TINA-Y-O

~45° + 15° oval beam. Assembly with holder, installation tape and pins.

SPECIFICATION:

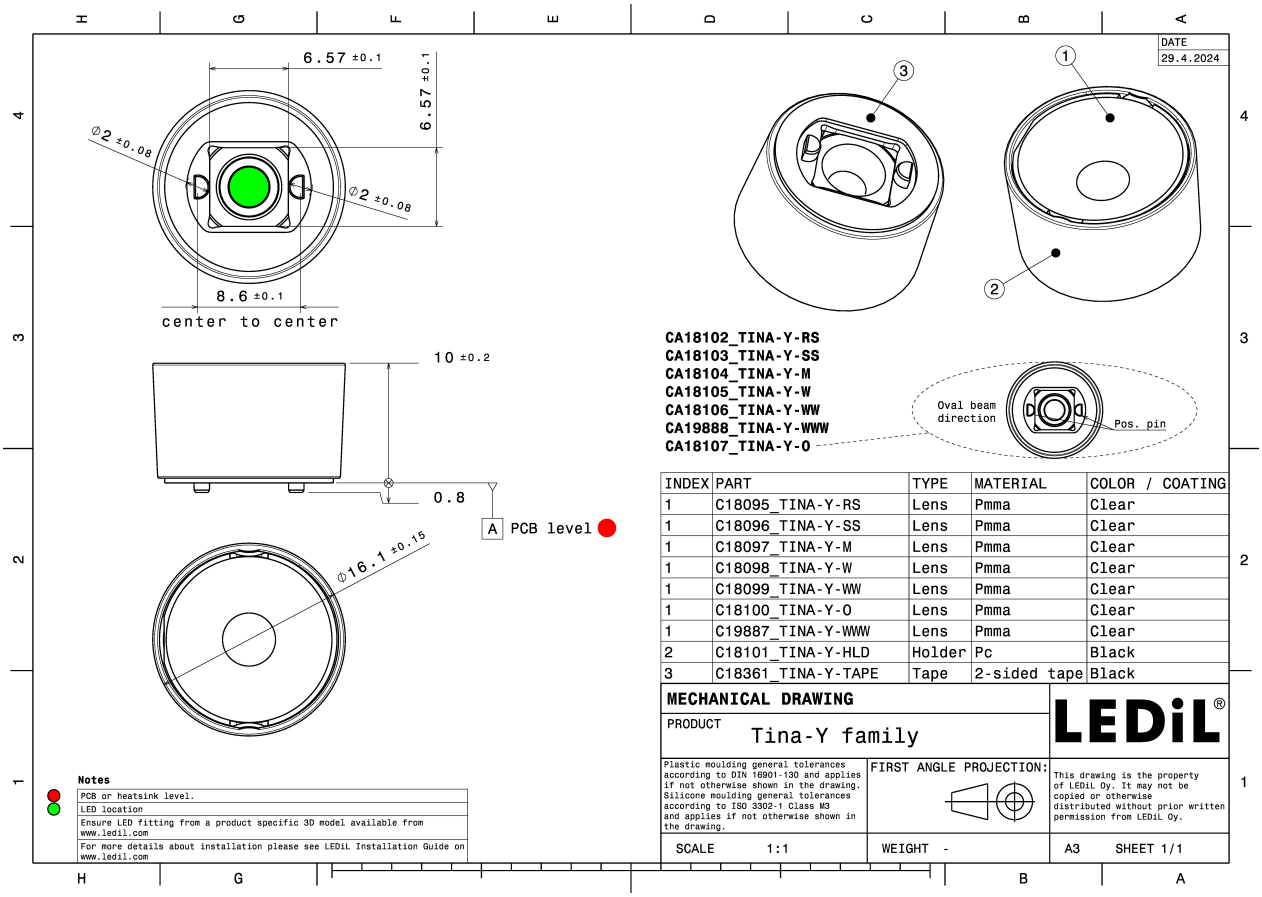
Dimensions	Ø 16.1
Height	10 mm
Fastening	tape, pin
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
TINA-Y-O	Single lens	PMMA	clear	gloss	
TINA-Y-HLD	Holder	PC	black	gloss	
TINA-Y-TAPE	Tape	Acrylic foam tape			

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA18107_TINA-Y-O » Box size: 476 x 273 x 197 mm	3900	300	300	6.5



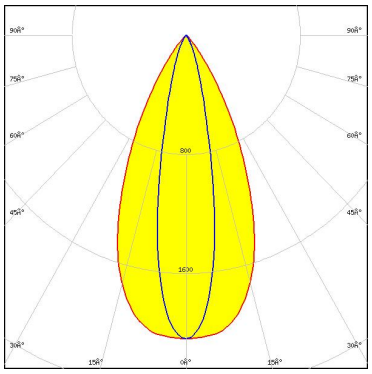
INDEX	PART	TYPE	MATERIAL	COLOR / COATING
1	C18095_TINA-Y-RS	Lens	Pmma	Clear
1	C18096_TINA-Y-SS	Lens	Pmma	Clear
1	C18097_TINA-Y-M	Lens	Pmma	Clear
1	C18098_TINA-Y-W	Lens	Pmma	Clear
1	C18099_TINA-Y-WW	Lens	Pmma	Clear
1	C18100_TINA-Y-O	Lens	Pmma	Clear
1	C19887_TINA-Y-WWW	Lens	Pmma	Clear
2	C18101_TINA-Y-HLD	Holder	Pc	Black
3	C18361_TINA-Y-TAPE	Tape	2-sided tape	Black

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

OPTICAL RESULTS (MEASURED):

CREE LEDs

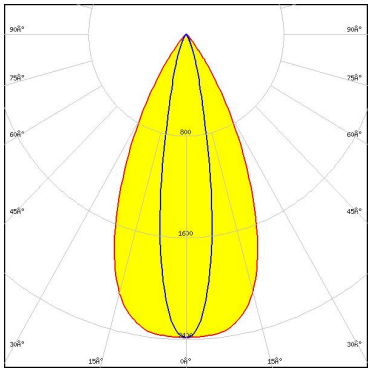
LED	XP-G3
FWHM / FWTM	49.0 + 22.0° / 76.0 + 44.0°
Efficiency	74 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

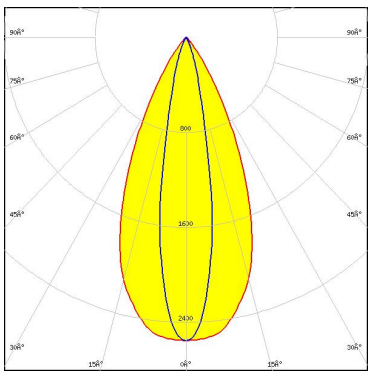
LED	XP-G4
FWHM / FWTM	50.0 + 20.0° / 75.0 + 40.0°
Efficiency	79 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NVSW719AC
FWHM / FWTM	47.0 + 20.0° / 73.0 + 38.0°
Efficiency	79 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

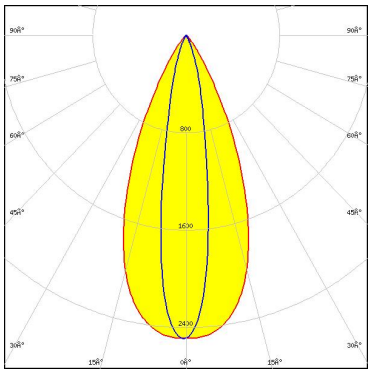


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSCONIQ C 3030
FWHM / FWTM	46.0 + 18.0° / 70.0 + 40.0°
Efficiency	74 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

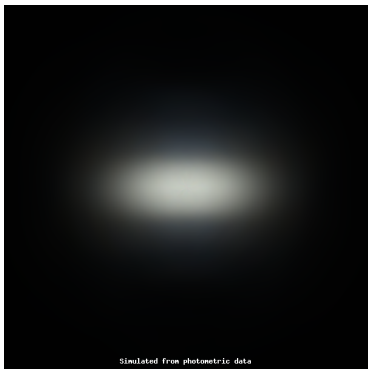


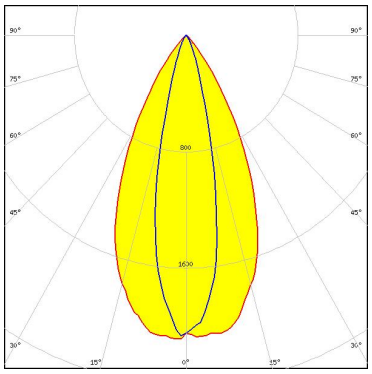
Light distribution files

OPTICAL RESULTS (SIMULATED):

bridgelux

LED	SMD 3535 BXEX-XXX-11H-3B1
FWHM / FWTM	52.0 + 24.0° / 78.0 + 43.0°
Efficiency	80 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

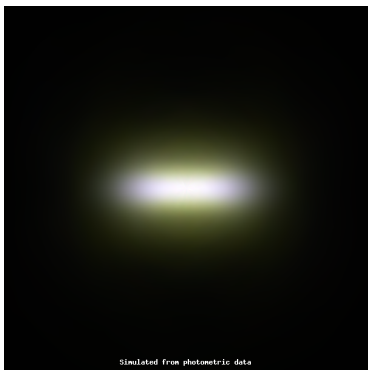


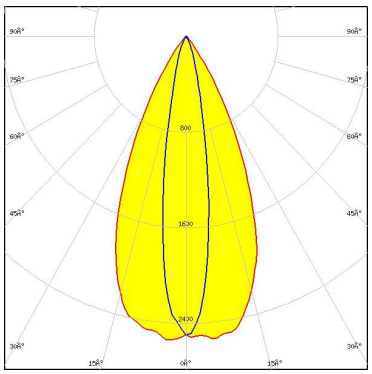


Light distribution files

CREE LEDs

LED	J Series 3030C
FWHM / FWTM	50.0 + 18.0° / 72.0 + 36.0°
Efficiency	78 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

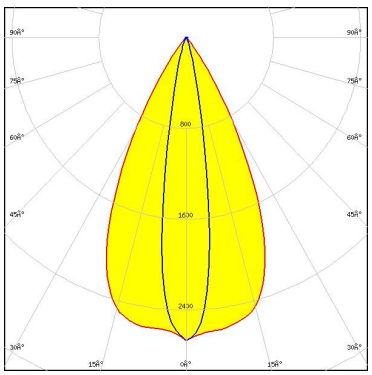




Light distribution files

CREE LEDs

LED	XE-G
FWHM / FWTM	53.0 + 18.0° / 72.0 + 31.0°
Efficiency	79 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

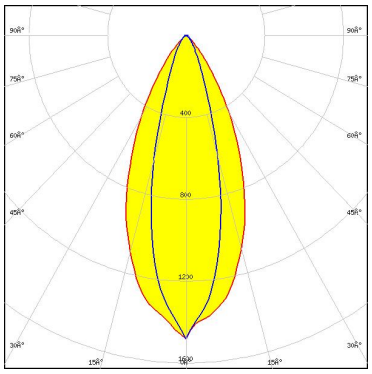


Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE LEDs

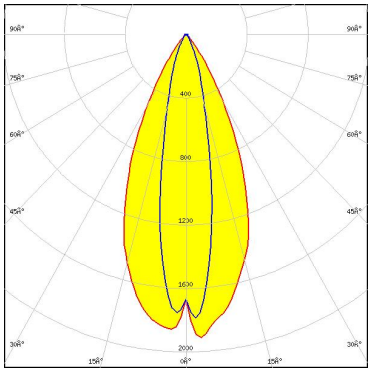
LED	XHP35.2 HD
FWHM / FWTM	46.0 + 27.0° / 80.0 + 54.0°
Efficiency	69 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

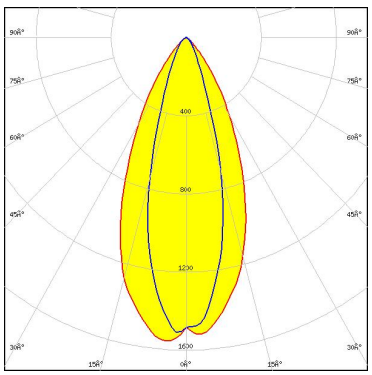
LED	XHP35.2 HI
FWHM / FWTM	46.0 + 22.0° / 73.0 + 47.0°
Efficiency	69 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XM-L RGBW (XMLDCL HD)
FWHM / FWTM	47.0 + 30.0° / 81.0 + 56.0°
Efficiency	77 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	

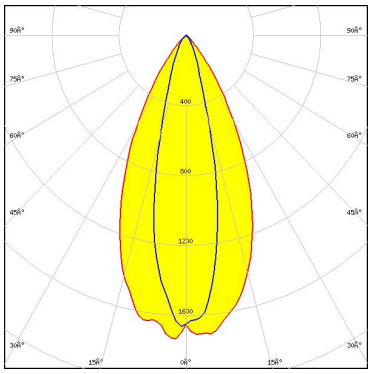


Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE LEDs

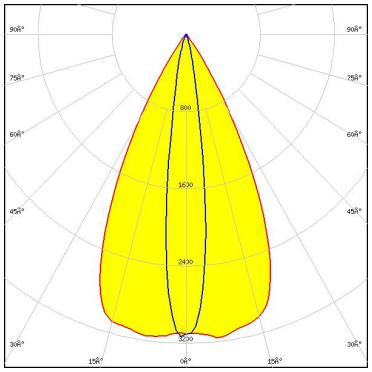
LED	XM-L3
FWHM / FWTM	24.0 + 50.0°
Efficiency	73 %
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

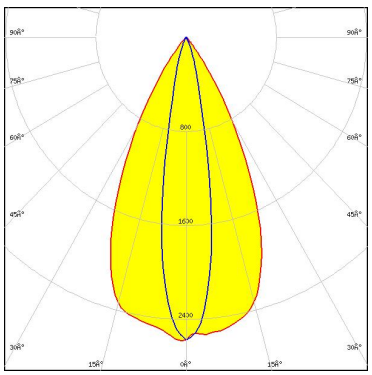
LED	XP-E2
FWHM / FWTM	15.0 + 52.0° / 29.0 + 70.0°
Efficiency	81 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-G2
FWHM / FWTM	19.0 + 51.0°
Efficiency	80 %
LEDs/each optic	1
Light colour/type	White
Required components:	

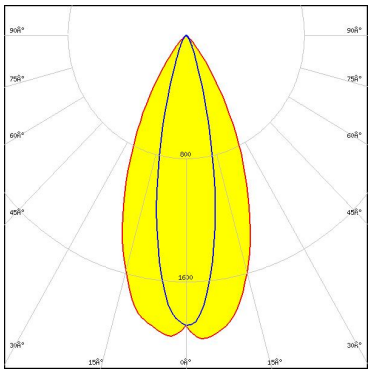


Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE LEDs

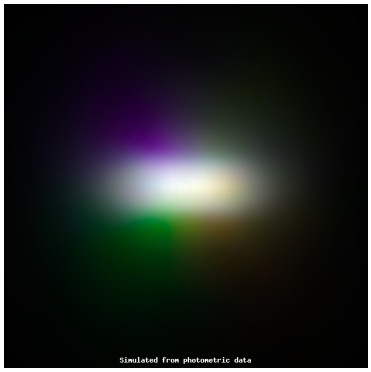
LED	XP-L HD
FWHM / FWTM	48.0 + 24.0° / 76.0 + 44.0°
Efficiency	77 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

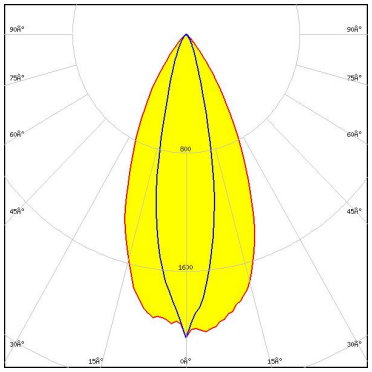


Light distribution files

CREE LEDs

LED	XP-L RGBW HD
FWHM / FWTM	48.0 + 23.0° / 77.0 + 45.0°
Efficiency	78 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	

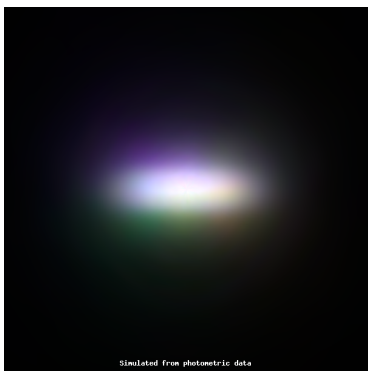


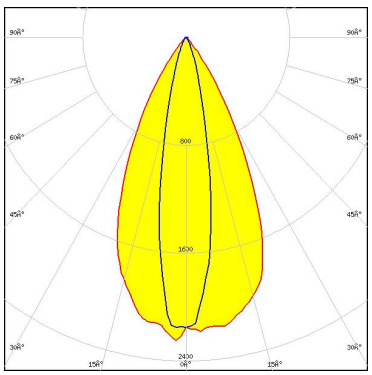


Light distribution files

CREE LEDs

LED	XP-L RGBW HI
FWHM / FWTM	51.0 + 20.0° / 75.0 + 41.0°
Efficiency	77 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	



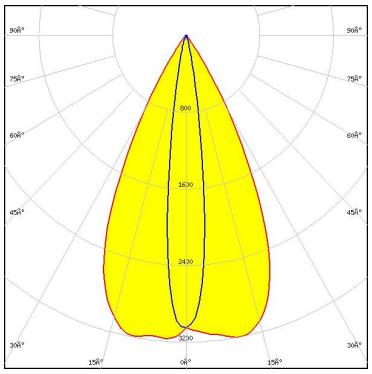


Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE LEDs

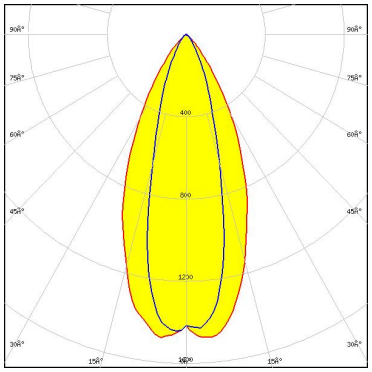
LED	XQ-E HI
FWHM / FWTM	52.0 + 14.0° / 70.0 + 26.0°
Efficiency	80 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

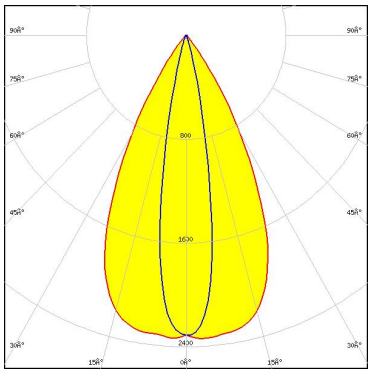
LED	LUXEON 5050 Round LES
FWHM / FWTM	27.0 + 47.0°
Efficiency	74 %
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON C
FWHM / FWTM	54.0 + 18.0° / 74.0 + 32.0°
Efficiency	75 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

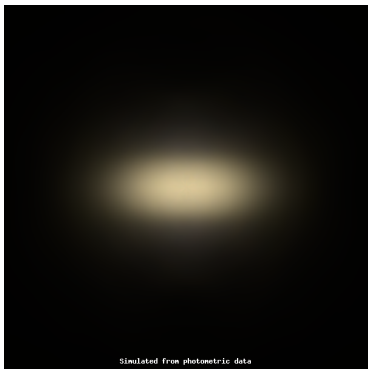


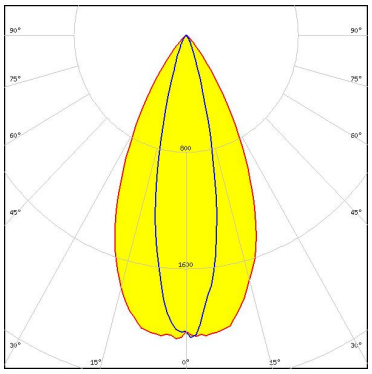
Light distribution files

OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON HL2X-V
FWHM / FWTM	52.0 + 24.0° / 78.0 + 42.0°
Efficiency	80 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

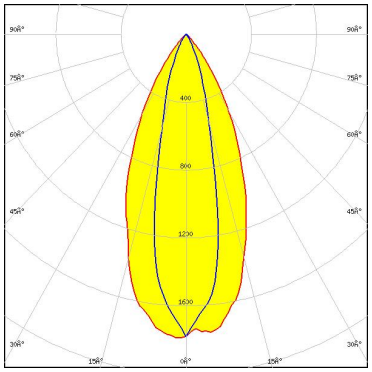




Light distribution files

LUMILEDS

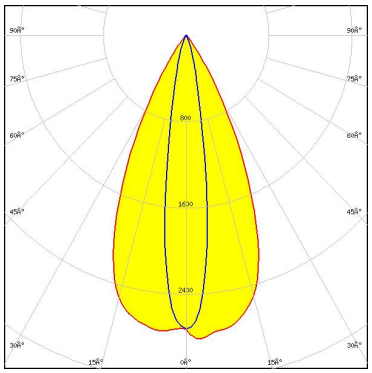
LED	LUXEON MZ
FWHM / FWTM	23.0 + 46.0°
Efficiency	73 %
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMINUS

LED	SST-20 Gen1
FWHM / FWTM	50.0 + 16.0° / 70.0 + 34.0°
Efficiency	78 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

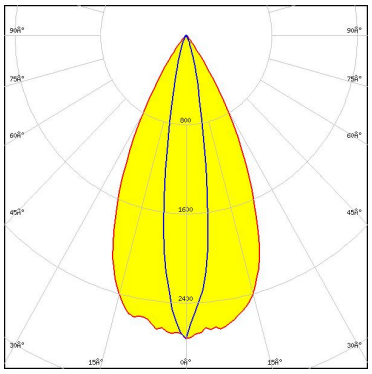


Light distribution files

OPTICAL RESULTS (SIMULATED):

LUMINUS

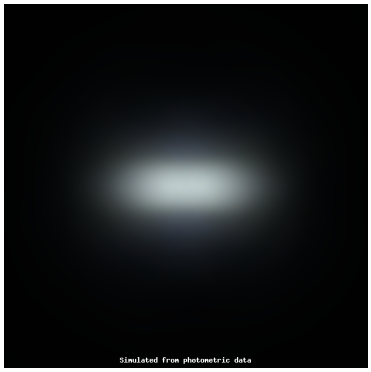
LED	SST-20 Gen2
FWHM / FWTM	50.0 + 16.0° / 72.0 + 33.0°
Efficiency	78 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

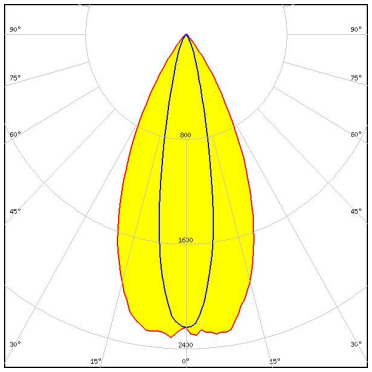


Light distribution files

LUMINUS

LED	SST-20F-W
FWHM / FWTM	50.0 + 20.0° / 74.0 + 40.0°
Efficiency	80 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

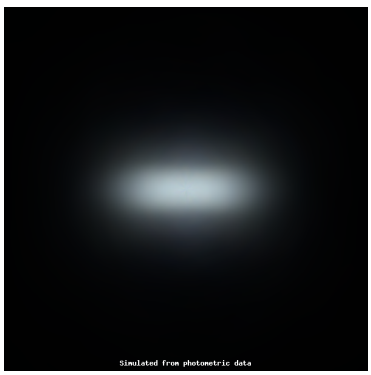


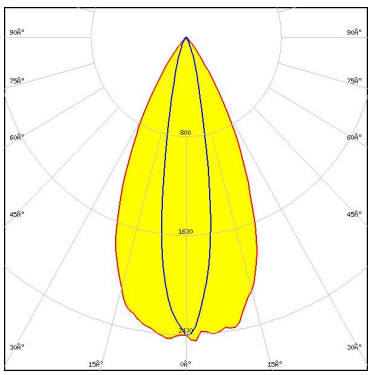


Light distribution files

LUMINUS

LED	SST-25-W
FWHM / FWTM	50.0 + 18.0° / 73.0 + 38.0°
Efficiency	78 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



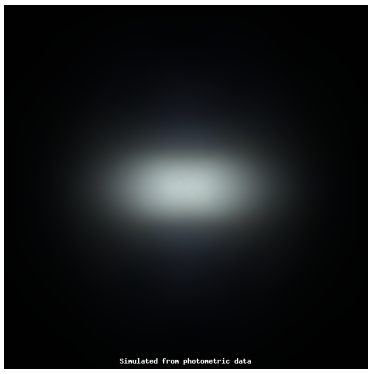


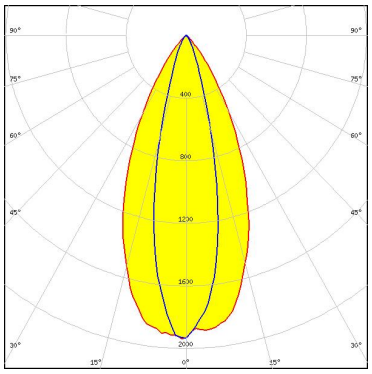
Light distribution files

OPTICAL RESULTS (SIMULATED):

LUMINUS

LED	SST-36F-W
FWHM / FWTM	48.0 + 24.0° / 78.0 + 46.0°
Efficiency	78 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

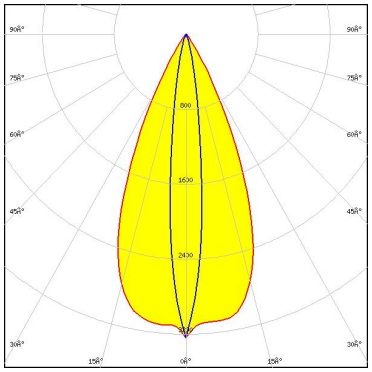




Light distribution files

NICHIA

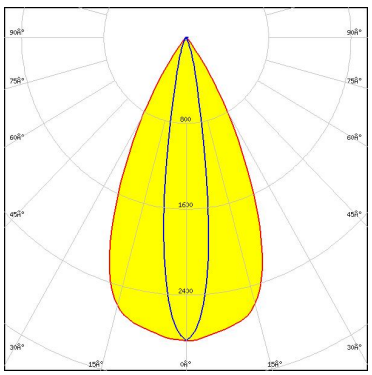
LED	NCSxE17A
FWHM / FWTM	46.0 + 12.0° / 66.0 + 28.0°
Efficiency	73 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NVSW219C-V2
FWHM / FWTM	52.0 + 16.0° / 72.0 + 32.0°
Efficiency	80 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

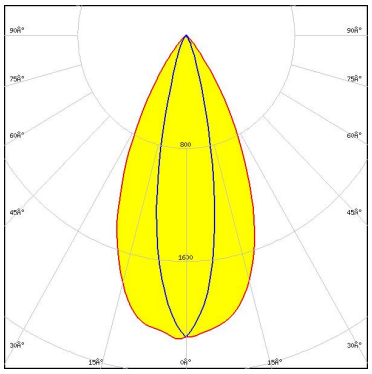


Light distribution files

OPTICAL RESULTS (SIMULATED):

NICHIA

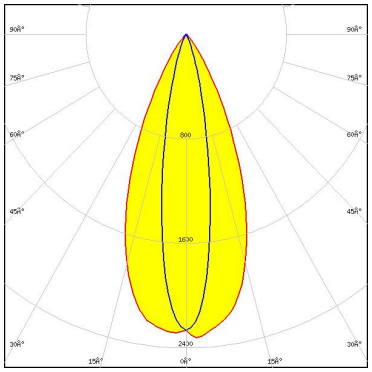
LED	NVSW219F
FWHM / FWTM	50.0 + 22.0° / 76.0 + 42.0°
Efficiency	79 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

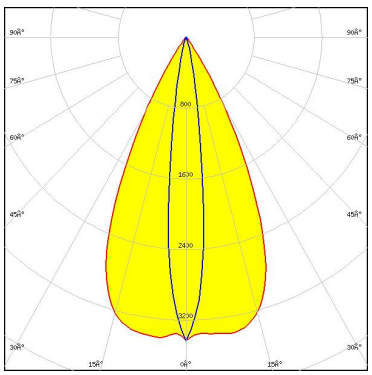
LED	NVSxE21A
FWHM / FWTM	44.0 + 20.0° / 70.0 + 38.0°
Efficiency	71 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Pure 1414
FWHM / FWTM	52.0 + 14.0° / 68.0 + 26.0°
Efficiency	81 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

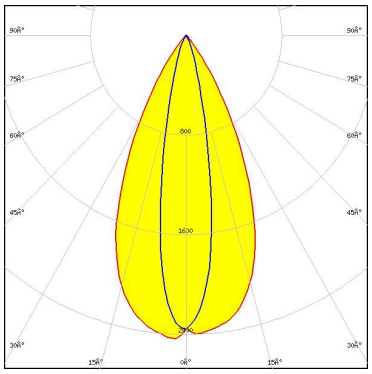


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

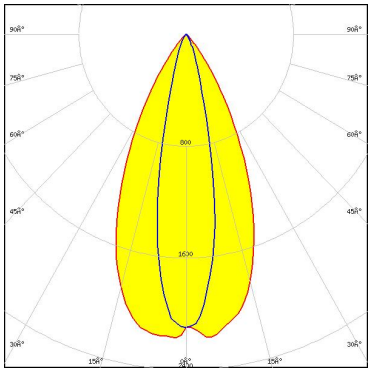
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	50.0 + 20.0° / 74.0 + 39.0°
Efficiency	79 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

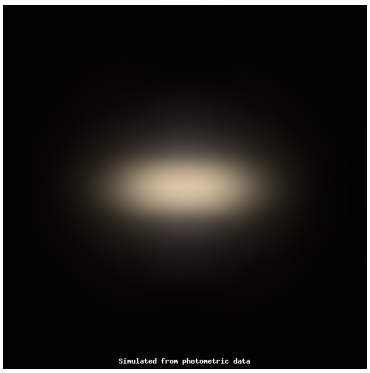
LED	LH351C
FWHM / FWTM	22.0 + 49.0°
Efficiency	80 %
LEDs/each optic	1
Light colour/type	White
Required components:	

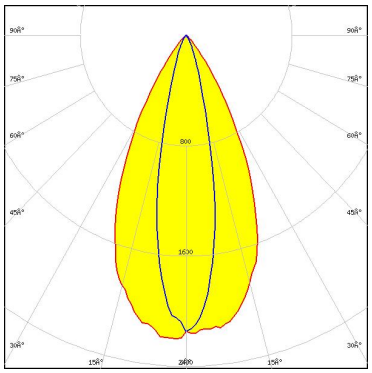


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M3-E1
FWHM / FWTM	52.0 + 22.0° / 77.0 + 42.0°
Efficiency	81 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



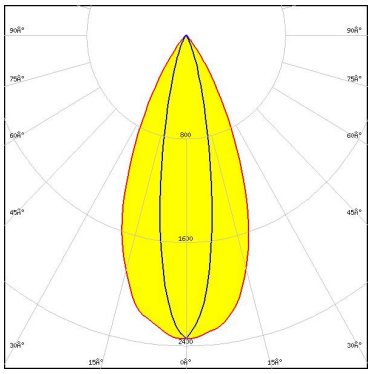


Light distribution files

OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	46.0 + 20.0° / 72.0 + 42.0°
Efficiency	78 %
Peak intensity	2.4 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:

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