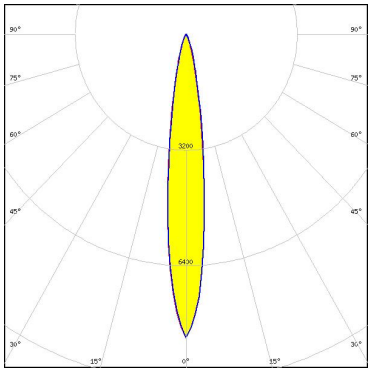
CREE LEDs

LED	XP-G2 HE
FWHM / FWTM	26.0° / 49.0°
Efficiency	97 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



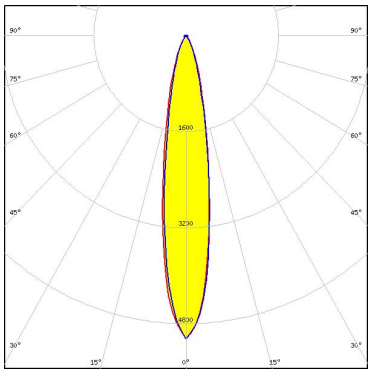
LUMILEDS

LED	LUXEON 2835 Line
FWHM / FWTM	14.0° / 32.0°
Efficiency	96 %
Peak intensity	8.4 cd/lm
LEDs/each optic	1
Light colour	PC Amber
Required components:	



LUMILEDS

LED	LUXEON 3030 HV
FWHM / FWTM	18.0° / 43.0°
Efficiency	95 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

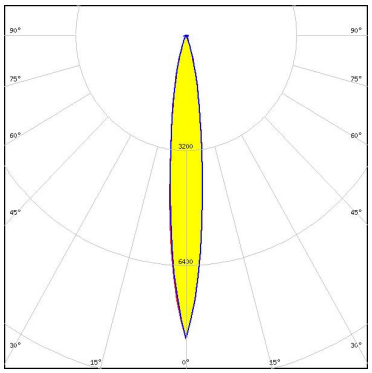


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OPTICAL RESULTS (SIMULATED):

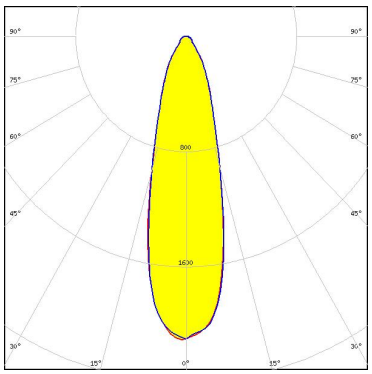
LUMILEDS

LED	LUXEON HL1Z
FWHM / FWTM	12.0° / 32.0°
Efficiency	96 %
Peak intensity	8.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



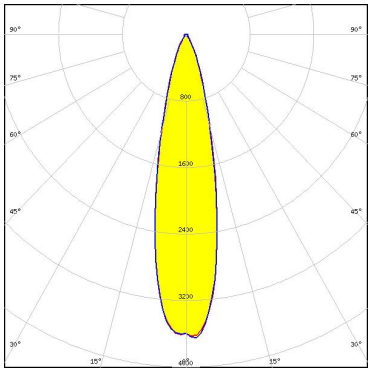
NICHIA

LED	NV4WB35AM
FWHM / FWTM	28.0° / 68.0°
Efficiency	95 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



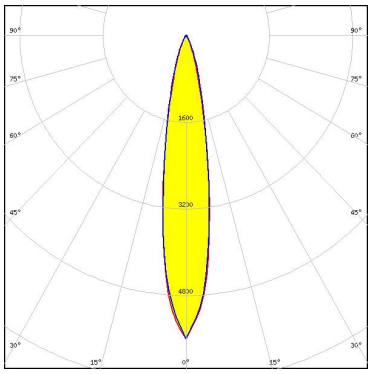
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	24.0° / 48.0°
Efficiency	94 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	18.0° / 39.0°
Efficiency	94 %
Peak intensity	5.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

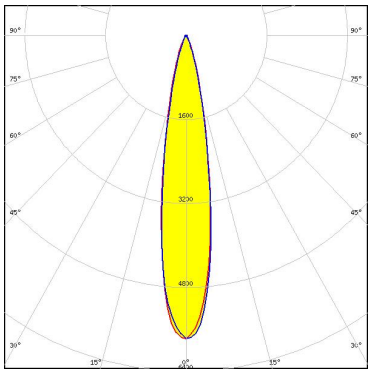


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OPTICAL RESULTS (SIMULATED):

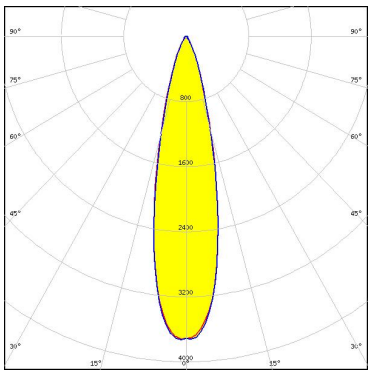
OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	19.0° / 38.0°
Efficiency	94 %
Peak intensity	5.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



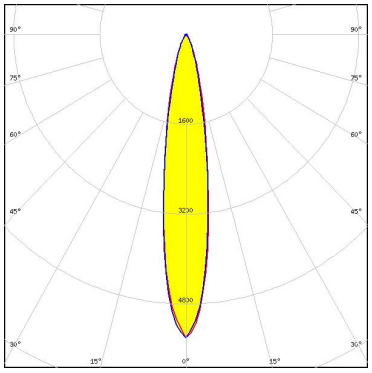
SAMSUNG

LED	LH351B
FWHM / FWTM	24.0° / 47.0°
Efficiency	94 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



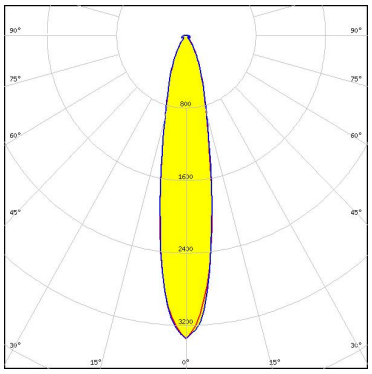
SEOUL SEMICONDUCTOR

LED	MJT 3030
FWHM / FWTM	18.0° / 41.0°
Efficiency	96 %
Peak intensity	5.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	Z8Y22T
FWHM / FWTM	20.0° / 52.0°
Efficiency	94 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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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.

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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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