VERONICA-SQ-MINI-O

~15° + 50° oval 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-O	Single lens	PMMA	clear	
VERONICA-SQ-MINI-TAPE	Tape	Acrylic foam	clear	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA14602_VERONICA-SQ-MINI-O	Single lens	5544	252	252	7.8
» Box size: 480 x 280 x 300 mm					

D   C   B   A

4   Ø2   16   4

Bottom view

LED position

Isometric view
Scale: 2:1

3   Front view   3

9.65 with pin

8.71 bottom   8.86 with tape

Oval direction
Pos pin

13.9

Oval version
TOP VIEW
Pos pin

2   13.9   2

Top view

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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agreement with LEDiL Oy.

SIZE	PART NUMBER
A4	-

1

SCALE 3:1	WEIGHT		SHEET 1/1

D   A

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

OPTICAL RESULTS (MEASURED):
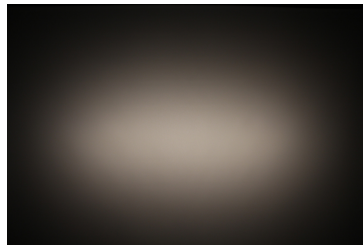
CREE LEDs

LED	XD16
FWHM / FWTM	41.0 + 18.0° / 68.0 + 43.0°
Efficiency	89 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LEDs
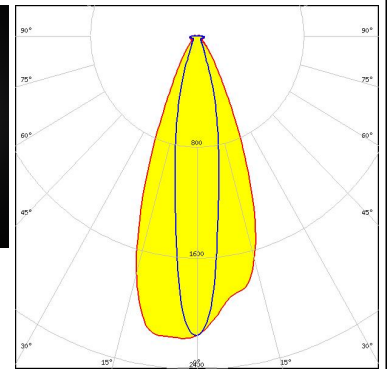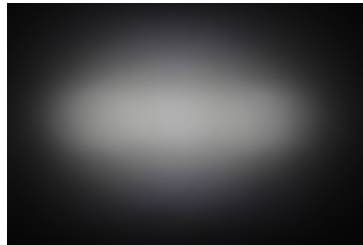
LED	XP-E2
FWHM / FWTM	42.0 + 14.0° / 61.0 + 34.0°
Efficiency	92 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS
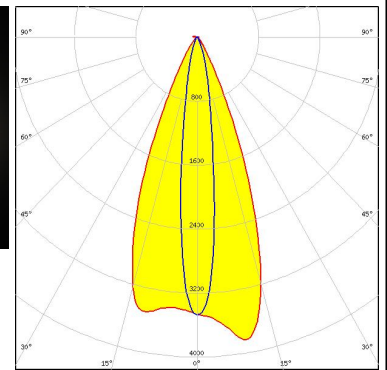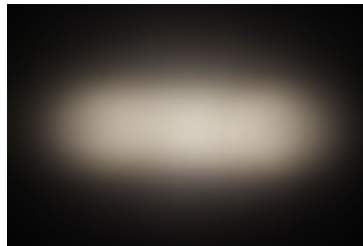
LED	LUXEON Rebel
FWHM / FWTM	42.0 + 20.0° / 71.0 + 50.0°
Efficiency	90 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
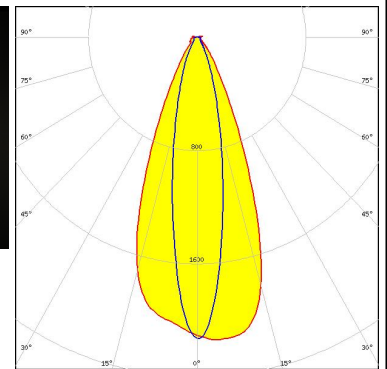
LUMILEDS

LED	LUXEON Rebel ES
FWHM / FWTM	50.0 + 23.0° / 71.0 + 51.0°
Efficiency	80 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
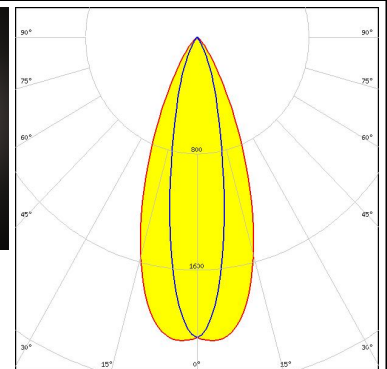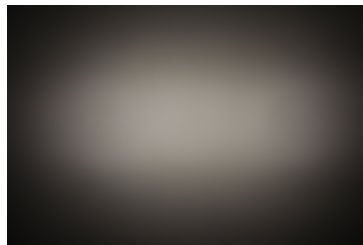
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON TX
FWHM / FWTM	42.0 + 22.0° / 73.0 + 54.0°
Efficiency	90 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
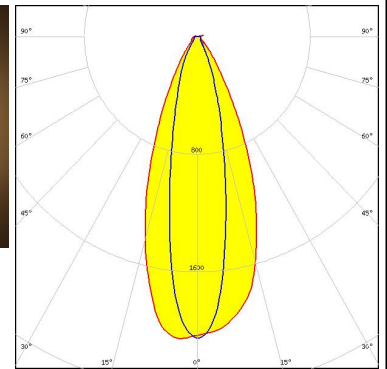
NICHIA

LED	NCSxE17A
FWHM / FWTM	40.0 + 20.0° / 69.0 + 44.0°
Efficiency	89 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
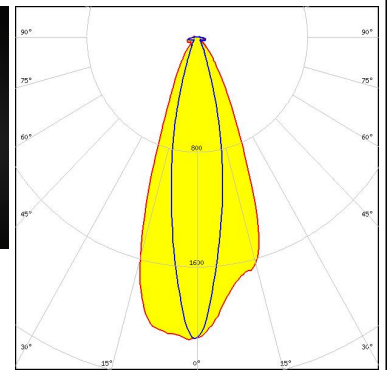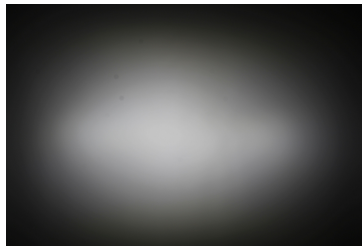
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	41.0 + 23.0° / 74.0 + 56.0°
Efficiency	90 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
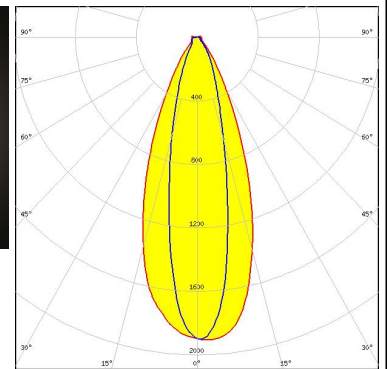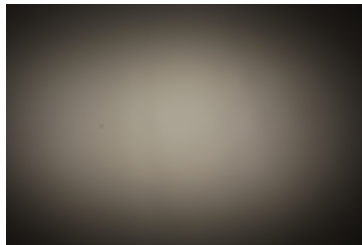
OSRAM
Opto Semiconductors

LED	Duris S5 (2 chip)
FWHM / FWTM	76.0 + 22.0° / 79.0 + 61.0°
Efficiency	74 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
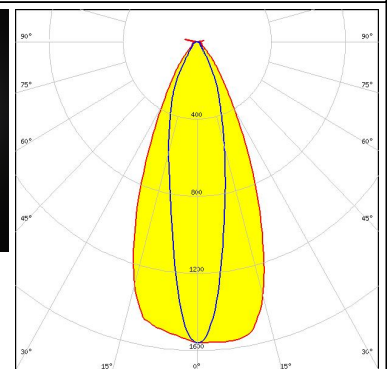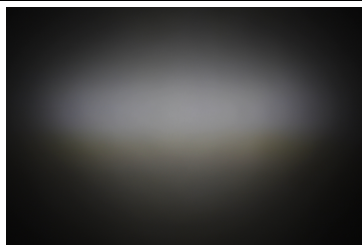
OPTICAL RESULTS (MEASURED):

OSRAM Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	42.0 + 20.0° / 72.0 + 49.0°
Efficiency	89 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
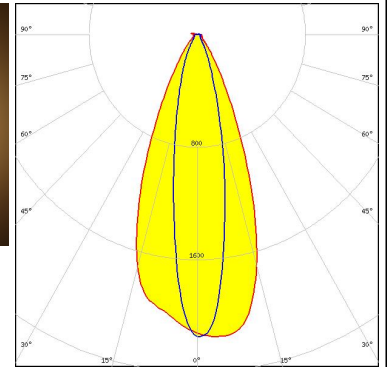
OSRAM Opto Semiconductors

LED	SFH 4170S
FWHM / FWTM	40.0 + 12.0° / 60.0 + 33.0°
Efficiency	%
LEDs/each optic	1
Light colour	IR
Required components:	

OSRAM Opto Semiconductors

LED	SFH 4180S
FWHM / FWTM	38.0 + 11.0° / 58.0 + 31.0°
Efficiency	%
LEDs/each optic	1
Light colour	IR
Required components:	

SAMSUNG

LED	LH181A
FWHM / FWTM	42.0 + 22.0° / 77.0 + 54.0°
Efficiency	88 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
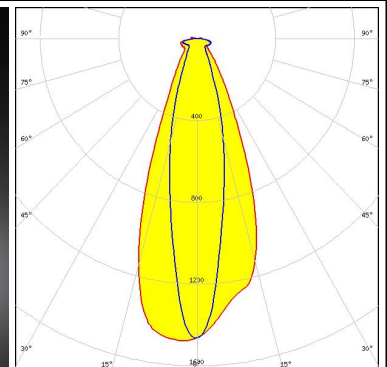
OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LH181B
FWHM / FWTM	22.0 + 41.0° / 54.0 + 75.0°
Efficiency	91 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
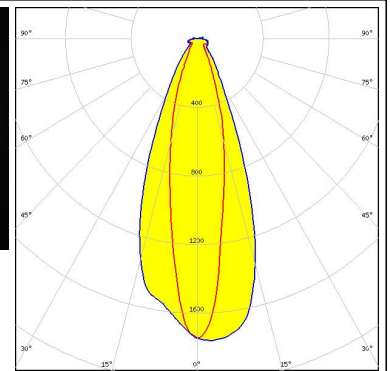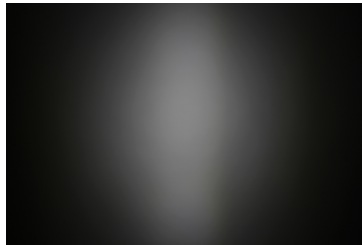
SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	46.0 + 23.0° / 80.0 + 62.0°
Efficiency	90 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

CREE LEDs
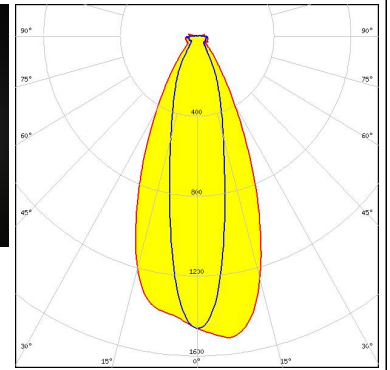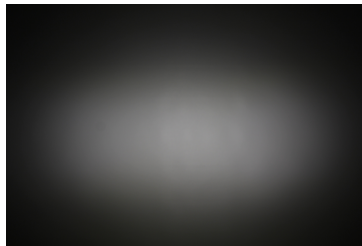
LED	XP-G2 HE
FWHM / FWTM	50.0 + 26.0° / 88.0 + 59.0°
Efficiency	90 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LEDs
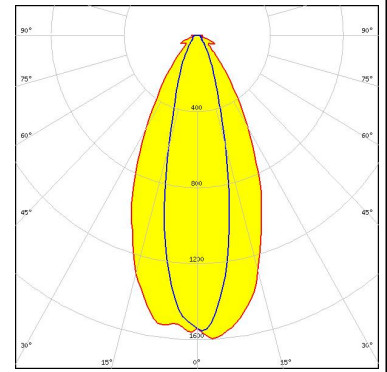
LED	XQ-E HD
FWHM / FWTM	54.0 + 16.0° / 80.0 + 34.0°
Efficiency	90 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LEDs
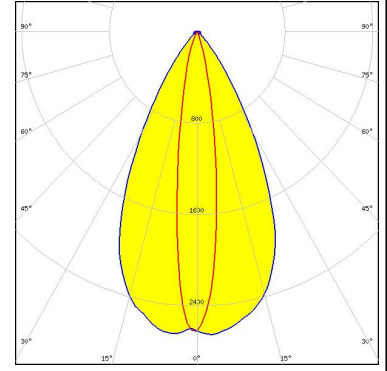
LED	XQ-E HI
FWHM / FWTM	54.0 + 12.0° / 78.0 + 26.0°
Efficiency	89 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
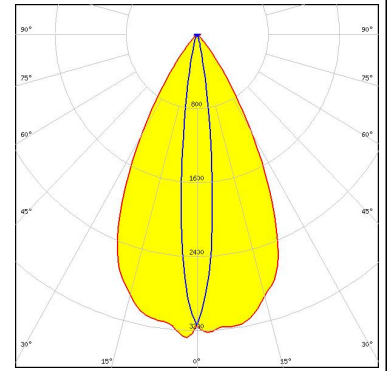
LUMILEDS

LED	LUXEON 2835 Line
FWHM / FWTM	54.0 + 16.0° / 80.0 + 41.0°
Efficiency	86 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	PC Amber
Required components:	
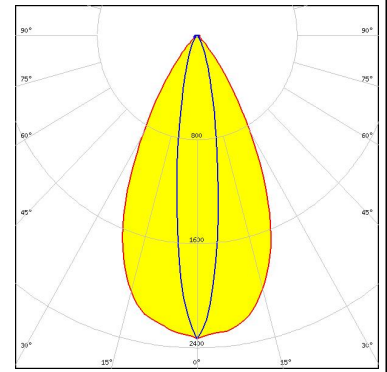
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	54.0 + 36.0° / 118.0 + 106.0°
Efficiency	86 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
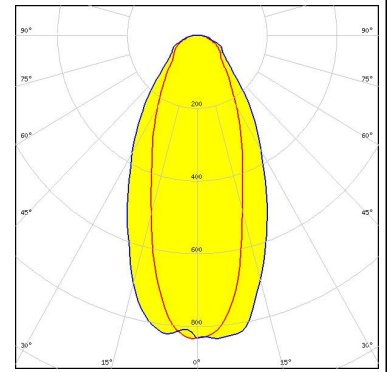
LUMILEDS

LED	LUXEON C
FWHM / FWTM	53.0 + 17.0° / 81.0 + 34.0°
Efficiency	87 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
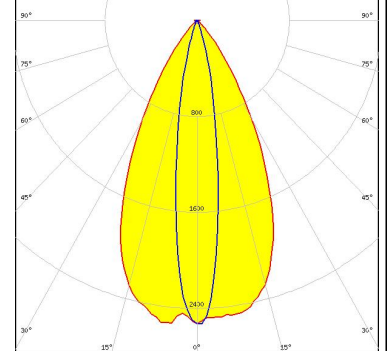
LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	56.0 + 13.0° / 79.0 + 26.0°
Efficiency	91 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	PC Amber
Required components:	
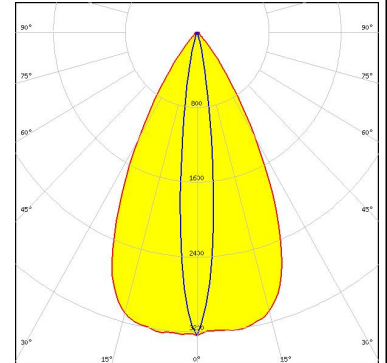
LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	54.0 + 12.0° / 78.0 + 25.0°
Efficiency	91 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	
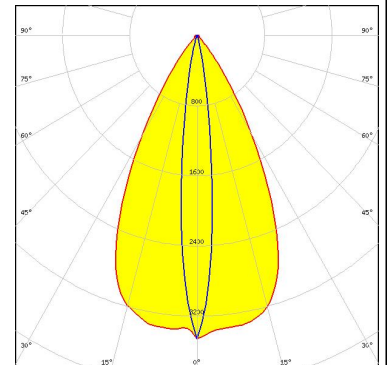
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON HL1Z
FWHM / FWTM	20.0 + 53.0° / 40.0 + 82.0°
Efficiency	90 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
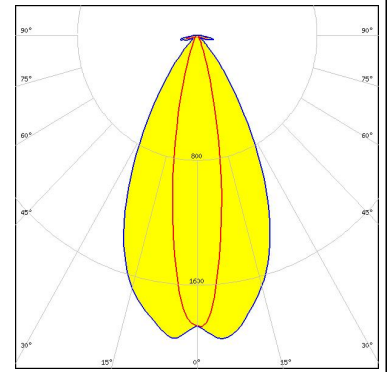
LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	53.0 + 16.0° / 82.0 + 35.0°
Efficiency	92 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
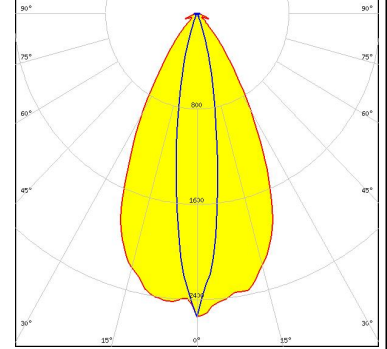
OSRAM
Opto Semiconductors

LED	Duris E 2835
FWHM / FWTM	18.0 + 52.0° / 48.0 + 82.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
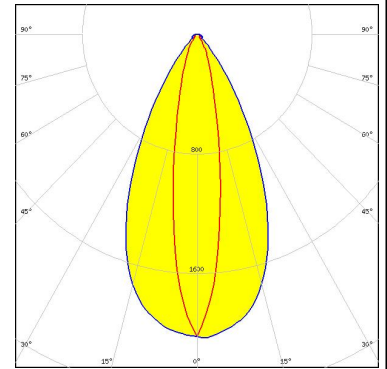
OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	49.0 + 22.0° / 80.0 + 49.0°
Efficiency	83 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
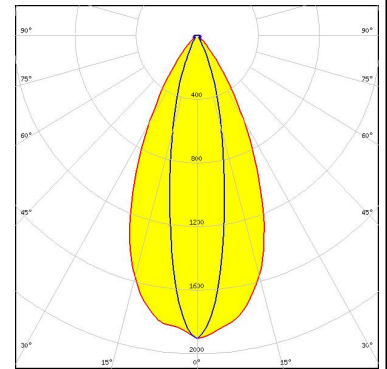
OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semiconductors

LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	24.0 + 48.0° / 48.0 + 80.0°
Efficiency	84 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	48.0 + 20.0° / 82.0 + 44.0°
Efficiency	81 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	53.0 + 16.0° / 80.0 + 30.0°
Efficiency	90 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	

OSRAM Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	54.0 + 15.0° / 80.0 + 30.0°
Efficiency	90 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	Green
Required components:	

OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	55.0 + 16.0° / 82.0 + 34.0°
Efficiency	89 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	Blue
Required components:	
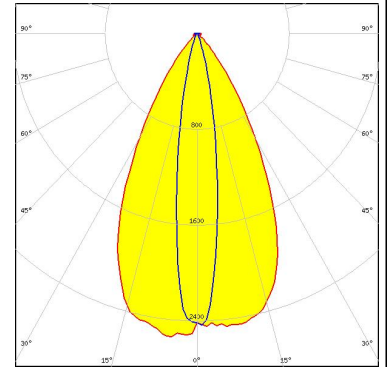
OSRAM Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	53.0 + 18.0° / 80.0 + 40.0°
Efficiency	86 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
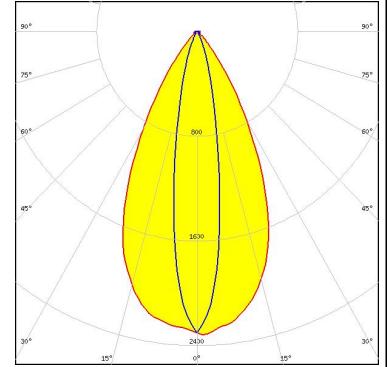
SAMSUNG

LED	LH351B
FWHM / FWTM	49.0 + 24.0° / 83.0 + 53.0°
Efficiency	84 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
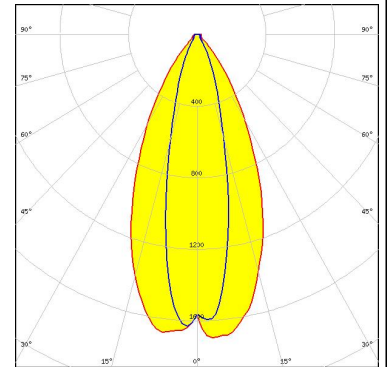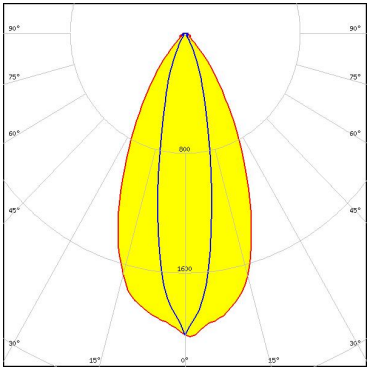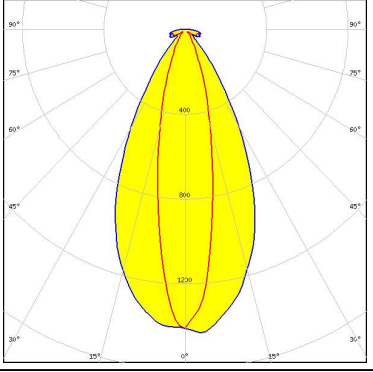
SEOUL SEMICONDUCTOR

LED	MJT 3030
FWHM / FWTM	50.0 + 20.0° / 82.0 + 48.0°
Efficiency	85 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR	
LED	Z5M1/Z5M2
FWHM / FWTM	50.0 + 22.0° / 82.0 + 48.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

SEOUL SEMICONDUCTOR	
LED	Z8Y19
FWHM / FWTM	22.0 + 52.0° / 51.0 + 84.0°
Efficiency	87 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

SEOUL SEMICONDUCTOR	
LED	Z8Y22T
FWHM / FWTM	51.0 + 25.0° / 87.0 + 61.0°
Efficiency	87 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	