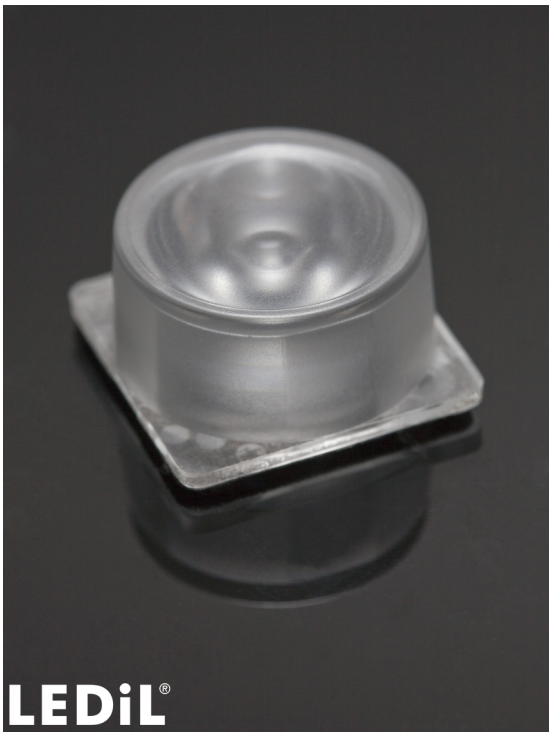
VERONICA-SQ-M

~30° medium beam



TECHNICAL SPECIFICATIONS:

Dimensions	22.5 x 22.5 mm
Height	11.8 mm
Fastening	tape, pin
ROHS compliant	yes

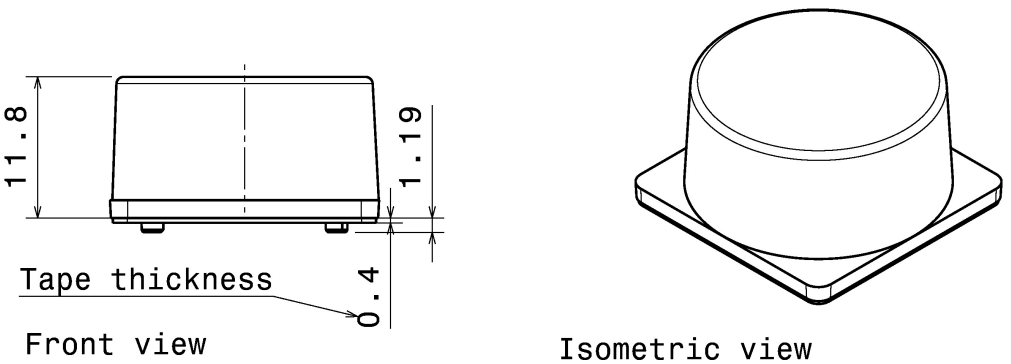
MATERIAL SPECIFICATIONS:

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

ORDERING INFORMATION:

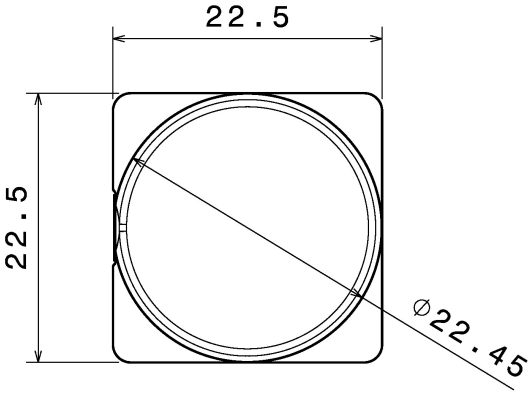
Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA14461_VERONICA-SQ-M » Box size: 476 x 273 x 197 mm	Single lens	1980	360	180	8.2

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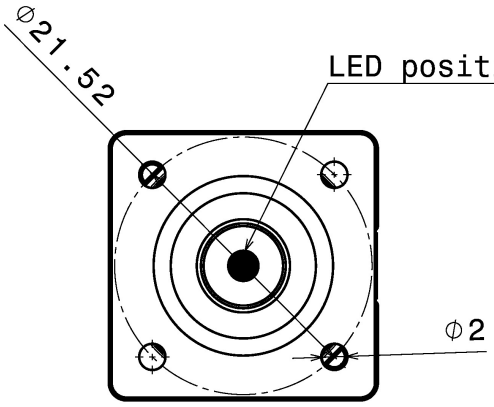


Front view

Isometric view



Top view



Bottom view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C14448	VERONICA-SQ-M	PMMA	clear
2	C13729	VERONICA-SQ-TAPE	Acrylic foam	black

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures: class C
According to DIN ISO 2768-2
Form and position: class L

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
CA14461_VERONICA-SQ-M

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SIZE A4
PART NUMBER CA14461
SCALE 2:1
WEIGHT 3,64 g
SHEET 1/1

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

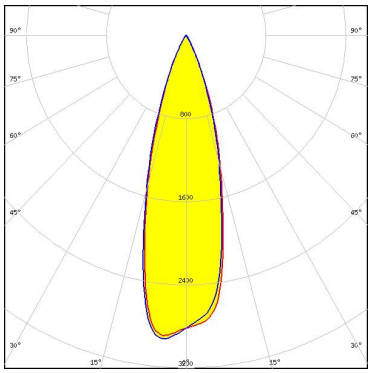
PHOTOMETRIC DATA (MEASURED):

CREE LED

LED	XB-H
FWHM / FWTM	29.0° / 52.0°
Efficiency	91 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:





CREE LED

LED	XHP35 HD
FWHM / FWTM	40.0° / 64.0°
Efficiency	88 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



CREE LED

LED	XHP35 HI
FWHM / FWTM	33.0° / 54.0°
Efficiency	88 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

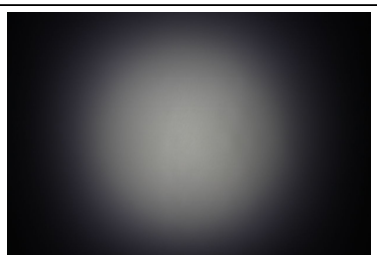
Required components:

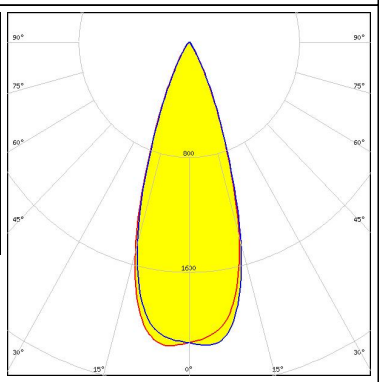


CREE LED

LED	XM-L
FWHM / FWTM	37.0° / 59.0°
Efficiency	92 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



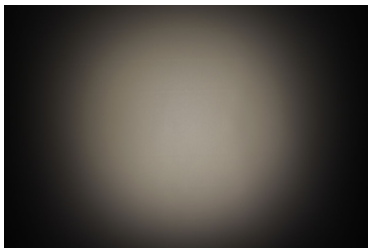


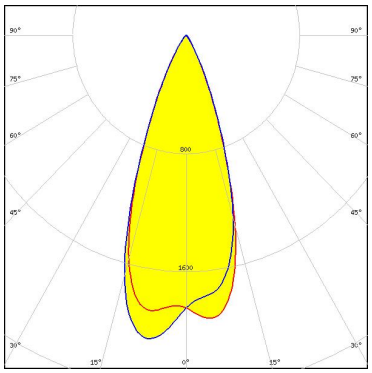
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PHOTOMETRIC DATA (MEASURED):

CREE LED

LED	XM-L2
FWHM / FWTM	38.0° / 60.0°
Efficiency	91 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

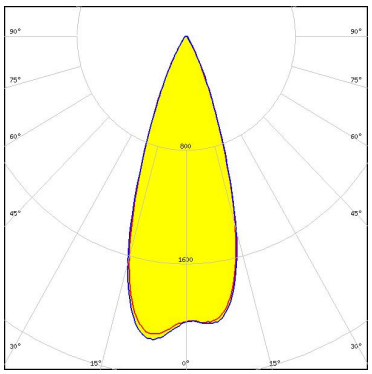




CREE LED

LED	XM-L3
FWHM / FWTM	37.0° / 58.0°
Efficiency	95 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

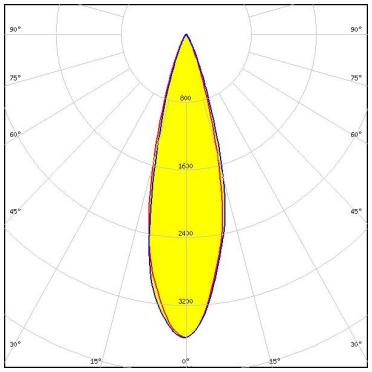




CREE LED

LED	XP-E
FWHM / FWTM	28.0° / 47.0°
Efficiency	93 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

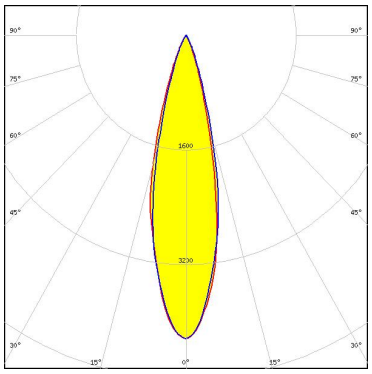




CREE LED

LED	XP-E2
FWHM / FWTM	25.0° / 45.0°
Efficiency	94 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





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PHOTOMETRIC DATA (MEASURED):

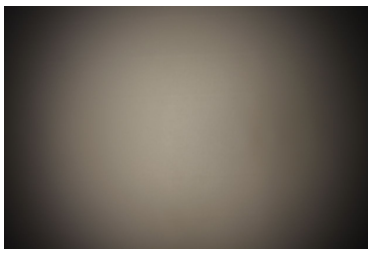
CREE LED

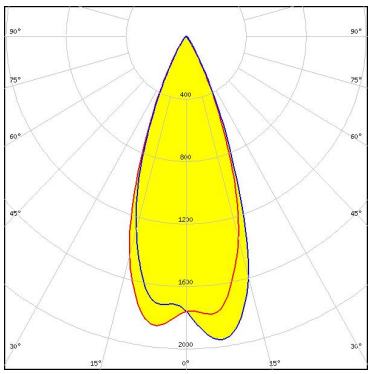
LED	XP-G2
FWHM / FWTM	30.0° / 52.0°
Efficiency	89 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LED

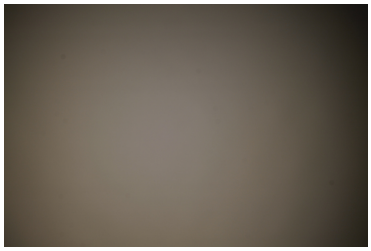
LED	XP-L HD
FWHM / FWTM	40.0° / 61.0°
Efficiency	91 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

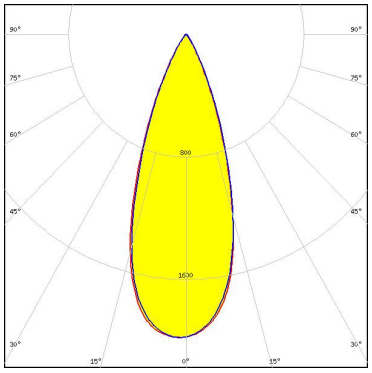




CREE LED

LED	XP-L2
FWHM / FWTM	37.0° / 60.0°
Efficiency	87 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





CREE LED

LED	XT-E
FWHM / FWTM	27.0° / 50.0°
Efficiency	87 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

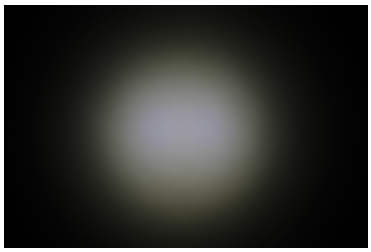


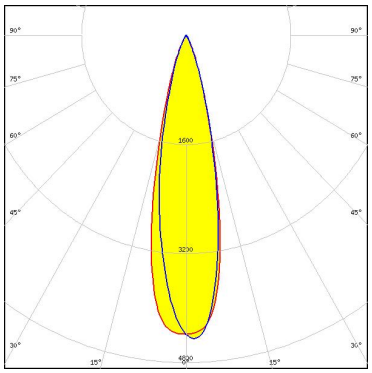
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PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON 3030 2D (Round LES)
FWHM / FWTM	24.0° / 44.0°
Efficiency	94 %
Peak intensity	4.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

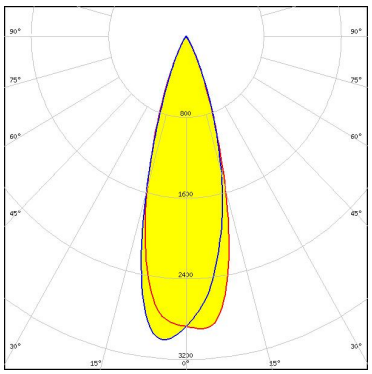




LUMILEDS

LED	LUXEON A
FWHM / FWTM	30.0° / 52.0°
Efficiency	91 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

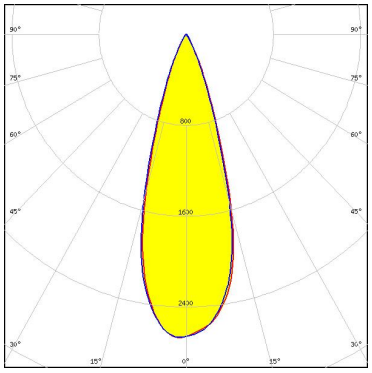




LUMILEDS

LED	LUXEON MZ
FWHM / FWTM	32.0° / 52.0°
Efficiency	93 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

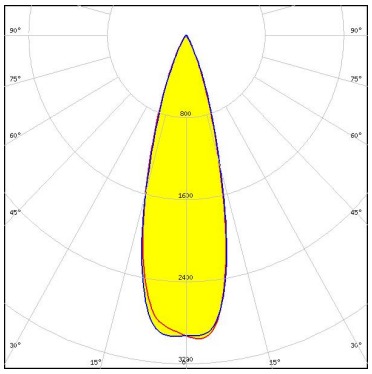




LUMILEDS

LED	LUXEON R
FWHM / FWTM	30.0° / 51.0°
Efficiency	91 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



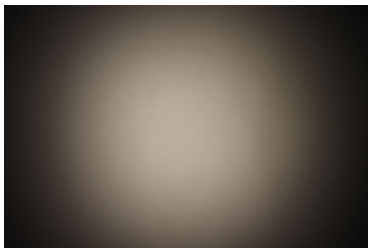


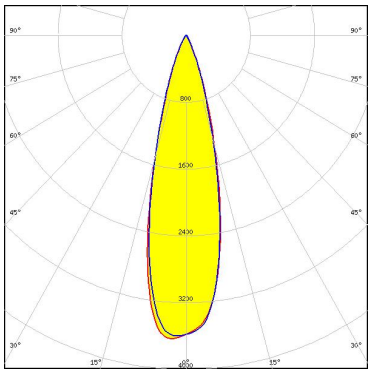
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PHOTOMETRIC DATA (MEASURED):

LUMILEDS

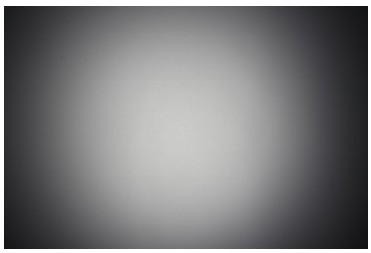
LED	LUXEON Rebel
FWHM / FWTM	26.0° / 47.0°
Efficiency	92 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

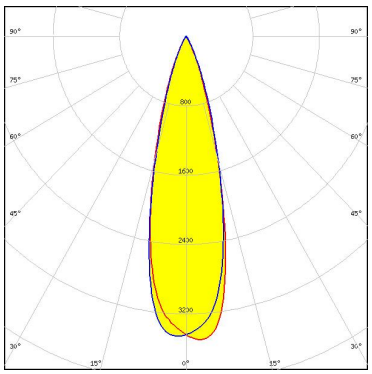




LUMILEDS

LED	LUXEON Rebel ES
FWHM / FWTM	27.0° / 48.0°
Efficiency	91 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

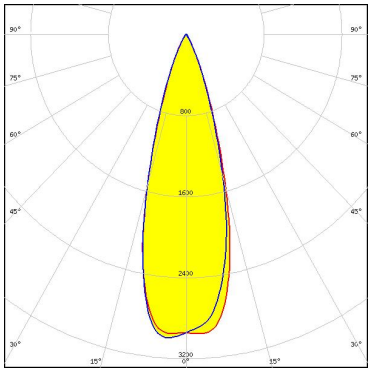




LUMILEDS

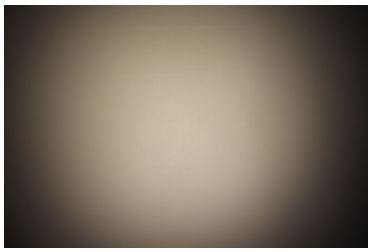
LED	LUXEON T
FWHM / FWTM	30.0° / 51.0°
Efficiency	93 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

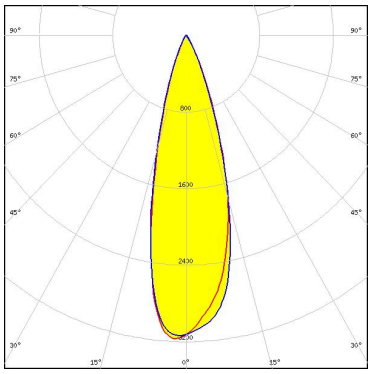




LUMILEDS

LED	LUXEON TX
FWHM / FWTM	30.0° / 50.0°
Efficiency	92 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





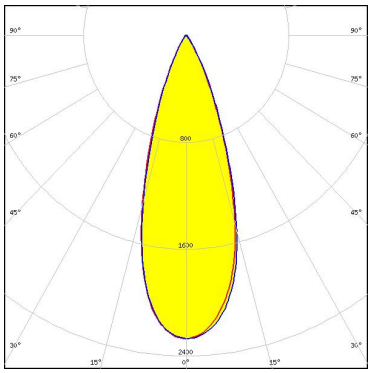
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PHOTOMETRIC DATA (MEASURED):

LUMILEDS

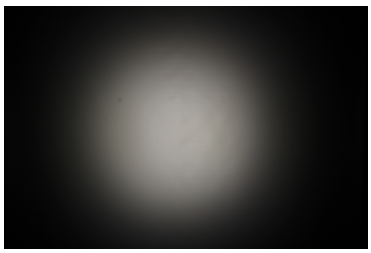
LED	LUXEON V
FWHM / FWTM	35.0° / 58.0°
Efficiency	90 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

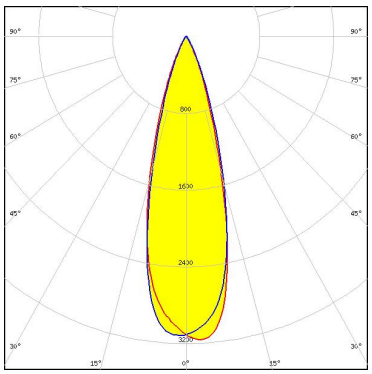




LUMILEDS

LED	LUXEON V2
FWHM / FWTM	29.0° / 51.0°
Efficiency	94 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

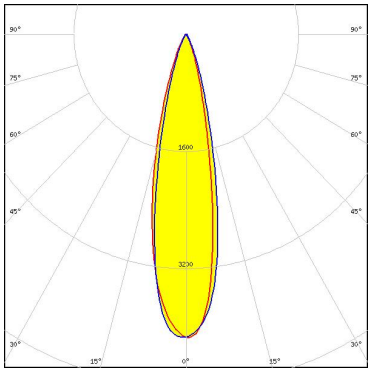




NICHIA

LED	NCSxx19B
FWHM / FWTM	23.0° / 44.0°
Efficiency	92 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

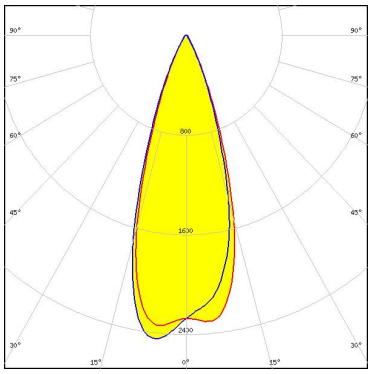




NICHIA

LED	NVSW219F
FWHM / FWTM	35.0° / 56.0°
Efficiency	94 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





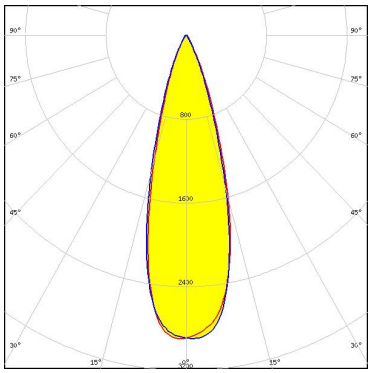
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PHOTOMETRIC DATA (MEASURED):

NICHIA

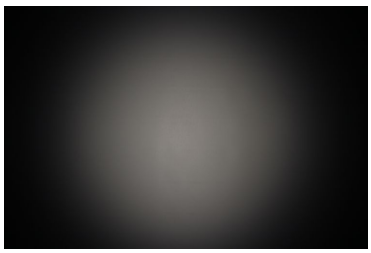
LED	NVSxx19B/NVSxx19C
FWHM / FWTM	30.0° / 51.0°
Efficiency	91 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

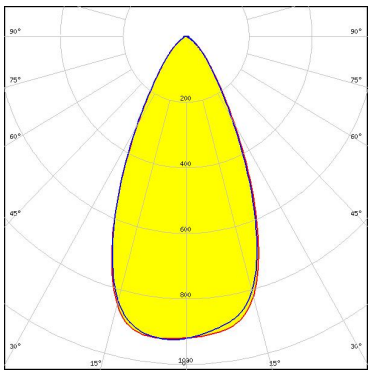




NICHIA

LED	NWSx229A
FWHM / FWTM	39.0° / 59.0°
Efficiency	89 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

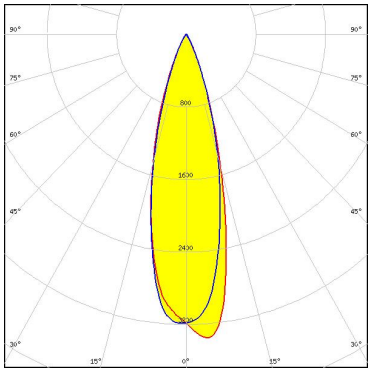




OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	28.0° / 50.0°
Efficiency	91 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

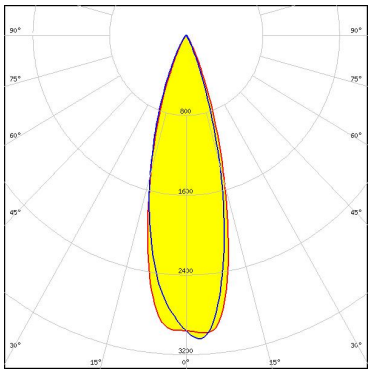




OSRAM
Opto Semiconductors

LED	OSLON Square PC
FWHM / FWTM	29.0° / 51.0°
Efficiency	91 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





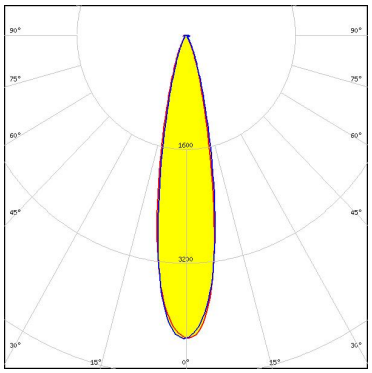
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PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	LH181A
FWHM / FWTM	21.0° / 42.0°
Efficiency	94 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

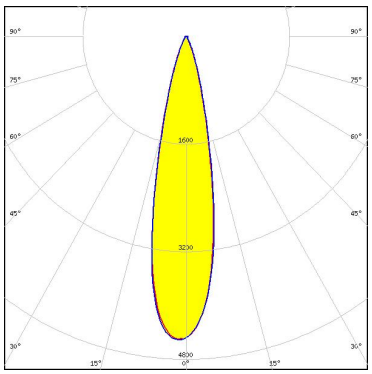




SAMSUNG

LED	LH181B
FWHM / FWTM	23.0° / 42.0°
Efficiency	94 %
Peak intensity	4.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

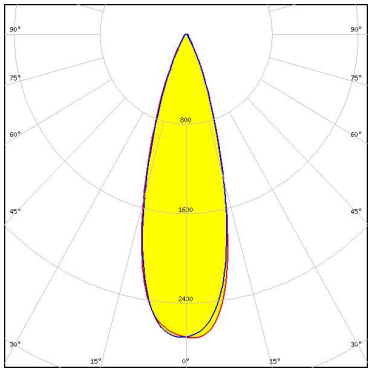




SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	31.0° / 54.0°
Efficiency	94 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

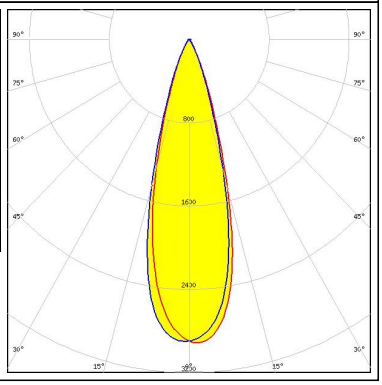




SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	29.0° / 50.0°
Efficiency	88 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





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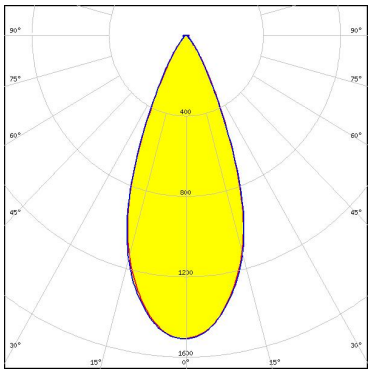
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z8Y50P
FWHM / FWTM	42.0° / 67.0°
Efficiency	88 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



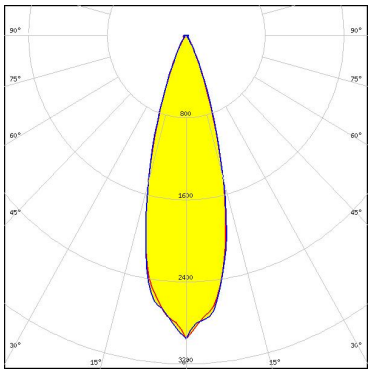


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PHOTOMETRIC DATA (SIMULATED):

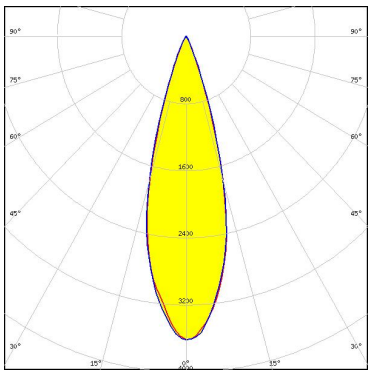
CREE LED

LED	XHP35.2 HD
FWHM / FWTM	30.0° / 52.0°
Efficiency	95 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



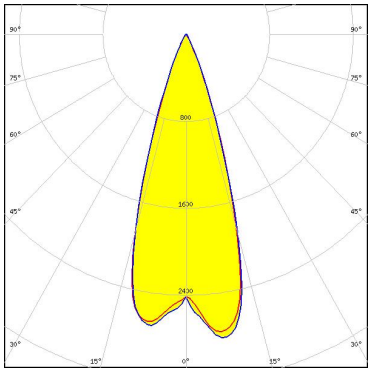
LUMILEDS

LED	LUXEON C
FWHM / FWTM	29.0° / 47.0°
Efficiency	94 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



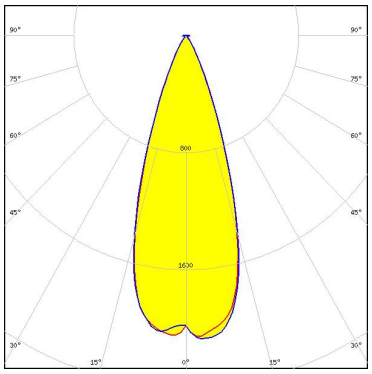
LUMINUS

LED	SFT-40-WCS
FWHM / FWTM	34.0° / 50.0°
Efficiency	97 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

LED	NCSxE17A
FWHM / FWTM	36.0° / 56.0°
Efficiency	93 %
Peak intensity	2.1 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	

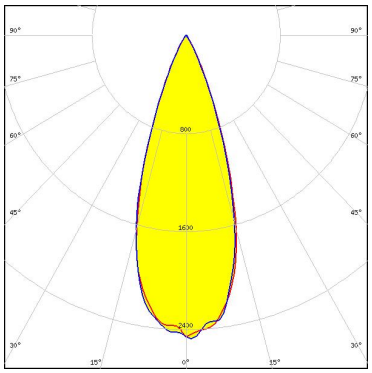


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PHOTOMETRIC DATA (SIMULATED):

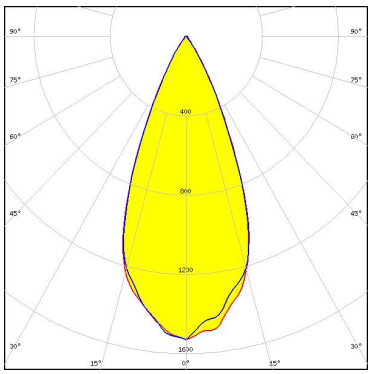
NICHIA

LED	NV4WB35AM
FWHM / FWTM	36.0° / 56.0°
Efficiency	96 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



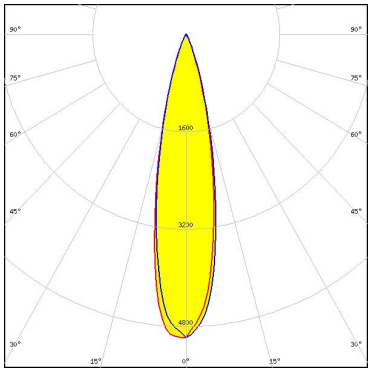
OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	44.0° / 66.0°
Efficiency	97 %
Peak intensity	1.5 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	



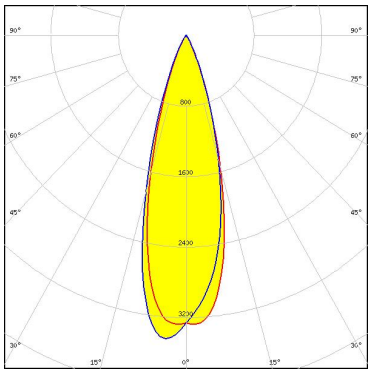
OSRAM
Opto Semiconductors

LED	OSCONIQ P 3030
FWHM / FWTM	23.0° / 42.0°
Efficiency	96 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

LED	LM28xB Series
FWHM / FWTM	29.0° / 50.0°
Efficiency	94 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

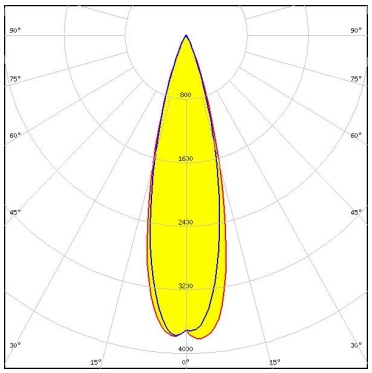


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PHOTOMETRIC DATA (SIMULATED):

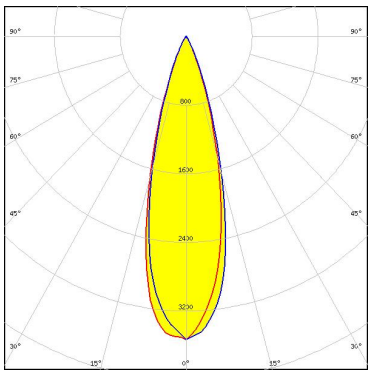
SEOUL SEMICONDUCTOR

LED	MJT 3030
FWHM / FWTM	27.0° / 46.0°
Efficiency	96 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



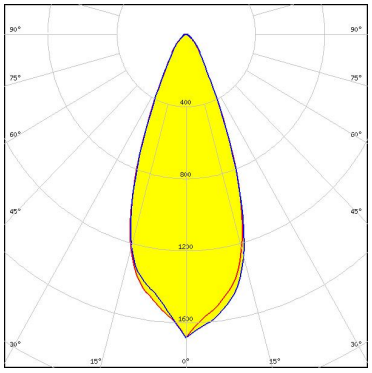
SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	29.0° / 49.0°
Efficiency	96 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	Z8Y22T
FWHM / FWTM	28.0° / 47.0°
Efficiency	94 %
Peak intensity	3.8 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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