HB-2X2-ON

~15° + 50° oval beam

SPECIFICATION:

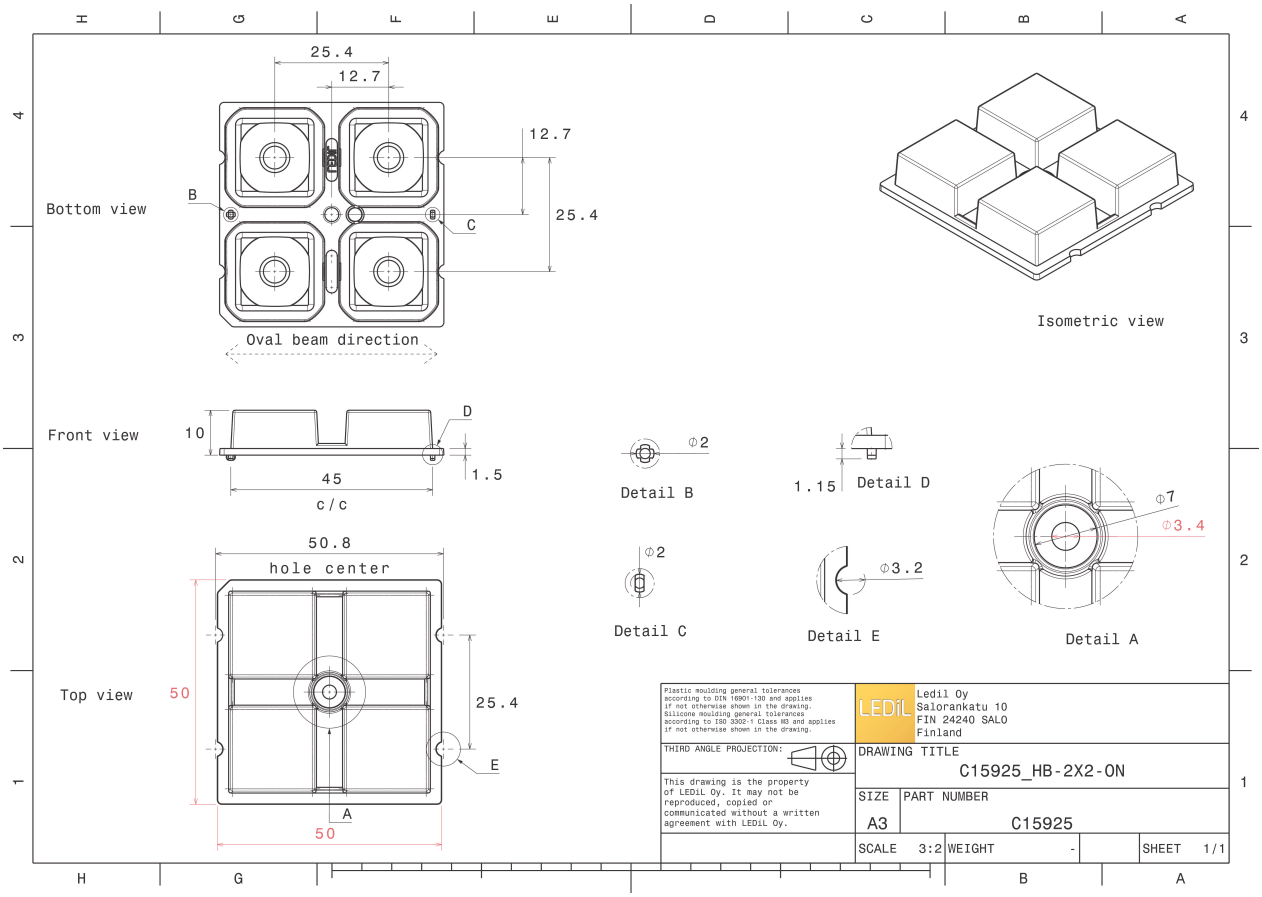
Dimensions	50.0 x 50.0 mm
Height	10 mm
Fastening	screw
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish
HB-2X2-ON	Multi-lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C15925_HB-2X2-ON » Box size: 480 x 280 x 300 mm	800	160	160	9.8

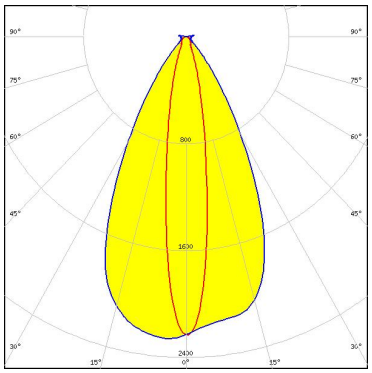


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

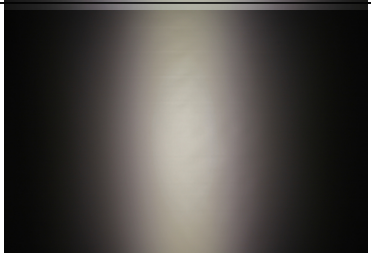
COMET ELECTRONICS

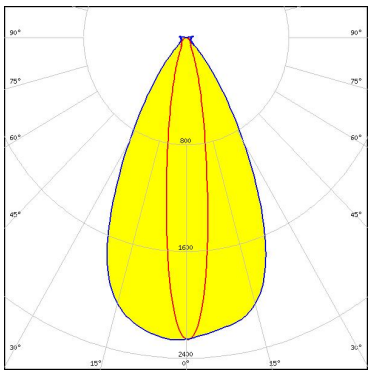
LED	QUICK FLUX XTP 2x4 xxx LS G5
FWHM / FWTM	16.0 + 55.0° / 40.0 + 83.0°
Efficiency	93 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



COMET ELECTRONICS

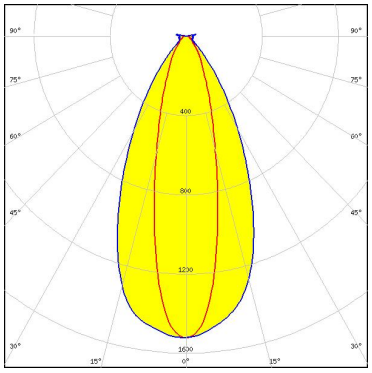
LED	QUICK FLUX XTP 2x6 xxx LS G5
FWHM / FWTM	16.0 + 55.0° / 40.0 + 83.0°
Efficiency	93 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





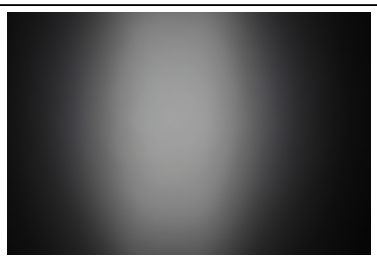
CREE LED

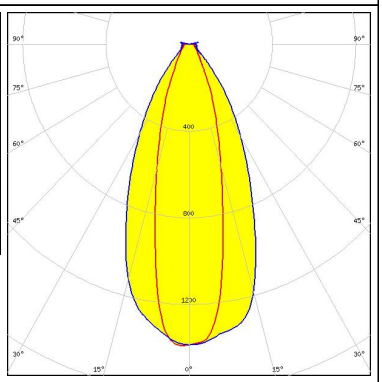
LED	J Series 5050C 6V E Class
FWHM / FWTM	25.0 + 51.0° / 64.0 + 87.0°
Efficiency	90 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LED

LED	XD16
FWHM / FWTM	27.0 + 49.0° / 62.0 + 89.0°
Efficiency	90 %
Peak intensity	1.4 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	

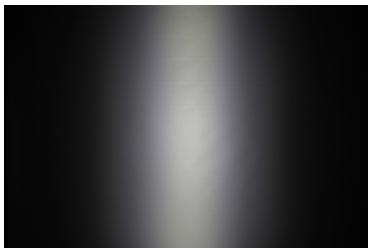


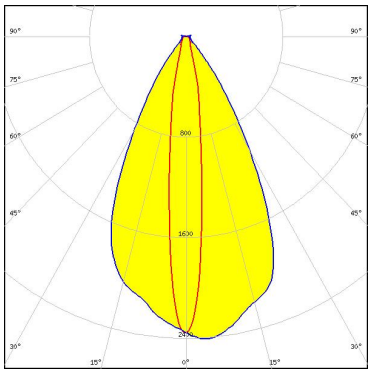


OPTICAL RESULTS (MEASURED):

CREE LED

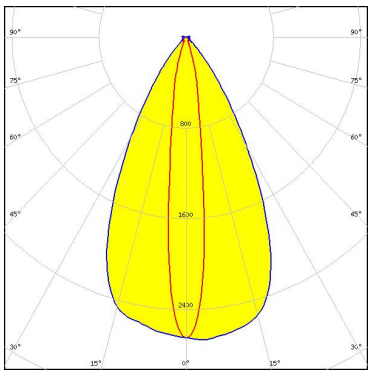
LED	XD16
FWHM / FWTM	13.0 + 55.0° / 34.0 + 82.0°
Efficiency	89 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





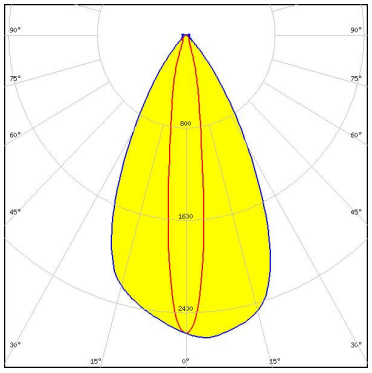
CREE LED

LED	XP-G2
FWHM / FWTM	14.0 + 55.0° / 34.0 + 82.0°
Efficiency	89 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



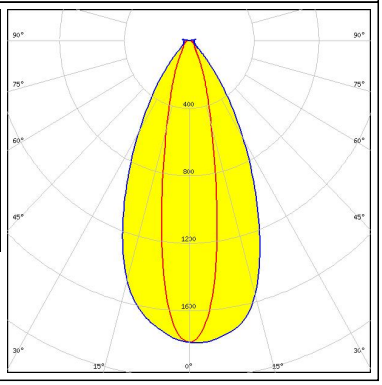
CREE LED

LED	XP-L HI
FWHM / FWTM	14.0 + 55.0° / 36.0 + 82.0°
Efficiency	91 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

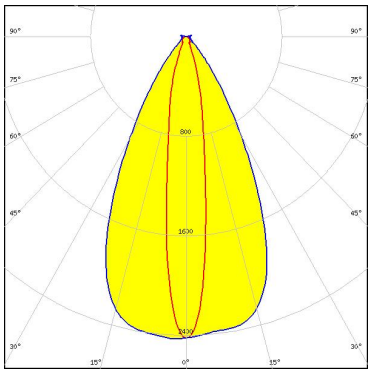
LED	LUXEON V
FWHM / FWTM	22.0 + 51.0° / 52.0 + 86.0°
Efficiency	92 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (MEASURED):

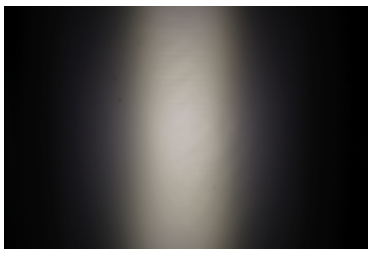
MST Your solutions

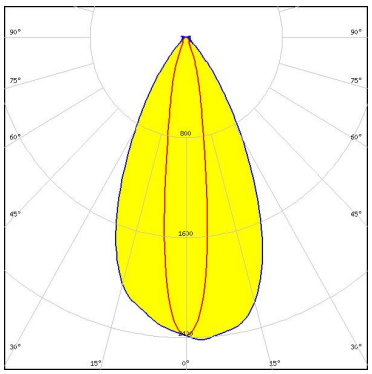
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1
FWHM / FWTM	15.0 + 54.0° / 38.5 + 82.5°
Efficiency	94 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

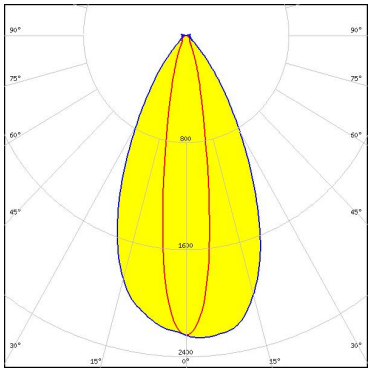
LED	NVSW219F
FWHM / FWTM	17.0 + 53.0° / 40.0 + 83.0°
Efficiency	93 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





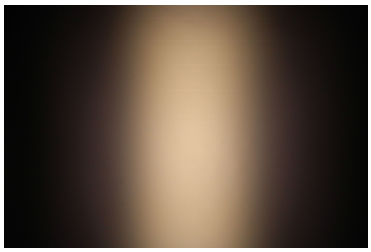
NICHIA

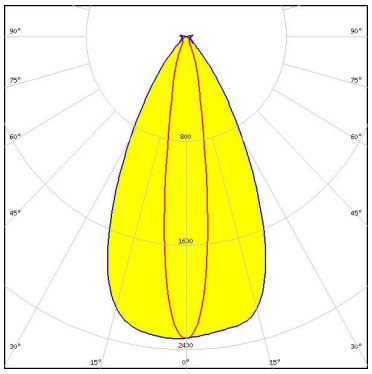
LED	NVSW319B
FWHM / FWTM	18.0 + 52.0° / 41.0 + 84.0°
Efficiency	93 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM

LED	PL-BRICK HP 3800 2x8 SSG
FWHM / FWTM	17.0 + 54.0° / 41.0 + 84.0°
Efficiency	92 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

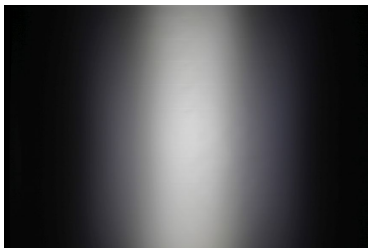


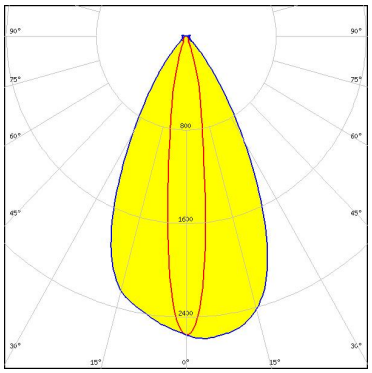


OPTICAL RESULTS (MEASURED):

OSRAM

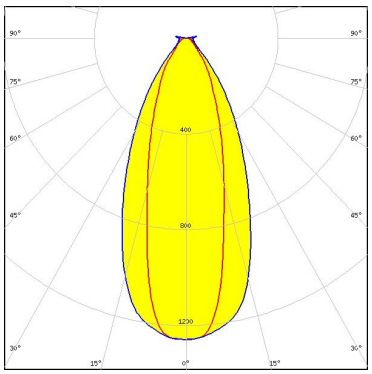
LED	PrevaLED Brick HP 2x8
FWHM / FWTM	15.0 + 54.0° / 36.0 + 82.0°
Efficiency	91 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





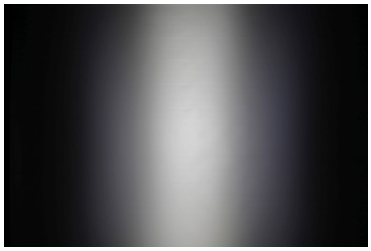
OSRAM
Opto Semiconductors

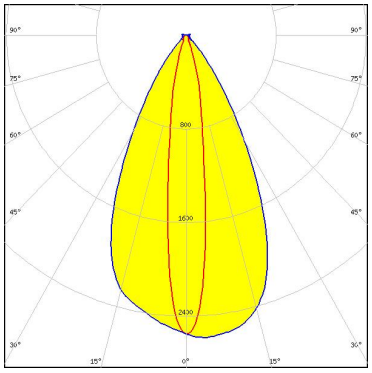
LED	Duris S8
FWHM / FWTM	31.0 + 49.0° / 78.0 + 91.0°
Efficiency	92 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

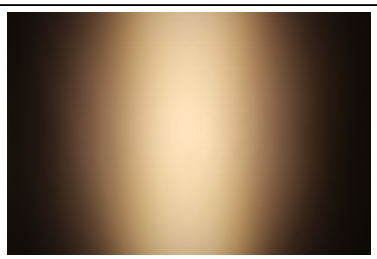
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	15.0 + 54.0° / 36.0 + 82.0°
Efficiency	91 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

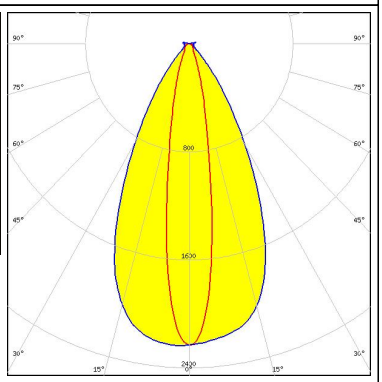




PHILIPS

LED	Fortimo FastFlex LED 2x8 DA G4+
FWHM / FWTM	18.0 + 53.0° / 41.0 + 84.0°
Efficiency	94 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

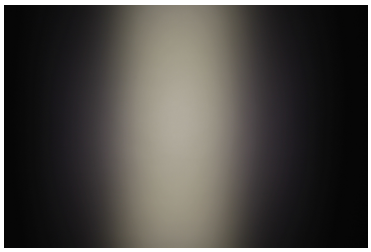


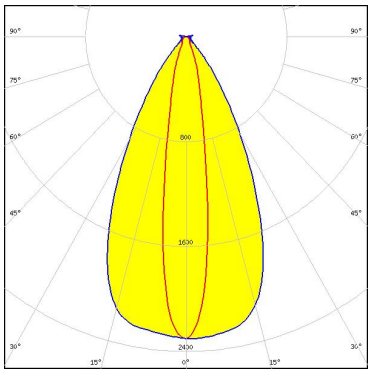


OPTICAL RESULTS (MEASURED):

SAMSUNG

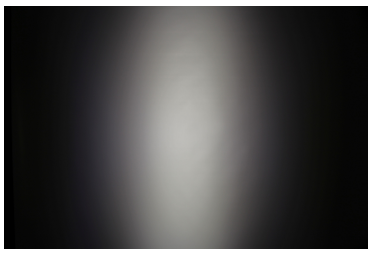
LED	HiLOM RH16 (LH351C)
FWHM / FWTM	17.0 + 54.0° / 42.0 + 84.0°
Efficiency	94 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

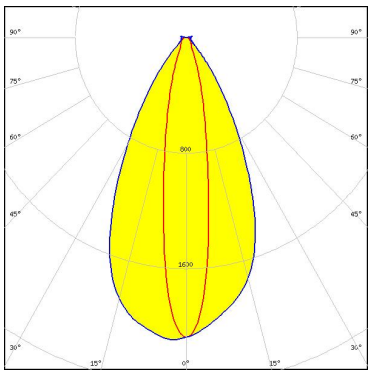




SEOUL SEMICONDUCTOR

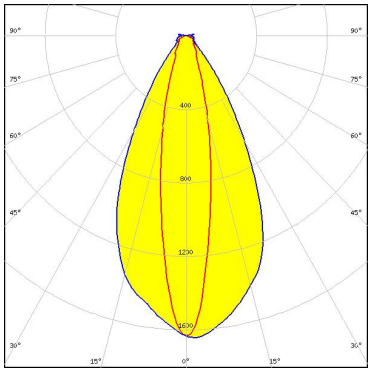
LED	Z5M3
FWHM / FWTM	18.0 + 53.0° / 44.0 + 84.0°
Efficiency	93 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





SEOUL SEMICONDUCTOR

LED	Z8Y22
FWHM / FWTM	20.0 + 53.0° / 50.0 + 85.0°
Efficiency	91 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



TRIDONIC

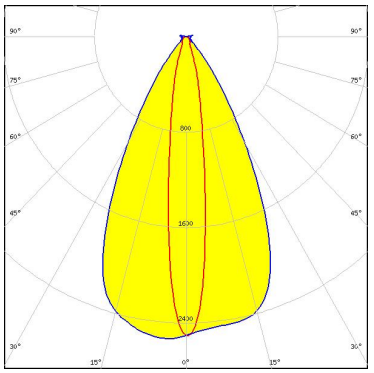
LED	RLE 2x4 2000lm HP EXC2 OTD
FWHM / FWTM	15.0 + 55.0° / 37.0 + 82.0°
Efficiency	94 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (MEASURED):

TRIDONIC

LED	RLE 2x8 4000lm HP EXC2 OTD
FWHM / FWTM	15.0 + 55.0° / 37.0 + 82.0°
Efficiency	94 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

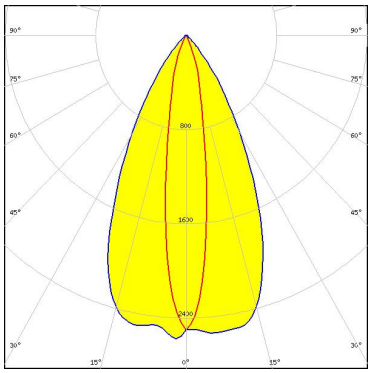
Required components:



OPTICAL RESULTS (SIMULATED):

CREE LED

LED	XHP35 HI
FWHM / FWTM	16.0 + 50.0°
Efficiency	90 %
LEDs/each optic	1
Light colour	White
Required components:	

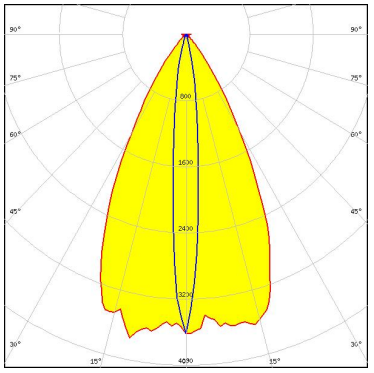


CREE LED

LED	XP-E2
FWHM / FWTM	10.0 + 50.0°
Efficiency	90 %
LEDs/each optic	1
Light colour	White
Required components:	

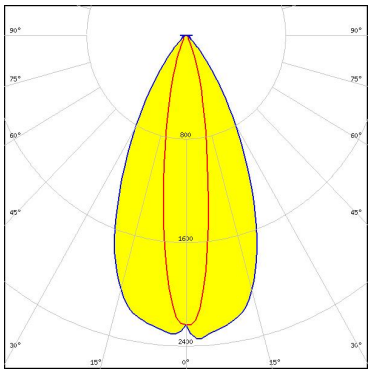
CREE LED

LED	XP-E2
FWHM / FWTM	54.0 + 10.0° / 78.0 + 27.0°
Efficiency	93 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LED

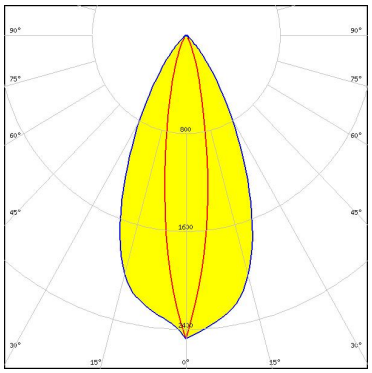
LED	XP-G2 HE
FWHM / FWTM	18.0 + 51.0° / 42.0 + 82.0°
Efficiency	90 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

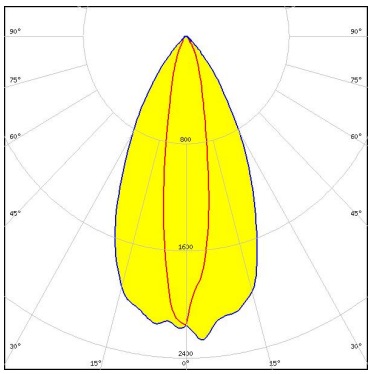
CREE LED

LED	XP-G3
FWHM / FWTM	17.0 + 48.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	White
Required components:	



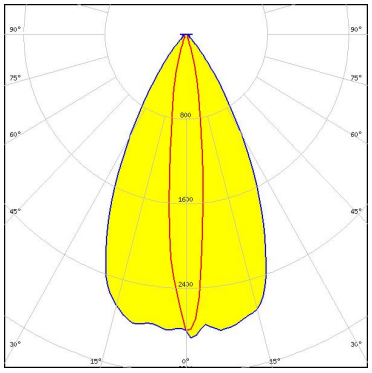
CREE LED

LED	XP-L HD
FWHM / FWTM	18.0 + 50.0°
Efficiency	88 %
LEDs/each optic	1
Light colour	White
Required components:	



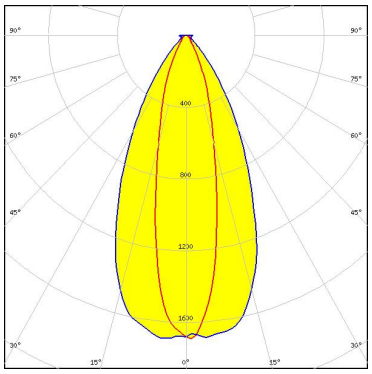
CREE LED

LED	XT-E
FWHM / FWTM	14.0 + 55.0° / 34.0 + 80.0°
Efficiency	91 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

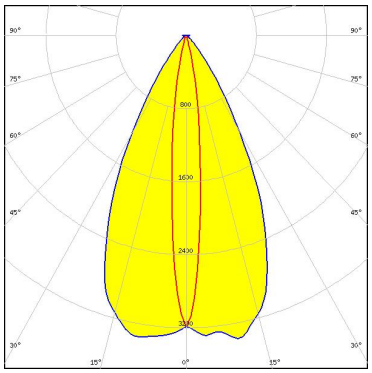
LED	LUXEON 5050 Round LES
FWHM / FWTM	23.0 + 51.0° / 56.0 + 86.0°
Efficiency	89 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

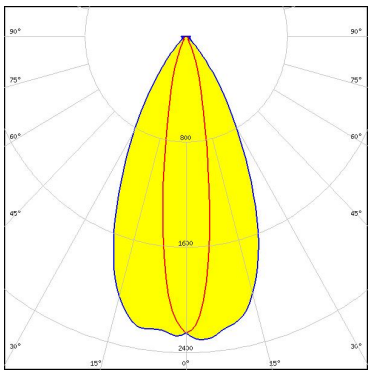
LUMILEDS

LED	LUXEON C
FWHM / FWTM	12.0 + 54.0° / 27.0 + 79.0°
Efficiency	91 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



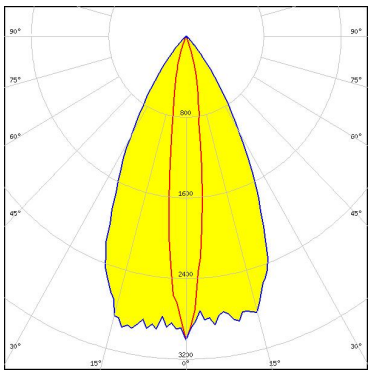
LUMILEDS

LED	LUXEON HL2X
FWHM / FWTM	18.0 + 52.0° / 42.0 + 82.0°
Efficiency	90 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



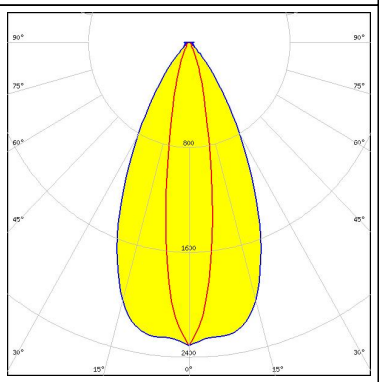
LUMILEDS

LED	LUXEON TX
FWHM / FWTM	14.0 + 50.0°
Efficiency	90 %
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM	18.0 + 52.0° / 42.0 + 82.0°
Efficiency	91 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

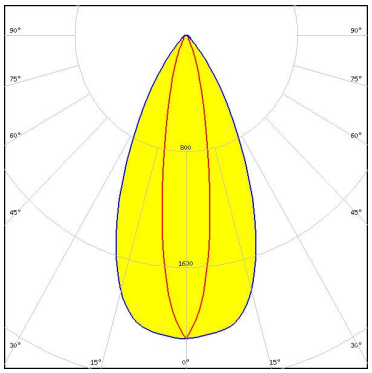


OPTICAL RESULTS (SIMULATED):

LUMILEDS

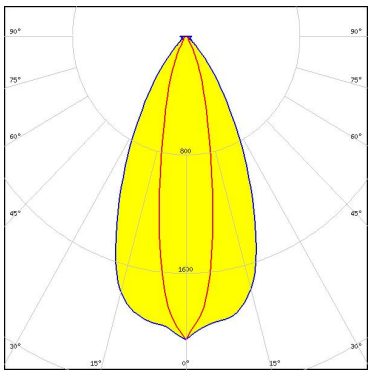
LED	LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM	18.0 + 50.0° / 42.0 + 80.0°
Efficiency	82 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

Protective plate, glass



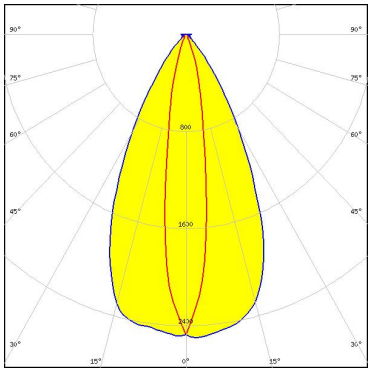
NICHIA

LED	NV4WB35AM
FWHM / FWTM	20.0 + 50.0° / 48.0 + 84.0°
Efficiency	90 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

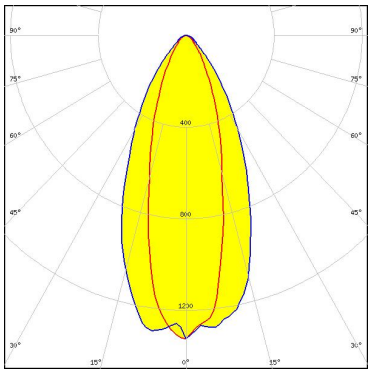
LED	NVSxx19B/NVSxx19C
FWHM / FWTM	16.0 + 53.0° / 38.0 + 81.0°
Efficiency	90 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	29.0 + 49.0° / 69.0 + 89.0°
Efficiency	84 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

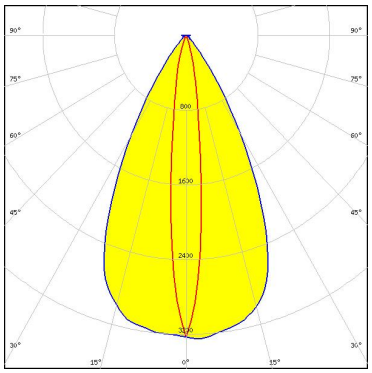
Protective plate, glass



OPTICAL RESULTS (SIMULATED):

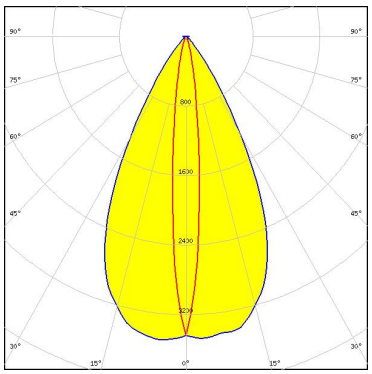
OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	12.0 + 54.0° / 30.0 + 78.0°
Efficiency	92 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



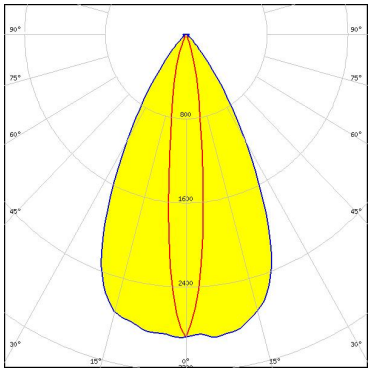
OSRAM
Opto Semiconductors

LED	OSCONIQ P 3030
FWHM / FWTM	10.0 + 56.0° / 28.0 + 78.0°
Efficiency	94 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



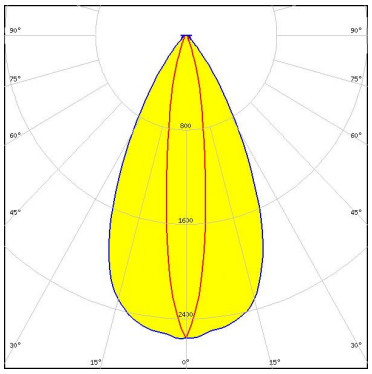
OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	13.0 + 56.0° / 34.0 + 81.0°
Efficiency	93 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

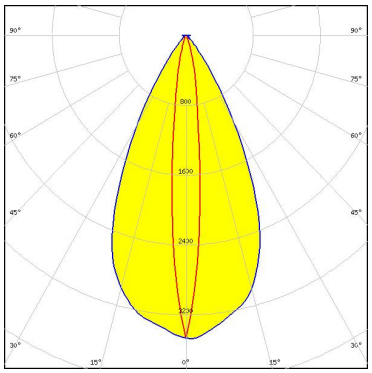
LED	OSCONIQ P 3737 Flat
FWHM / FWTM	16.0 + 54.0° / 38.0 + 80.0°
Efficiency	92 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

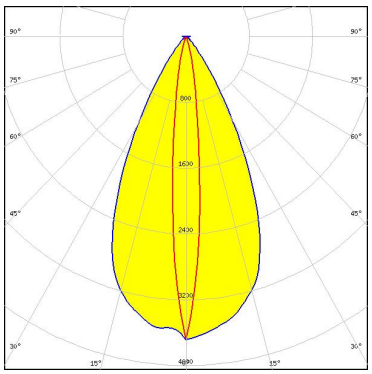
OSRAM
Opto Semiconductors

LED	OSLON Square Flat
FWHM / FWTM	12.0 + 52.0° / 29.0 + 76.0°
Efficiency	93 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



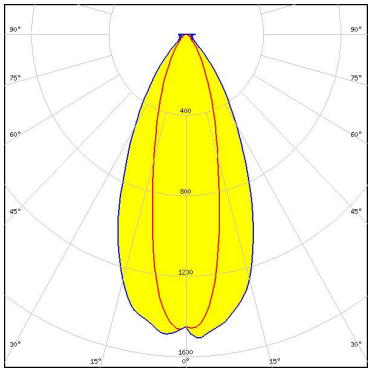
OSRAM
Opto Semiconductors

LED	OSTAR Projection Compact (KW.CSLNM1.TG)
FWHM / FWTM	10.0 + 52.0° / 26.0 + 76.0°
Efficiency	93 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

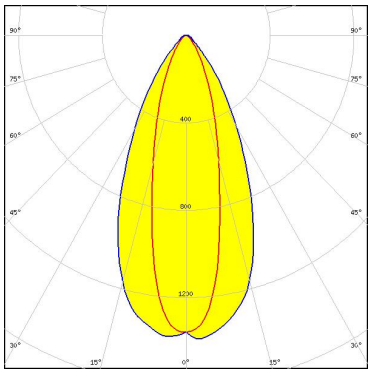
LED	LH502C
FWHM / FWTM	26.0 + 50.0° / 64.0 + 86.0°
Efficiency	87 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

LED	LH502C
FWHM / FWTM	28.0 + 50.0° / 64.0 + 86.0°
Efficiency	79 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

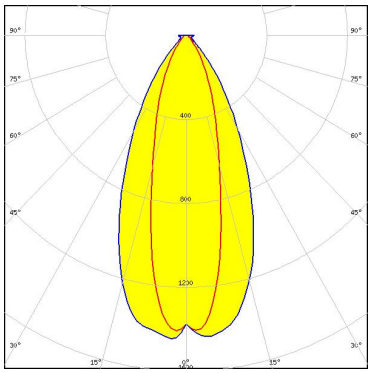
Protective plate, glass



OPTICAL RESULTS (SIMULATED):

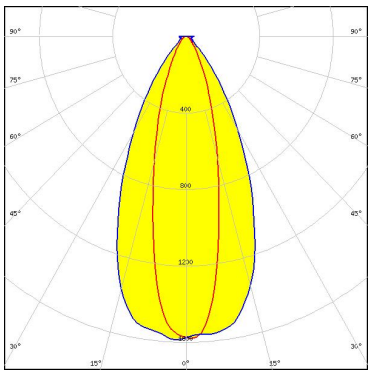
SEOUL SEMICONDUCTOR

LED	MJT 5050
FWHM / FWTM	28.0 + 50.0° / 67.0 + 88.0°
Efficiency	87 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



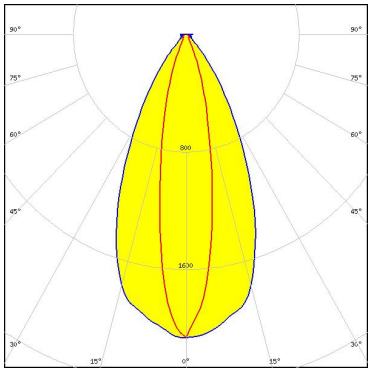
SEOUL SEMICONDUCTOR

LED	SEOUL DC 5050 6V
FWHM / FWTM	26.0 + 50.0° / 60.0 + 86.0°
Efficiency	90 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

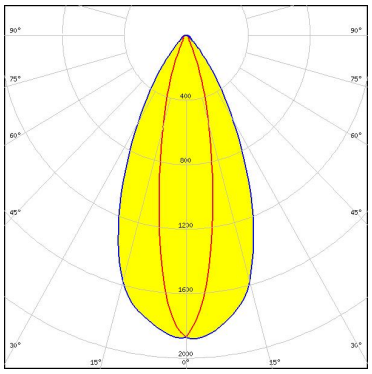
LED	Z5M5
FWHM / FWTM	20.0 + 50.0° / 46.0 + 82.0°
Efficiency	90 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	Z5M5
FWHM / FWTM	22.0 + 50.0° / 46.0 + 82.0°
Efficiency	81 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

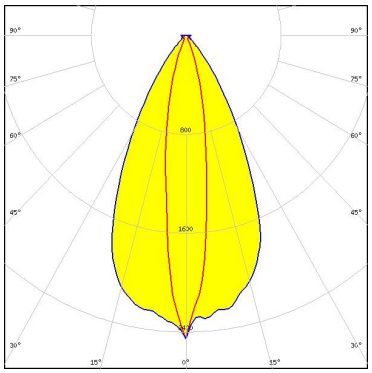
Protective plate, glass



OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

LED	Z8Y22T
FWHM / FWTM	16.0 + 52.0° / 39.0 + 81.0°
Efficiency	90 %
Peak intensity	2.5 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.

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