VERONICA-O

~55° + 10° oval beam

SPECIFICATION:

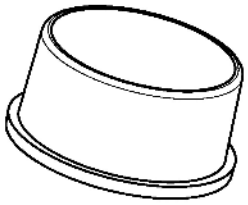
Dimensions	Ø 26.0 mm
Height	12.2 mm
Fastening	glue, pin
ROHS compliant	yes

MATERIALS:

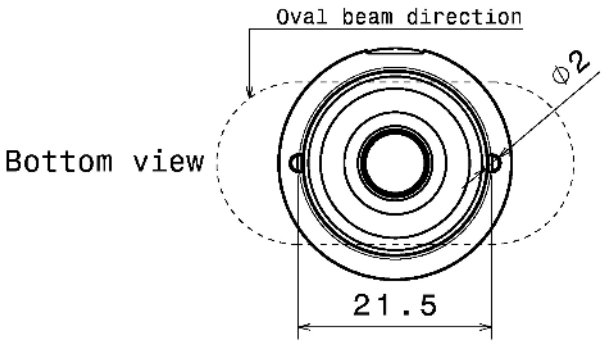
Component	Type	Material	Colour	Finish
VERONICA-O	Single lens	PMMA	clear	

ORDERING INFORMATION:

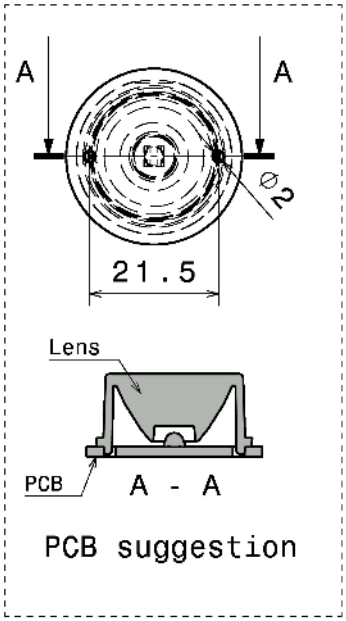
Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13529_VERONICA-O » Box size: 480 x 280 x 300 mm	2240	336	112	11.1



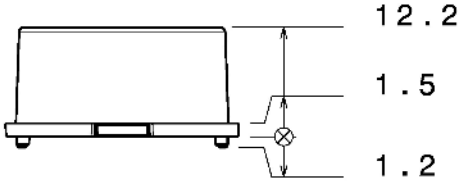
Isometric view



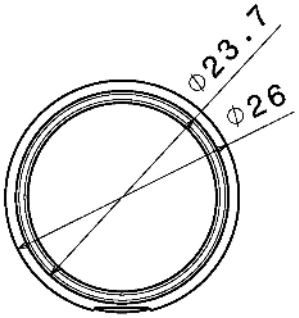
Bottom view



PCB suggestion



Front view



Top view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	-	VERONICA	PMMA	

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
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
VERONICA SERIES

SIZE A4 | PART NUMBER -

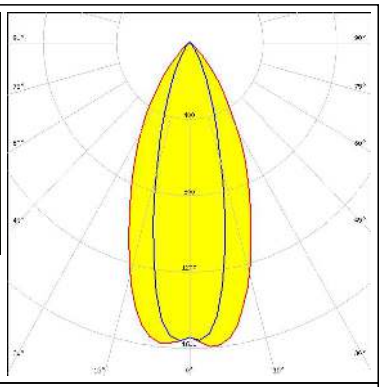
SCALE 1:1 | WEIGHT | SHEET 1/1

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

OPTICAL RESULTS (MEASURED):

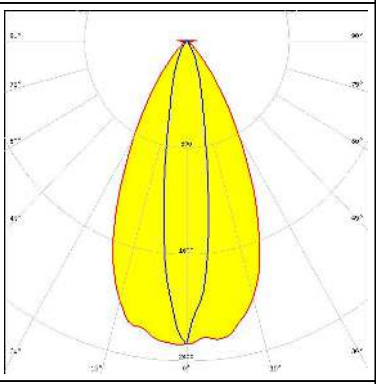
CREE LED

LED	MK-R
FWHM / FWTM	48.0 + 28.0° / 85.0 + 58.0°
Efficiency	80 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LED

LED	XHP35 HD
FWHM / FWTM	52.0 + 19.0° / 84.0 + 44.0°
Efficiency	80 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

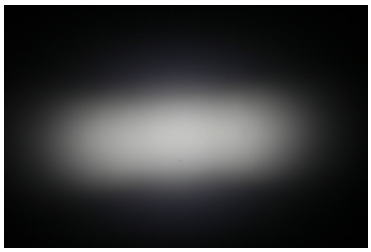


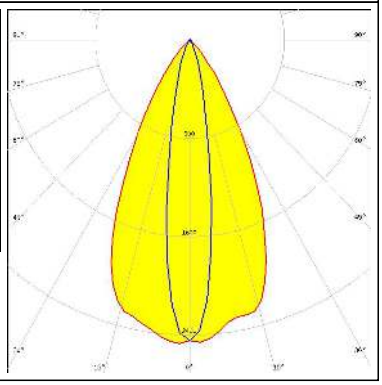
CREE LED

LED	XHP35 HI
FWHM / FWTM	53.0 + 16.0° / 82.0 + 38.0°
Efficiency	82 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LED

LED	XM-L
FWHM / FWTM	54.0 + 18.0° / 81.0 + 40.0°
Efficiency	83 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

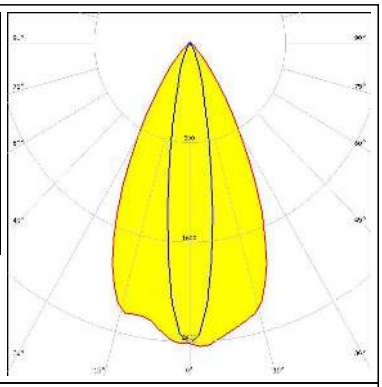




OPTICAL RESULTS (MEASURED):

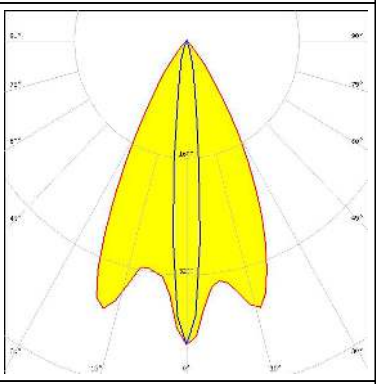
CREE LED

LED	XM-L2
FWHM / FWTM	54.0 + 18.0° / 81.0 + 41.0°
Efficiency	82 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



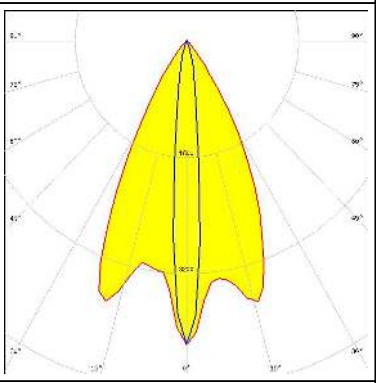
CREE LED

LED	XP-E
FWHM / FWTM	54.0 + 11.0° / 76.0 + 26.0°
Efficiency	83 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



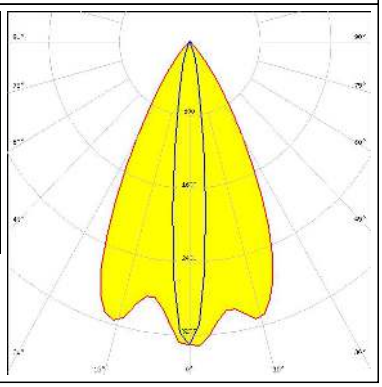
CREE LED

LED	XP-E2
FWHM / FWTM	54.0 + 11.0° / 76.0 + 27.0°
Efficiency	84 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LED

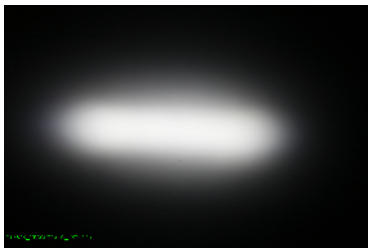
LED	XP-G
FWHM / FWTM	55.0 + 13.0° / 79.0 + 30.0°
Efficiency	83 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

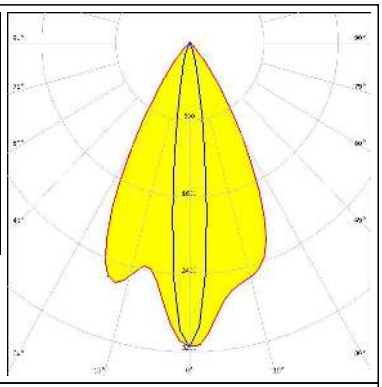


OPTICAL RESULTS (MEASURED):

CREE LED

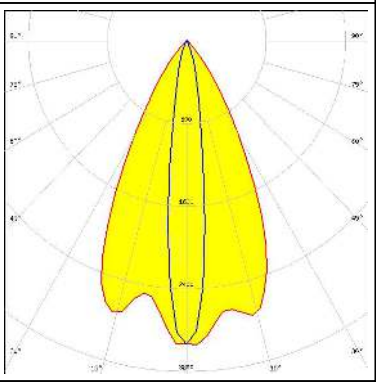
LED	XP-G2
FWHM / FWTM	55.0 + 13.0° / 78.0 + 30.0°
Efficiency	84 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





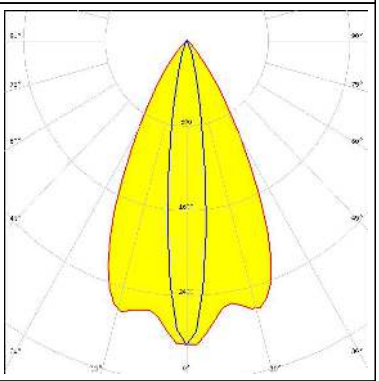
CREE LED

LED	XT-E
FWHM / FWTM	54.0 + 15.0° / 79.0 + 33.0°
Efficiency	81 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



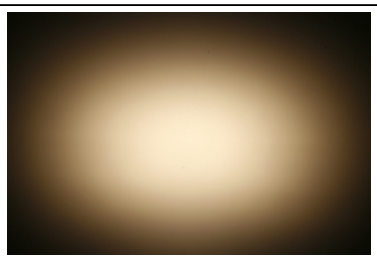
LUMILEDS

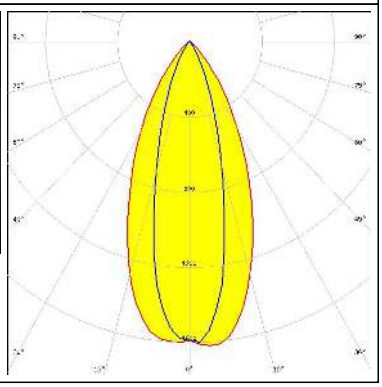
LED	LUXEON A
FWHM / FWTM	54.0 + 15.0° / 79.0 + 33.0°
Efficiency	82 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON M/MX
FWHM / FWTM	49.0 + 28.0° / 84.0 + 57.0°
Efficiency	79 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

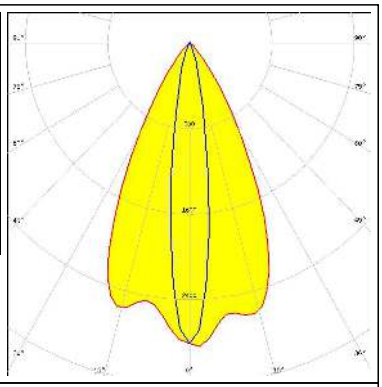




OPTICAL RESULTS (MEASURED):

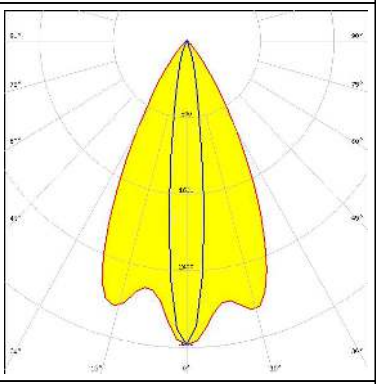
LUMILEDS

LED	LUXEON R
FWHM / FWTM	54.0 + 16.0° / 79.0 + 34.0°
Efficiency	81 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



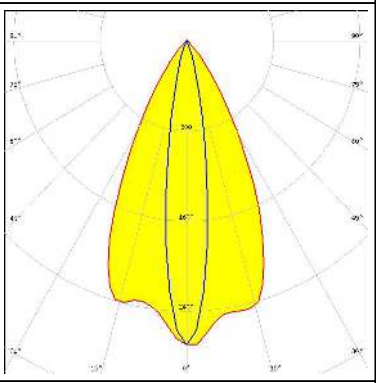
LUMILEDS

LED	LUXEON Rebel
FWHM / FWTM	54.0 + 14.0° / 78.0 + 31.0°
Efficiency	82 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



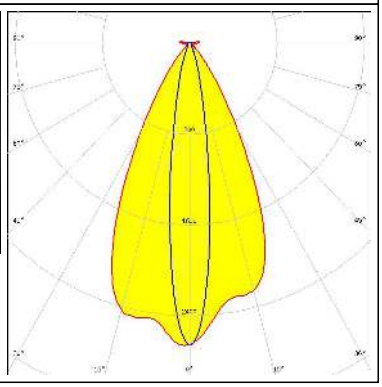
LUMILEDS

LED	LUXEON Rebel ES
FWHM / FWTM	54.0 + 17.0° / 80.0 + 34.0°
Efficiency	81 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

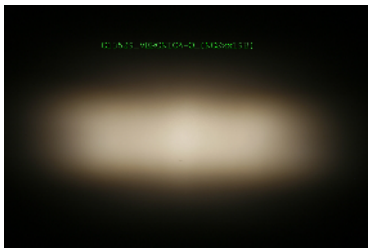
LED	LUXEON V2
FWHM / FWTM	52.0 + 16.0° / 78.0 + 36.0°
Efficiency	90 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (MEASURED):

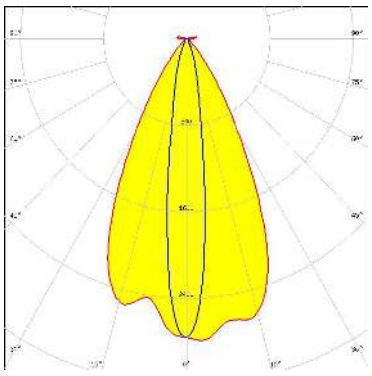
NICHIA

LED	NCSxx19B
FWHM / FWTM	52.0 + 15.0° / 80.0 + 32.0°
Efficiency	80 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



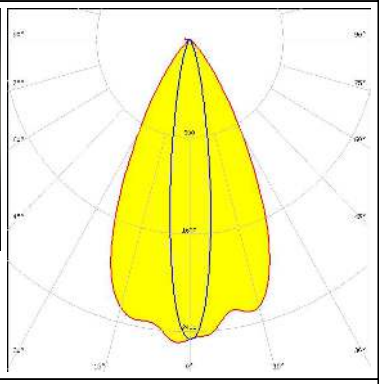
NICHIA

LED	NVSW219F
FWHM / FWTM	53.0 + 15.0° / 79.0 + 36.0°
Efficiency	91 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



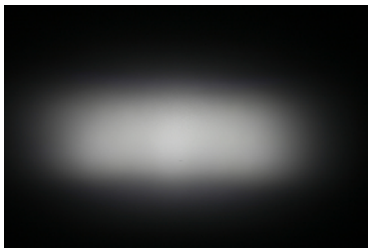
NICHIA

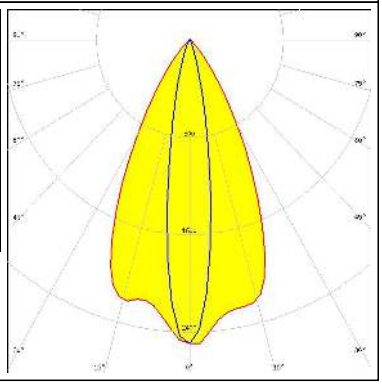
LED	NVSW3x9A
FWHM / FWTM	53.0 + 16.0° / 80.0 + 35.0°
Efficiency	80 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

LED	NVSxx19A
FWHM / FWTM	53.0 + 18.0° / 80.0 + 36.0°
Efficiency	79 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

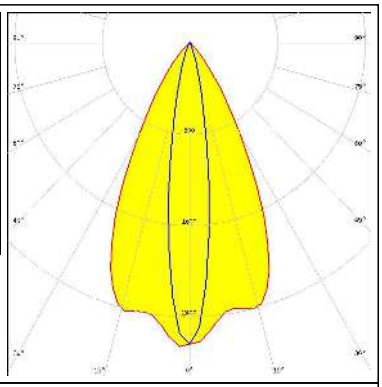




OPTICAL RESULTS (MEASURED):

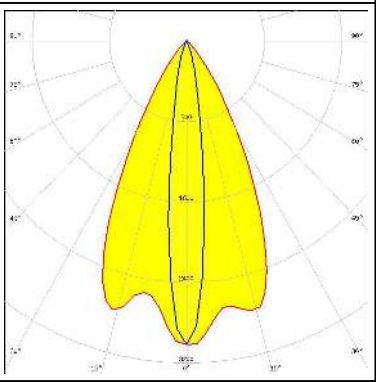
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	54.0 + 17.0° / 79.0 + 35.0°
Efficiency	79 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



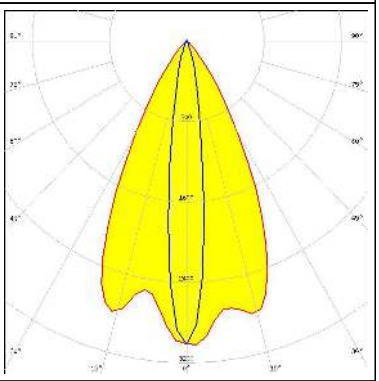
OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	54.0 + 14.0° / 79.0 + 32.0°
Efficiency	81 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



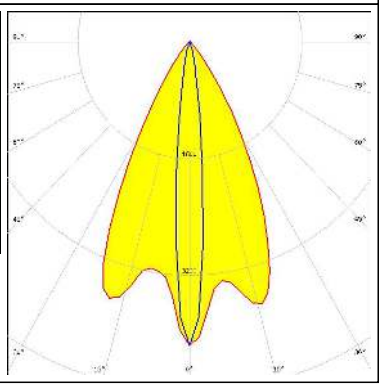
OSRAM
Opto Semiconductors

LED	OSLON Square PC
FWHM / FWTM	54.0 + 15.0° / 79.0 + 32.0°
Efficiency	81 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

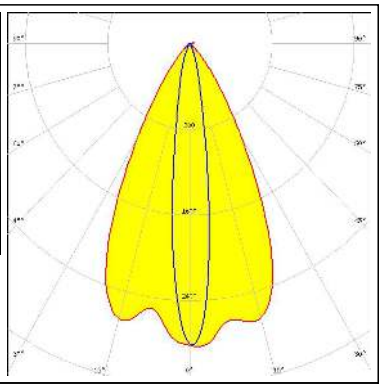
LED	OSLON SSL 150
FWHM / FWTM	54.0 + 11.0° / 76.0 + 24.0°
Efficiency	83 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (MEASURED):

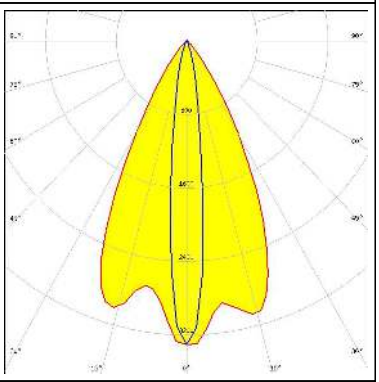
SAMSUNG

LED	LH351B
FWHM / FWTM	54.0 + 14.0° / 79.0 + 33.0°
Efficiency	84 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



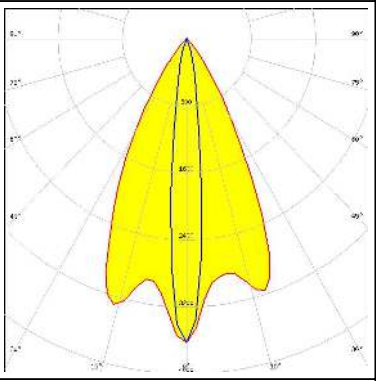
SAMSUNG

LED	LH351Z
FWHM / FWTM	54.0 + 13.0° / 78.0 + 31.0°
Efficiency	83 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



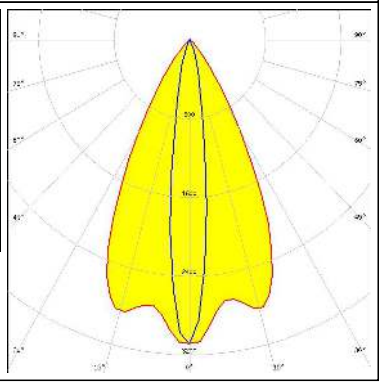
SEOUL SEMICONDUCTOR

LED	Z5
FWHM / FWTM	54.0 + 13.0° / 77.0 + 28.0°
Efficiency	83 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	Z5M1/Z5M2
FWHM / FWTM	54.0 + 15.0° / 79.0 + 33.0°
Efficiency	83 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

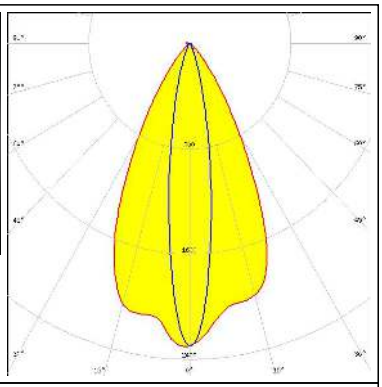


OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	52.0 + 17.0° / 79.0 + 37.0°
Efficiency	77 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

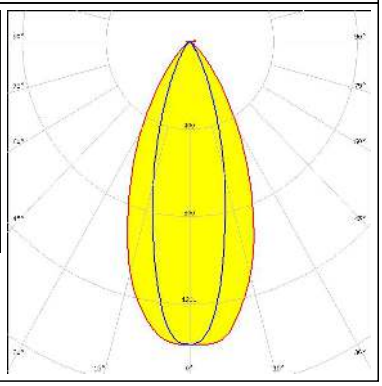
Required components:



SEOUL SEMICONDUCTOR

LED	Z8Y50P
FWHM / FWTM	48.0 + 29.0° / 84.0 + 58.0°
Efficiency	73 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

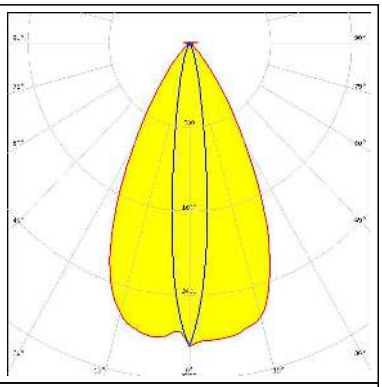
Required components:



OPTICAL RESULTS (SIMULATED):

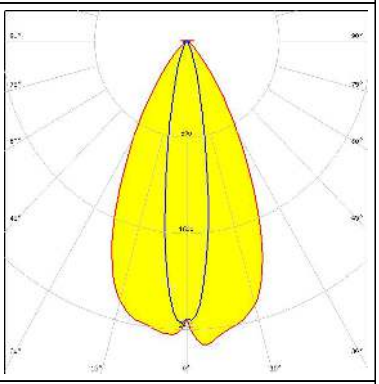
CREE LED

LED	XP-G2 HE
FWHM / FWTM	54.0 + 14.0° / 80.0 + 32.0°
Efficiency	90 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



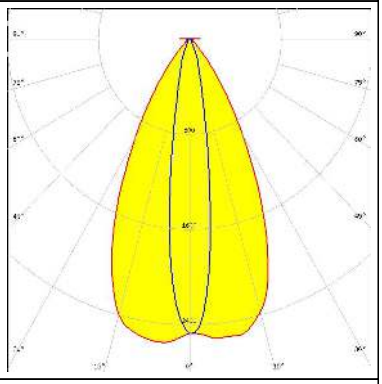
NICHIA

LED	NV4WB35AM
FWHM / FWTM	52.0 + 18.0° / 82.0 + 38.0°
Efficiency	91 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



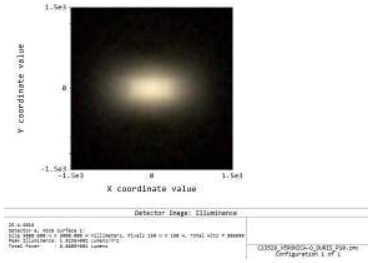
NICHIA

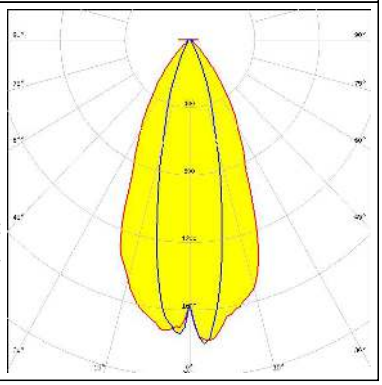
LED	NVSW519A
FWHM / FWTM	54.0 + 16.0° / 82.0 + 37.0°
Efficiency	91 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	OSCONIQ P 7070
FWHM / FWTM	48.0 + 25.0° / 85.0 + 50.0°
Efficiency	85 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

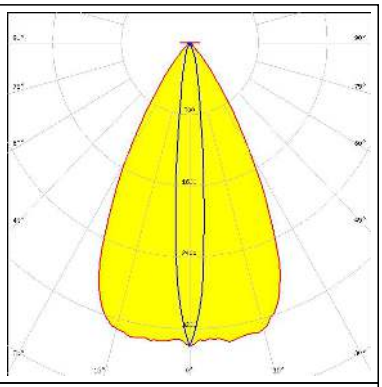




OPTICAL RESULTS (SIMULATED):

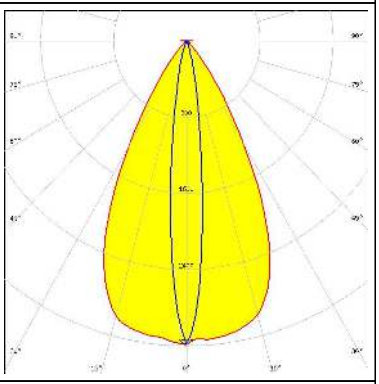
OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	57.0 + 11.0° / 80.0 + 26.0°
Efficiency	92 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



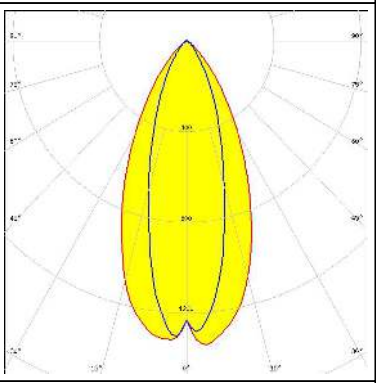
SEOUL SEMICONDUCTOR

LED	MJT 3030
FWHM / FWTM	56.0 + 12.0° / 78.0 + 28.0°
Efficiency	90 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



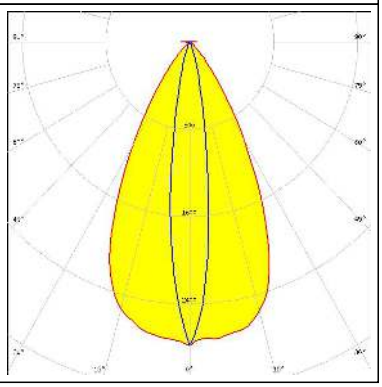
SEOUL SEMICONDUCTOR

LED	MJT 5050
FWHM / FWTM	50.0 + 30.0° / 87.0 + 68.0°
Efficiency	78 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	54.0 + 14.0° / 80.0 + 32.0°
Efficiency	90 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
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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