HB-IP-2X6-WWW

~100° wide beam



SPECIFICATION:

Dimensions	71.4 x 173.0 mm
Height	11.4 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes

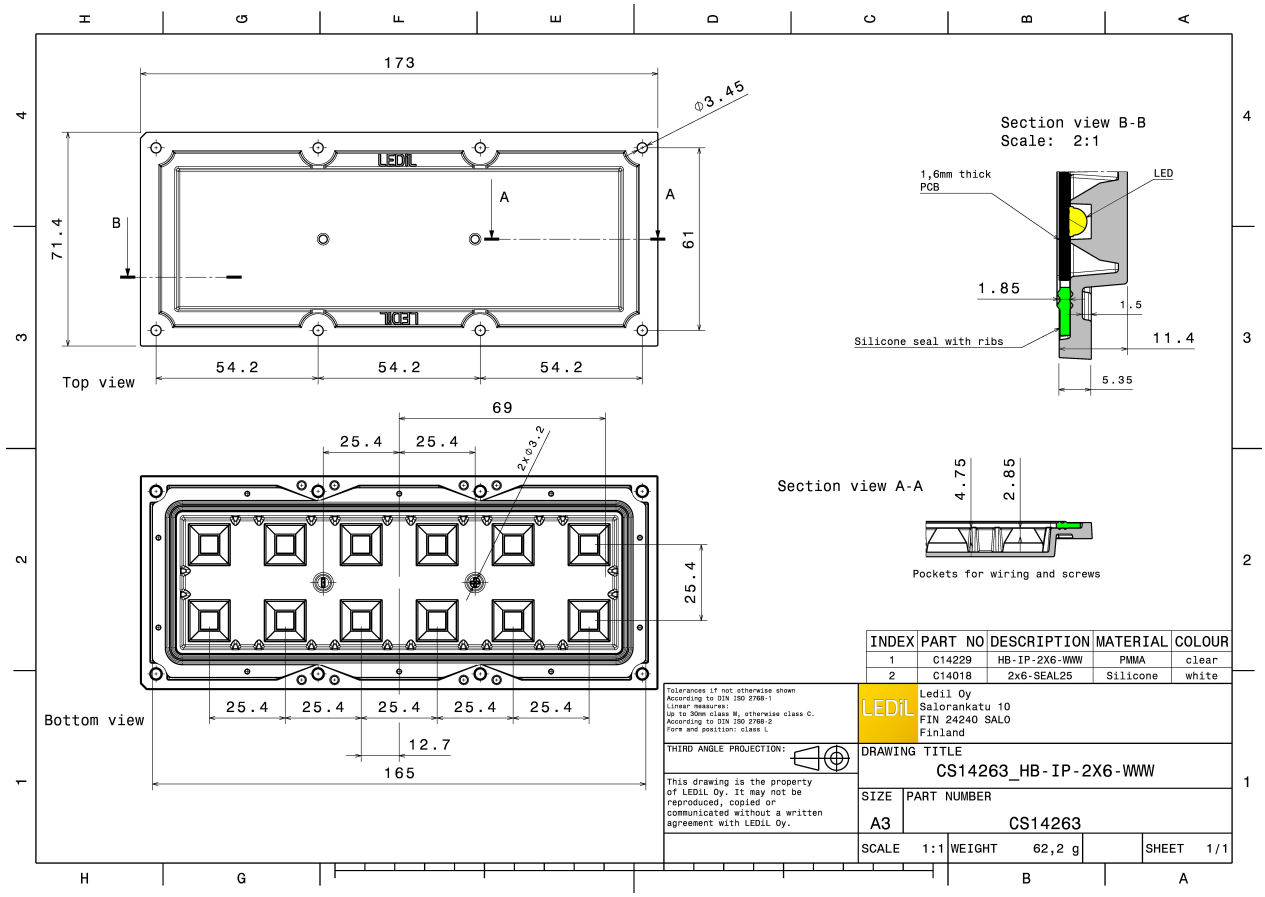
MATERIALS:

Component	Type	Material	Colour	Finish
HB-IP-2X6-WWW	Multi-lens	PMMA	clear	
2X6-SEAL25	Seal	Silicone	white	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS14263_HB-IP-2X6-WWW » Box size: 476 x 273 x 247 mm	Multi-lens	120	40	40	8.3

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INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C14229	HB-IP-2X6-WWW	PMMA	clear
2	C14018	2x6-SEAL25	Silicone	white

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

THIRD ANGLE PROJECTION:

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Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
CS14263_HB-IP-2X6-WWW

SIZE	PART NUMBER
A3	CS14263

SCALE 1:1 | WEIGHT 62,2 g | SHEET 1/1

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

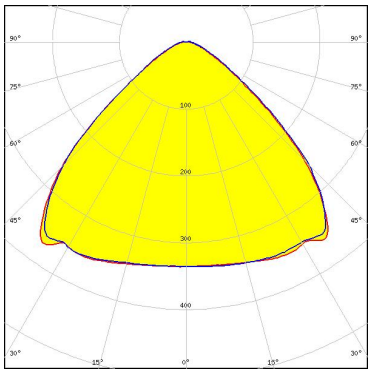
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OPTICAL RESULTS (MEASURED):

COMET ELECTRONICS

LED	QUICK FLUX 2x6 LED XG xxx G7+
FWHM / FWTM	100.0° / 133.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

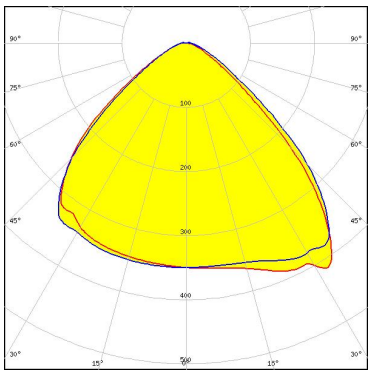




COMET ELECTRONICS

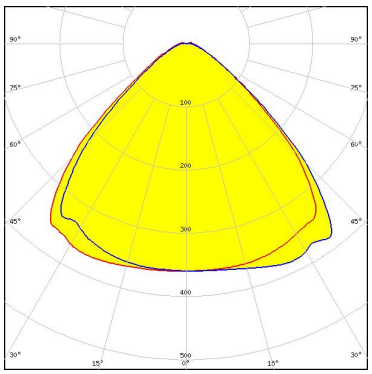
LED	QUICK FLUX 2x6 LED XT xxx G5
FWHM / FWTM	96.0° / 128.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





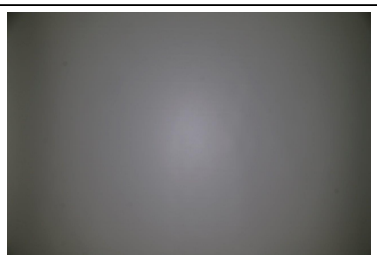
CREE LEDs

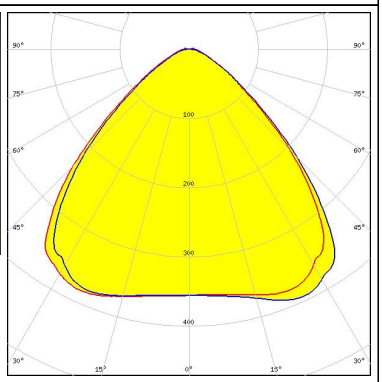
LED	XM-L2
FWHM / FWTM	97.0° / 132.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LEDs

LED	XP-G2
FWHM / FWTM	95.0° / 132.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



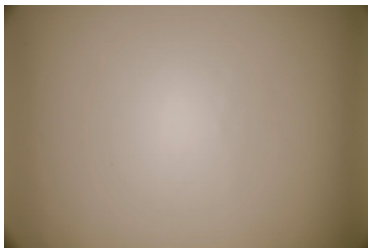


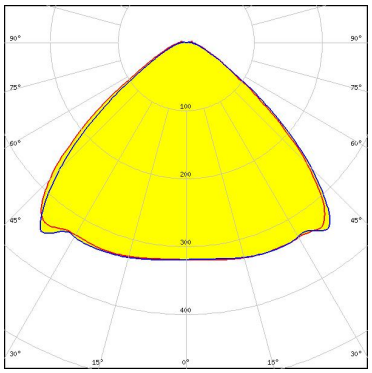
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OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-L HD
FWHM / FWTM	103.0° / 138.0°
Efficiency	92 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

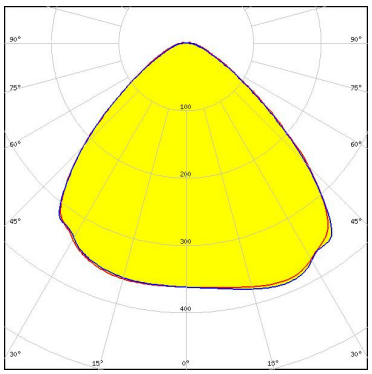




CREE LEDs

LED	XP-L2
FWHM / FWTM	96.0° / 134.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

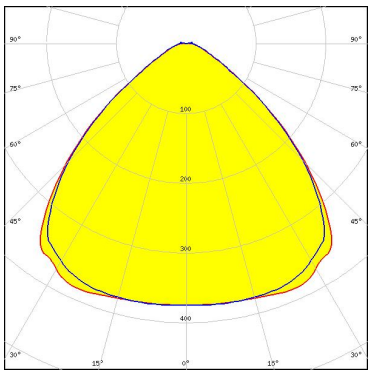




CREE LEDs

LED	XT-E
FWHM / FWTM	98.0° / 130.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

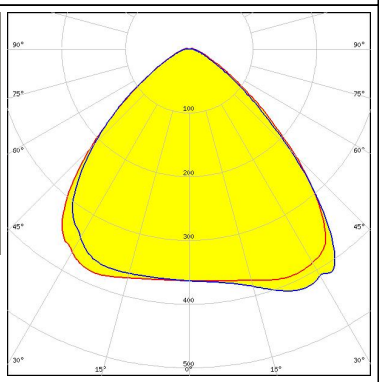




CREE LEDs

LED	XT-E HE
FWHM / FWTM	95.0° / 129.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



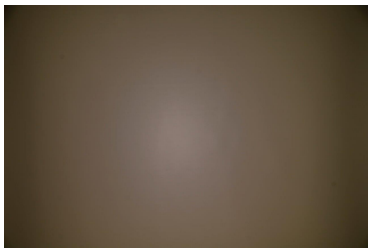


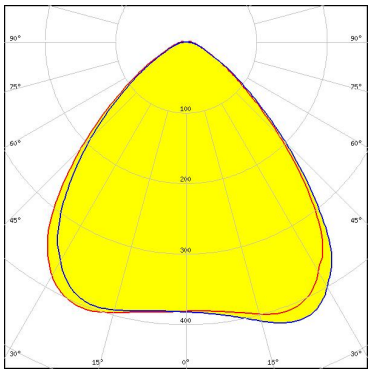
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OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON T
FWHM / FWTM	91.0° / 129.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

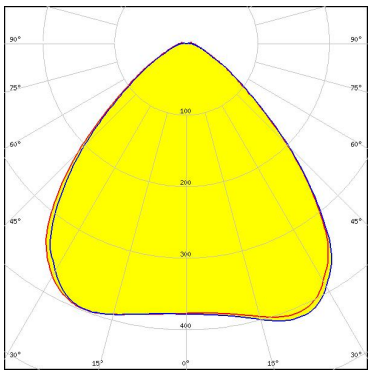




LUMILEDS

LED	LUXEON TX
FWHM / FWTM	95.0° / 133.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

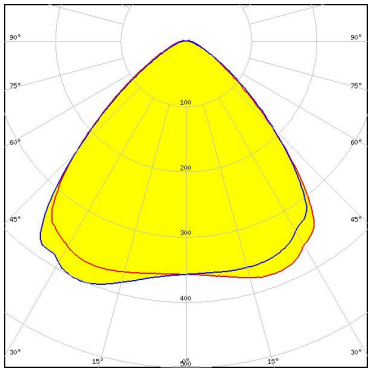




LUMILEDS

LED	LUXEON V
FWHM / FWTM	94.0° / 130.0°
Efficiency	92 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

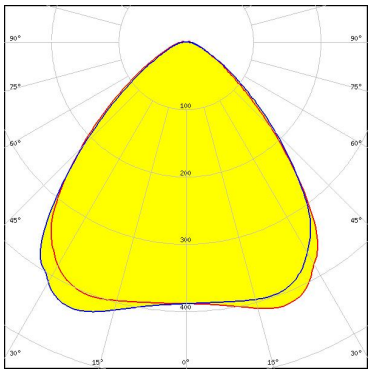




LUMILEDS

LED	LUXEON V2
FWHM / FWTM	91.0° / 129.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





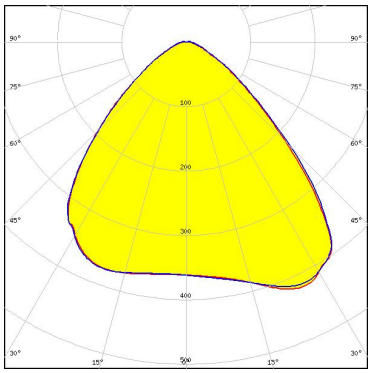
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OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON XR-TX (L2T0-xxxx012M0000)
FWHM / FWTM	97.0° / 135.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

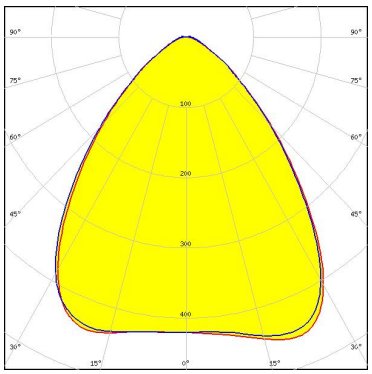




LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	85.0° / 124.0°
Efficiency	93 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

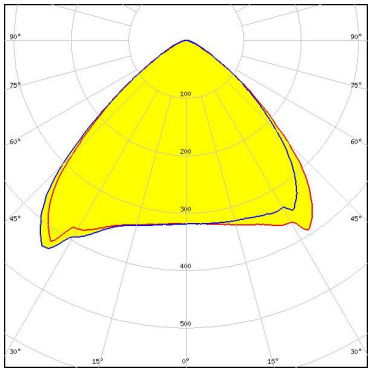




LUMINUS

LED	SST-10-B130
FWHM / FWTM	96.0° / 124.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	Deep Red
Required components:	

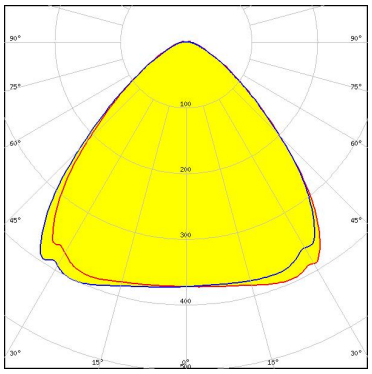




MST *Your solutions*

LED	RecLED 146x45mm 2900lm 730 2x6 IP G1
FWHM / FWTM	91.5° / 129.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



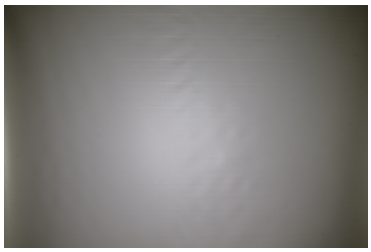


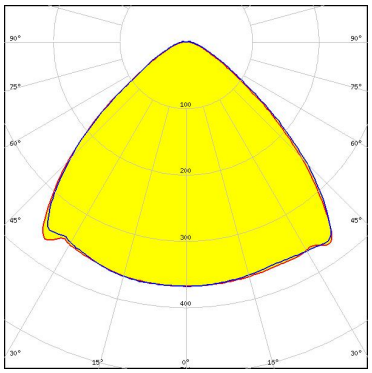
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OPTICAL RESULTS (MEASURED):

NICHIA

LED	NVSW219D
FWHM / FWTM	98.0° / 132.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

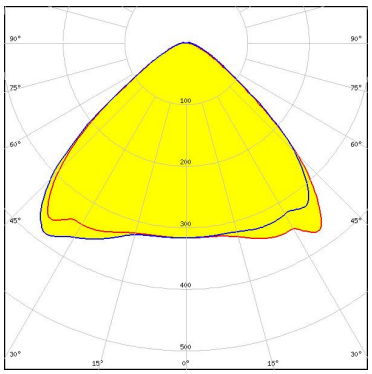




NICHIA

LED	NVSW319B
FWHM / FWTM	103.0° / 136.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

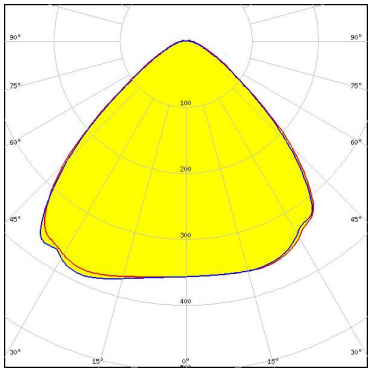




NICHIA

LED	NVSW3x9A
FWHM / FWTM	97.0° / 133.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

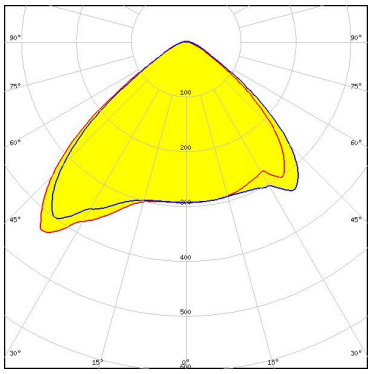




NICHIA

LED	NVSW519A
FWHM / FWTM	100.0° / 126.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





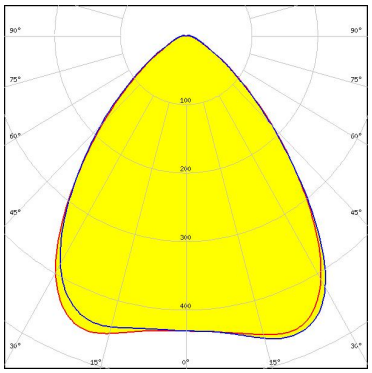
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OPTICAL RESULTS (MEASURED):

NICHIA

LED	NVSxE21A
FWHM / FWTM	84.0° / 120.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

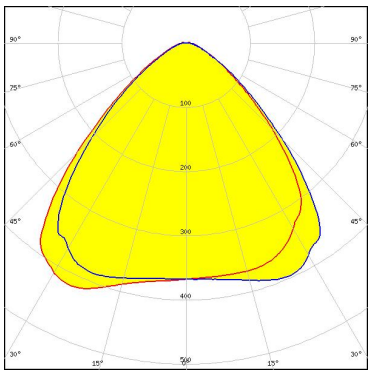




NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	90.0° / 129.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

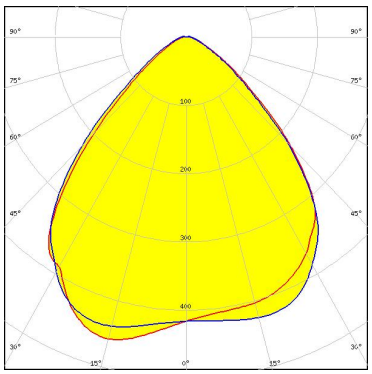




OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	90.0° / 124.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

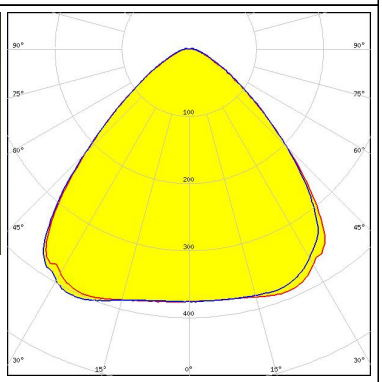




OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	97.0° / 135.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





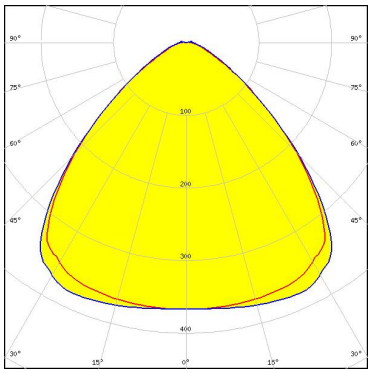
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OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSLON Square PC
FWHM / FWTM	95.0° / 130.0°
Efficiency	92 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

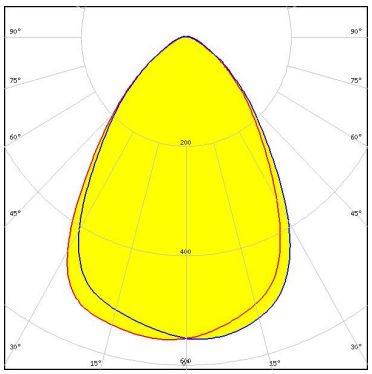




OSRAM
Opto Semiconductors

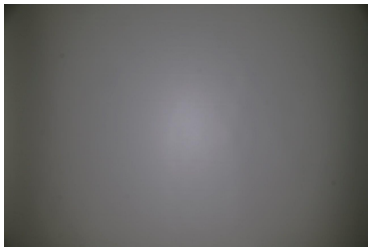
LED	OSLON SSL 80
FWHM / FWTM	76.0° / 123.0°
Efficiency	94 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

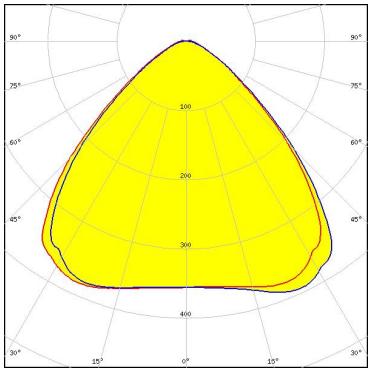




PHILIPS

LED	Fortimo FastFlex LED 2x6 DP G4
FWHM / FWTM	95.0° / 132.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

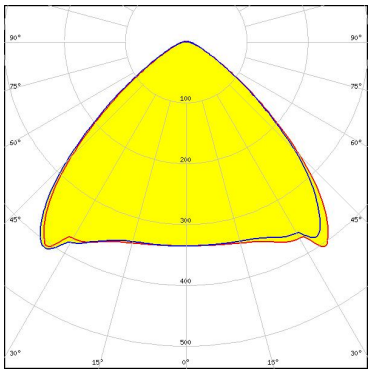




PHILIPS

LED	Fortimo FastFlex LED 2x6 DP G5
FWHM / FWTM	96.0° / 125.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





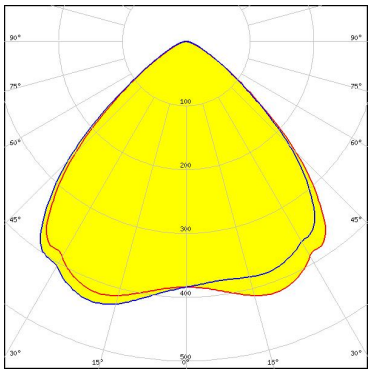
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OPTICAL RESULTS (MEASURED):

PHILIPS

LED	Fortimo FastFlex LED 2x6 DP HE
FWHM / FWTM	93.0° / 122.0°
Efficiency	97 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

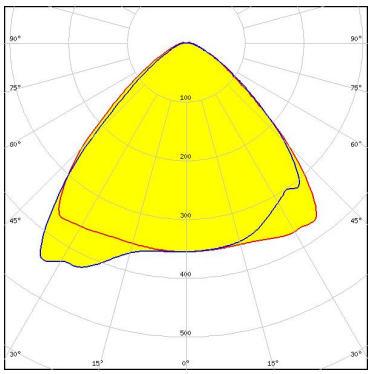




SAMSUNG

LED	HiLOM RH12 (LH351C)
FWHM / FWTM	94.0° / 130.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

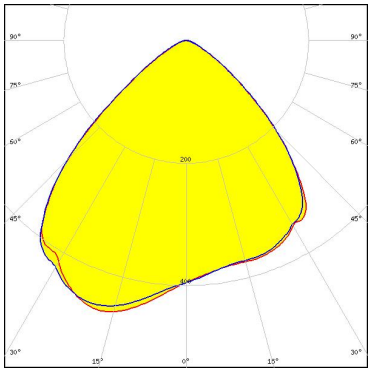




SAMSUNG

LED	HiLOM RM12 ZP (LH502C)
FWHM / FWTM	92.0° / 122.0°
Efficiency	96 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

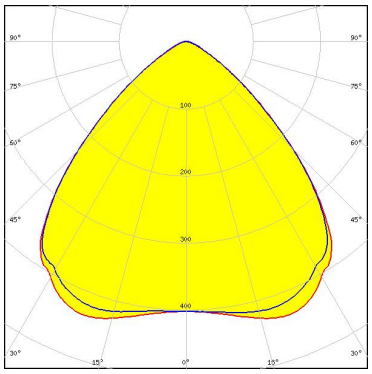




SCIOLUX

LED	BALAM-VP-5250-750-36
FWHM / FWTM	91.0° / 122.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





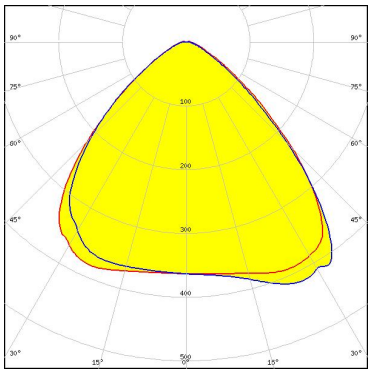
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SCIOLUX

LED	XLE-S22C4XTEHE (XT-E HE)
FWHM / FWTM	95.0° / 129.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

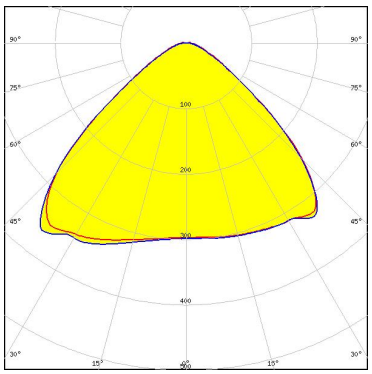




SCIOLUX

LED	XLE-S26XHP35 (XHP35 HD)
FWHM / FWTM	104.0° / 139.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

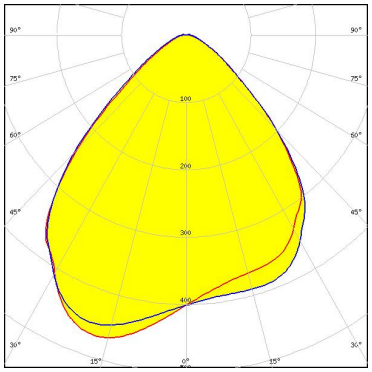




SEOUL SEMICONDUCTOR

LED	2x6 5050 module - SMJD-3625012F-XX
FWHM / FWTM	88.0° / 125.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

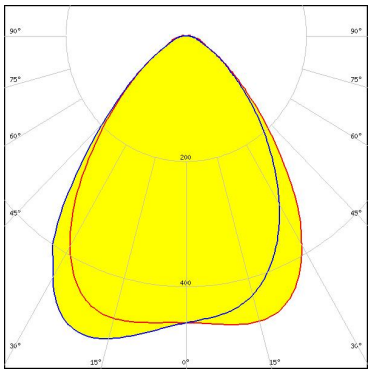




SEOUL SEMICONDUCTOR

LED	SMJQ-D36W12Mx
FWHM / FWTM	79.0° / 123.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





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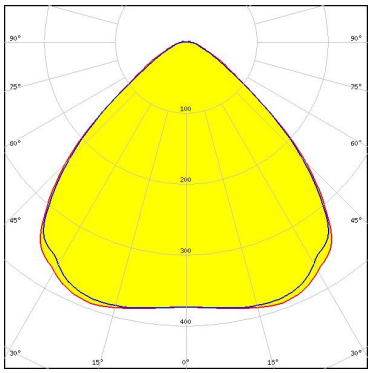
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	SMJQ-D36W12Px
FWHM / FWTM	96.0° / 131.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



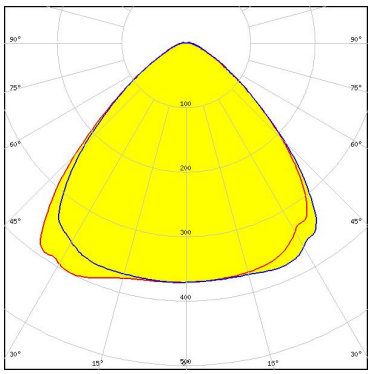


SEOUL SEMICONDUCTOR

LED	Z5M1/Z5M2
FWHM / FWTM	97.0° / 135.0°
Efficiency	92 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



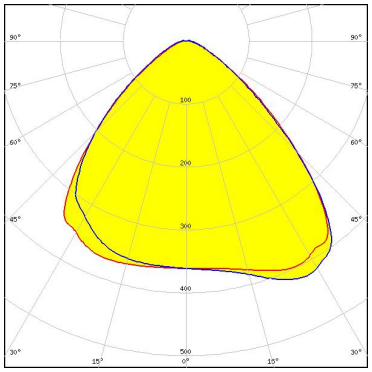


SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	93.0° / 128.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



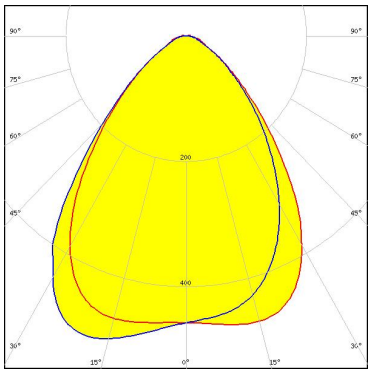


SEOUL SEMICONDUCTOR

LED	Z8Y22
FWHM / FWTM	79.0° / 123.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:





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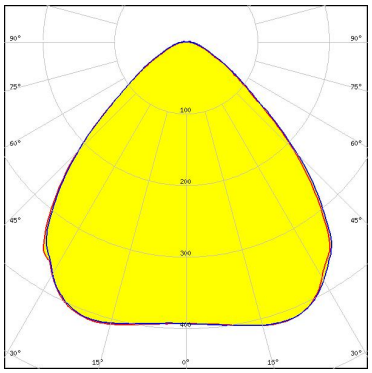
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	92.0° / 128.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



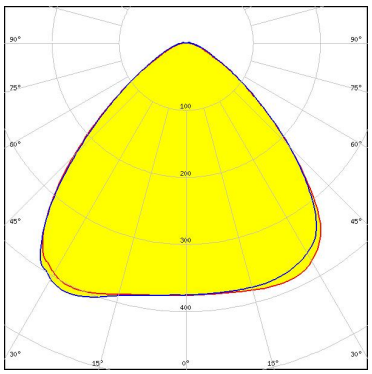


TOSHIBA
Leading Innovation

LED	TL1L4
FWHM / FWTM	95.0° / 131.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



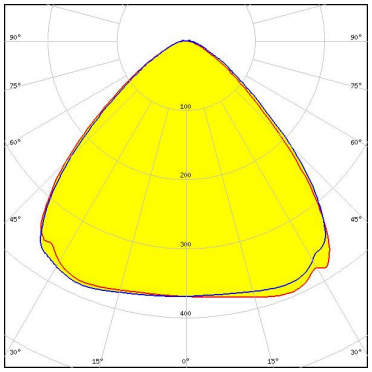


TRIDONIC

LED	RLE 2x6 3000lm HP EXC2 OTD
FWHM / FWTM	94.0° / 130.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



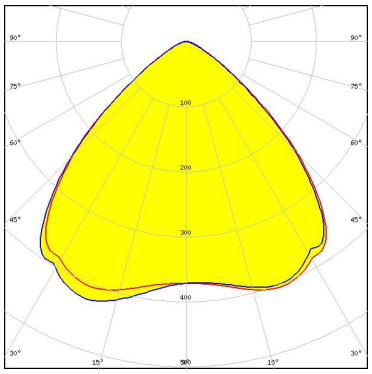


TRIDONIC

LED	RLE 2x6 4500lm HP HE EXC3 OTD Z19
FWHM / FWTM	94.0° / 122.0°
Efficiency	97 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



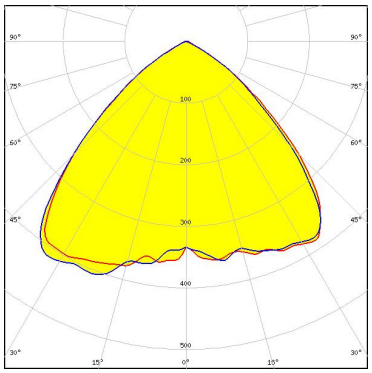


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

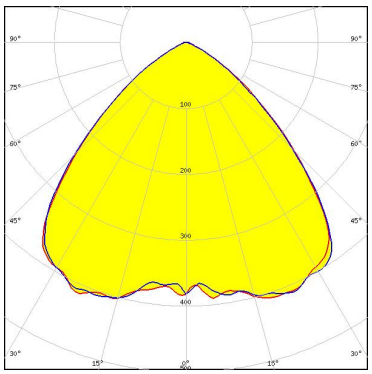
CREE LEDs

LED	J Series 5050 Round LES
FWHM / FWTM	98.0° / 130.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



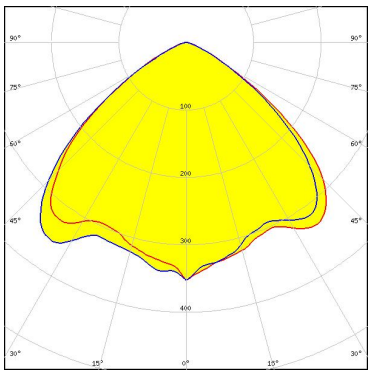
CREE LEDs

LED	J Series 5050B 6V K Class
FWHM / FWTM	94.0° / 123.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



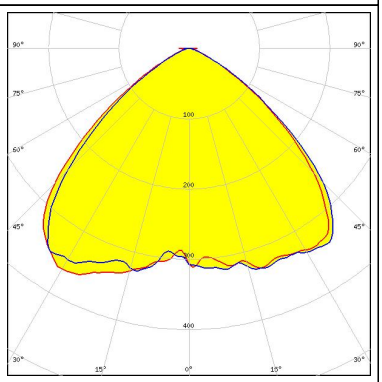
CREE LEDs

LED	MHB-A/B
FWHM / FWTM	106.0° / 131.0°
Efficiency	87 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LEDs

LED	XHP35 HD
FWHM / FWTM	101.0° / 129.0°
Efficiency	91 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

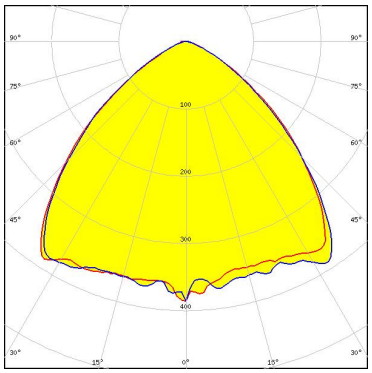


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OPTICAL RESULTS (SIMULATED):

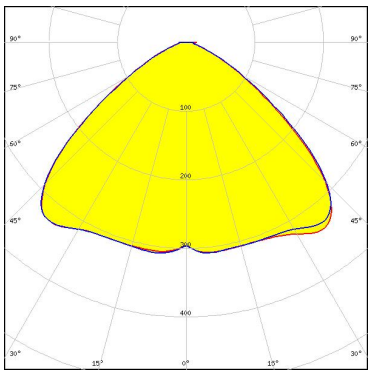
CREE LEDs

LED	XP-E
FWHM / FWTM	99.0° / 129.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



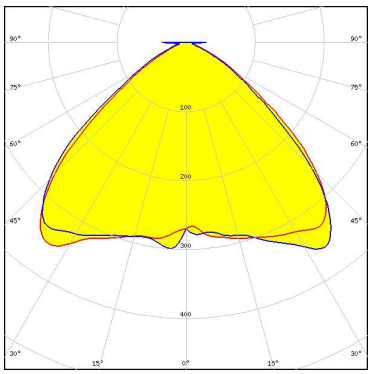
CREE LEDs

LED	XP-G2 HE
FWHM / FWTM	108.0° / 140.0°
Efficiency	93 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LEDs

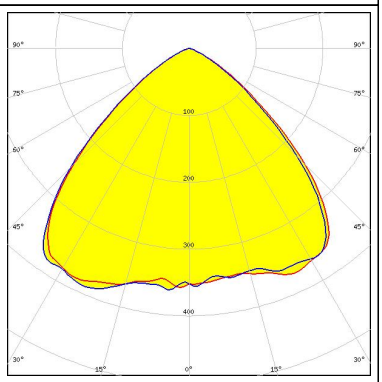
LED	XP-G3
FWHM / FWTM	95.0° / 145.0°
Efficiency	91 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	98.0° / 130.0°
Efficiency	90 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

Protective plate, glass

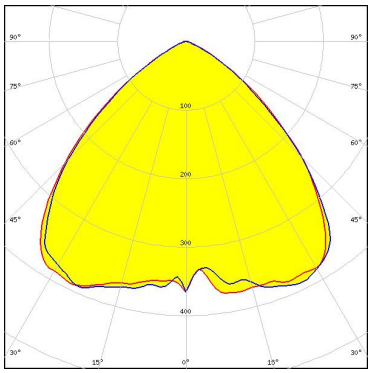


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OPTICAL RESULTS (SIMULATED):

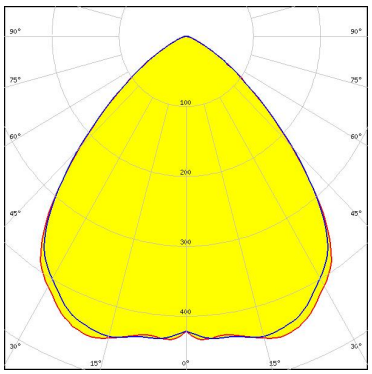
LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	92.0° / 125.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



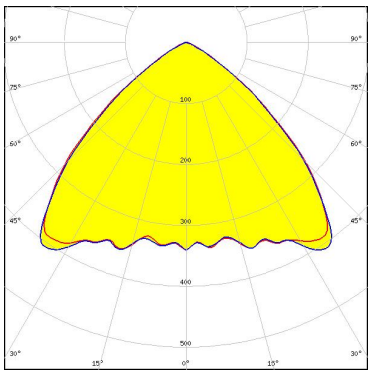
LUMILEDS

LED	LUXEON 5050 Square LES
FWHM / FWTM	90.0° / 122.0°
Efficiency	96 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



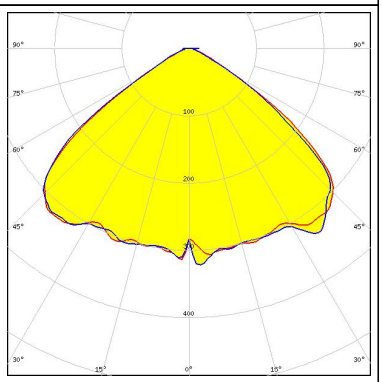
NICHIA

LED	NV4WB35AM
FWHM / FWTM	98.0° / 123.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

LED	NVSW219F
FWHM / FWTM	110.0° / 132.0°
Efficiency	92 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

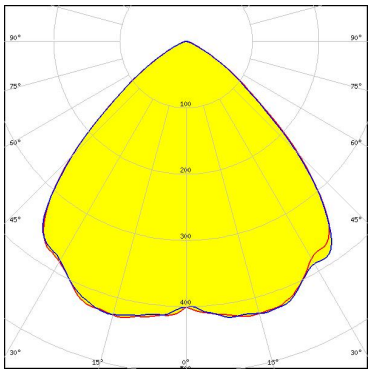


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OPTICAL RESULTS (SIMULATED):

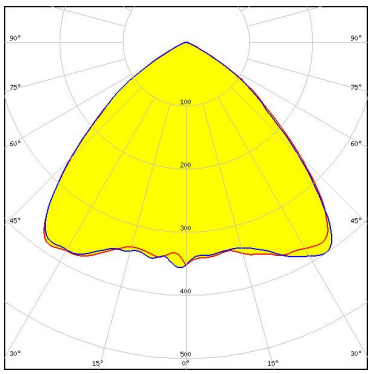
NICHIA

LED	NVSxE21A
FWHM / FWTM	94.0° / 122.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	



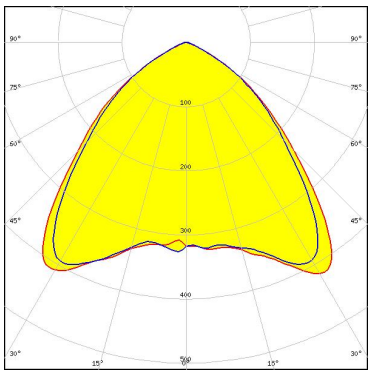
OSRAM

LED	PrevaLED Brick HP IP 2x6
FWHM / FWTM	98.0° / 124.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



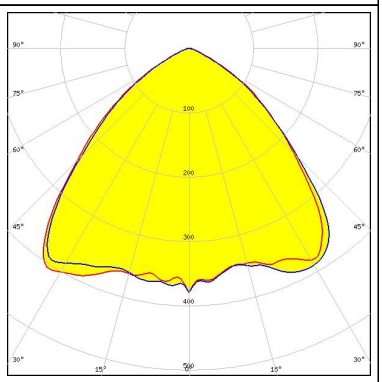
OSRAM Opto Semiconductors

LED	OSCONIQ P 3030
FWHM / FWTM	94.0° / 126.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM Opto Semiconductors

LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	95.0° / 127.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

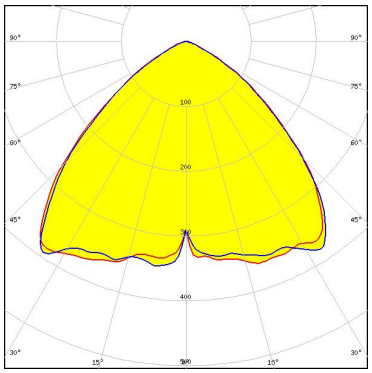


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OPTICAL RESULTS (SIMULATED):

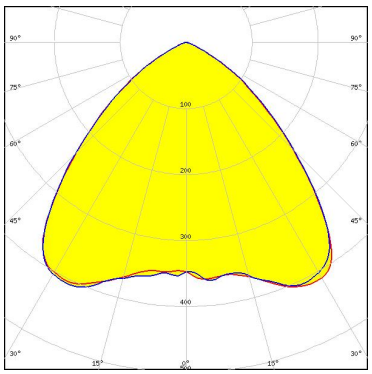
OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	98.0° / 127.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



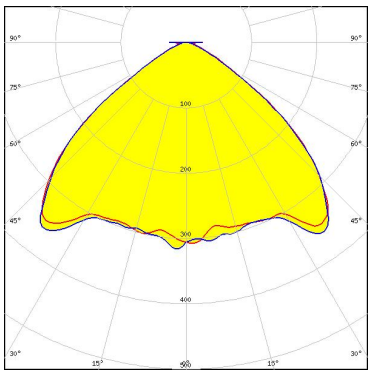
OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 Flat
FWHM / FWTM	94.0° / 126.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



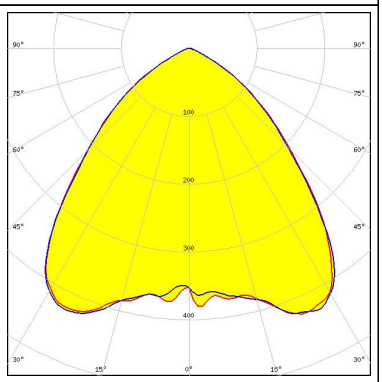
PHILIPS

LED	Fortimo FastFlex LED 2x6 DPX G4
FWHM / FWTM	105.0° / 92.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

LED	LH181B
FWHM / FWTM	90.0° / 124.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

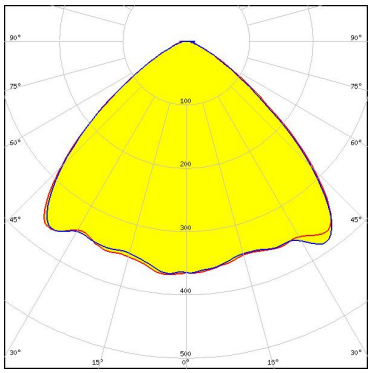


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OPTICAL RESULTS (SIMULATED):

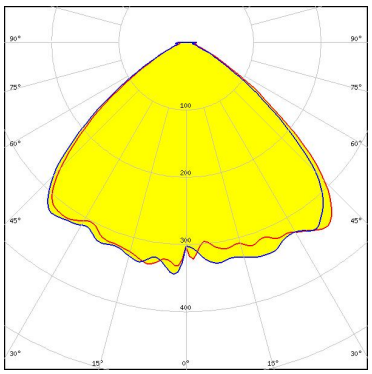
SAMSUNG

LED	LH351B
FWHM / FWTM	100.0° / 130.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



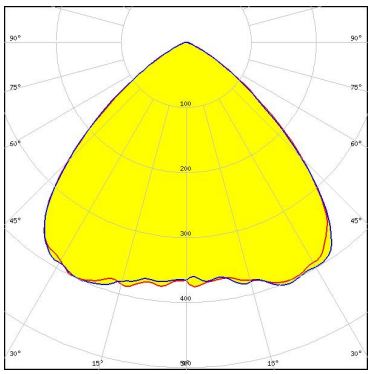
SAMSUNG

LED	LH351D
FWHM / FWTM	107.0° / 145.0°
Efficiency	92 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



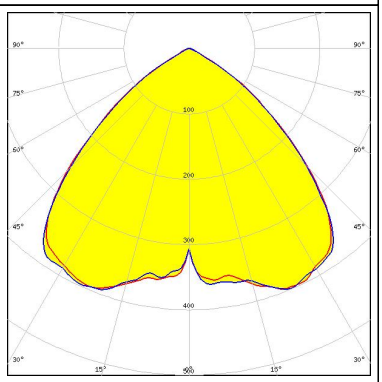
SAMSUNG

LED	LH502C
FWHM / FWTM	96.0° / 124.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

LED	LH502D
FWHM / FWTM	98.0° / 120.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

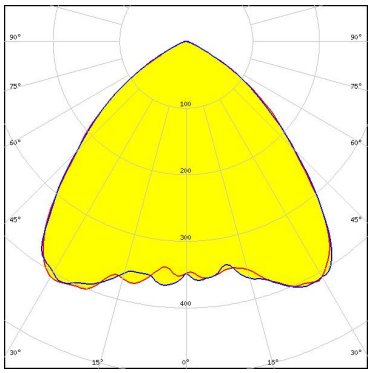


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OPTICAL RESULTS (SIMULATED):

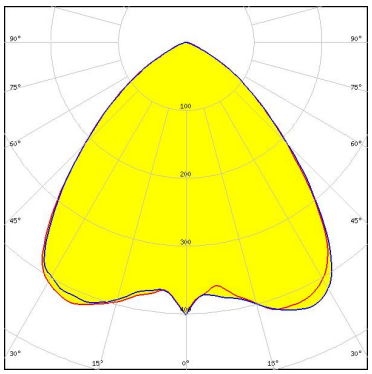
SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	94.0° / 125.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



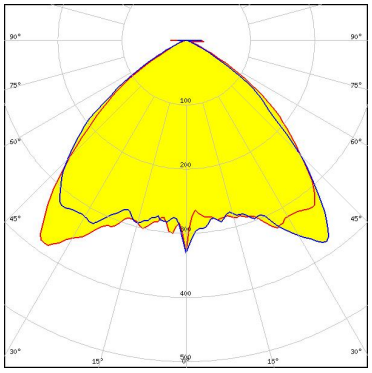
SEOUL SEMICONDUCTOR

LED	Z8Y22T
FWHM / FWTM	93.0° / 131.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



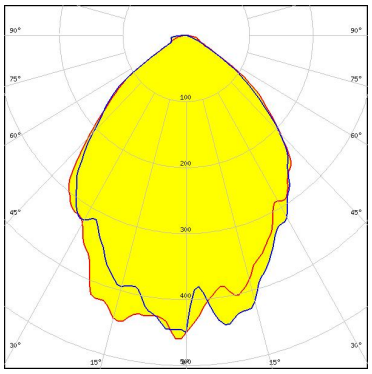
TOSHIBA
Leading Innovation

LED	TL1L2
FWHM / FWTM	100.0° / 125.0°
Efficiency	91 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



TOSHIBA
Leading Innovation

LED	TL1L3
FWHM / FWTM	Asymmetric
Efficiency	84 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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