VERONICA-SQ-MINI-M

~35° medium 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-M	Single lens	PMMA	clear	
VERONICA-SQ-MINI-TAPE	Tape	Acrylic foam	clear	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA15230_VERONICA-SQ-MINI-M » Box size: 480 x 280 x 300 mm	Single lens	5544	252	252	8.5

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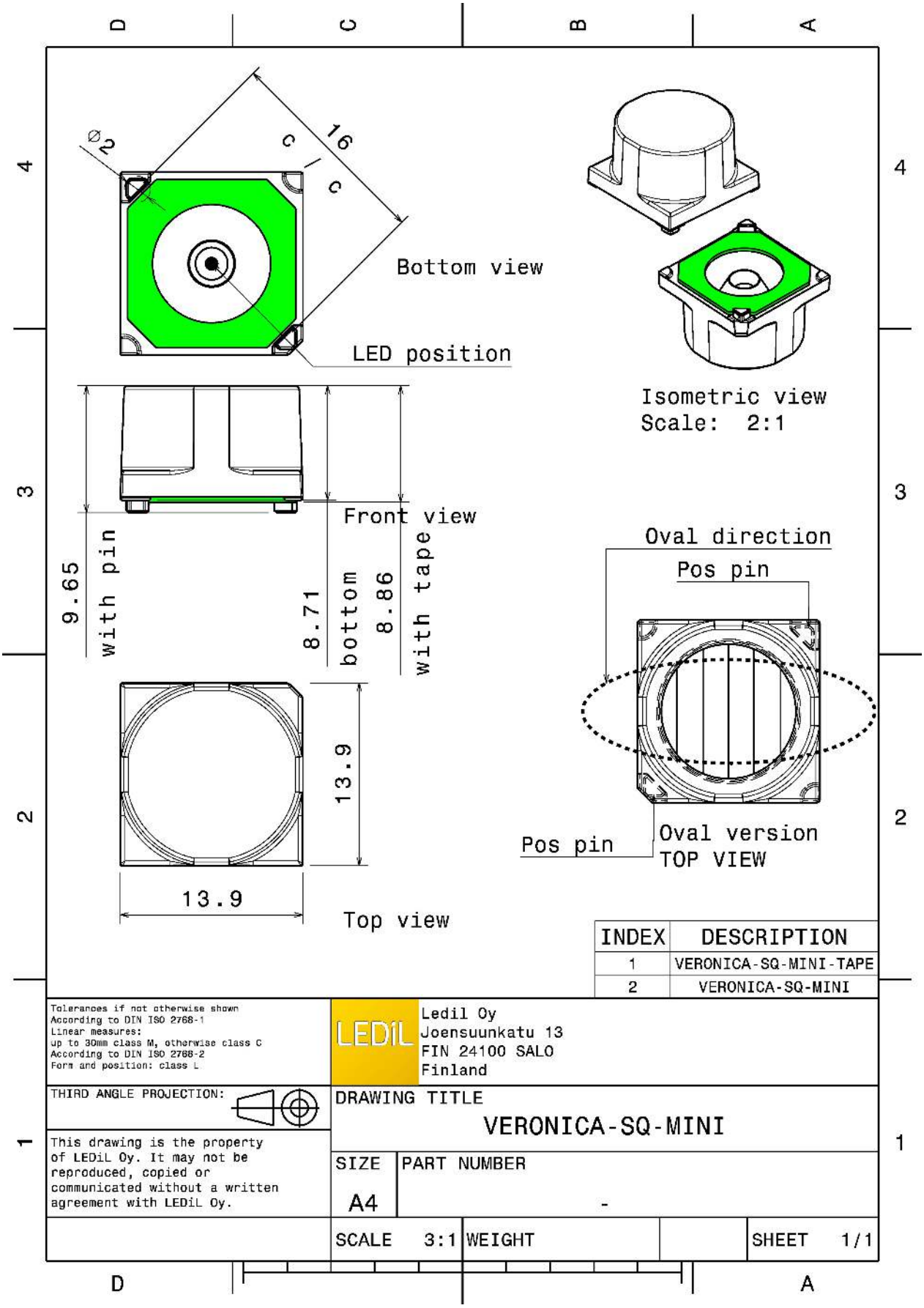

INDEX	DESCRIPTION
1	VERONICA-SQ-MINI-TAPE
2	VERONICA-SQ-MINI

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 -

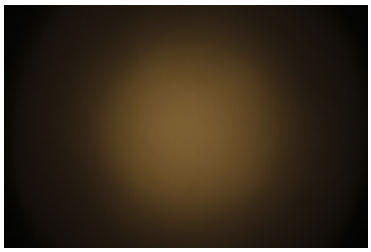
SCALE 3:1 | WEIGHT | SHEET 1/1

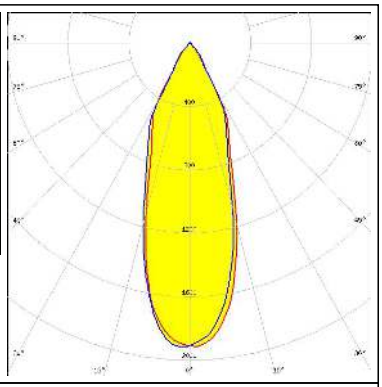
See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

CREE LED

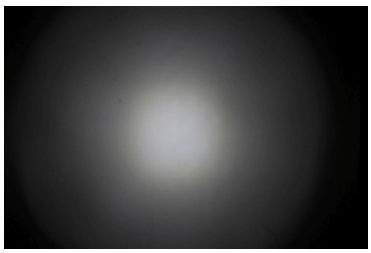
LED	XP-G2
FWHM / FWTM	34.0° / 65.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	White
Required components:	

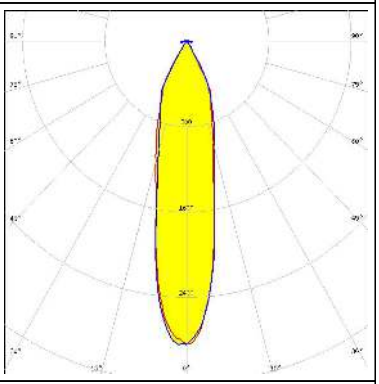




NICHIA

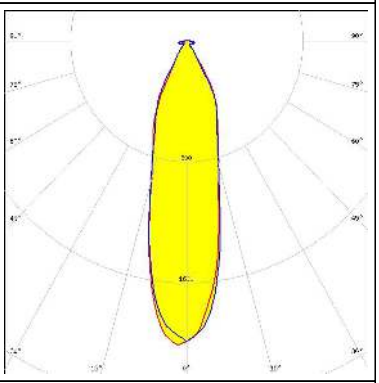
LED	NCSxE17A
FWHM / FWTM	23.0° / 59.0°
Efficiency	93 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





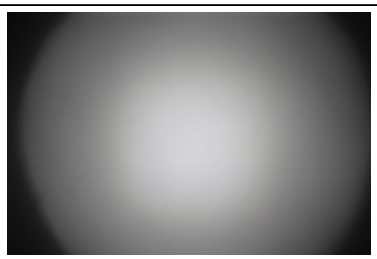
SAMSUNG

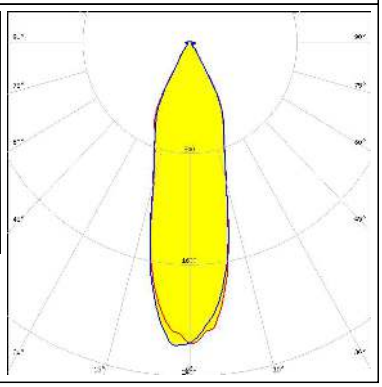
LED	LH181A
FWHM / FWTM	27.0° / 61.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

LED	LH181B
FWHM / FWTM	29.0° / 61.0°
Efficiency	93 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





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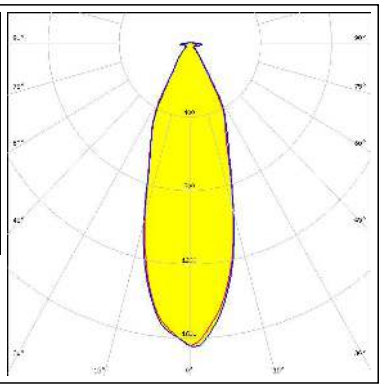
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	34.0° / 65.0°
Efficiency	93 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

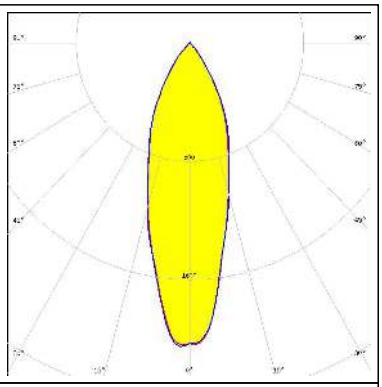
Required components:



OPTICAL RESULTS (SIMULATED):

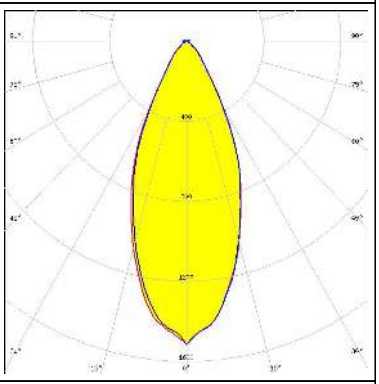
CREE LED

LED	XP-E2
FWHM / FWTM	33.0° / 73.0°
Efficiency	96 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



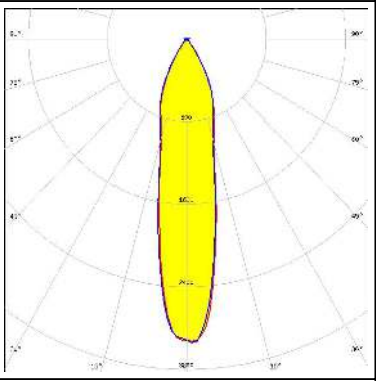
CREE LED

LED	XP-G3
FWHM / FWTM	44.0° / 75.0°
Efficiency	96 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



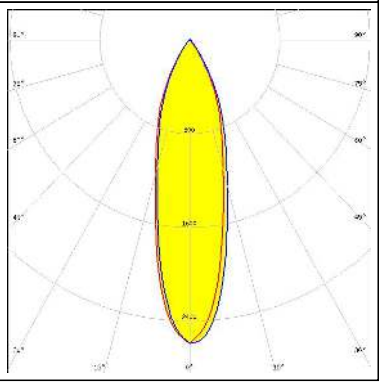
CREE LED

LED	XQ-E HI
FWHM / FWTM	23.0° / 64.0°
Efficiency	96 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON 2835 Line
FWHM / FWTM	28.0° / 64.0°
Efficiency	96 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	PC Amber
Required components:	



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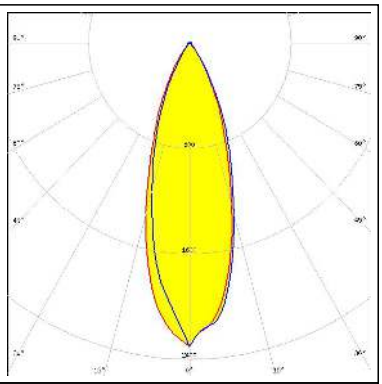
OPTICAL RESULTS (SIMULATED):

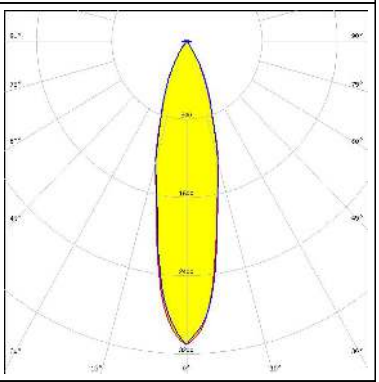
LUMILEDS

LED	LUXEON 3030 HV
FWHM / FWTM	33.0° / 64.0°
Efficiency	95 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



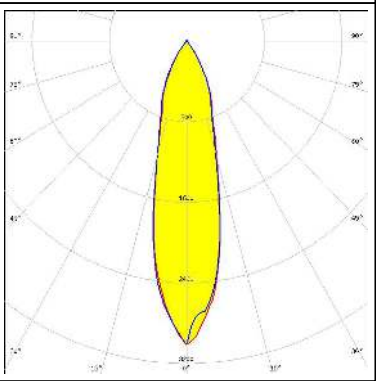
LUMILEDS

LED	LUXEON HL1Z
FWHM / FWTM	24.0° / 58.0°
Efficiency	95 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



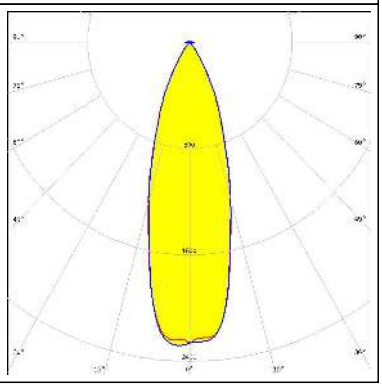
LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	25.0° / 62.0°
Efficiency	94 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

LED	NVSxE21A
FWHM / FWTM	32.0° / 62.0°
Efficiency	94 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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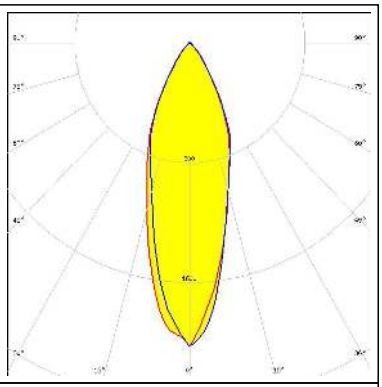
OPTICAL RESULTS (SIMULATED):

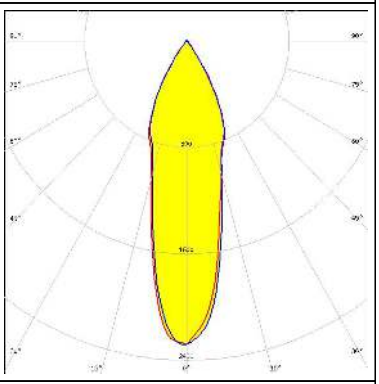
OSRAM Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	31.0° / 70.0°
Efficiency	97 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



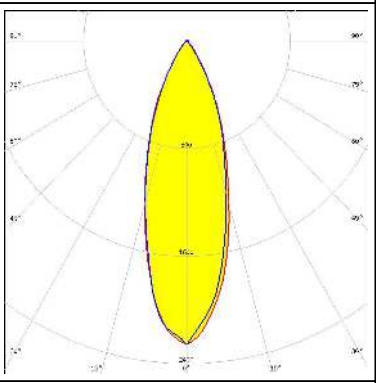
OSRAM Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	28.0° / 68.0°
Efficiency	94 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



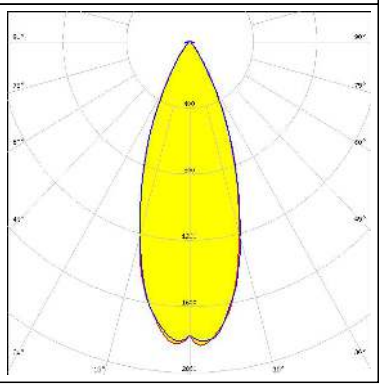
SEOUL SEMICONDUCTOR

LED	MJT 3030
FWHM / FWTM	33.0° / 66.0°
Efficiency	96 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	Z8Y22T
FWHM / FWTM	38.0° / 66.0°
Efficiency	94 %
Peak intensity	1.9 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:

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