HB-IP-2X6-O

~30° + 115° oval beam



SPECIFICATION:

Dimensions	173.0 x 71.4
Height	13.1 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes

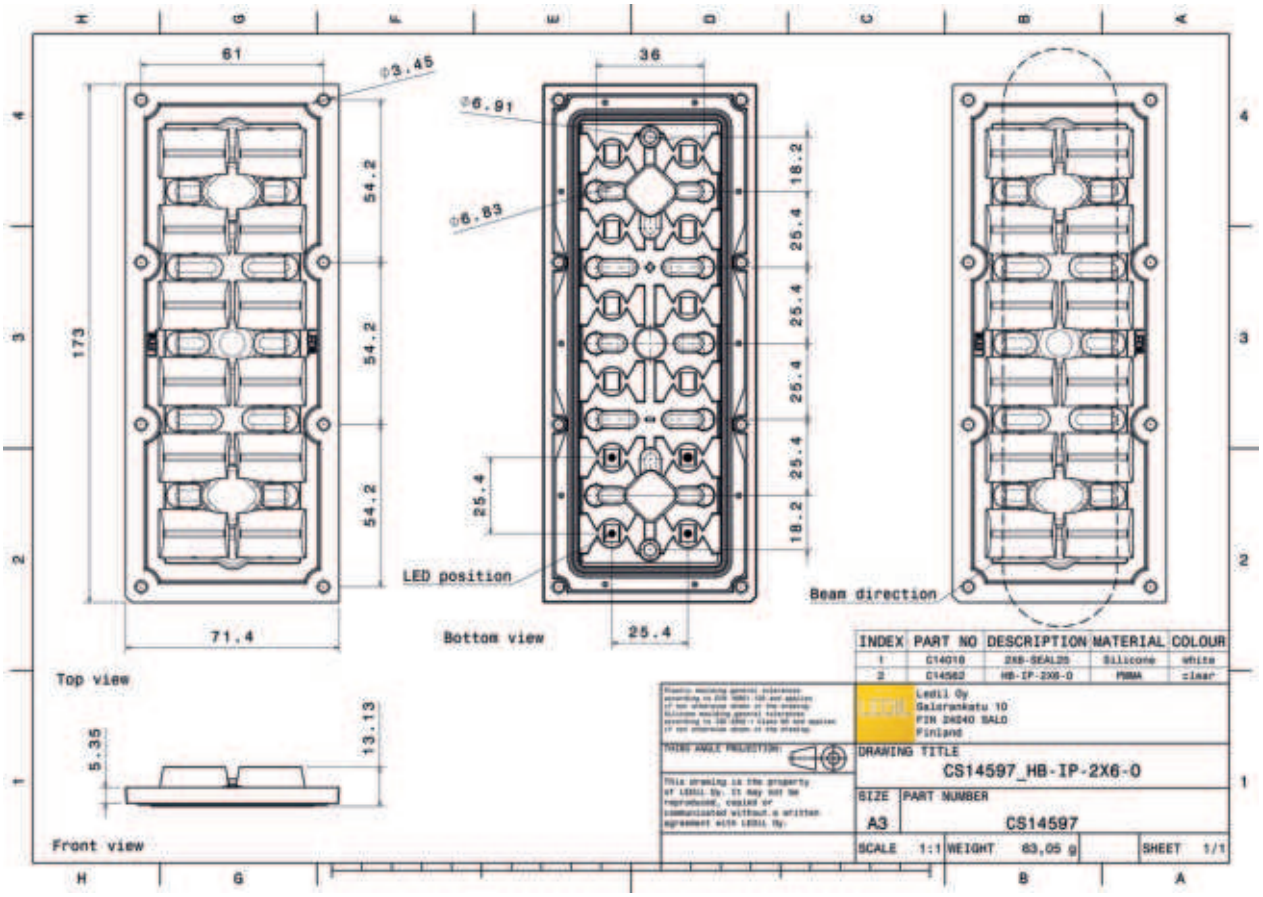
MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
HB-IP-2X6-O	Multi-lens	PMMA	clear		
2X6-SEAL25	Seal	Silicone	white		

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS14597_HB-IP-2X6-O » Box size: 476 x 273 x 247 mm	Multi-lens	108	36	36	8.0

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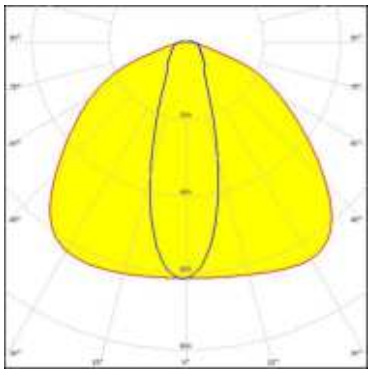
See also our general installation guide: www.ledil.com/installation_guide

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OPTICAL RESULTS (MEASURED):

LED	QUICK FLUX 2x6 LED XG xxx G7+
FWHM / FWTM	116.0 + 32.0° / 149.0 + 92.0°
Efficiency	91 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

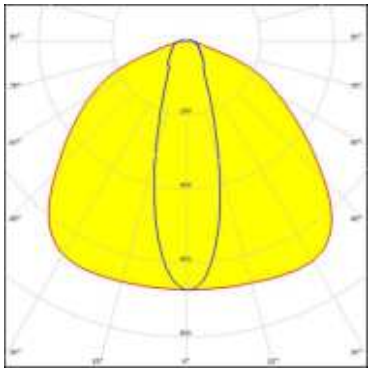




Light distribution files

LED	QUICK FLUX 2x6 LED XT xxx G5
FWHM / FWTM	113.0 + 30.0° / 148.0 + 87.0°
Efficiency	90 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

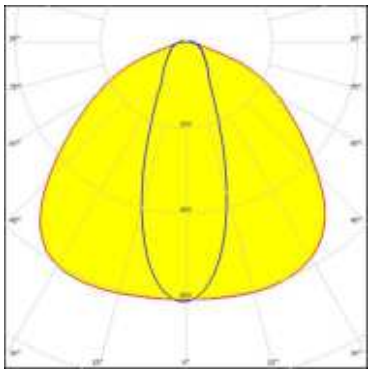




Light distribution files

LED	XM-L
FWHM / FWTM	36.0 + 110.0° / 96.0 + 147.0°
Efficiency	91 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

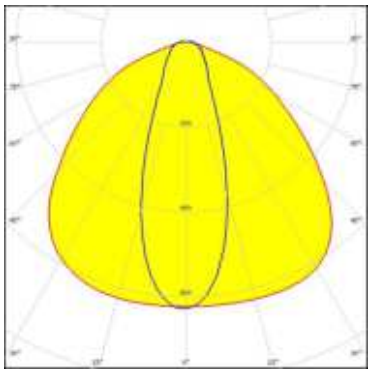
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OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XM-L2
FWHM / FWTM	36.0 + 108.0° / 92.0 + 147.0°
Efficiency	91 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

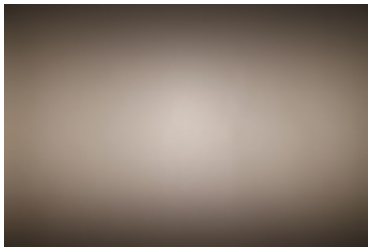


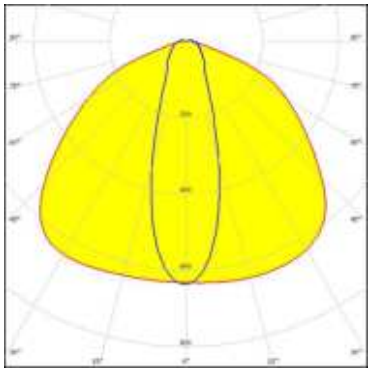


Light distribution files

CREE LEDs

LED	XP-G
FWHM / FWTM	31.0 + 117.0° / 91.0 + 149.0°
Efficiency	91 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



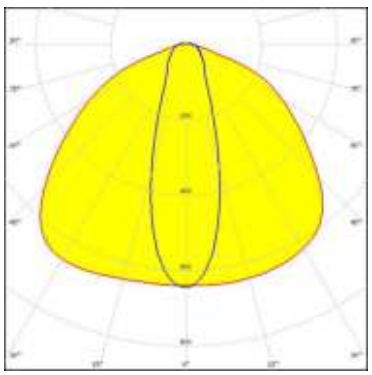


Light distribution files

CREE LEDs

LED	XP-G2
FWHM / FWTM	32.0 + 116.0° / 91.0 + 149.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

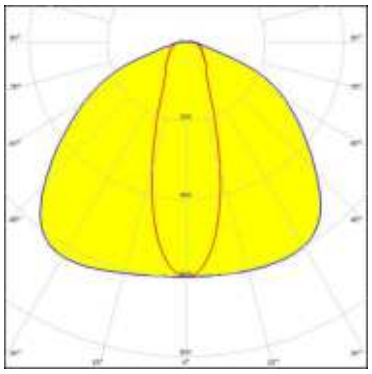
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OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-G3
FWHM / FWTM	33.0 + 119.0° / 100.0 + 150.0°
Efficiency	92 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



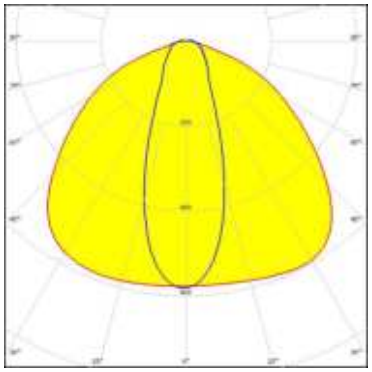


Light distribution files

CREE LEDs

LED	XP-L HD
FWHM / FWTM	36.0 + 115.0° / 100.0 + 149.0°
Efficiency	91 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



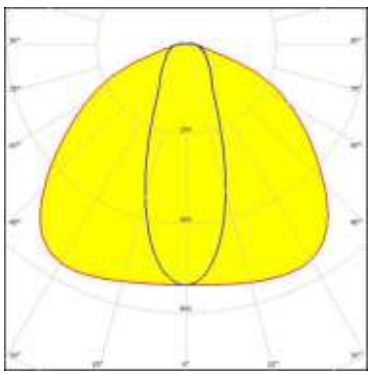


Light distribution files

CREE LEDs

LED	XP-L2
FWHM / FWTM	118.0 + 38.0° / 151.0 + 114.0°
Efficiency	92 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

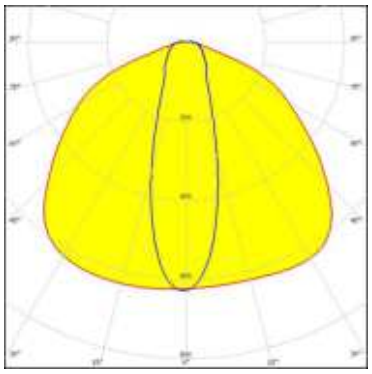
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OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XT-E
FWHM / FWTM	31.0 + 119.0° / 99.0 + 151.0°
Efficiency	92 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



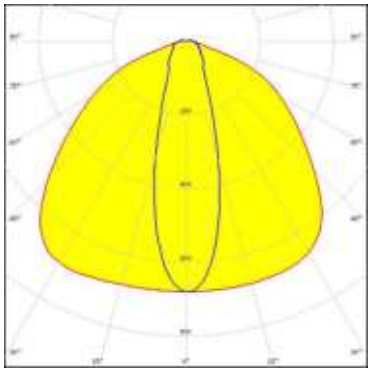


Light distribution files

CREE LEDs

LED	XT-E HE
FWHM / FWTM	112.0 + 29.0° / 147.0 + 85.0°
Efficiency	90 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

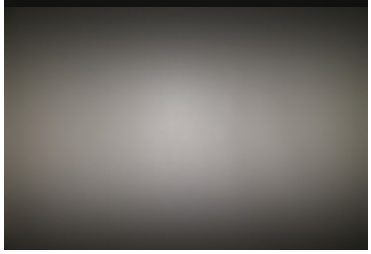


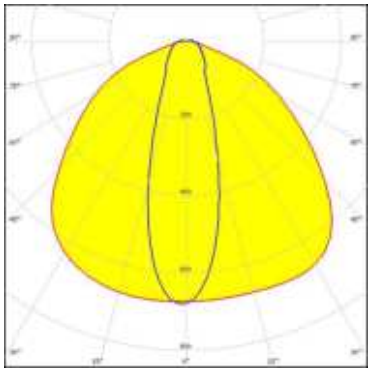


Light distribution files

LUMILEDS

LED	LUXEON R
FWHM / FWTM	30.0 + 109.0° / 89.0 + 147.0°
Efficiency	91 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





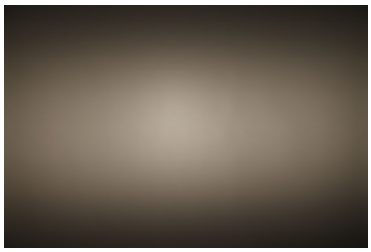
Light distribution files

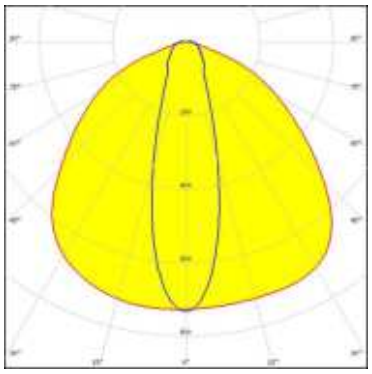
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OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON Rebel
FWHM / FWTM	28.0 + 107.0° / 84.0 + 145.0°
Efficiency	91 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



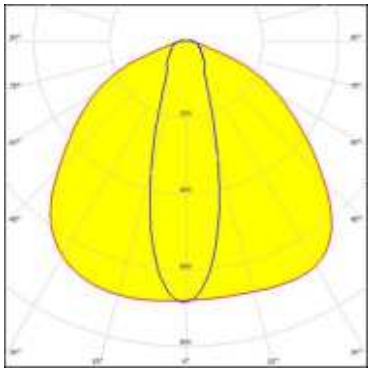


Light distribution files

LUMILEDS

LED	LUXEON Rebel ES
FWHM / FWTM	30.0 + 110.0° / 88.0 + 146.0°
Efficiency	91 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

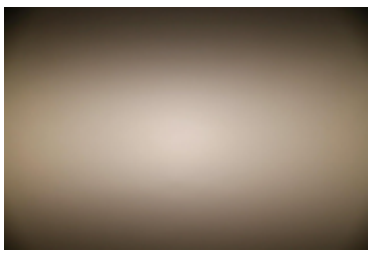


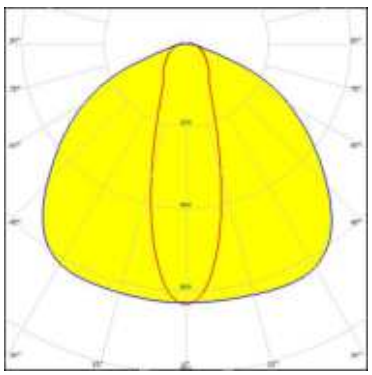


Light distribution files

LUMILEDS

LED	LUXEON T
FWHM / FWTM	32.0 + 115.0° / 103.0 + 148.0°
Efficiency	91 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

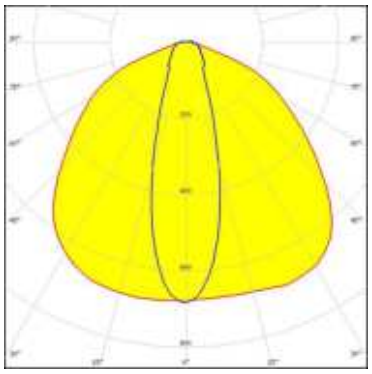
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OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON TX
FWHM / FWTM	30.0 + 111.0° / 84.0 + 147.0°
Efficiency	90 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



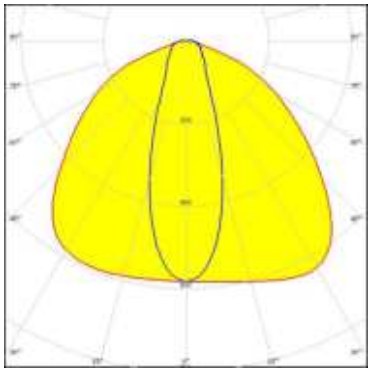


Light distribution files

LUMILEDS

LED	LUXEON V
FWHM / FWTM	112.0 + 34.0° / 147.0 + 92.0°
Efficiency	87 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



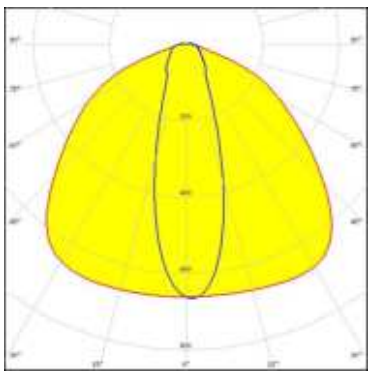


Light distribution files

LUMILEDS

LED	LUXEON V2
FWHM / FWTM	113.0 + 31.0° / 147.0 + 91.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

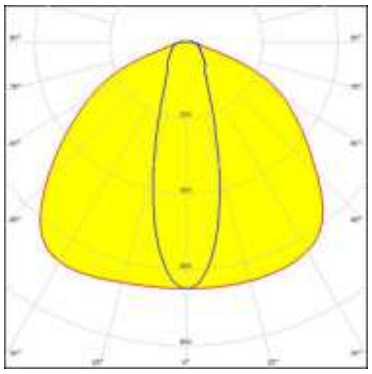
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OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON XR-TX (L2T0-xxxx012M0000)
FWHM / FWTM	30.0 + 115.0° / 92.0 + 148.0°
Efficiency	91 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



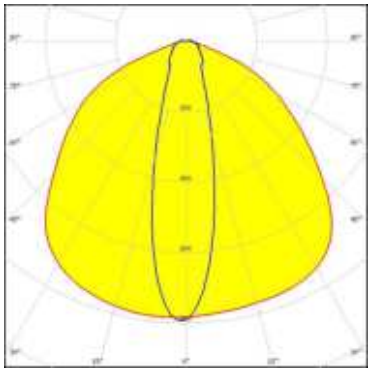


Light distribution files

LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	25.0 + 108.0° / 73.0 + 145.0°
Efficiency	90 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



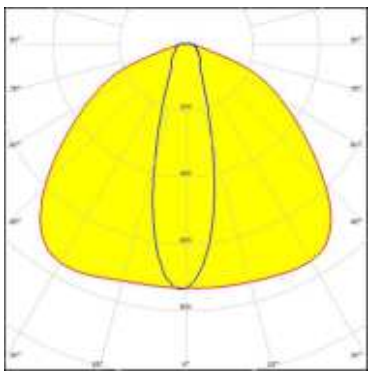


Light distribution files

LUMINUS

LED	SST-10-B130
FWHM / FWTM	114.0 + 28.0° / 147.0 + 70.0°
Efficiency	93 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	Deep Red
Required components:	





Light distribution files

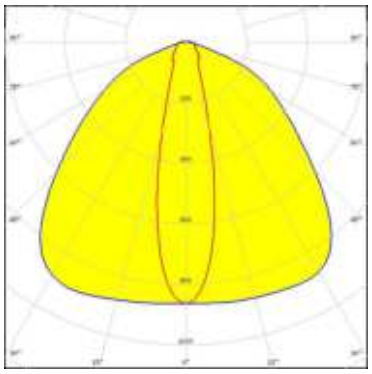
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OPTICAL RESULTS (MEASURED):

MST

LED	RecLED 146x45mm 2900lm 730 2x6 IP G1
FWHM / FWTM	24.0 + 103.5° / 56.5 + 143.5°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



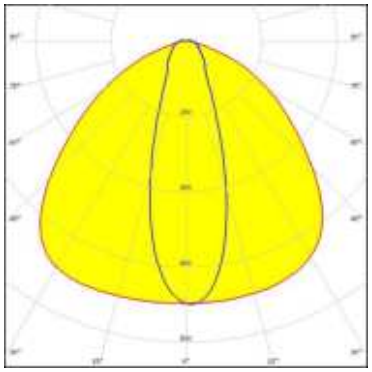


Light distribution files

NICHIA

LED	NVSW219D
FWHM / FWTM	106.0 + 32.0° / 145.0 + 85.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



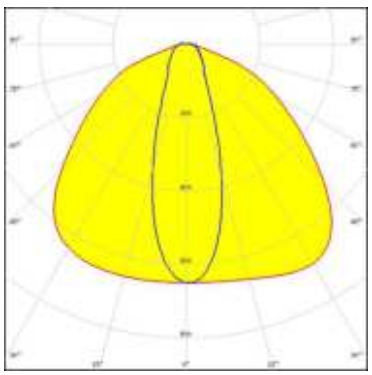


Light distribution files

NICHIA

LED	NVSW219F
FWHM / FWTM	112.0 + 32.0° / 147.0 + 88.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





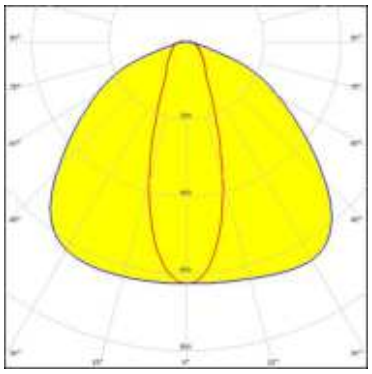
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OPTICAL RESULTS (MEASURED):

NICHIA

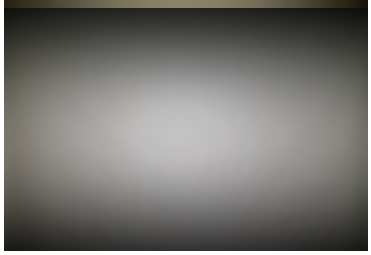
LED	NVSW319B
FWHM / FWTM	34.0 + 113.0° / 91.0 + 148.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

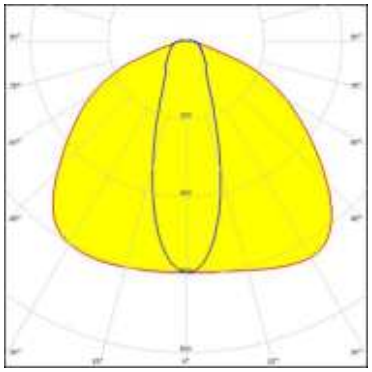




NICHIA

LED	NVSW3x9A
FWHM / FWTM	119.0 + 33.0° / 149.0 + 100.0°
Efficiency	92 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



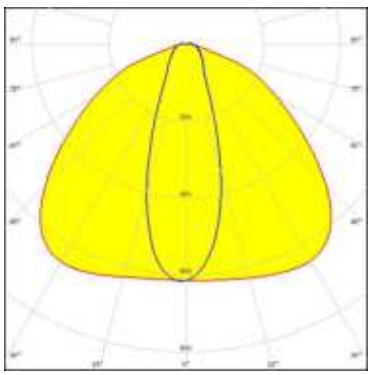


Light distribution files

NICHIA

LED	NVSW519A
FWHM / FWTM	113.0 + 35.0° / 147.0 + 90.0°
Efficiency	94 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

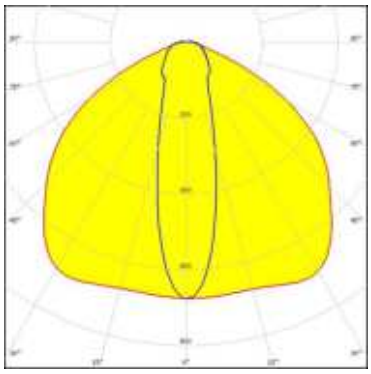
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OPTICAL RESULTS (MEASURED):

NICHIA

LED	NVSxE21A
FWHM / FWTM	26.0 + 116.0° / 107.0 + 145.0°
Efficiency	91 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



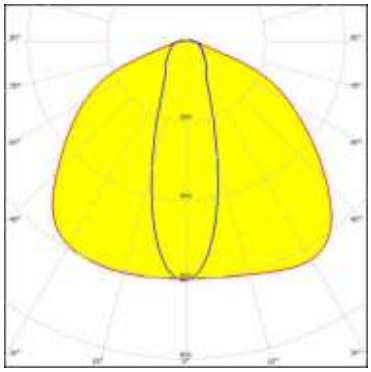


Light distribution files

NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	31.0 + 116.0° / 100.0 + 149.0°
Efficiency	90 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



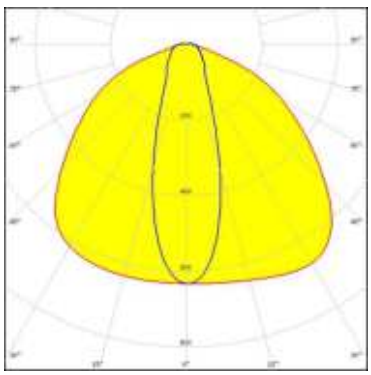


Light distribution files

NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	114.0 + 32.0° / 148.0 + 93.0°
Efficiency	91 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

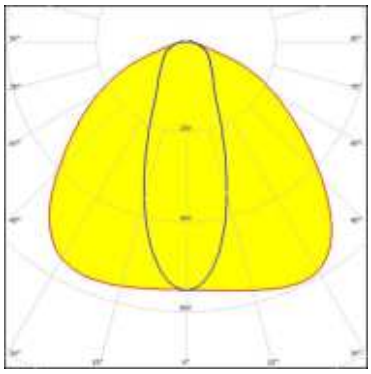
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OPTICAL RESULTS (MEASURED):

OSRAM

LED	Duris S8
FWHM / FWTM	111.0 + 38.0° / 148.0 + 121.0°
Efficiency	92 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



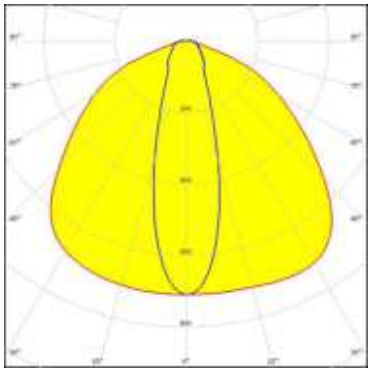


Light distribution files

OSRAM

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	110.0 + 29.0° / 146.0 + 86.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



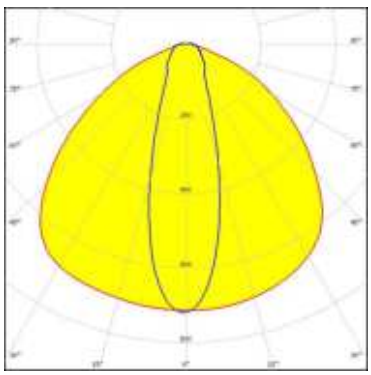


Light distribution files

OSRAM

LED	OSLON Square EC
FWHM / FWTM	30.0 + 108.0° / 87.0 + 145.0°
Efficiency	91 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

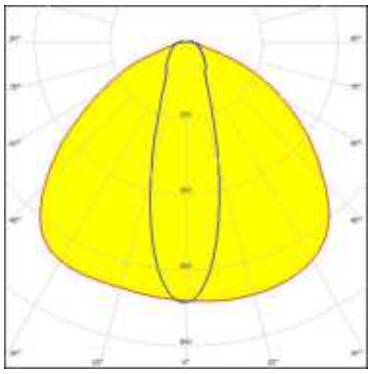
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

OSRAM

LED	OSLON Square PC
FWHM / FWTM	30.0 + 111.0° / 91.0 + 146.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



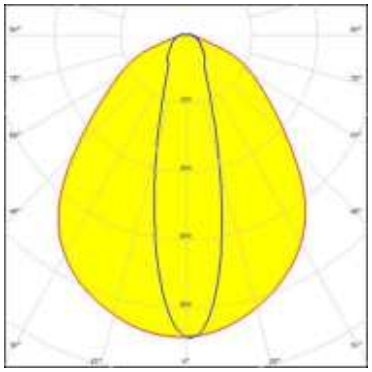


Light distribution files

OSRAM

LED	OSLON SSL 80
FWHM / FWTM	26.0 + 92.0° / 81.0 + 143.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

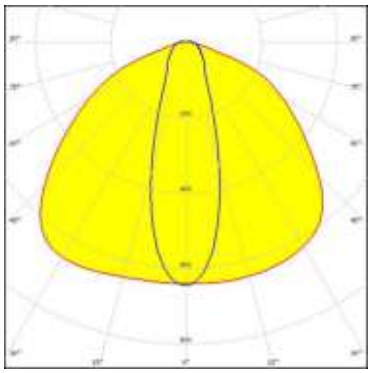




Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 2x6 DP G4
FWHM / FWTM	32.0 + 116.0° / 91.0 + 149.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

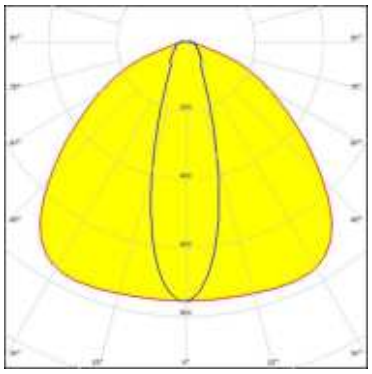
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

PHILIPS

LED	Fortimo FastFlex LED 2x6 DP G5
FWHM / FWTM	108.0 + 29.0° / 145.0 + 72.0°
Efficiency	94 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



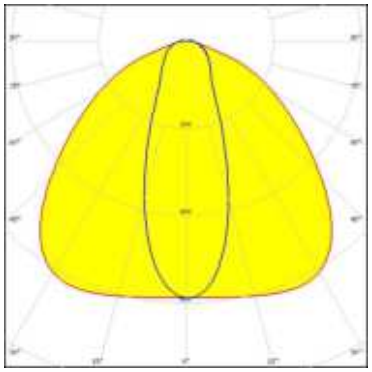


Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 2x6 DP HE
FWHM / FWTM	106.0 + 37.0° / 146.0 + 110.0°
Efficiency	94 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

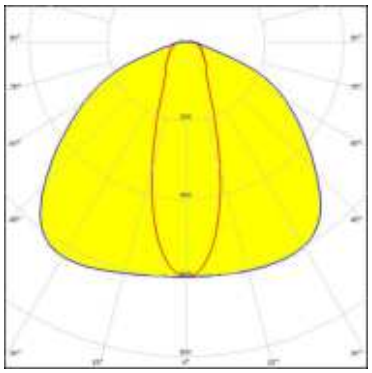




Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 2x6 DPX G4
FWHM / FWTM	33.0 + 119.0° / 100.0 + 150.0°
Efficiency	92 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

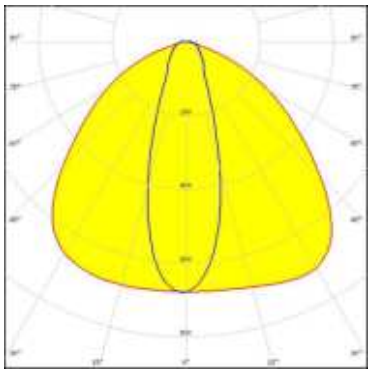
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OPTICAL RESULTS (MEASURED):

SAMSUNG

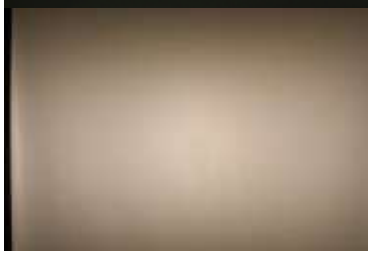
LED	HiLOM RH12 (LH351C)
FWHM / FWTM	107.0 + 32.0° / 145.0 + 85.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

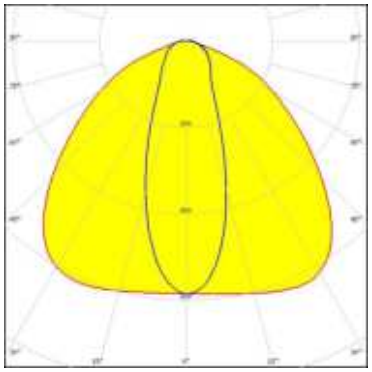




SAMSUNG

LED	HiLOM RM12 ZP (LH502C)
FWHM / FWTM	107.0 + 37.0° / 146.0 + 111.0°
Efficiency	93 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

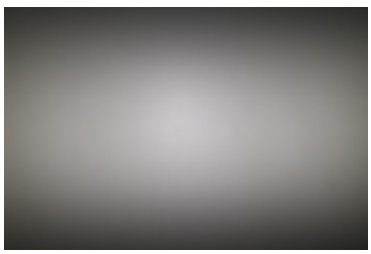


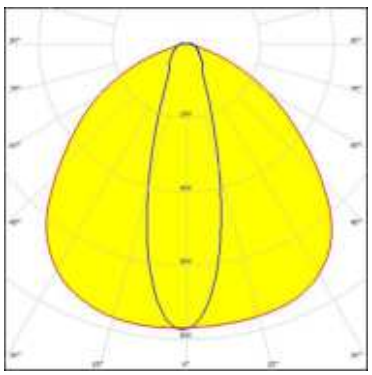


Light distribution files

SAMSUNG

LED	LH351Z
FWHM / FWTM	29.0 + 104.0° / 70.0 + 144.0°
Efficiency	91 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





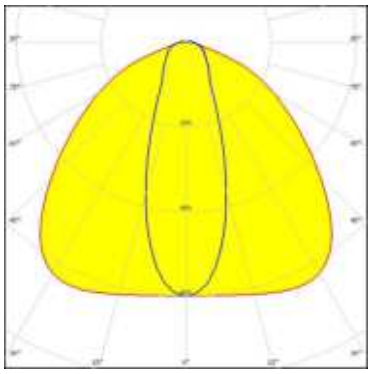
Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SCIOLUX

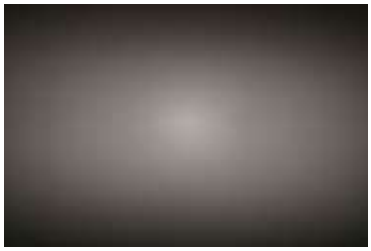
LED	BALAM-VP-5250-750-36
FWHM / FWTM	Asymmetric
Efficiency	93 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

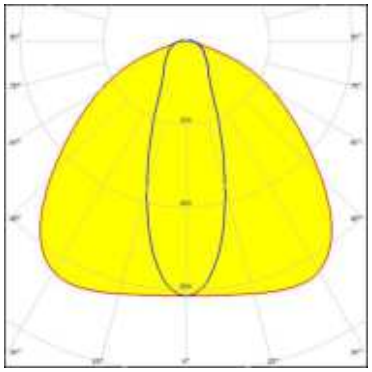


Light distribution files

SCIOLUX

LED	BALAMEC-VE-5700-740-36
FWHM / FWTM	107.0 + 35.0° / 145.0 + 100.0°
Efficiency	93 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



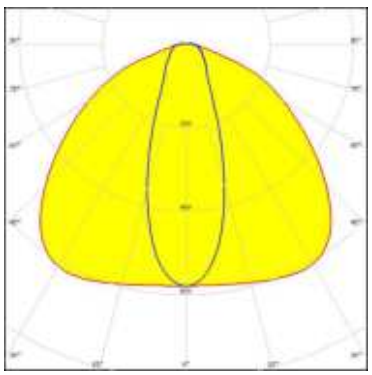


Light distribution files

SCIOLUX

LED	ROY-S26XPL2 (XP-L2)
FWHM / FWTM	116.0 + 36.0° / 150.0 + 98.0°
Efficiency	93 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

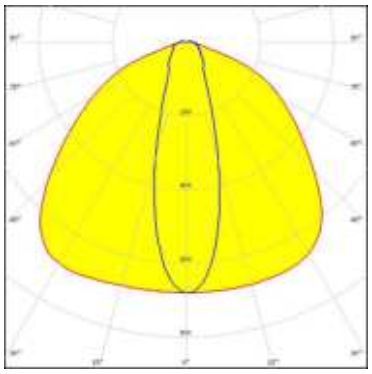
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OPTICAL RESULTS (MEASURED):

SCIOLUX

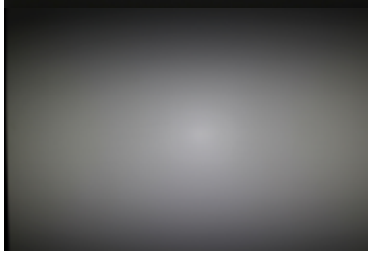
LED	XLE-S22C4XTEHE (XT-E HE)
FWHM / FWTM	112.0 + 29.0° / 147.0 + 85.0°
Efficiency	90 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

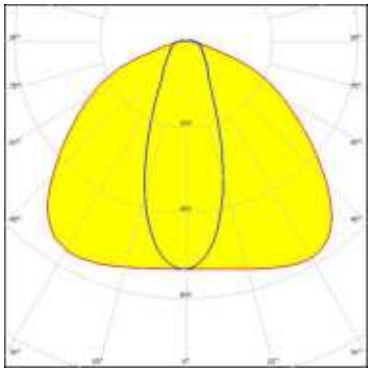




SCIOLUX

LED	XLE-S26XHP35 (XHP35 HD)
FWHM / FWTM	118.0 + 38.0° / 151.0 + 103.0°
Efficiency	91 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



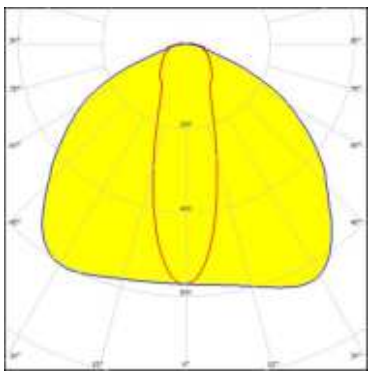


Light distribution files

SEOUL SEMICONDUCTOR

LED	SMJQ-D36W12Mx
FWHM / FWTM	30.0 + 119.0° / 128.0 + 149.0°
Efficiency	91 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





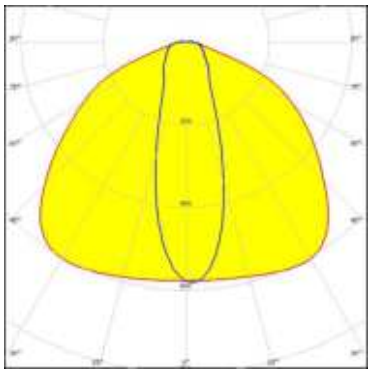
Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

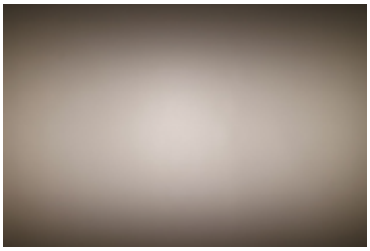
OPTICAL RESULTS (MEASURED):

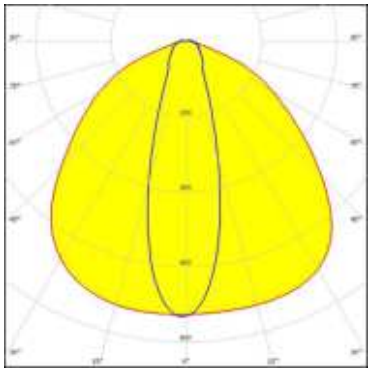
LED	SMJQ-D36W12Px
FWHM / FWTM	121.0 + 32.0° / 151.0 + 108.0°
Efficiency	92 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





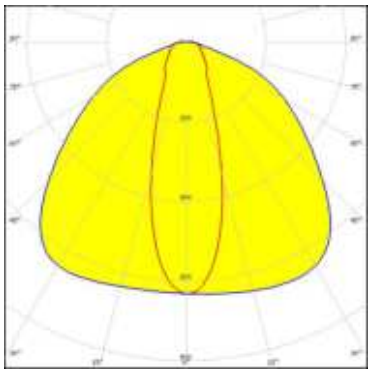
LED	Z5M1/Z5M2
FWHM / FWTM	29.0 + 105.0° / 79.0 + 145.0°
Efficiency	90 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

LED	Z5M3
FWHM / FWTM	32.0 + 111.0° / 96.0 + 148.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

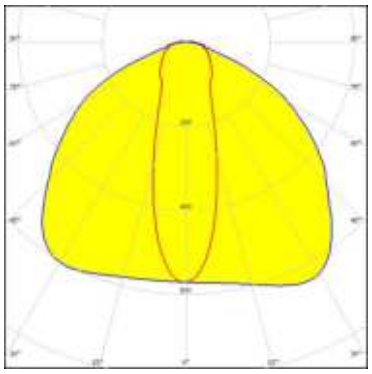
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OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z8Y22
FWHM / FWTM	30.0 + 119.0° / 128.0 + 149.0°
Efficiency	91 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



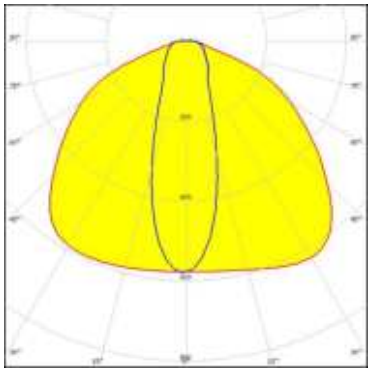


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	122.0 + 32.0° / 151.0 + 111.0°
Efficiency	92 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



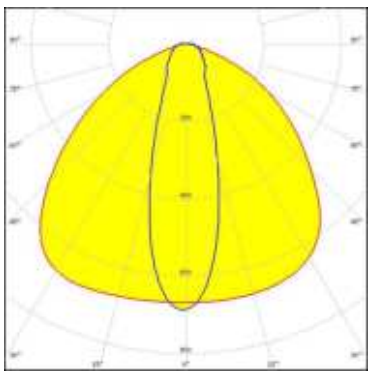


Light distribution files

TOSHIBA
Leading Innovation

LED	TL1L4
FWHM / FWTM	29.0 + 107.0° / 88.0 + 144.0°
Efficiency	87 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

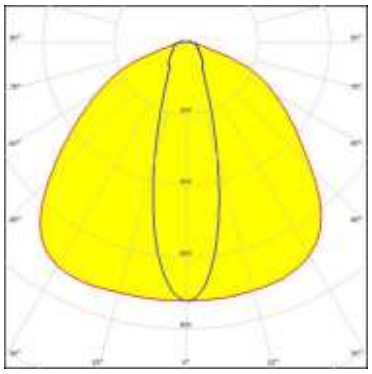
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OPTICAL RESULTS (MEASURED):

TRIDONIC

LED	RLE 2x6 3000lm HP EXC2 OTD
FWHM / FWTM	108.0 + 29.0° / 146.0 + 82.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





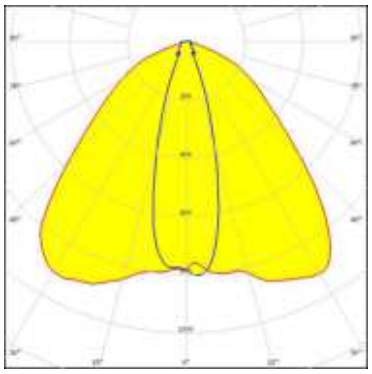
Light distribution files

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OPTICAL RESULTS (SIMULATED):

CREE LEDs

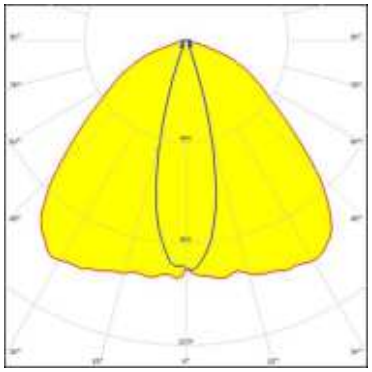
LED	J Series 5050 Round LES
FWHM / FWTM	29.0 + 96.0° / 50.0 + 141.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

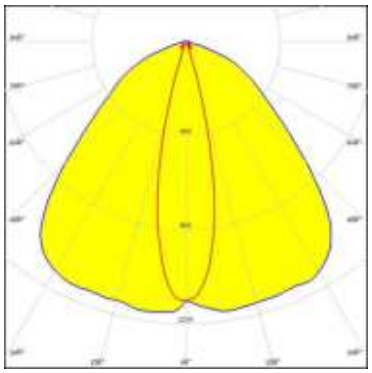
LED	XP-G2 HE
FWHM / FWTM	103.0 + 28.0° / 144.0 + 42.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

inventronics

LED	PrevaLED Brick HP IP 2x6
FWHM / FWTM	24.0 + 97.0° / 36.0 + 141.0°
Efficiency	95 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



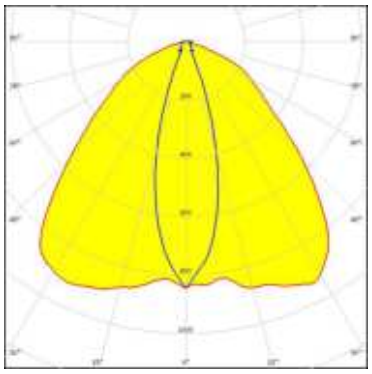
Light distribution files

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OPTICAL RESULTS (SIMULATED):

LUMILEDS

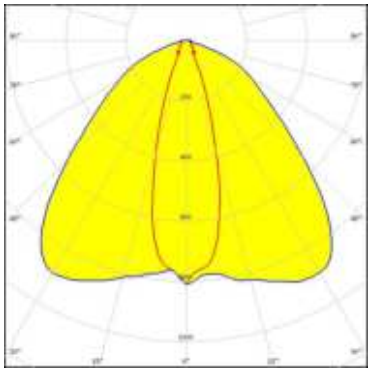
LED	LUXEON 5050 Round LES
FWHM / FWTM	34.0 + 96.0° / 61.0 + 141.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

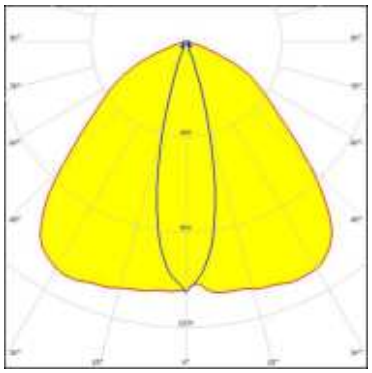
LED	LUXEON 5050 Square LES
FWHM / FWTM	30.0 + 98.0° / 52.0 + 141.0°
Efficiency	95 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON HL2X
FWHM / FWTM	100.0 + 26.0° / 138.0 + 40.0°
Efficiency	95 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



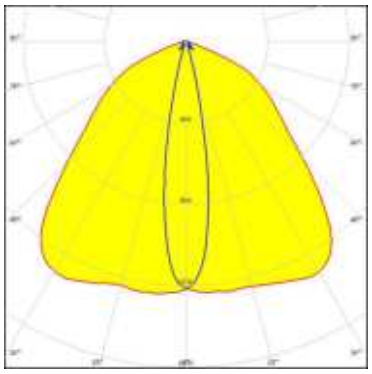
Light distribution files

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OPTICAL RESULTS (SIMULATED):

LUMILEDS

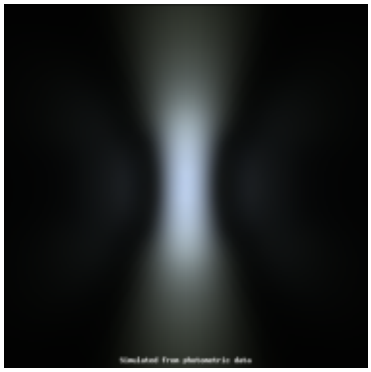
LED	LUXEON HL2Z
FWHM / FWTM	98.0 + 20.0° / 140.0 + 32.0°
Efficiency	95 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

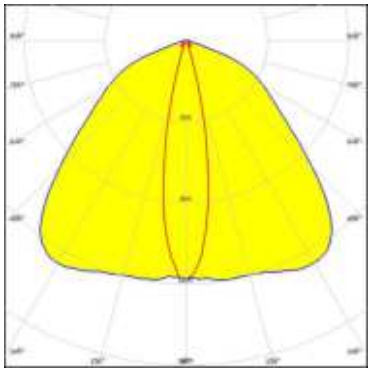


Light distribution files

LUMINUS

LED	SST-20 Gen2
FWHM / FWTM	20.0 + 102.0° / 34.0 + 142.0°
Efficiency	96 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

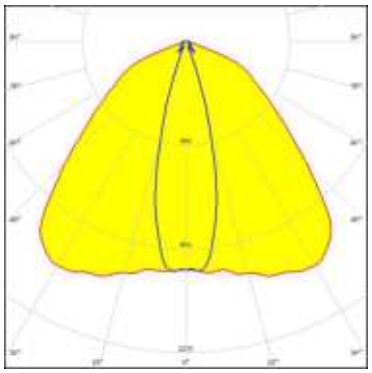




Light distribution files

NICHIA

LED	NV4WB35AM
FWHM / FWTM	100.0 + 28.0° / 140.0 + 42.0°
Efficiency	95 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



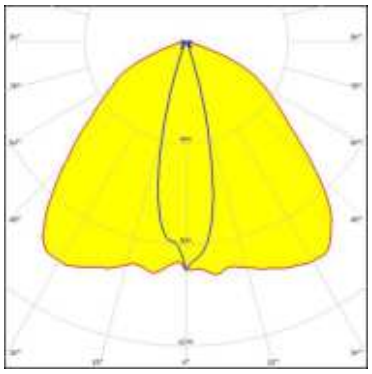
Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

NICHIA

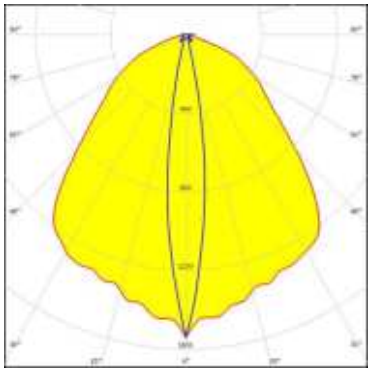
LED	NVSW3x9A
FWHM / FWTM	103.0 + 25.0° / 142.0 + 44.0°
Efficiency	91 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM

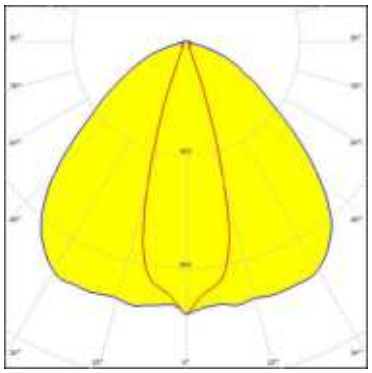
LED	OSCONIQ P 3030
FWHM / FWTM	92.0 + 14.0° / 141.0 + 28.0°
Efficiency	95 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM

LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	32.0 + 100.0° / 44.0 + 142.0°
Efficiency	95 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



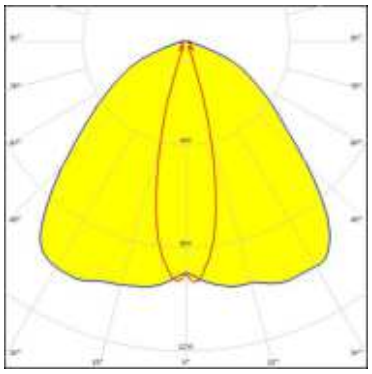
Light distribution files

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OPTICAL RESULTS (SIMULATED):

OSRAM

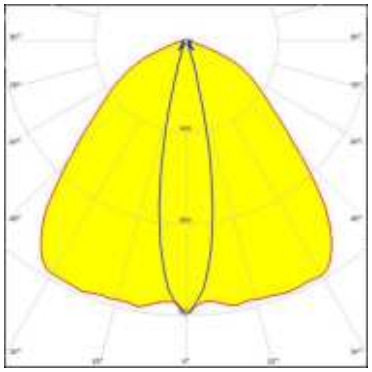
LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	27.0 + 100.0° / 44.0 + 143.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM

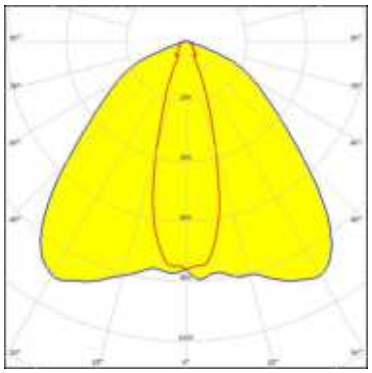
LED	OSCONIQ P 3737 Flat
FWHM / FWTM	96.0 + 22.0° / 140.0 + 36.0°
Efficiency	96 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LH502D
FWHM / FWTM	30.0 + 98.0° / 52.0 + 140.0°
Efficiency	96 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

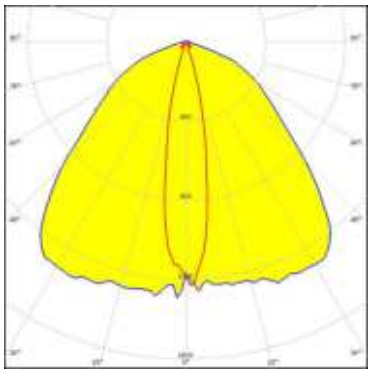


Light distribution files

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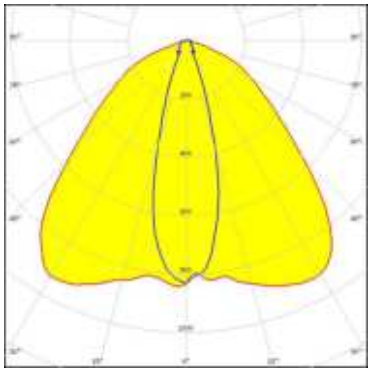
OPTICAL RESULTS (SIMULATED):

LED	SEOUL DC 3528
FWHM / FWTM	20.0 + 99.0° / 36.0 + 142.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



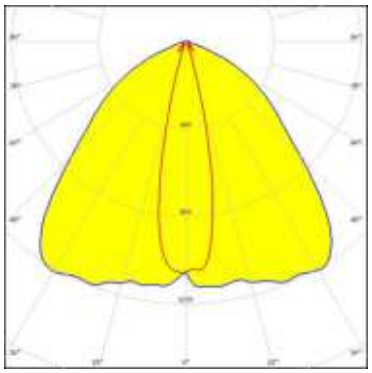
Light distribution files

LED	SEOUL DC 5050 6V
FWHM / FWTM	97.0 + 29.0° / 142.0 + 49.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LED	Z5M4
FWHM / FWTM	24.0 + 98.0° / 34.0 + 136.0°
Efficiency	96 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

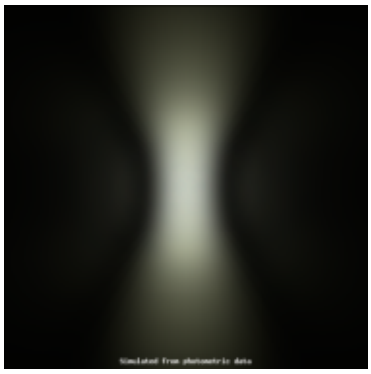


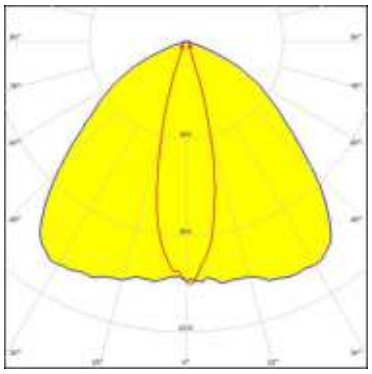
Light distribution files

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OPTICAL RESULTS (SIMULATED):

LED	Z5M4-E1
FWHM / FWTM	26.0 + 102.0° / 42.0 + 138.0°
Efficiency	96 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

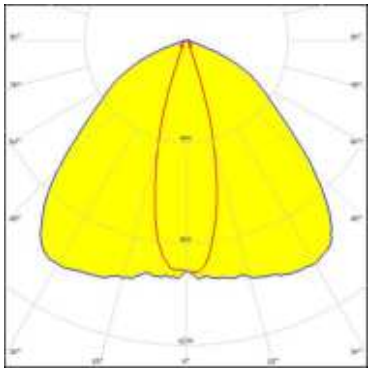




Light distribution files

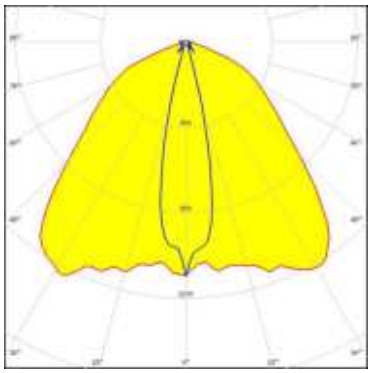
LED	Z5M4-E2
FWHM / FWTM	28.0 + 102.0° / 46.0 + 140.0°
Efficiency	97 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

LED	Z8Y22T
FWHM / FWTM	97.0 + 21.0° / 141.0 + 32.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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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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