VERONICA-SQ-SE

~190° side emitter beam



TECHNICAL SPECIFICATIONS:

Dimensions	22.5 x 22.5 mm
Height	11.4 mm
Fastening	tape
ROHS compliant	yes

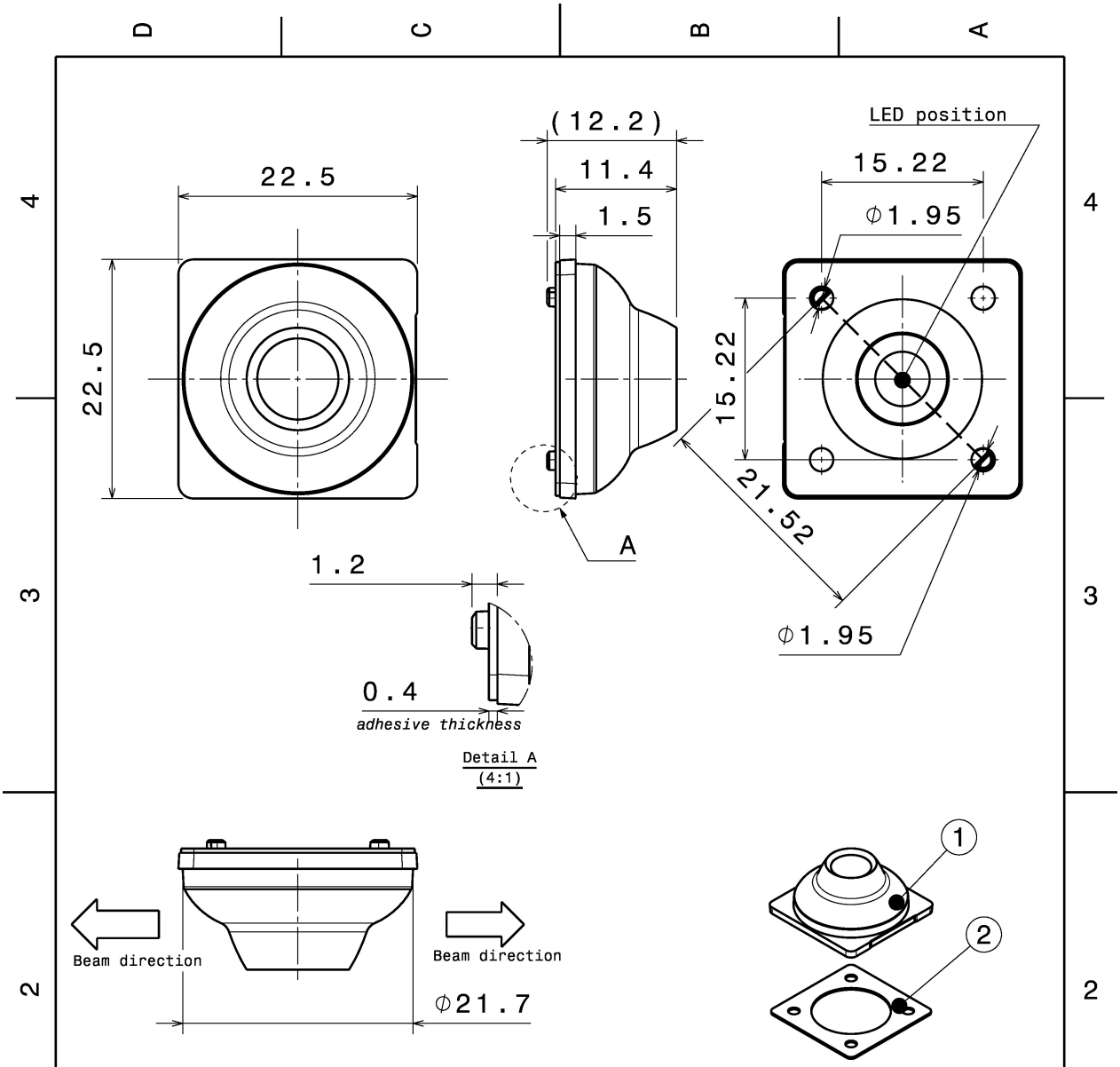
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
VERONICA-SQ-SE	Single lens	PMMA	clear	
VERONICA-TAPE	Tape	Acrylic foam	clear	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA15902_VERONICA-SQ-SE » Box size: 480 x 280 x 300 mm	Single lens	3060	360	180	9.6

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INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C15901	VERONICA-SQ-SE_Mech_Model	PMMA	CLEAR
2	C16105	VERONICA-TAPE	PU FOAM	BLACK

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

Ledil Oy
Joensuunkatu 13
FIN 24100 SALO
Finland

FIRST ANGLE PROJECTION:

DRAWING TITLE
CA15902_STRADA-SQ-SE_Datasheet

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SIZE	PART NUMBER
A4	CA15902

SCALE	WEIGHT		SHEET
2:1	2,75g		1/1

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

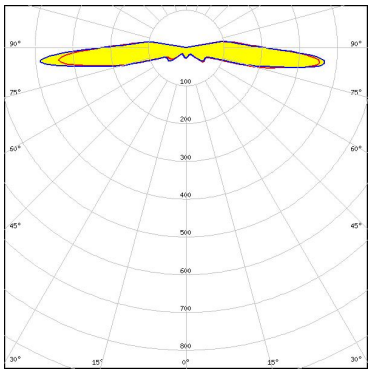
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):

CREE LED

LED	XHP35 HI
FWHM / FWTM	183.0° / 201.0°
Efficiency	88 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

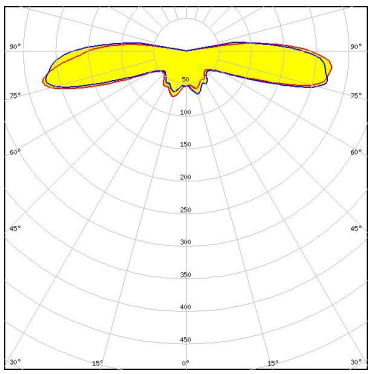
Required components:



CREE LED

LED	XHP70.2
FWHM / FWTM	194.0° / 220.0°
Efficiency	84 %
Peak intensity	0.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

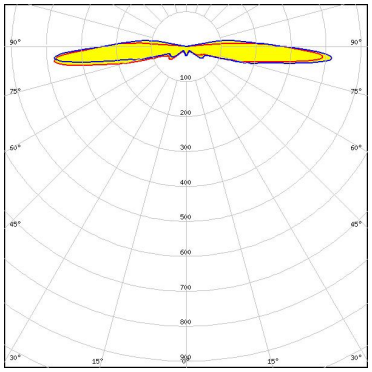


CREE LED

LED	XP-G2
FWHM / FWTM	184.0° / 196.0°
Efficiency	87 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

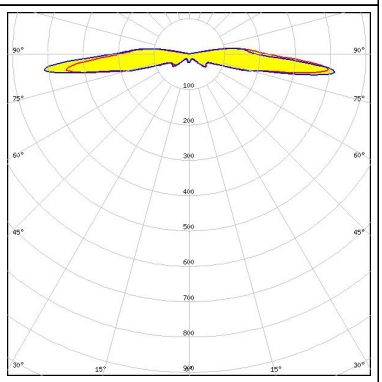




CREE LED

LED	XP-L HI
FWHM / FWTM	184.0° / 210.0°
Efficiency	87 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

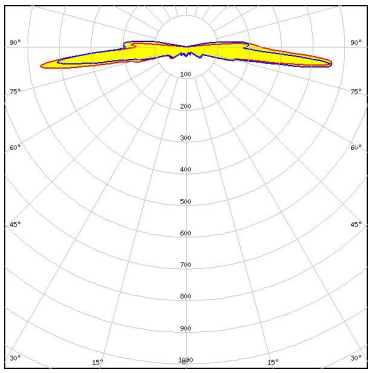


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PHOTOMETRIC DATA (MEASURED):

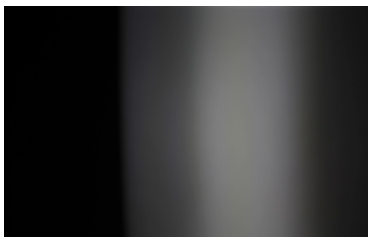
CREE LED

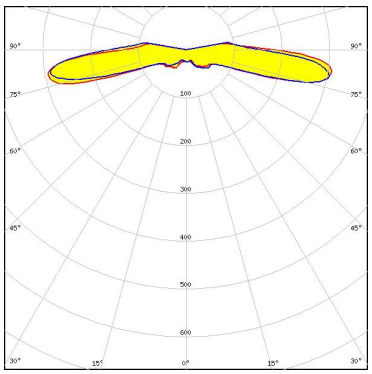
LED	XQ-E HI
FWHM / FWTM	176.0° / 195.0°
Efficiency	87 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

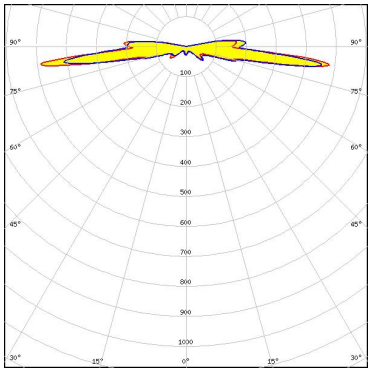
LED	LUXEON 5050 Round LES
FWHM / FWTM	180.0° / 200.0°
Efficiency	87 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





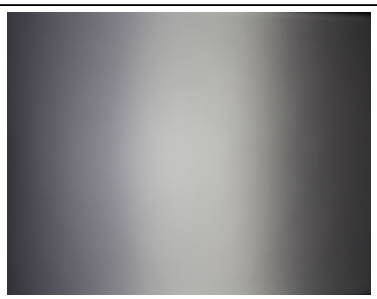
LUMILEDS

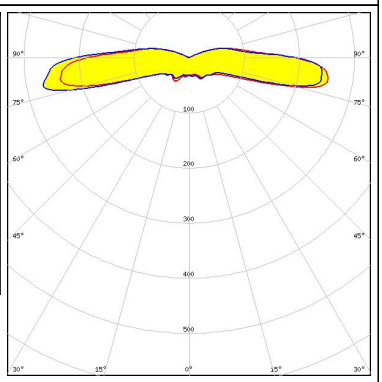
LED	LUXEON CZ
FWHM / FWTM	173.0° / 200.0°
Efficiency	90 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON M/MX
FWHM / FWTM	189.0° / 225.0°
Efficiency	91 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





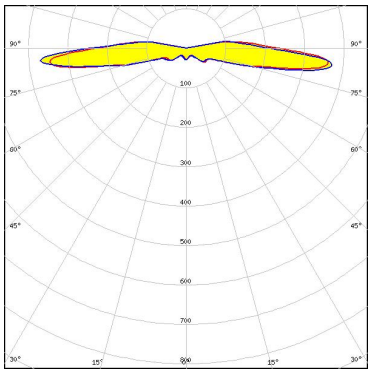
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PHOTOMETRIC DATA (MEASURED):

LUMILEDS

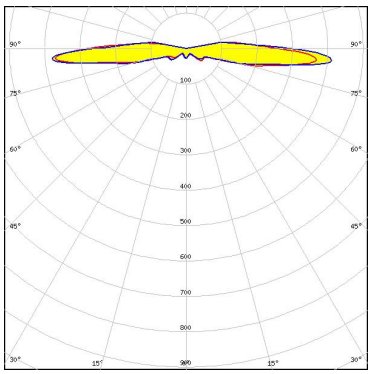
LED	LUXEON TX
FWHM / FWTM	185.0° / 201.0°
Efficiency	88 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





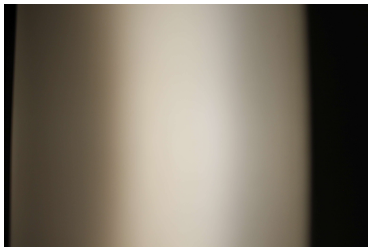
NICHIA

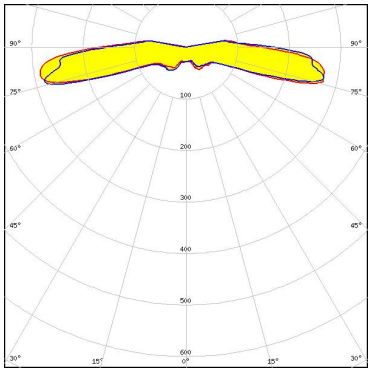
LED	NVSW219F
FWHM / FWTM	185.0° / 201.0°
Efficiency	89 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

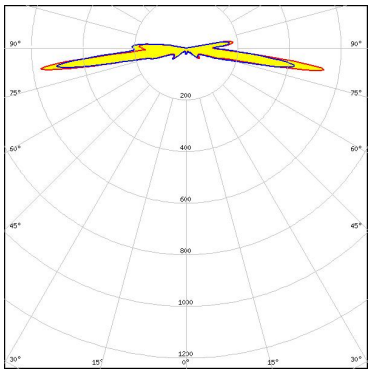
LED	Duris S8
FWHM / FWTM	182.0° / 201.0°
Efficiency	87 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





OSRAM
Opto Semiconductors

LED	OSLON Black Flat
FWHM / FWTM	170.0° / 210.0°
Efficiency	89 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



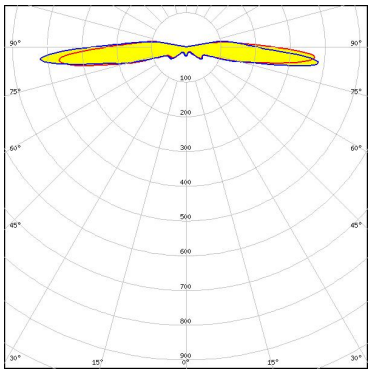
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PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	186.0° / 220.0°
Efficiency	88 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

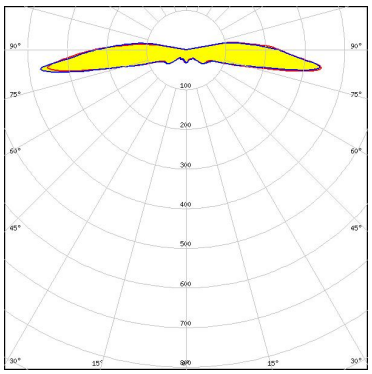
Required components:



OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	189.0° / 201.0°
Efficiency	88 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

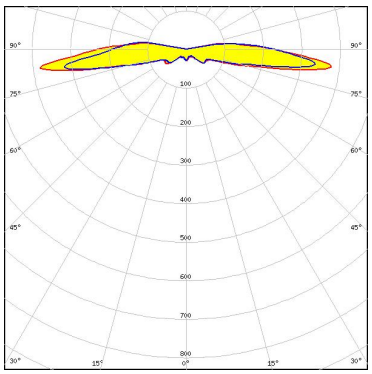
Required components:



OSRAM
Opto Semiconductors

LED	OSLON Square PC
FWHM / FWTM	187.0° / 200.0°
Efficiency	88 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

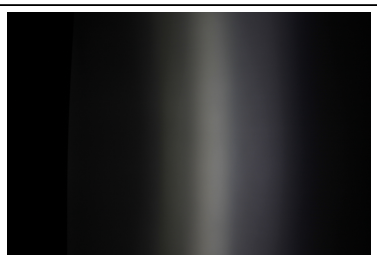
Required components:

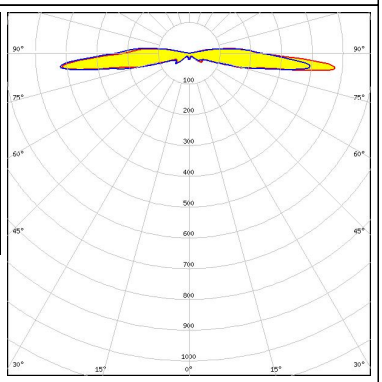


OSRAM
Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	182.0° / 200.0°
Efficiency	89 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:





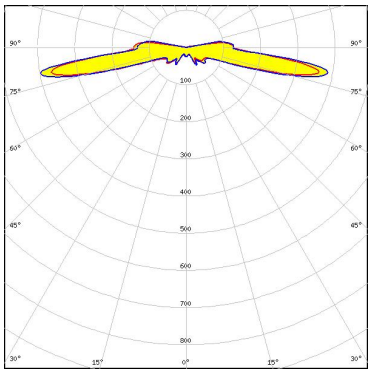
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PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	LH181A
FWHM / FWTM	170.0° / 210.0°
Efficiency	91 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

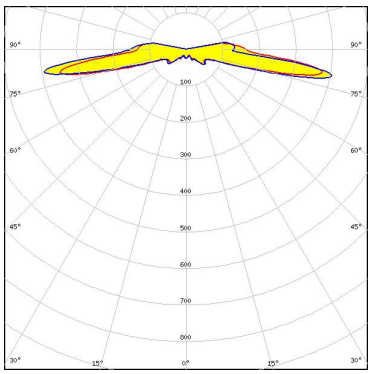
Required components:



SAMSUNG

LED	LH181B
FWHM / FWTM	171.0° / 201.0°
Efficiency	88 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

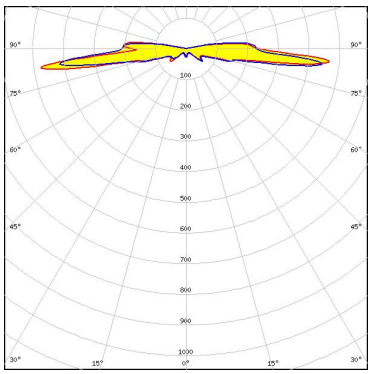
Required components:



SEOUL SEMICONDUCTOR

LED	nPola
FWHM / FWTM	181.0° / 200.0°
Efficiency	89 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

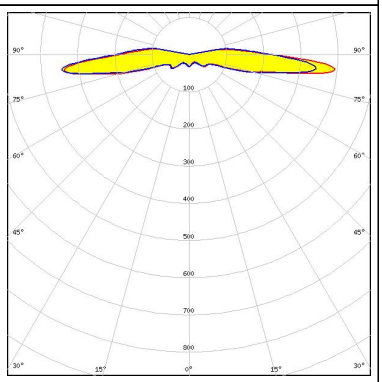
Required components:



SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	184.0° / 201.0°
Efficiency	89 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

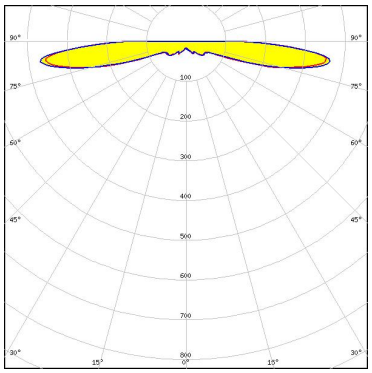


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PHOTOMETRIC DATA (SIMULATED):

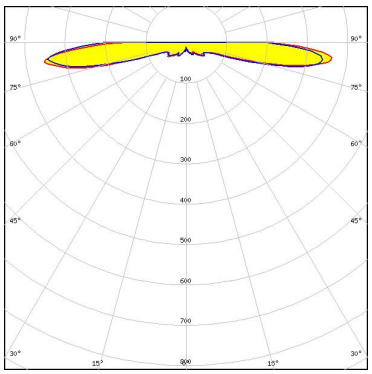
CREE LED

LED	J Series 5050 Round LES
FWHM / FWTM	178.0° / 182.0°
Efficiency	81 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



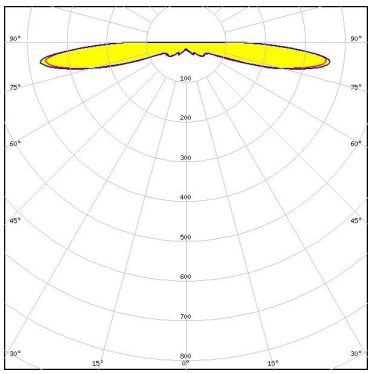
CREE LED

LED	J Series 5050 Square LES 30V
FWHM / FWTM	180.0° / 182.0°
Efficiency	75 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



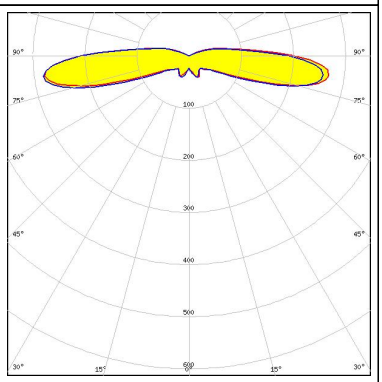
CREE LED

LED	J Series 5050 Square LES 6V
FWHM / FWTM	178.0° / 182.0°
Efficiency	81 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LED

LED	XD16
FWHM / FWTM	188.0° / 223.0°
Efficiency	94 %
Peak intensity	0.3 cd/lm
LEDs/each optic	7
Light colour	White
Required components:	

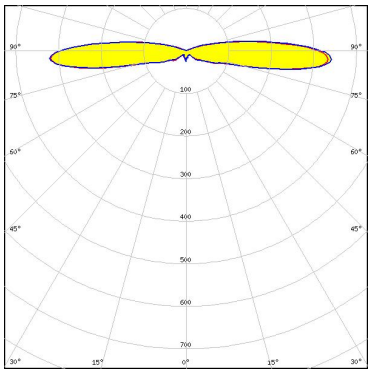


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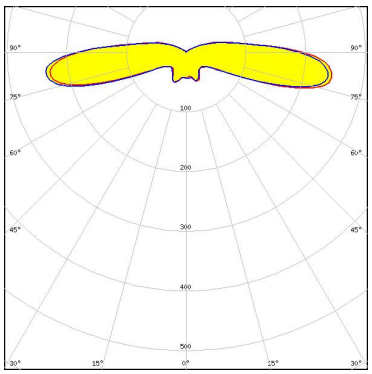
CREE LED

LED	XHP35 HD
FWHM / FWTM	194.0° / 216.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



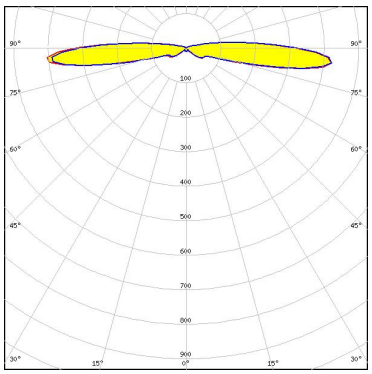
CREE LED

LED	XHP70
FWHM / FWTM	190.0° / 232.0°
Efficiency	94 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



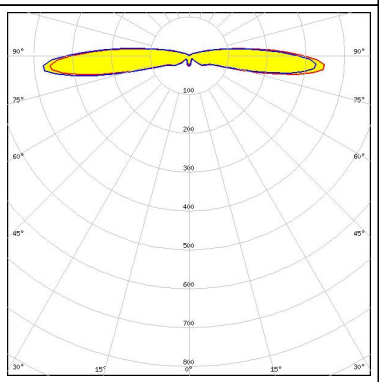
CREE LED

LED	XP-E2
FWHM / FWTM	188.0° / 206.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



CREE LED

LED	XP-G2 HE
FWHM / FWTM	191.0° / 212.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

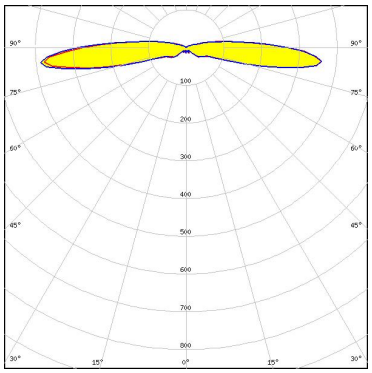


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PHOTOMETRIC DATA (SIMULATED):

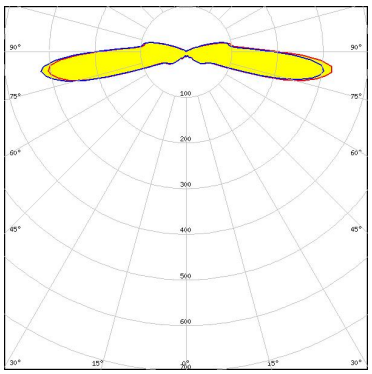
CREE LED

LED	XP-G3
FWHM / FWTM	186.0° / 211.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



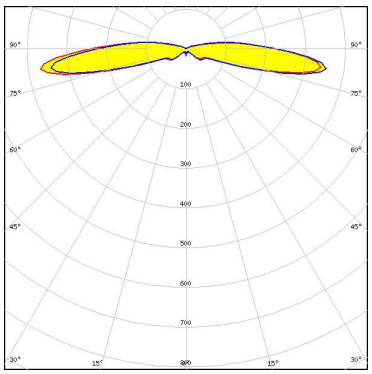
CREE LED

LED	XQ-E HI
FWHM / FWTM	183.0° / 221.0°
Efficiency	94 %
Peak intensity	0.3 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	



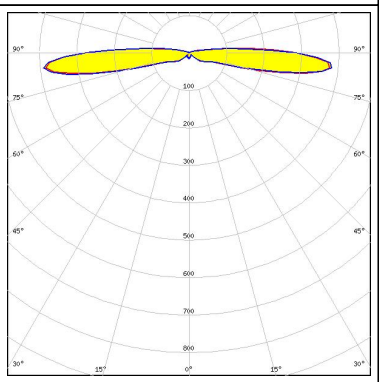
CREE LED

LED	XT-E
FWHM / FWTM	184.0° / 212.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON C
FWHM / FWTM	184.0° / 204.0°
Efficiency	91 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



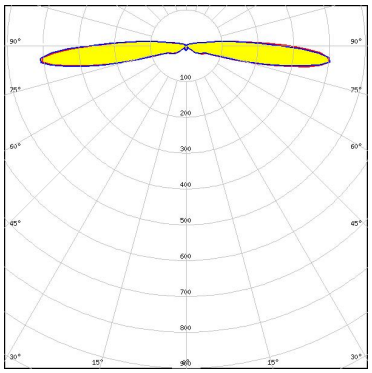
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PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

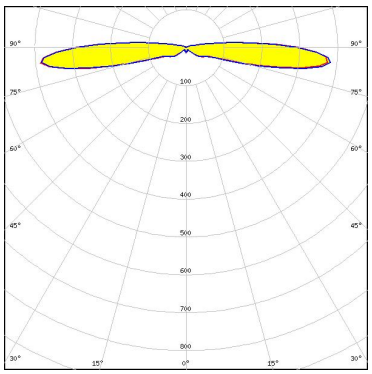
LED	LUXEON C
FWHM / FWTM	183.0° / 201.0°
Efficiency	92 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	Green
Required components:	





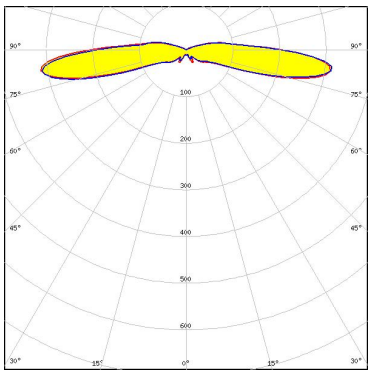
LUMILEDS

LED	LUXEON C
FWHM / FWTM	188.0° / 204.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



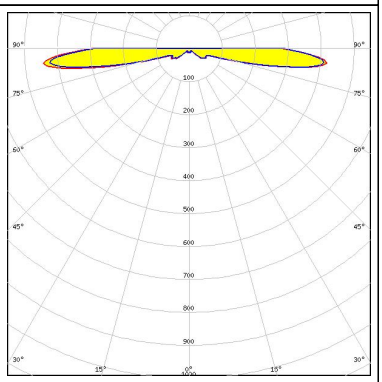
LUMILEDS

LED	LUXEON IR Compact
FWHM / FWTM	183.4° / 217.0°
Efficiency	94 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON Rebel
FWHM / FWTM	180.0° / 182.0°
Efficiency	75 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	

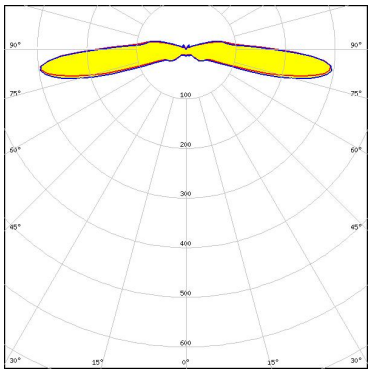


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PHOTOMETRIC DATA (SIMULATED):

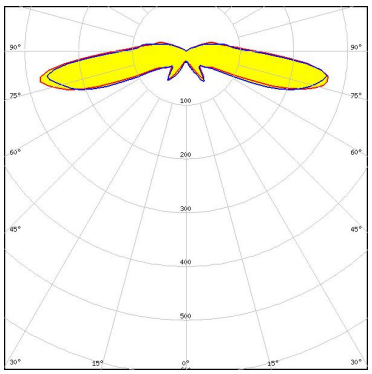
LUMILEDS

LED	LUXEON Z
FWHM / FWTM	183.4° / 218.0°
Efficiency	89 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



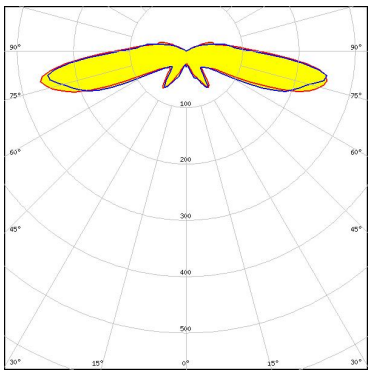
NICHIA

LED	NCSxE17A
FWHM / FWTM	179.0° / 228.0°
Efficiency	96 %
Peak intensity	0.3 cd/lm
LEDs/each optic	7
Light colour	White
Required components:	



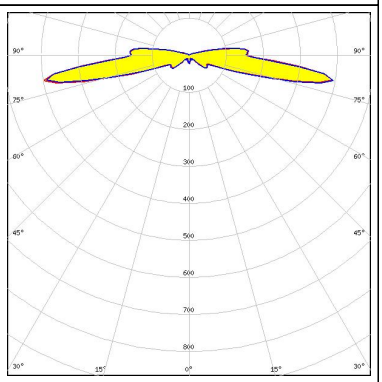
NICHIA

LED	NCSxE17A
FWHM / FWTM	180.0° / 226.0°
Efficiency	96 %
Peak intensity	0.3 cd/lm
LEDs/each optic	7
Light colour	White
Required components:	



NICHIA

LED	NCSxE17A
FWHM / FWTM	173.0° / 208.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

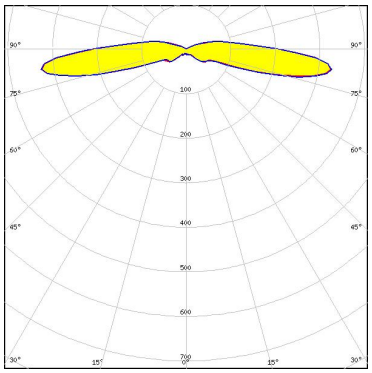


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PHOTOMETRIC DATA (SIMULATED):

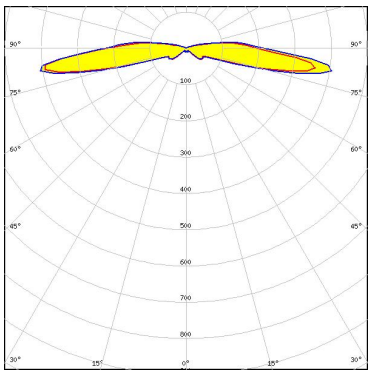
NICHIA

LED	NV4WB35AM
FWHM / FWTM	184.0° / 220.0°
Efficiency	95 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



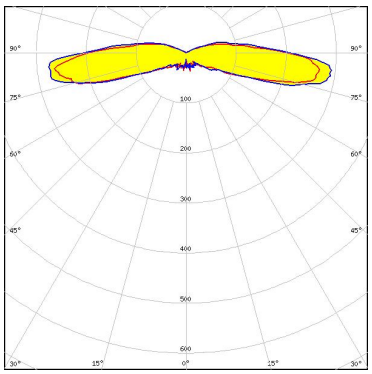
OSRAM
Opto Semiconductors

LED	OSCONIQ P 3030
FWHM / FWTM	181.0° / 208.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



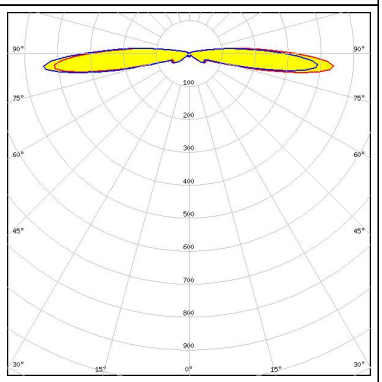
OSRAM
Opto Semiconductors

LED	OSCONIQ P 7070
FWHM / FWTM	192.0° / 226.0°
Efficiency	95 %
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	OSLON Signal
FWHM / FWTM	186.0° / 203.0°
Efficiency	95 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	

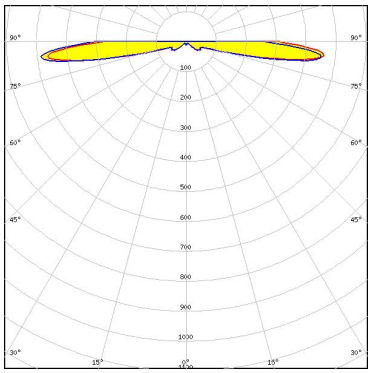


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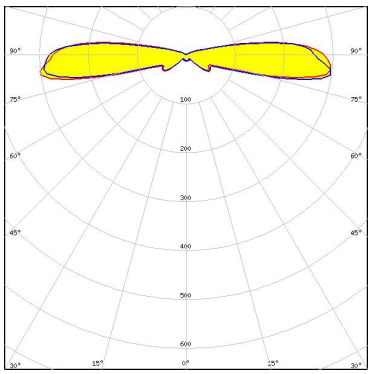
OSRAM Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	180.0° / 182.0°
Efficiency	78 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



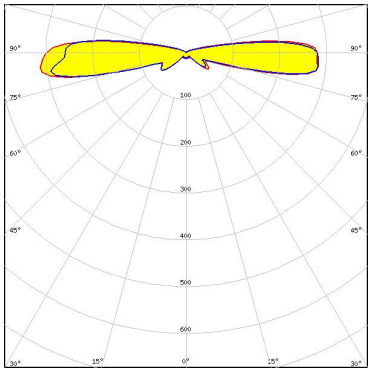
OSRAM Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	198.0° / 216.0°
Efficiency	94 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	Blue
Required components:	



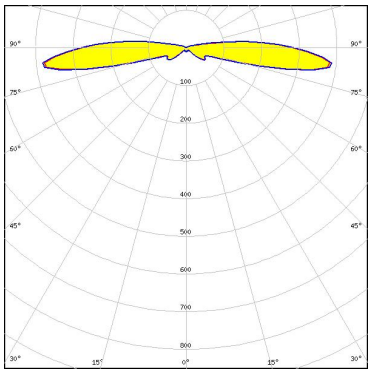
OSRAM Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	197.0° / 215.0°
Efficiency	96 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



OSRAM Opto Semiconductors

LED	OSTAR Projection Compact (Kx.CSLNM1.xx)
FWHM / FWTM	188.0° / 208.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	

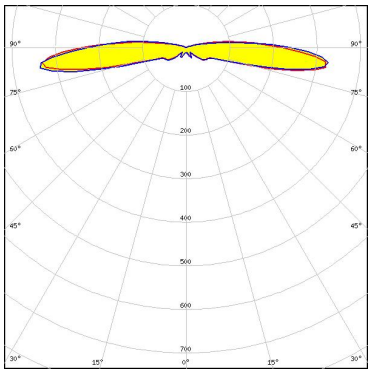


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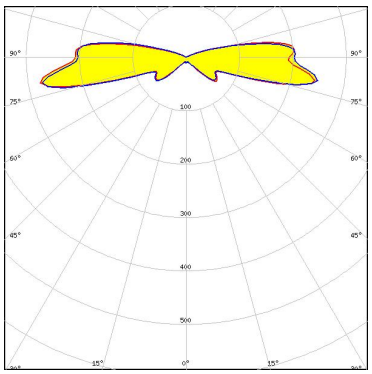
OSRAM Opto Semiconductors

LED	SFH 4170S
FWHM / FWTM	188.0° / 208.0°
Efficiency	87 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	IR
Required components:	



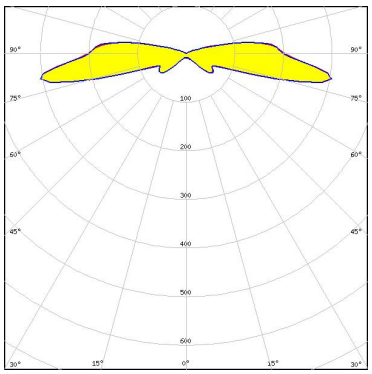
OSRAM Opto Semiconductors

LED	SFH 4715AS
FWHM / FWTM	202.0° / 221.0°
Efficiency	95 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	IR
Required components:	



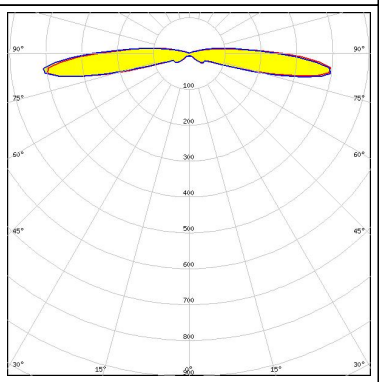
OSRAM Opto Semiconductors

LED	SFH 4715S
FWHM / FWTM	196.0° / 216.0°
Efficiency	95 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	IR
Required components:	



OSRAM Opto Semiconductors

LED	SFH 4716AS
FWHM / FWTM	184.0° / 207.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	IR
Required components:	

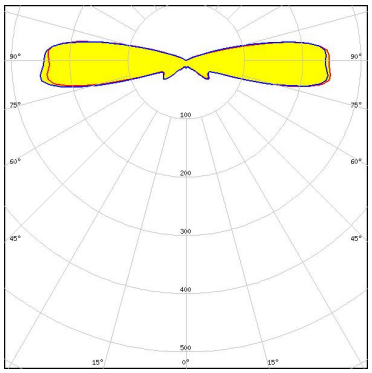


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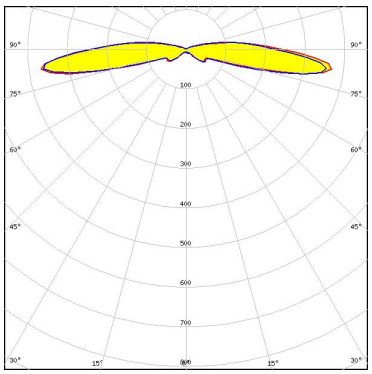
OSRAM
Opto Semiconductors

LED	SFH 4717AS
FWHM / FWTM	207.0° / 224.0°
Efficiency	95 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	IR
Required components:	



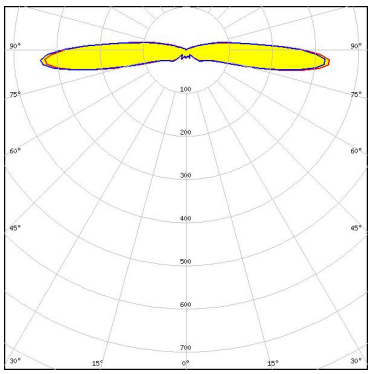
OSRAM
Opto Semiconductors

LED	SFH 4770S
FWHM / FWTM	185.0° / 212.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	IR
Required components:	



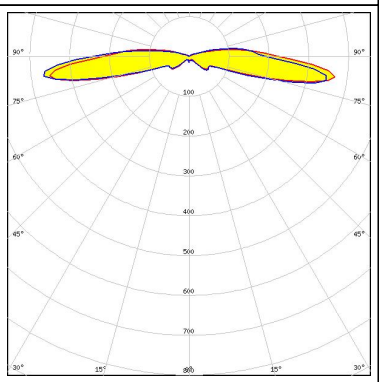
SAMSUNG

LED	LH351D
FWHM / FWTM	190.0° / 216.0°
Efficiency	94 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	MJT 3030
FWHM / FWTM	184.0° / 212.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

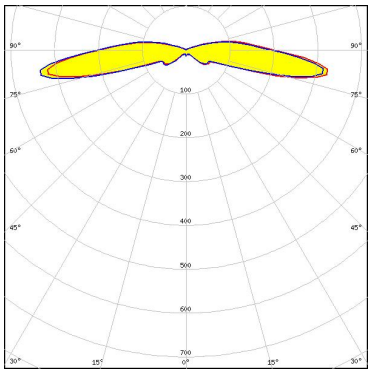


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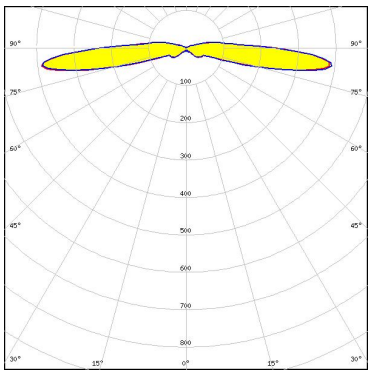
SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	184.0° / 216.0°
Efficiency	95 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	181.4° / 210.6°
Efficiency	94 %
Peak intensity	0.4 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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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