STRADELLA-16-HB-S

~25° spot beam for industrial applications



SPECIFICATION:

Dimensions	49.5 x 49.5
Height	7.5 mm
Fastening	pin, screw
ROHS compliant	yes

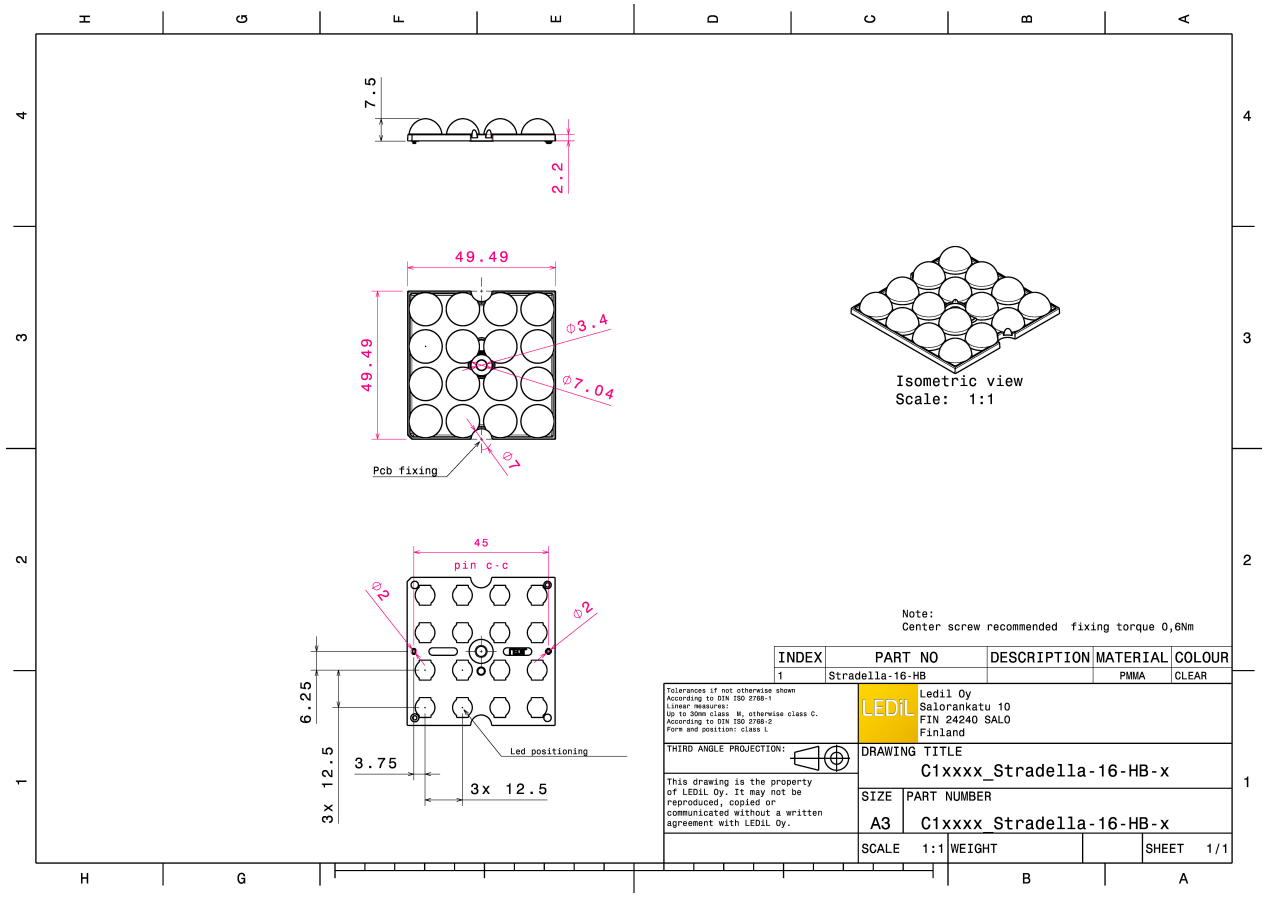
MATERIALS:

Component	Type	Material	Colour	Finish	Length
STRADELLA-16-HB-S	Multi-lens	PMMA	clear		49.5

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C15430_STRADELLA-16-HB-S » Box size: 480 x 280 x 300 mm	800	160	160	6.1

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

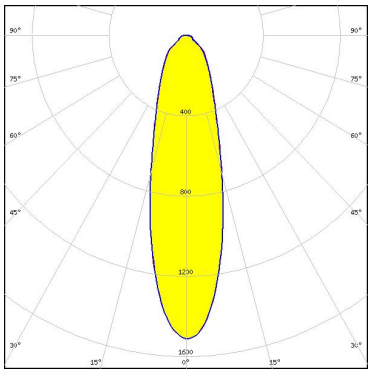
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	J Series 3030
FWHM / FWTM	29.0° / 86.0°
Efficiency	91 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



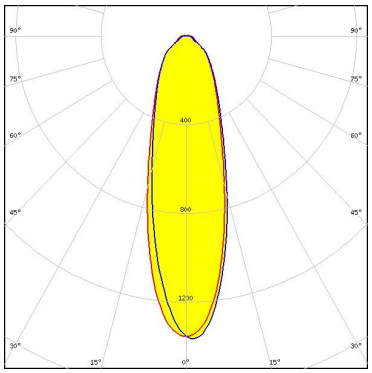


Light distribution files

ELECTRIO

LED	EHP-223.5x50-1604-xx-70-LS30-06-NTC
FWHM / FWTM	30.0° / 95.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

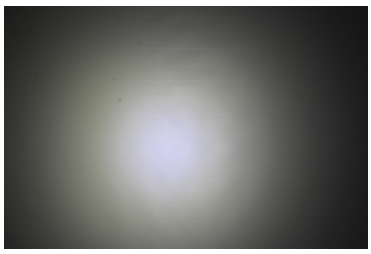


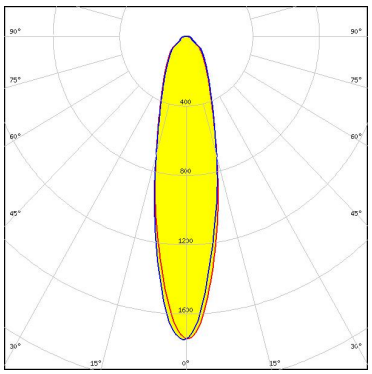


Light distribution files

NICHIA

LED	NFSx757D
FWHM / FWTM	25.0° / 78.0°
Efficiency	90 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

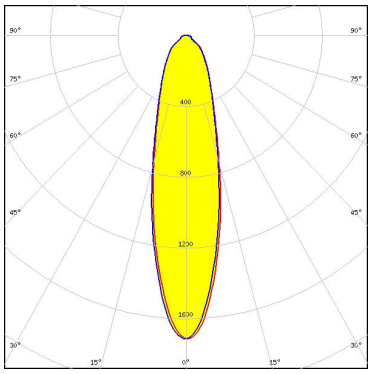
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OPTICAL RESULTS (MEASURED):

NICHIA

LED	NFSx757G
FWHM / FWTM	27.0° / 80.0°
Efficiency	93 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



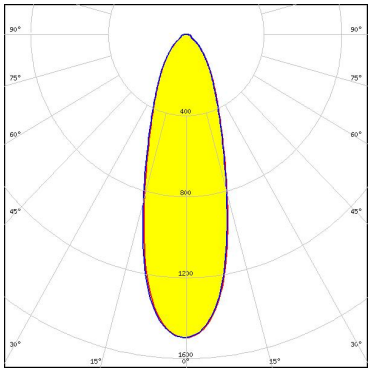


Light distribution files

NICHIA

LED	NVSW219D
FWHM / FWTM	32.0° / 83.0°
Efficiency	93 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



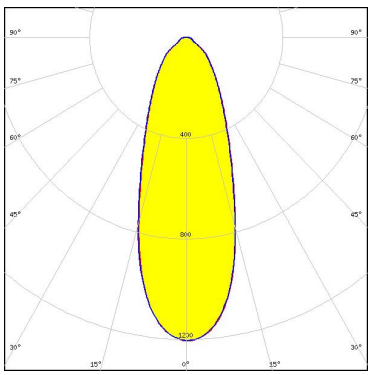


Light distribution files

NICHIA

LED	NVSW319B
FWHM / FWTM	37.0° / 97.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

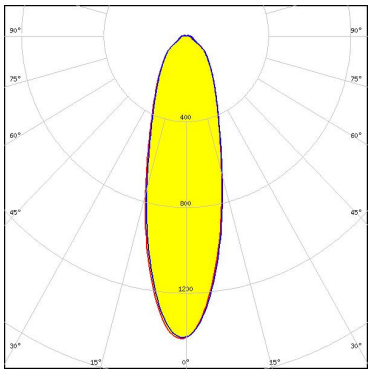
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OPTICAL RESULTS (MEASURED):

OSRAM

LED	PrevaLED Brick MP 4x16
FWHM / FWTM	30.0° / 92.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

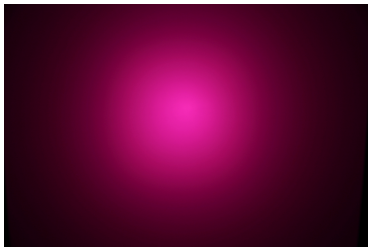


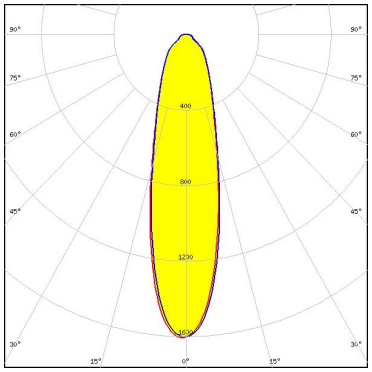


Light distribution files

OSRAM
Opto Semiconductors

LED	Duris S5 (2 chip)
FWHM / FWTM	27.0° / 83.0°
Efficiency	92 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	Purple
Required components:	



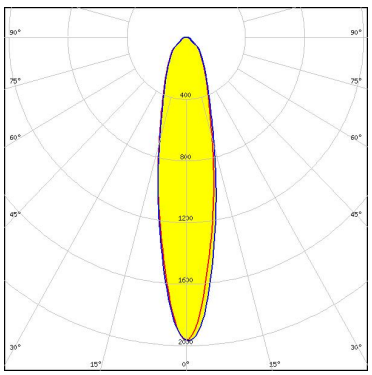


Light distribution files

OSRAM
Opto Semiconductors

LED	Duris S5 (Single chip)
FWHM / FWTM	23.0° / 72.0°
Efficiency	90 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

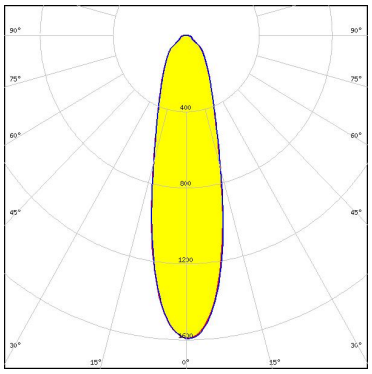
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OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSCONIQ S 3030 (QSLR31)
FWHM / FWTM	28.0° / 82.0°
Efficiency	91 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

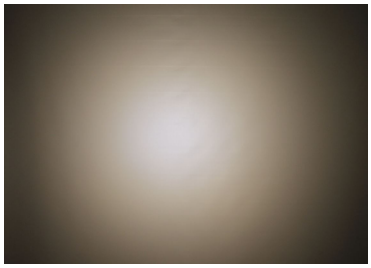


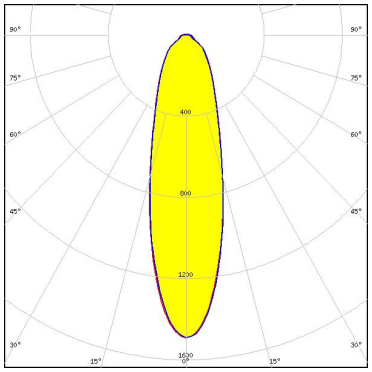


Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 4x16 DHE G4
FWHM / FWTM	29.0° / 88.0°
Efficiency	92 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

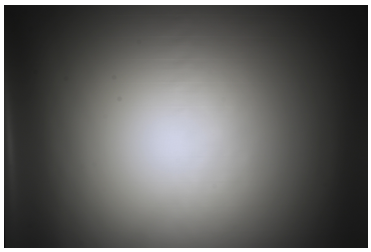


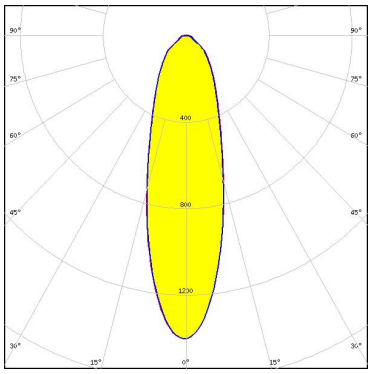


Light distribution files

SAMSUNG

LED	HiLOM RM64 (LM301B)
FWHM / FWTM	30.0° / 92.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

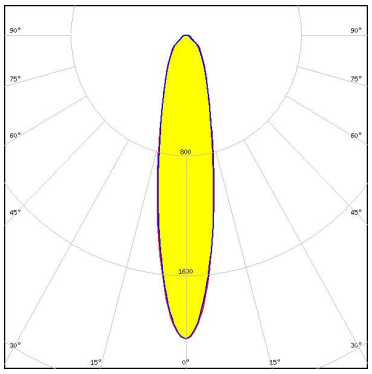
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OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LM231 A/B
FWHM / FWTM	22.0° / 70.0°
Efficiency	91 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



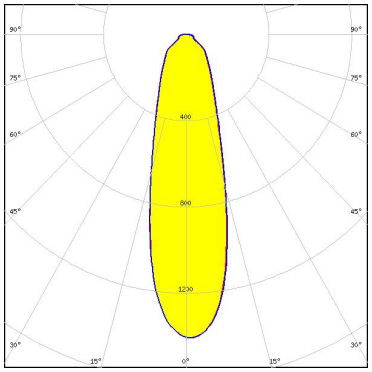


Light distribution files

SCIOLUX

LED	XLE-S44XTEHE (XT-E HE)
FWHM / FWTM	29.0° / 89.0°
Efficiency	92 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



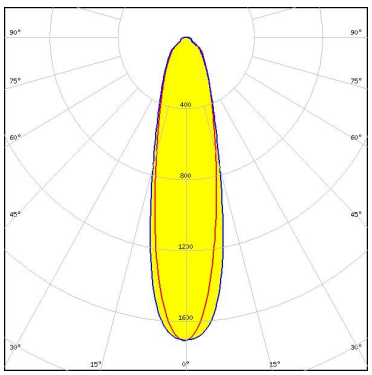


Light distribution files

SEOUL SEMICONDUCTOR

LED	SEOUL 3030
FWHM / FWTM	26.0° / 78.0°
Efficiency	90 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

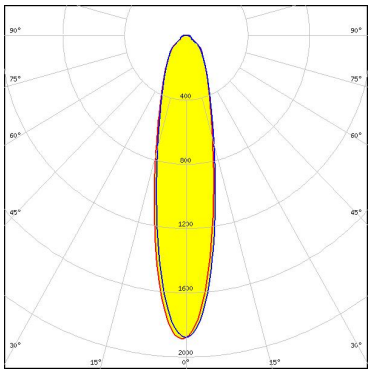
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OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	SEOUL DC 3030
FWHM / FWTM	24.0° / 75.0°
Efficiency	94 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



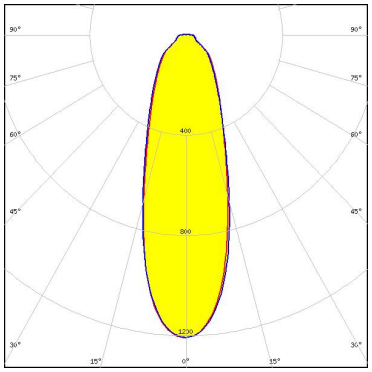


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	33.0° / 100.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



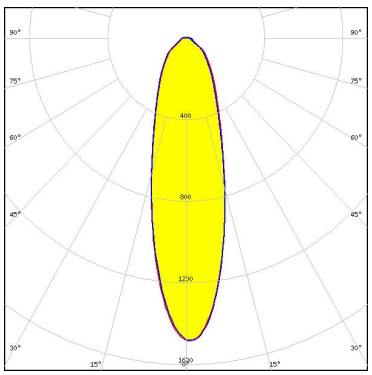


Light distribution files

TRIDONIC

LED	RLE 4x16 4000lm MP ADV2 OTD
FWHM / FWTM	29.0° / 89.0°
Efficiency	93 %
Peak intensity	1.5 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 4x8 2000lm MP ADV2 OTD
FWHM / FWTM	29.0° / 89.0°
Efficiency	93 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

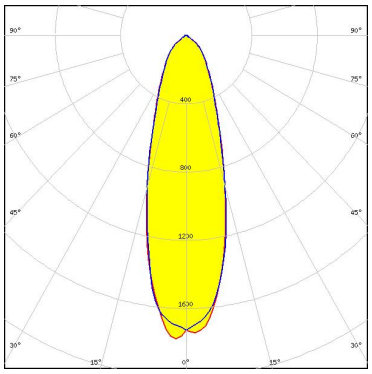
Light distribution files

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OPTICAL RESULTS (SIMULATED):

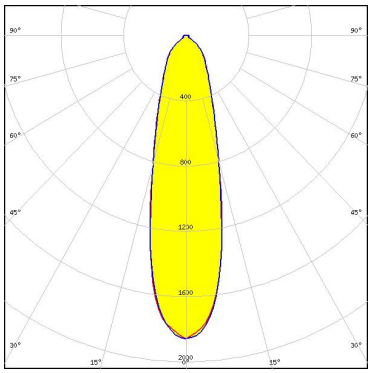
bridgelux

LED	Bridgelux SMD 2835
FWHM / FWTM	31.0° / 81.0°
Efficiency	94 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



bridgelux

LED	CSP 2727 (BXCP)
FWHM / FWTM	28.0° / 80.0 + 78.0°
Efficiency	93 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

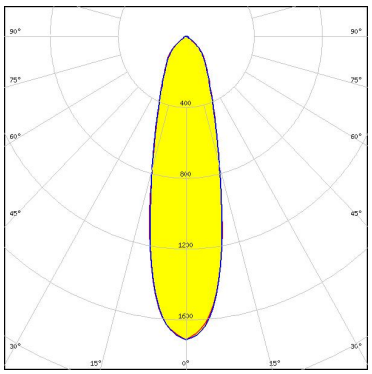


Light distribution files

bridgelux

LED	CSP 2727 (BXCP)
FWHM / FWTM	28.0° / 80.0 + 78.0°
Efficiency	84 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



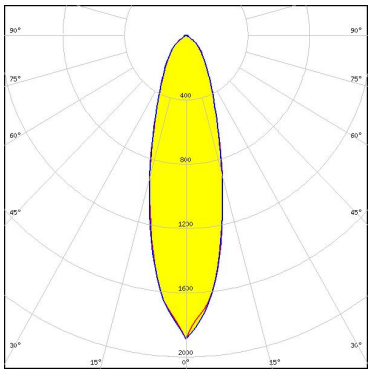
Light distribution files

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OPTICAL RESULTS (SIMULATED):

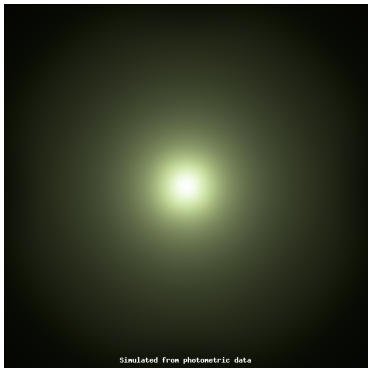
CREE LEDs

LED	J Series 2835
FWHM / FWTM	28.0° / 77.0°
Efficiency	93 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



CREE LEDs

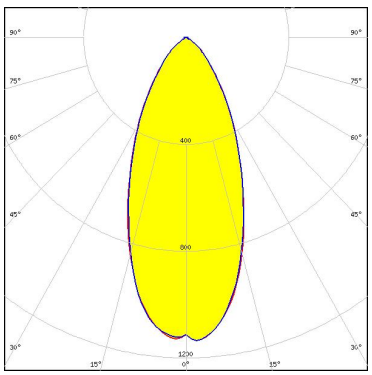
LED	J Series 3030C
FWHM / FWTM	30.0° / 80.0°
Efficiency	94 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-G2 HE
FWHM / FWTM	46.0° / 90.0°
Efficiency	90 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



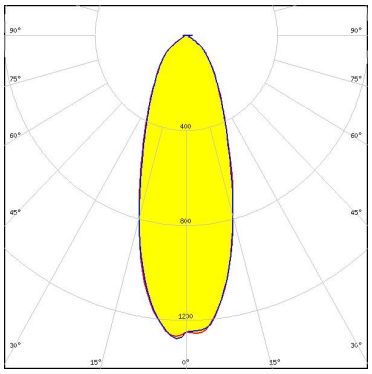
Light distribution files

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OPTICAL RESULTS (SIMULATED):

CREE LEDs

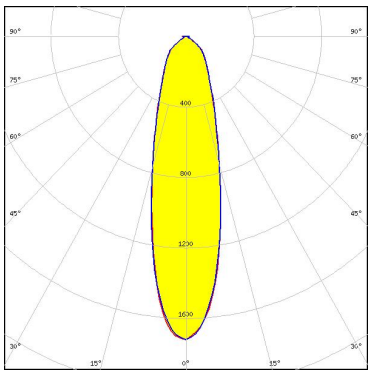
LED	XP-G3
FWHM / FWTM	37.0° / 95.0°
Efficiency	91 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

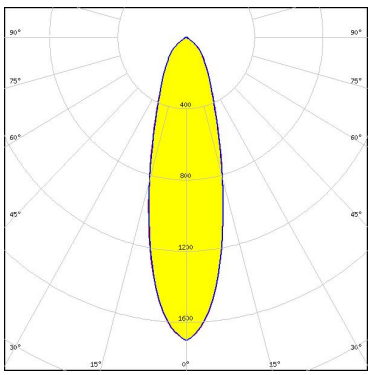
CREE LEDs

LED	XT-E
FWHM / FWTM	28.0° / 82.0°
Efficiency	91 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



LUMILEDS

LED	LUXEON 2835 Line
FWHM / FWTM	30.0° / 78.0°
Efficiency	85 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

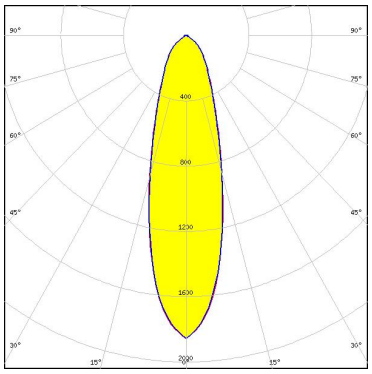
Light distribution files

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OPTICAL RESULTS (SIMULATED):

LUMILEDS

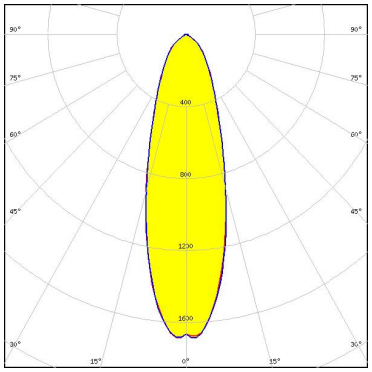
LED	LUXEON 2835 Line
FWHM / FWTM	28.0° / 78.0°
Efficiency	93 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON 3030 HE Plus
FWHM / FWTM	32.0° / 82.0°
Efficiency	93 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



LUMILEDS

LED	LUXEON 3535L HE PLUS
FWHM / FWTM	30.0° / 80.0°
Efficiency	86 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

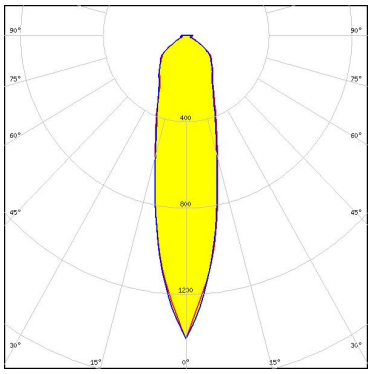
Protective plate, glass

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

OPTICAL RESULTS (SIMULATED):

LUMILEDS

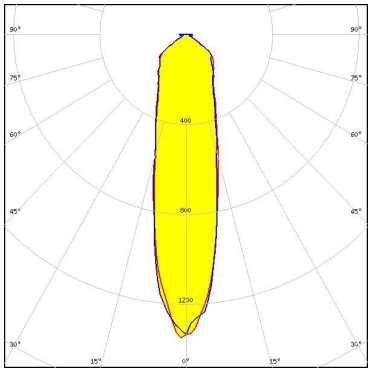
LED	LUXEON C
FWHM / FWTM	25.0° / 105.0°
Efficiency	91 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	



Light distribution files

LUMILEDS

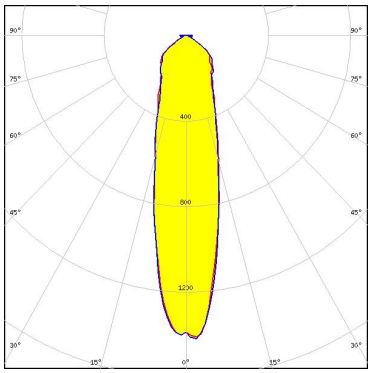
LED	LUXEON C
FWHM / FWTM	25.0° / 107.0°
Efficiency	90 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	Green
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON C
FWHM / FWTM	25.0° / 104.0°
Efficiency	91 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	Blue
Required components:	



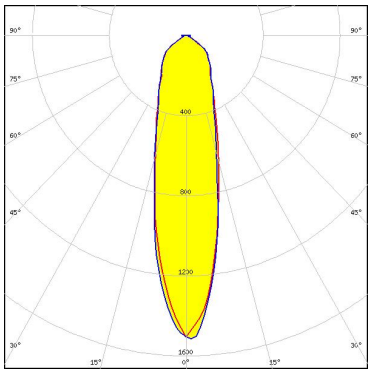
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

LUMILEDS

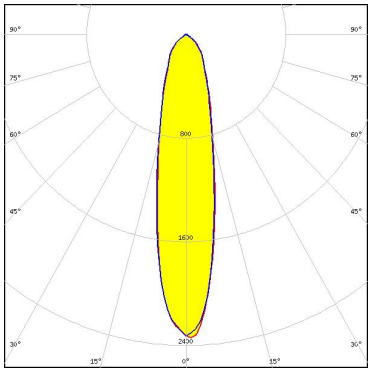
LED	LUXEON C
FWHM / FWTM	25.0° / 96.0°
Efficiency	91 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

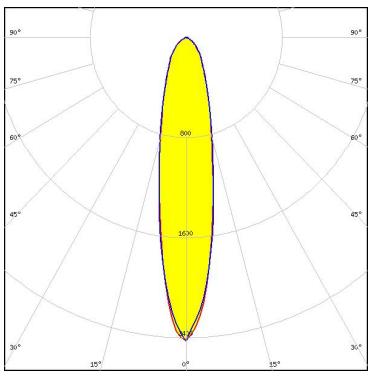
LED	LUXEON CZ
FWHM / FWTM	23.0° / 70.0°
Efficiency	94 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	22.0° / 67.0°
Efficiency	94 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



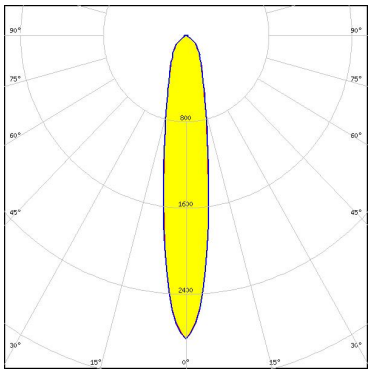
Light distribution files

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OPTICAL RESULTS (SIMULATED):

LUMILEDS

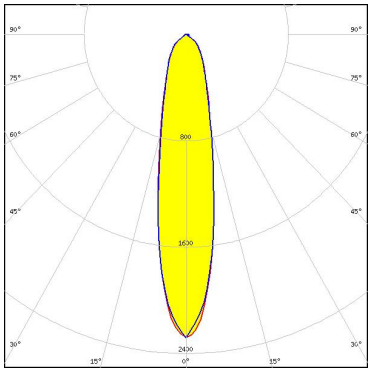
LED	LUXEON HL1Z
FWHM / FWTM	18.0° / 62.0°
Efficiency	94 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

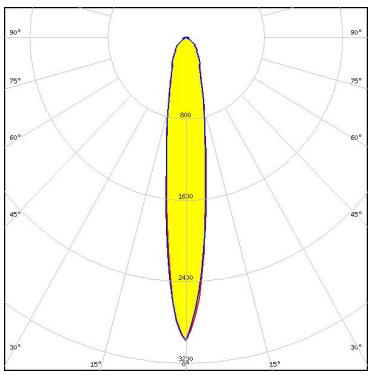
LED	NCSxE17A
FWHM / FWTM	22.0° / 69.0°
Efficiency	91 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NFSWE11A
FWHM / FWTM	16.0° / 56.0°
Efficiency	90 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



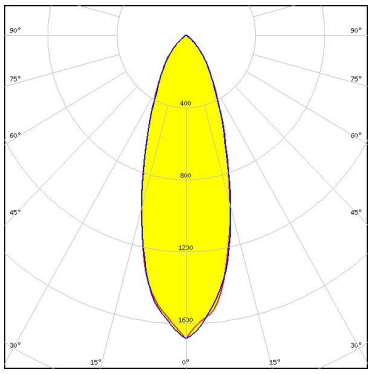
Light distribution files

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OPTICAL RESULTS (SIMULATED):

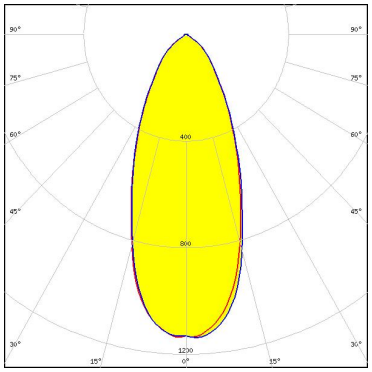
NICHIA

LED	NVSW219D
FWHM / FWTM	34.0° / 80.0°
Efficiency	93 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



NICHIA

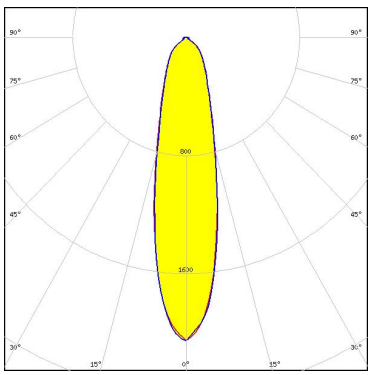
LED	NVSW519A
FWHM / FWTM	43.0° / 95.0°
Efficiency	90 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NVSxE21A
FWHM / FWTM	25.0° / 74.0°
Efficiency	92 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



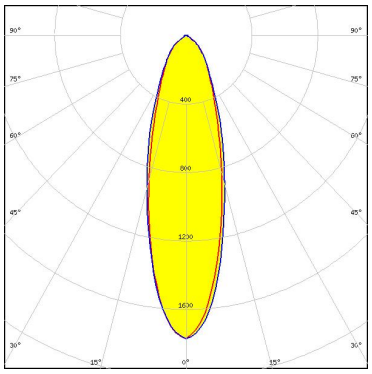
Light distribution files

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OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

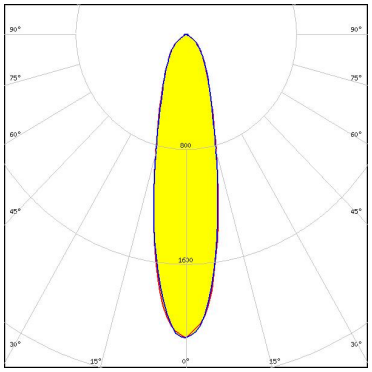
LED	Duris E5
FWHM / FWTM	30.0° / 80.0°
Efficiency	93 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

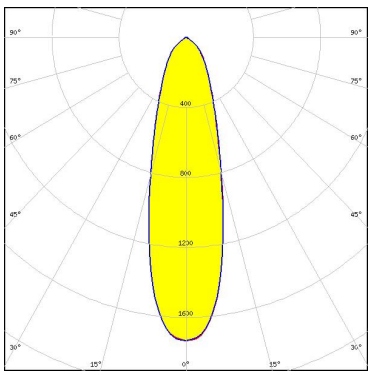
LED	OSCONIQ C 2424
FWHM / FWTM	26.0° / 73.0°
Efficiency	93 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ C 3030
FWHM / FWTM	28.0° / 78.0°
Efficiency	86 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



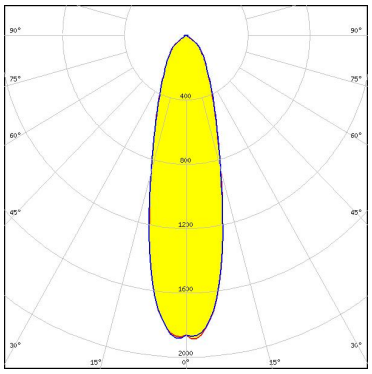
Protective plate, glass

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OPTICAL RESULTS (SIMULATED):

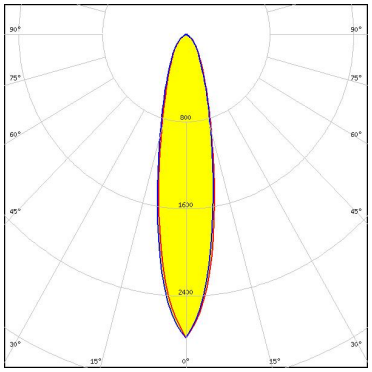
OSRAM
Opto Semiconductors

LED	OSCONIQ C 3030
FWHM / FWTM	28.0° / 78.0°
Efficiency	94 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



OSRAM
Opto Semiconductors

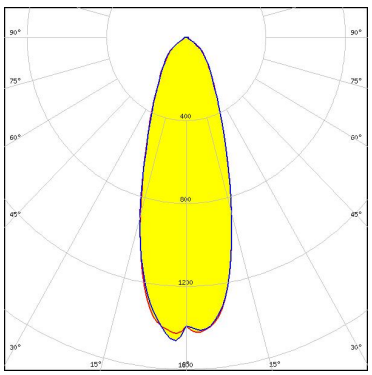
LED	OSCONIQ P 3030
FWHM / FWTM	22.0° / 60.0°
Efficiency	94 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	36.0 + 34.0° / 88.0 + 87.0°
Efficiency	94 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

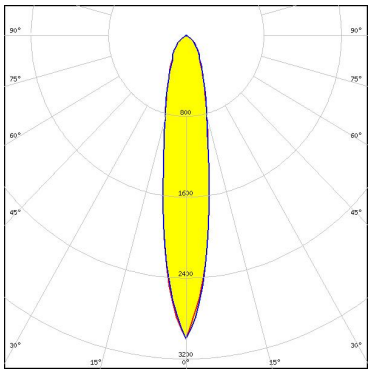


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OPTICAL RESULTS (SIMULATED):

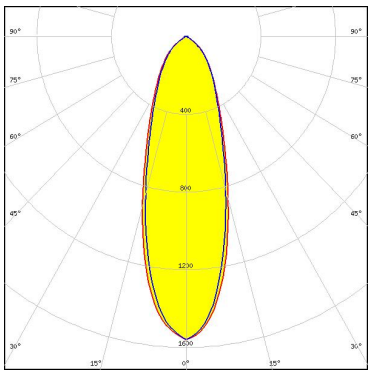
OSRAM
Opto Semiconductors

LED	OSLON Pure 1414
FWHM / FWTM	18.0° / 58.0°
Efficiency	95 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



OSRAM
Opto Semiconductors

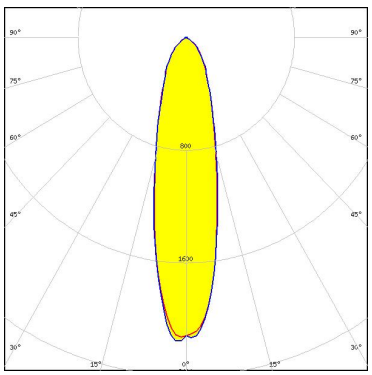
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	32.0° / 87.0°
Efficiency	94 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	Red
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	25.0° / 74.0°
Efficiency	94 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	Far Red
Required components:	



Light distribution files

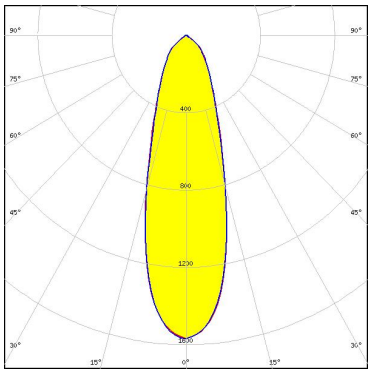
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OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LH231B
FWHM / FWTM	31.0° / 80.0°
Efficiency	83 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

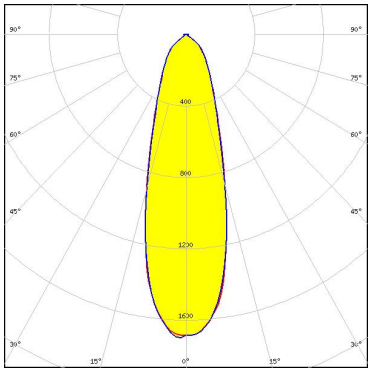
Protective plate, glass



Light distribution files

SAMSUNG

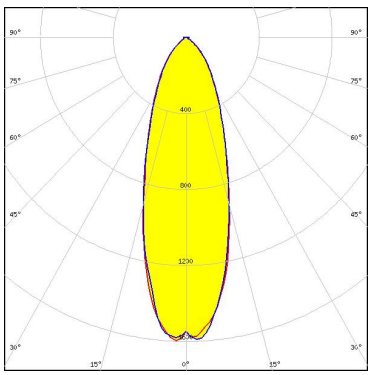
LED	LH231B
FWHM / FWTM	31.0° / 82.0°
Efficiency	91 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LH351B
FWHM / FWTM	33.0° / 83.0°
Efficiency	94 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



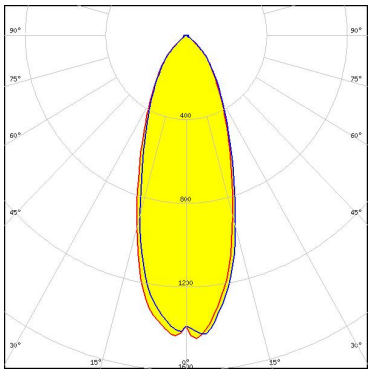
Light distribution files

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OPTICAL RESULTS (SIMULATED):

SAMSUNG

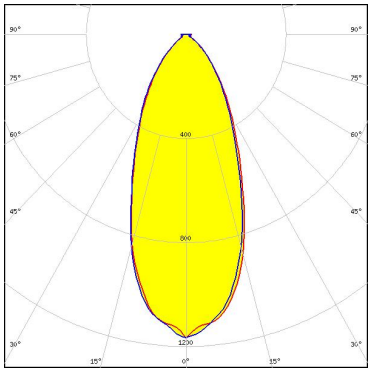
LED	LH351C
FWHM / FWTM	37.0° / 87.0°
Efficiency	94 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LH351D
FWHM / FWTM	44.0° / 93.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

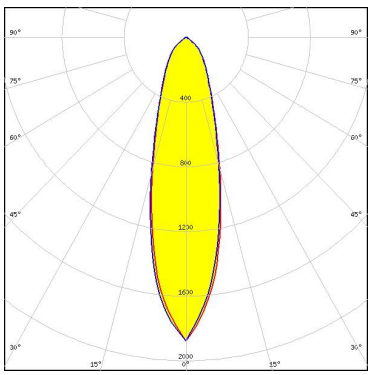


Light distribution files

SAMSUNG

LED	LM301B
FWHM / FWTM	28.0° / 76.0°
Efficiency	87 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



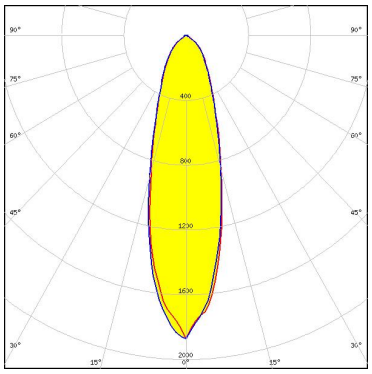
Light distribution files

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OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LM301B
FWHM / FWTM	27.0° / 78.0°
Efficiency	93 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

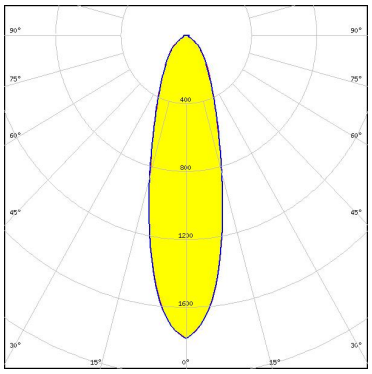
SAMSUNG

LED	LM301B
FWHM / FWTM	30.0° / 78.0°
Efficiency	86 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

SAMSUNG

LED	LM302D
FWHM / FWTM	29.0° / 79.0°
Efficiency	93 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



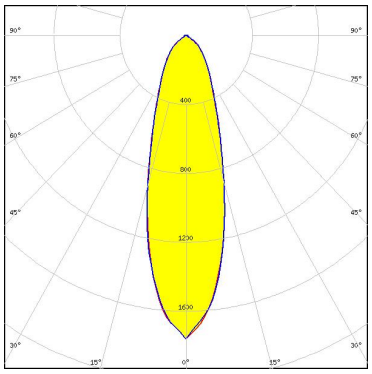
Light distribution files

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OPTICAL RESULTS (SIMULATED):

SAMSUNG

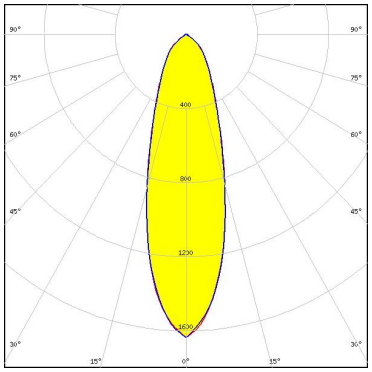
LED	LM302Z plus
FWHM / FWTM	30.0° / 80.0°
Efficiency	93 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LM302Z plus
FWHM / FWTM	30.0° / 82.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

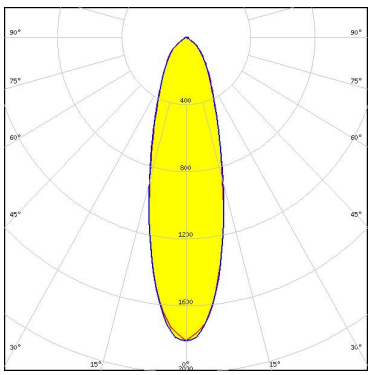


Protective plate, glass

Light distribution files

SEOUL SEMICONDUCTOR

LED	SEOUL DC 3030C
FWHM / FWTM	30.0° / 80.0°
Efficiency	93 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



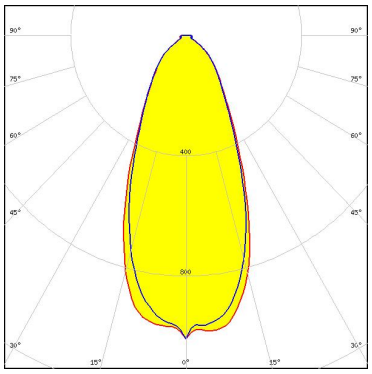
Light distribution files

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OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

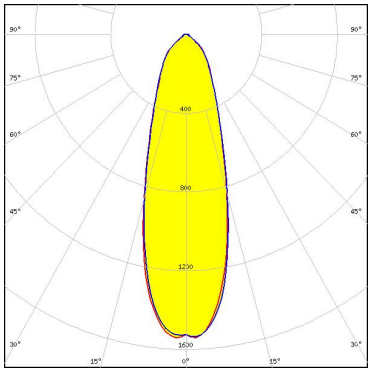
LED	SEOUL DC 5050 6V
FWHM / FWTM	45.0° / 100.0°
Efficiency	91 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y22T
FWHM / FWTM	31.0° / 82.0°
Efficiency	93 %
Peak intensity	1.6 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:

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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