HB-2X2-W

~50° wide beam



SPECIFICATION:

Dimensions	50.0 x 50.0
Height	8.5 mm
Fastening	glue, pin, screw
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
HB-2X2-W	Multi-lens	PMMA	clear		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12361_HB-2X2-W » Box size: 480 x 280 x 300 mm	800	160	160	9.1

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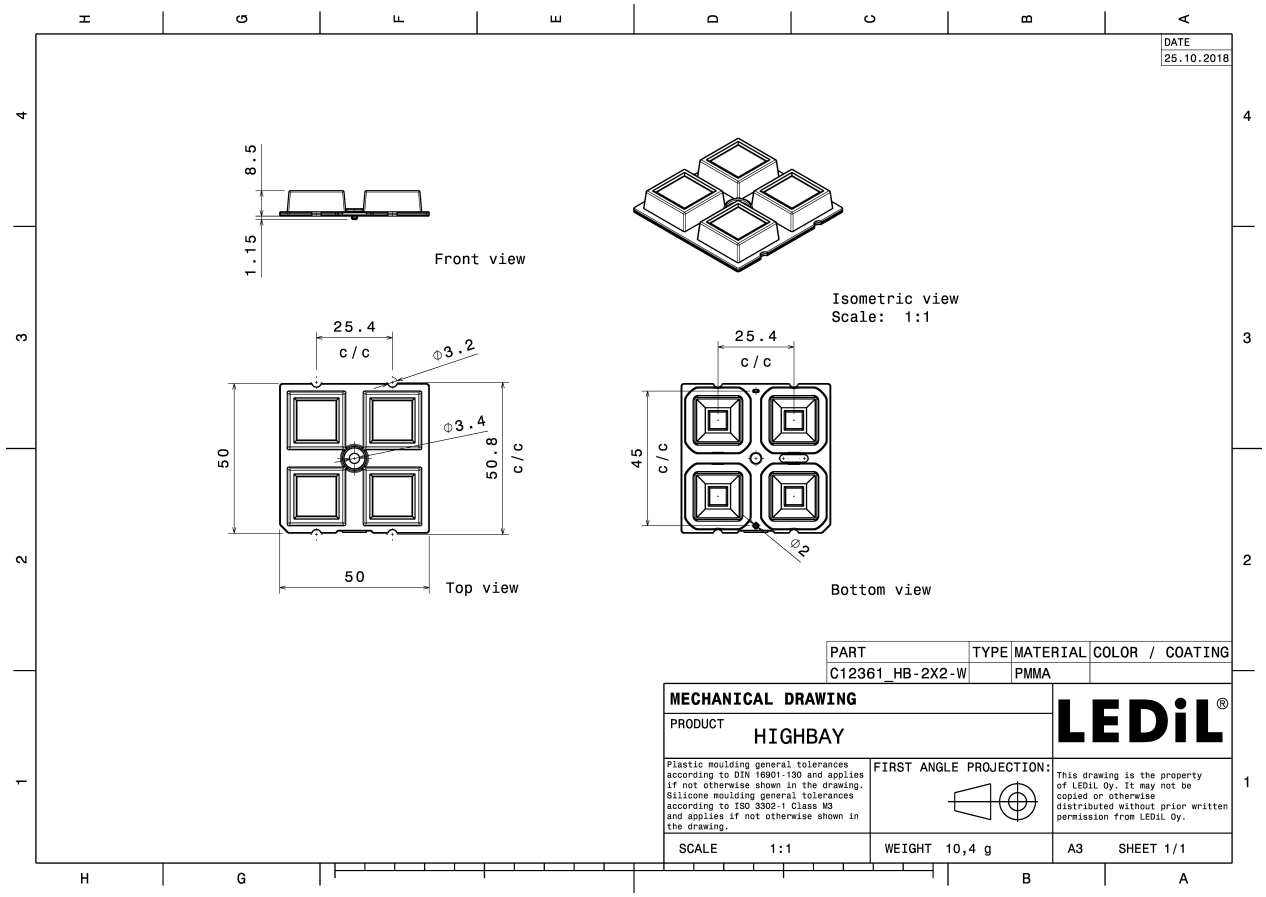

See also our general installation guide: www.ledil.com/installation_guide

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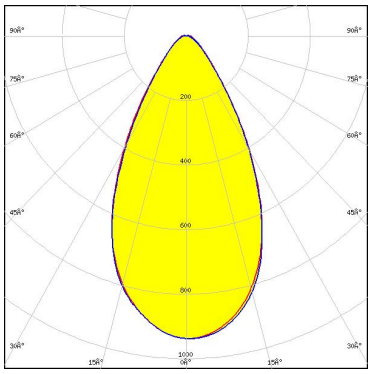
OPTICAL RESULTS (MEASURED):

bridgelux

LED	Bridgelux SMD 5050
FWHM / FWTM	55.0° / 93.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



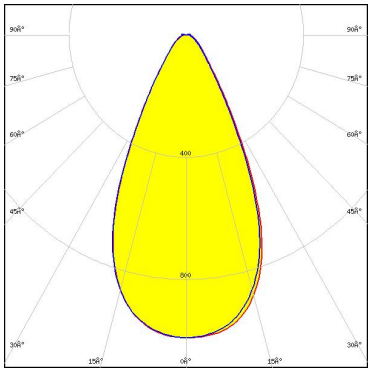


Light distribution files

COMET ELECTRONICS

LED	QUICK FLUX XTP 2x4 xxx LS G5
FWHM / FWTM	52.0° / 85.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

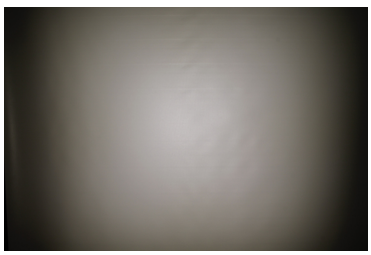


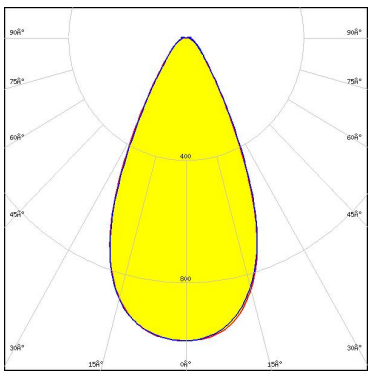


Light distribution files

COMET ELECTRONICS

LED	QUICK FLUX XTP 2x6 xxx LS G5
FWHM / FWTM	52.0° / 86.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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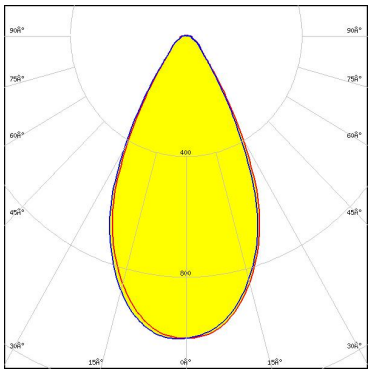
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	J Series 5050C 6V E Class
FWHM / FWTM	54.0° / 86.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



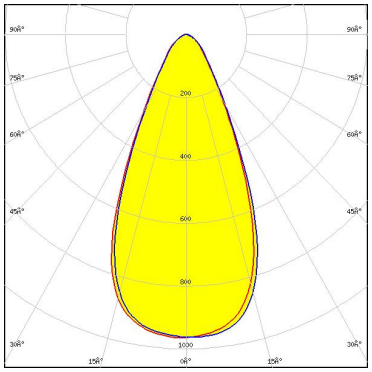


Light distribution files

CREE LEDs

LED	XB-D
FWHM / FWTM	48.0° / 85.0°
Efficiency	86 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



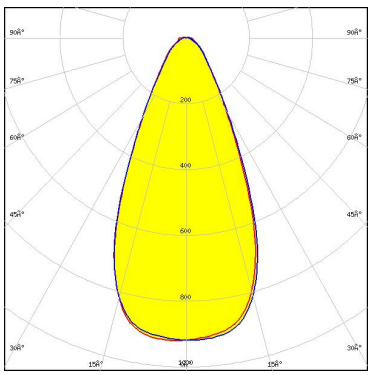


Light distribution files

CREE LEDs

LED	XD16
FWHM / FWTM	48.0° / 89.0°
Efficiency	91 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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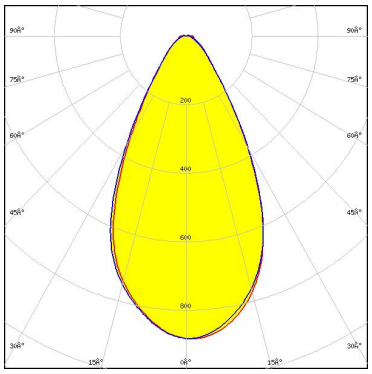
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XD16
FWHM / FWTM	54.0° / 94.0°
Efficiency	91 %
Peak intensity	0.9 cd/lm
LEDs/each optic	4
Light colour/type	White
Required components:	



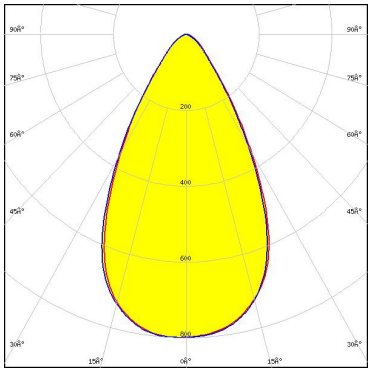


Light distribution files

CREE LEDs

LED	XHP35 HD
FWHM / FWTM	57.0° / 92.0°
Efficiency	85 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



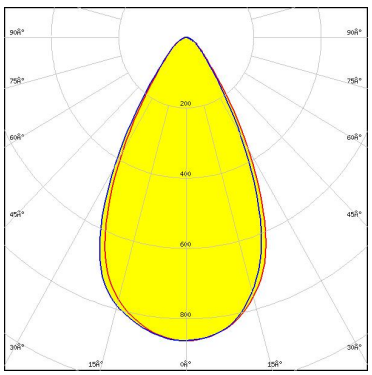


Light distribution files

CREE LEDs

LED	XM-L
FWHM / FWTM	57.0° / 90.0°
Efficiency	89 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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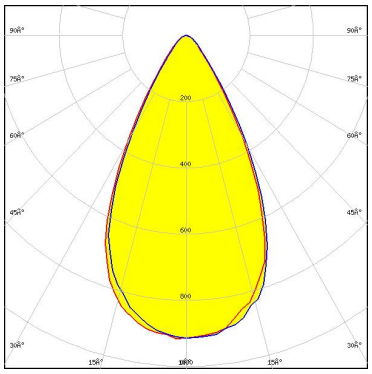
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XM-L2
FWHM / FWTM	56.0° / 85.0°
Efficiency	87 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

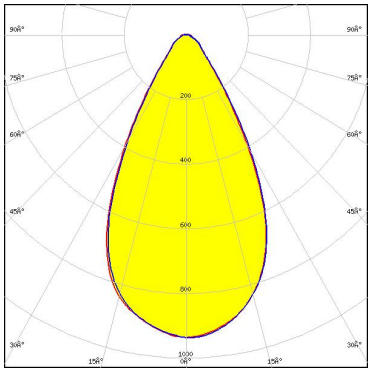


Light distribution files

CREE LEDs

LED	XM-L3
FWHM / FWTM	56.0° / 87.0°
Efficiency	95 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



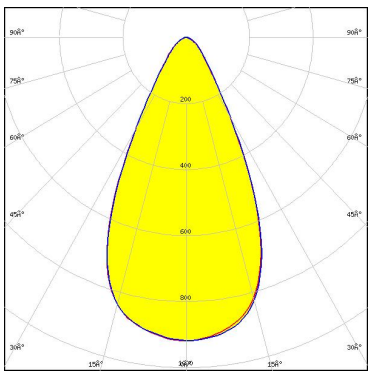


Light distribution files

CREE LEDs

LED	XP-G
FWHM / FWTM	52.0°
Efficiency	88 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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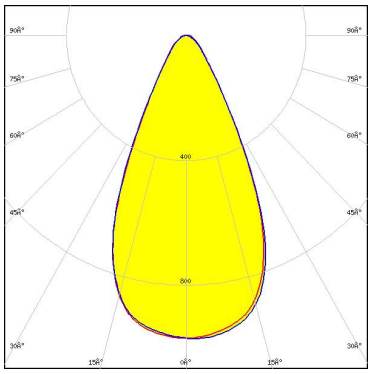
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-G2
FWHM / FWTM	51.0° / 84.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

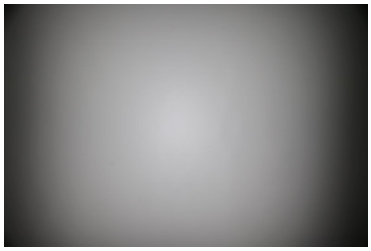


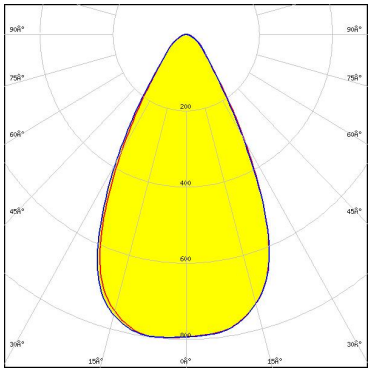


Light distribution files

CREE LEDs

LED	XP-L HD
FWHM / FWTM	56.0° / 90.0°
Efficiency	87 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



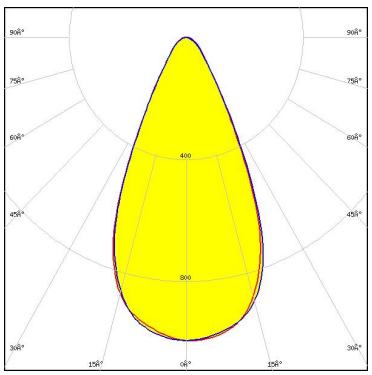


Light distribution files

CREE LEDs

LED	XP-L HI
FWHM / FWTM	50.0° / 83.0°
Efficiency	93 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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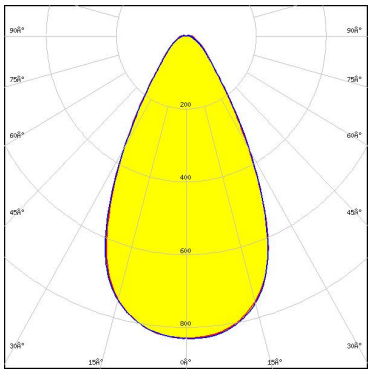
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-L2
FWHM / FWTM	56.0° / 96.0°
Efficiency	92 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



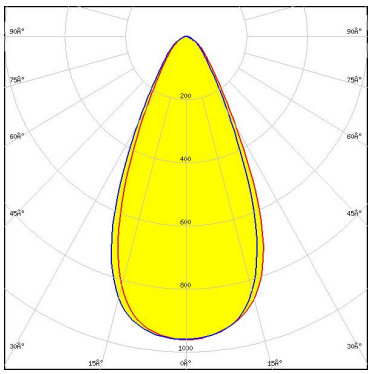


Light distribution files

CREE LEDs

LED	XT-E
FWHM / FWTM	50.0° / 88.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

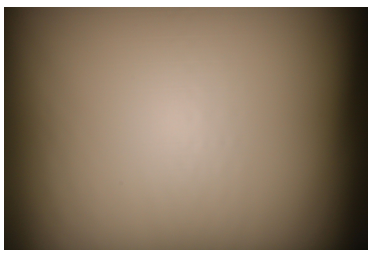


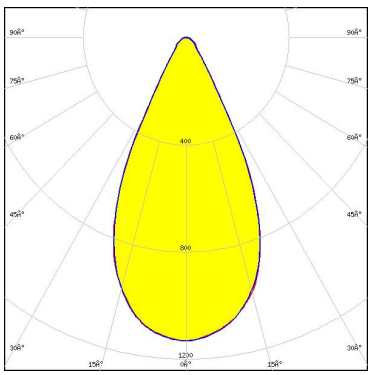


Light distribution files

inventronics

LED	PL-BRICK HP 3800 2x8 SSG
FWHM / FWTM	52.0° / 75.0°
Efficiency	98 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

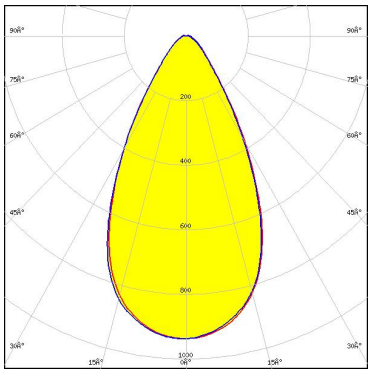
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	55.0° / 91.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

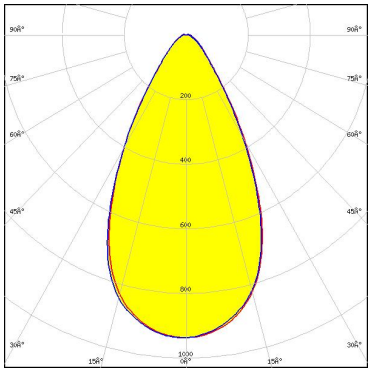




Light distribution files

LUMILEDS

LED	LUXEON 5050 Square LES
FWHM / FWTM	55.0° / 91.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

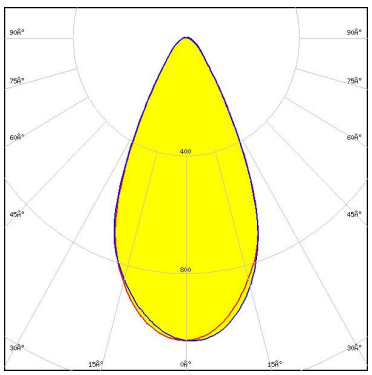


Light distribution files

LUMILEDS

LED	LUXEON MZ
FWHM / FWTM	53.0° / 86.0°
Efficiency	92 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





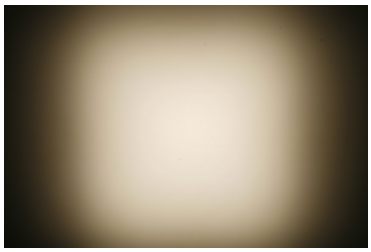
Light distribution files

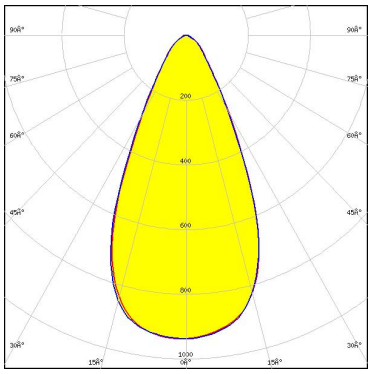
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON Q
FWHM / FWTM	50.0° / 86.0°
Efficiency	86 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



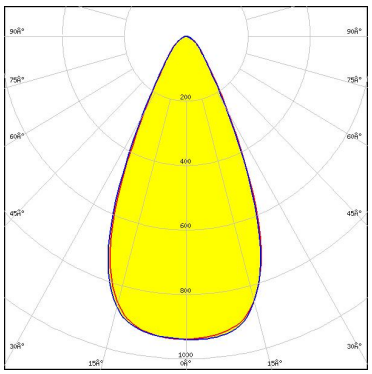


Light distribution files

LUMILEDS

LED	LUXEON Rebel ES
FWHM / FWTM	51.0° / 82.0°
Efficiency	87 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



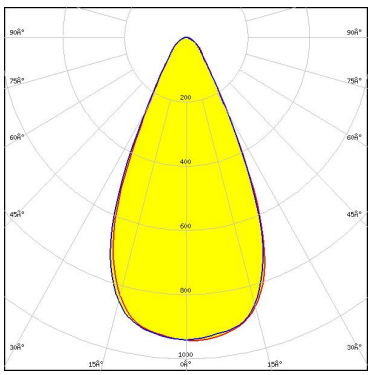


Light distribution files

LUMILEDS

LED	LUXEON T
FWHM / FWTM	55.0°
Efficiency	87 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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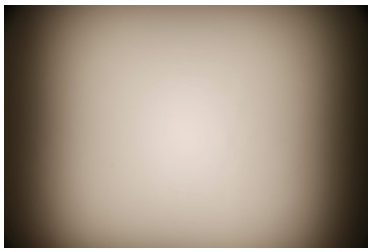
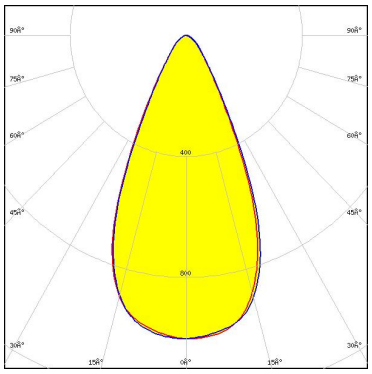
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON TX
FWHM / FWTM	50.0° / 80.0°
Efficiency	88 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

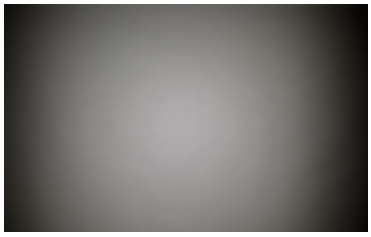


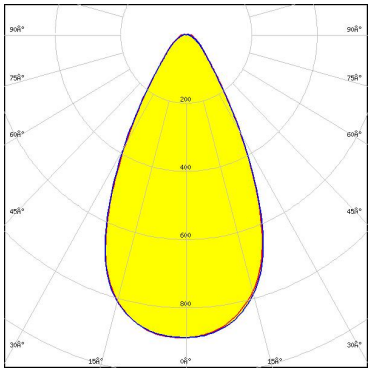


Light distribution files

LUMILEDS

LED	LUXEON V
FWHM / FWTM	55.0° / 91.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



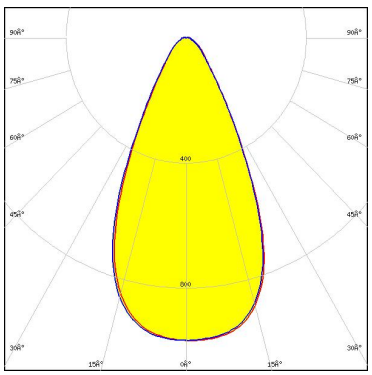


Light distribution files

LUMILEDS

LED	LUXEON V2
FWHM / FWTM	51.0° / 86.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





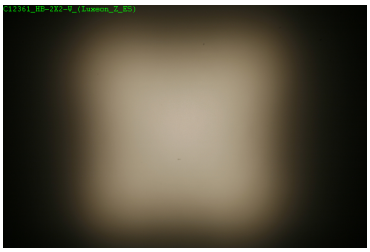
Light distribution files

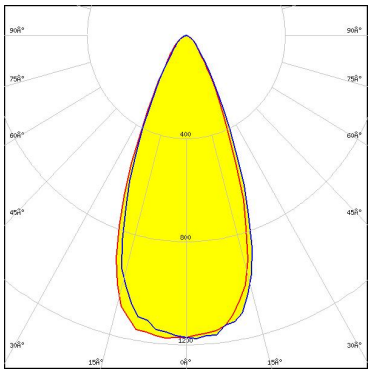
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	46.0° / 76.0°
Efficiency	87 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



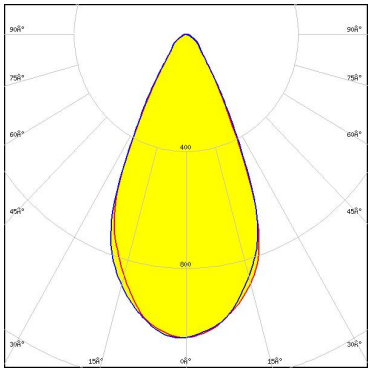


Light distribution files

LUMINUS

LED	SST-10-B130
FWHM / FWTM	51.0° / 80.0°
Efficiency	99 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	Deep Red
Required components:	



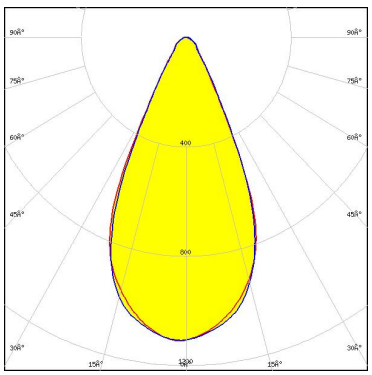


Light distribution files

MST Your solutions

LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1
FWHM / FWTM	50.0° / 75.0°
Efficiency	98 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

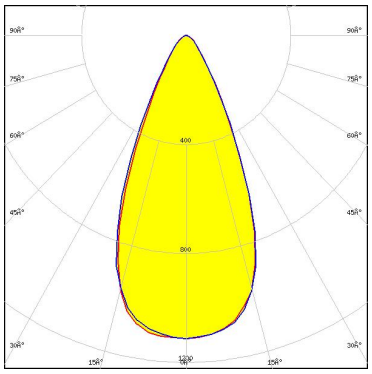
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

NICHIA

LED	NCSxx19A
FWHM / FWTM	48.0° / 77.0°
Efficiency	85 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



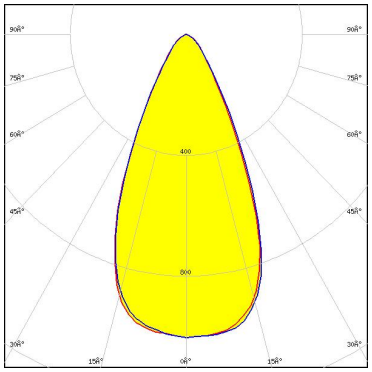


Light distribution files

NICHIA

LED	NCSxx19B
FWHM / FWTM	50.0° / 83.0°
Efficiency	85 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



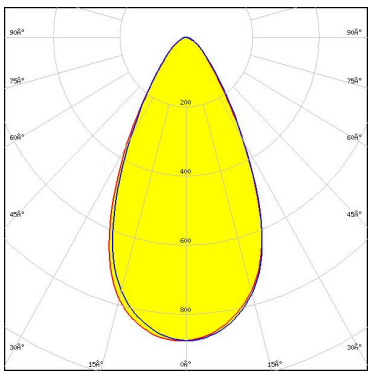


Light distribution files

NICHIA

LED	NS9x383
FWHM / FWTM	54.0° / 93.0°
Efficiency	86 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

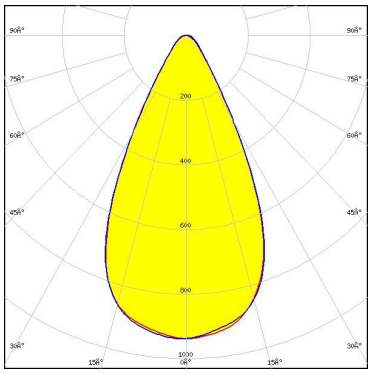
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

NICHIA

LED	NVSW219D
FWHM / FWTM	53.0° / 83.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



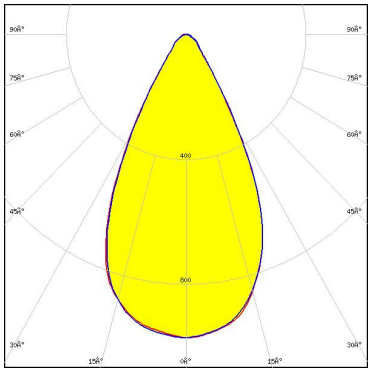


Light distribution files

NICHIA

LED	NVSW219F
FWHM / FWTM	54.0° / 81.0°
Efficiency	97 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



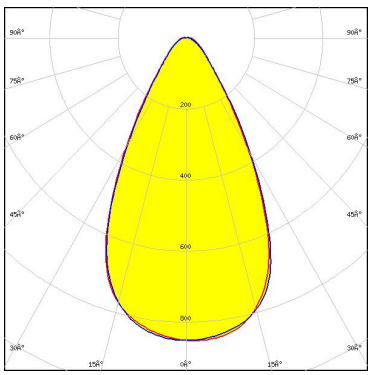


Light distribution files

NICHIA

LED	NVSW319B
FWHM / FWTM	56.0° / 93.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

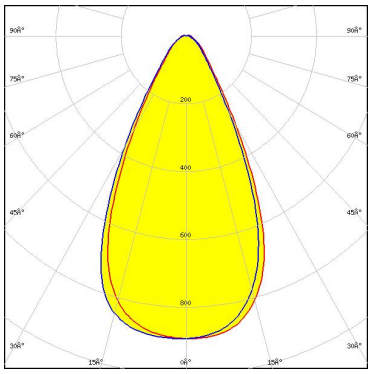
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

NICHIA

LED	NVSW3x9A
FWHM / FWTM	53.0° / 88.0°
Efficiency	92 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



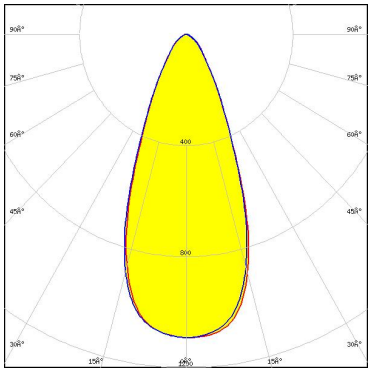


Light distribution files

NICHIA

LED	NVSxE21A
FWHM / FWTM	43.0° / 80.0°
Efficiency	86 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



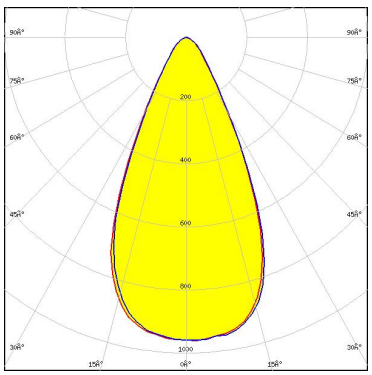


Light distribution files

NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	51.0° / 82.0°
Efficiency	85 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





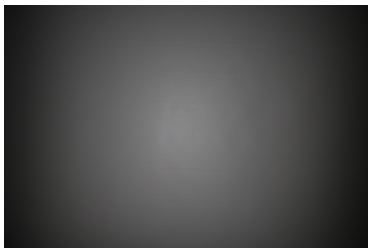
Light distribution files

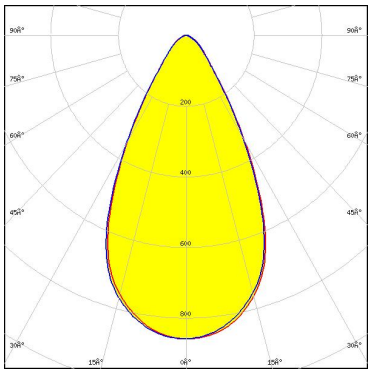
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

NICHIA

LED	NWSx229A
FWHM / FWTM	57.0° / 90.0°
Efficiency	86 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

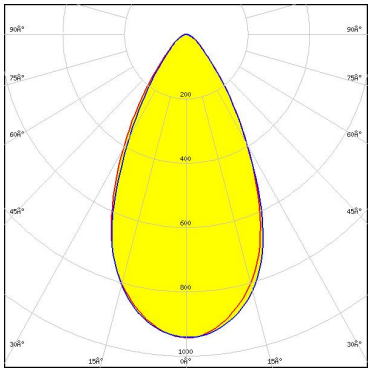




Light distribution files

OPTOGAN

LED	OLP-5065F6L-06A
FWHM / FWTM	56.0° / 90.0°
Efficiency	88 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

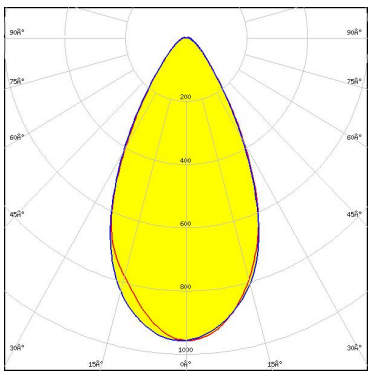


Light distribution files

OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	55.0° / 91.0°
Efficiency	93 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSCONIQ C 3030
FWHM / FWTM	47.0° / 76.0°
Efficiency	96 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

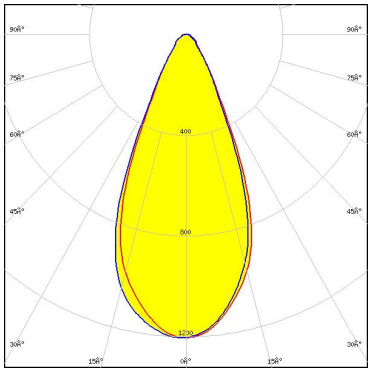


Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ C 3030
FWHM / FWTM	47.0° / 76.0°
Efficiency	96 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

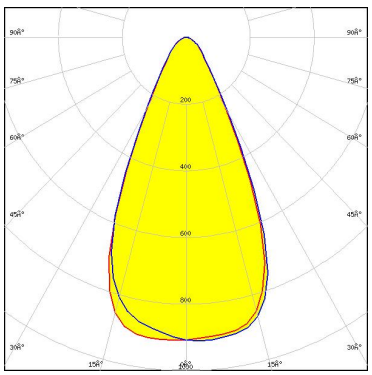




Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square PC
FWHM / FWTM	54.0° / 85.0°
Efficiency	87 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

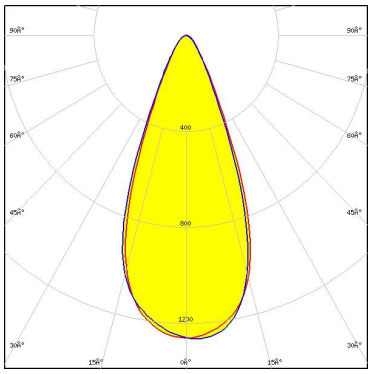
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	43.0° / 70.0°
Efficiency	89 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



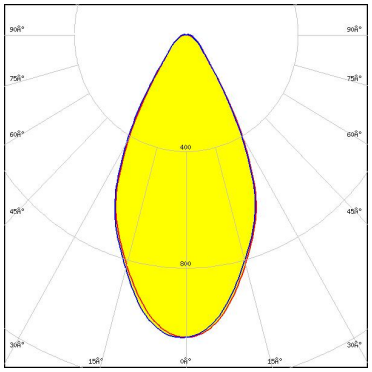


Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 2x8 DA (U)HE
FWHM / FWTM	54.0° / 87.0°
Efficiency	97 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



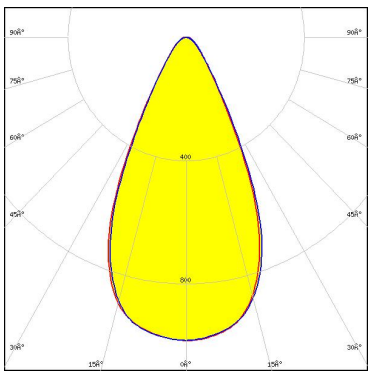


Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 2x8 DA G4
FWHM / FWTM	52.0° / 82.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





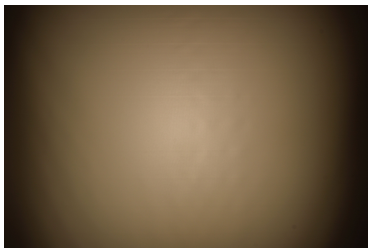
Light distribution files

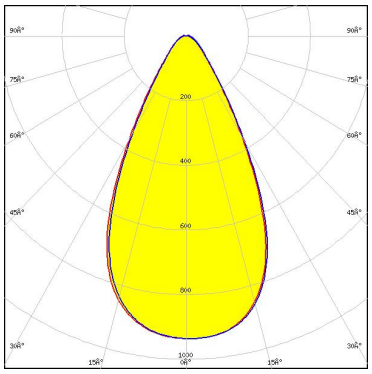
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

PHILIPS

LED	Fortimo FastFlex LED 2x8 DA G4+
FWHM / FWTM	55.0° / 88.0°
Efficiency	97 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



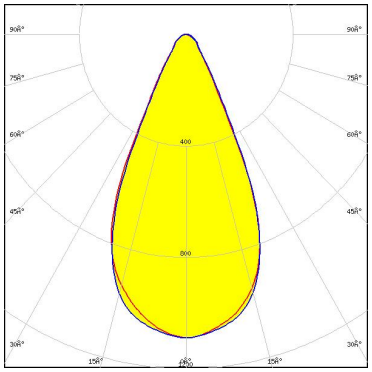


Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 2x8 DA G5
FWHM / FWTM	50.0° / 77.0°
Efficiency	97 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



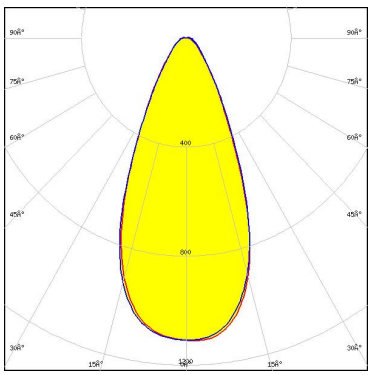


Light distribution files

SAMSUNG

LED	HiLOM RC12 Z (LH181B)
FWHM / FWTM	46.0° / 84.0°
Efficiency	97 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

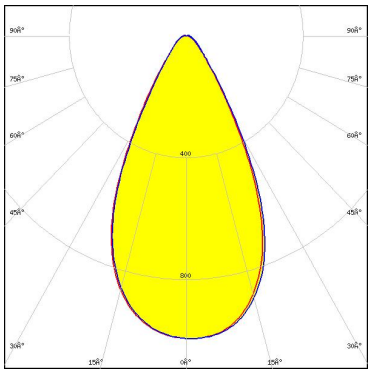
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	HiLOM RH12 Z (LH351C)
FWHM / FWTM	54.0° / 84.0°
Efficiency	96 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



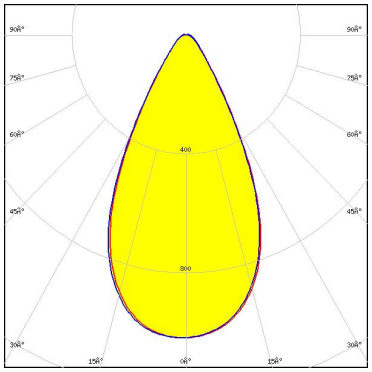


Light distribution files

SAMSUNG

LED	HiLOM RH16 (LH351C)
FWHM / FWTM	53.0° / 83.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



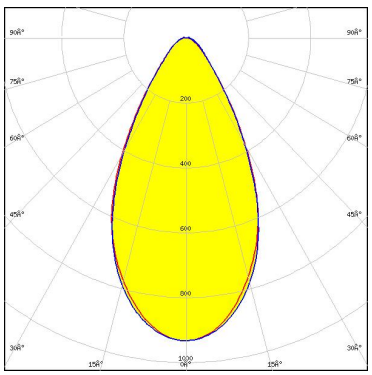


Light distribution files

SAMSUNG

LED	HiLOM RM12 Z (LH502C)
FWHM / FWTM	55.0° / 94.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

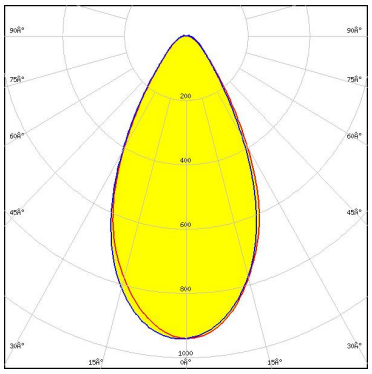
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	HiLOM RM16 Z (LH502C)
FWHM / FWTM	55.0° / 95.0°
Efficiency	96 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



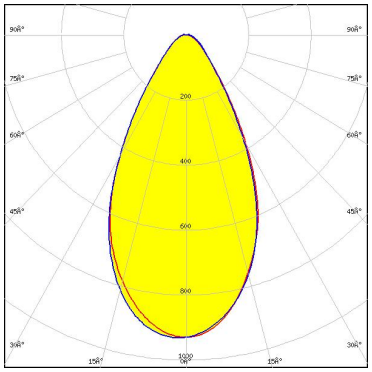


Light distribution files

SAMSUNG

LED	HiLOM RM8 Z (LH502C)
FWHM / FWTM	56.0° / 95.0°
Efficiency	96 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



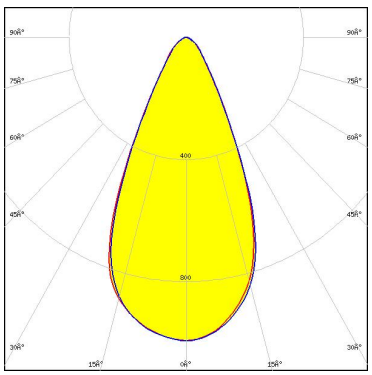


Light distribution files

SAMSUNG

LED	LH351A
FWHM / FWTM	49.0° / 81.0°
Efficiency	89 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

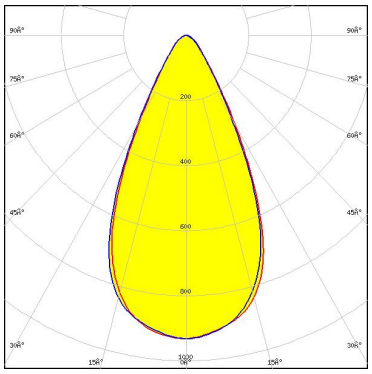
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LH351B
FWHM / FWTM	55.0° / 85.0°
Efficiency	86 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

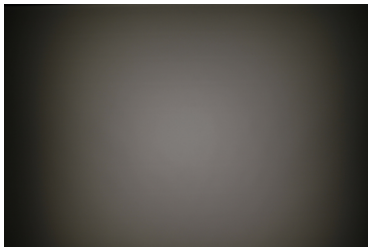


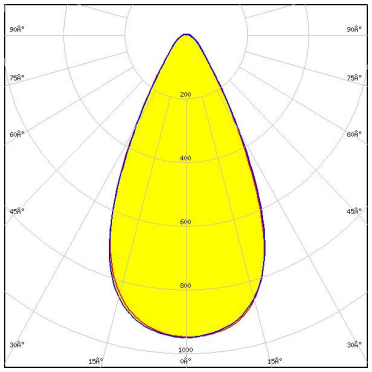


Light distribution files

SAMSUNG

LED	LH351C
FWHM / FWTM	53.0° / 85.0°
Efficiency	93 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



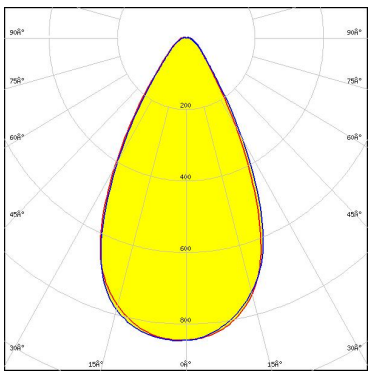


Light distribution files

SAMSUNG

LED	LH351D
FWHM / FWTM	56.0° / 90.0°
Efficiency	91 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

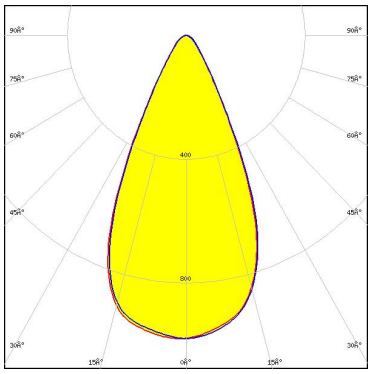
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LH351Z
FWHM / FWTM	50.0° / 77.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



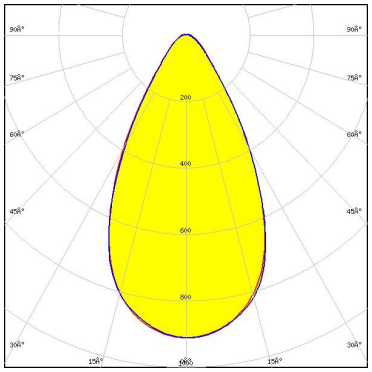


Light distribution files

SAMSUNG

LED	LH508A
FWHM / FWTM	56.0° / 92.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

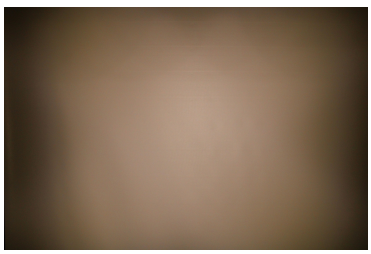


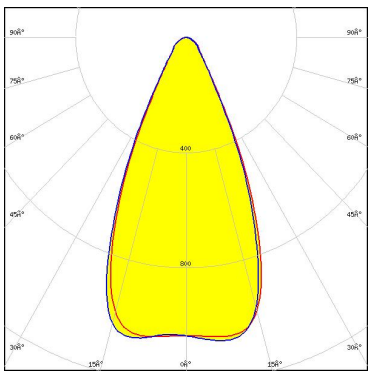


Light distribution files

SEITEC Elektronik GmbH

LED	LED-Pa-L15c2W11c2-xxx-C050-01
FWHM / FWTM	50.0° / 78.0°
Efficiency	96 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

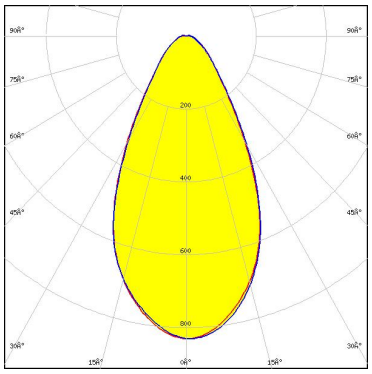
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	2x2 Y22 module - SMJQ-D48W16AA-XX
FWHM / FWTM	54.0° / 102.0°
Efficiency	92 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



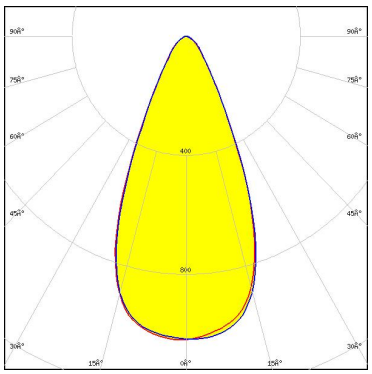


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5
FWHM / FWTM	48.0° / 80.0°
Efficiency	88 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



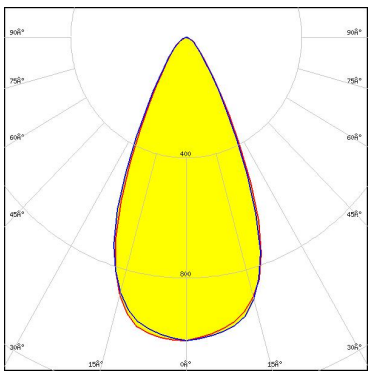


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M1/Z5M2
FWHM / FWTM	51.0° / 82.0°
Efficiency	85 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

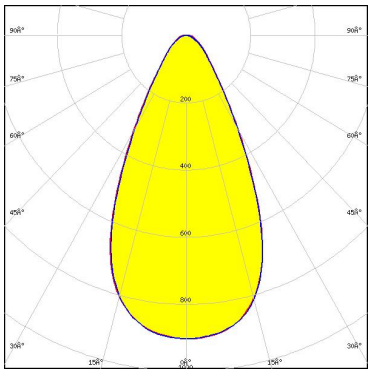
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	53.0° / 93.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



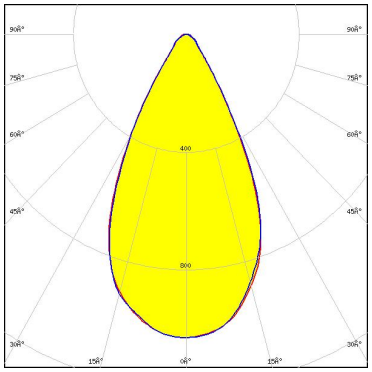


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	54.0° / 80.0°
Efficiency	97 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

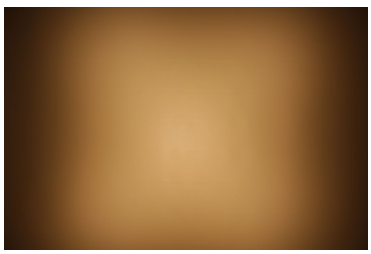


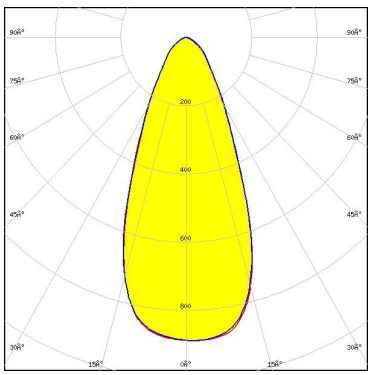


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y15
FWHM / FWTM	45.0° / 89.0°
Efficiency	79 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





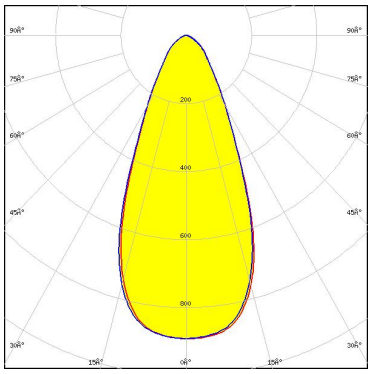
Light distribution files

OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z8Y19
FWHM / FWTM	46.0° / 89.0°
Efficiency	79 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



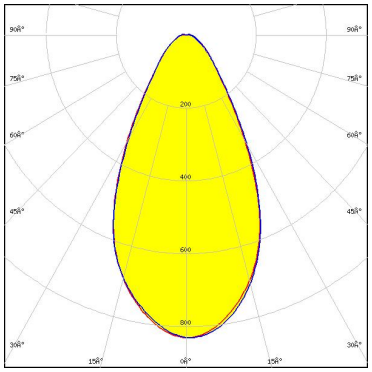


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y19
FWHM / FWTM	54.0° / 102.0°
Efficiency	92 %
Peak intensity	0.8 cd/lm
LEDs/each optic	4
Light colour/type	White
Required components:	



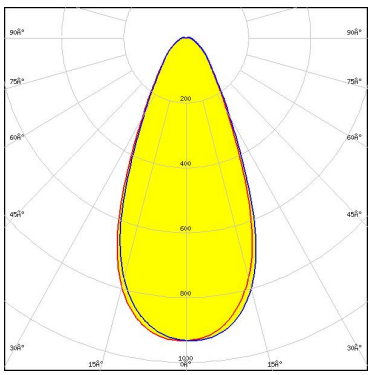


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y22
FWHM / FWTM	48.0° / 94.0°
Efficiency	92 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





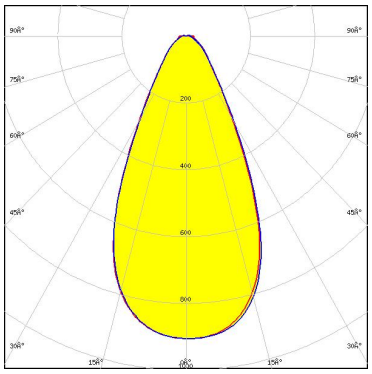
Light distribution files

OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	51.0° / 93.0°
Efficiency	92 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



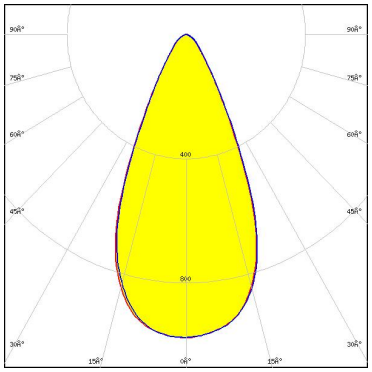


Light distribution files

TOSHIBA
Leading Innovation

LED	TL1L4
FWHM / FWTM	48.0° / 78.0°
Efficiency	81 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

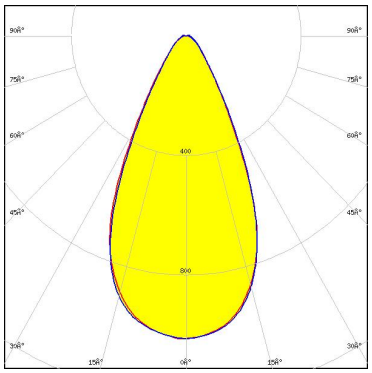




Light distribution files

TRIDONIC

LED	RLE 2x4 2000lm HP EXC2 OTD
FWHM / FWTM	51.0° / 84.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

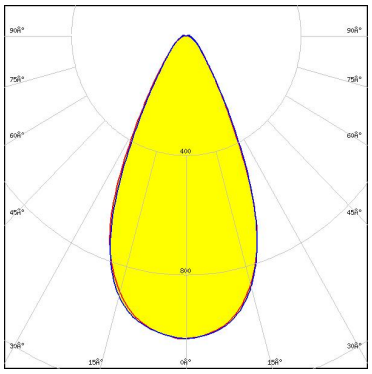
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

TRIDONIC

LED	RLE 2x8 4000lm HP EXC2 OTD
FWHM / FWTM	51.0° / 84.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



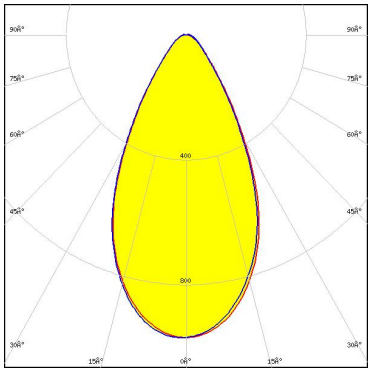


Light distribution files

TRIDONIC

LED	RLE 2x8 6000lm HP HE EXC3 OTD
FWHM / FWTM	54.0° / 92.0°
Efficiency	95 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

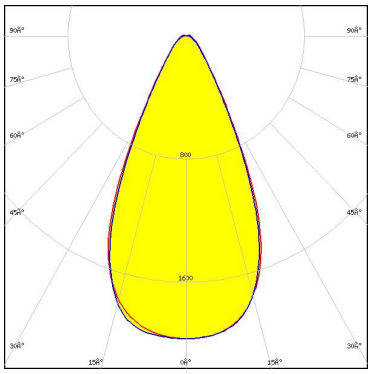




Light distribution files

TRIDONIC

LED	RLE G1 49x121mm 2000lm xxx EXC OTD
FWHM / FWTM	52.0° / 83.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



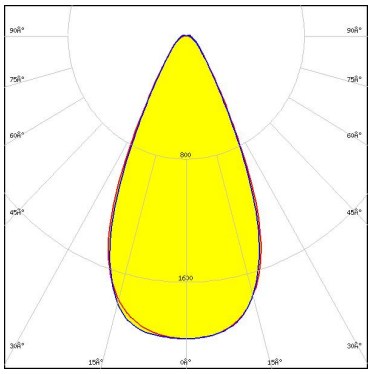
Light distribution files

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

OPTICAL RESULTS (MEASURED):

TRIDONIC

LED	RLE G1 49x133mm 2000lm xxx EXC OTD
FWHM / FWTM	52.0° / 83.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

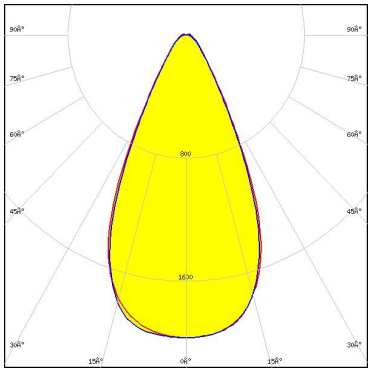


Light distribution files

TRIDONIC

LED	RLE G1 49x223mm 4000lm xxx EXC OTD
FWHM / FWTM	52.0° / 83.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



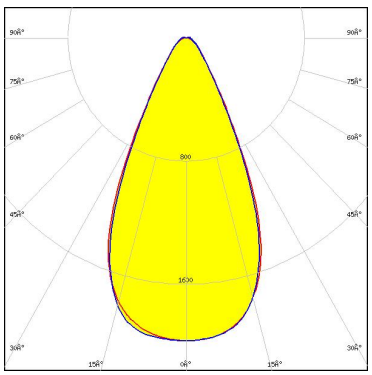


Light distribution files

TRIDONIC

LED	RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM / FWTM	52.0° / 83.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





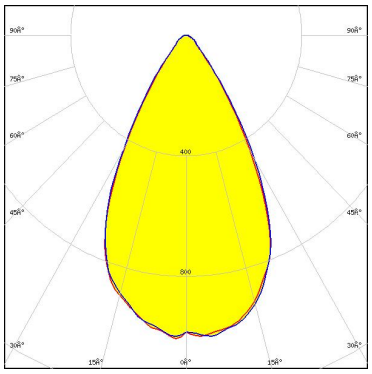
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CREE LEDs

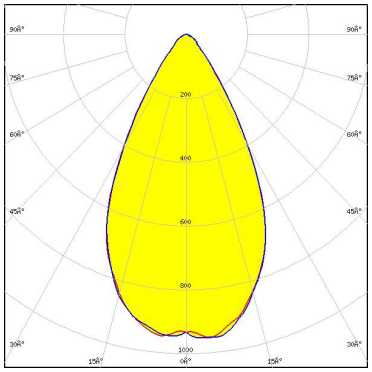
LED	J Series 5050 Round LES
FWHM / FWTM	57.0° / 84.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	J Series 5050B 6V K Class
FWHM / FWTM	56.0° / 86.0°
Efficiency	89 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

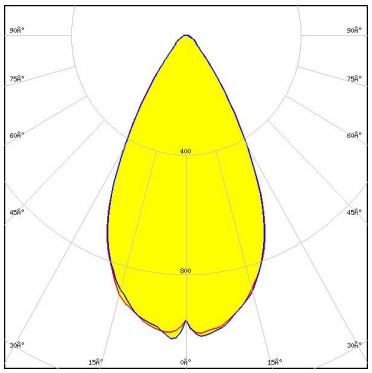


Protective plate, glass

Light distribution files

CREE LEDs

LED	J Series 5050B 6V K Class
FWHM / FWTM	56.0° / 85.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



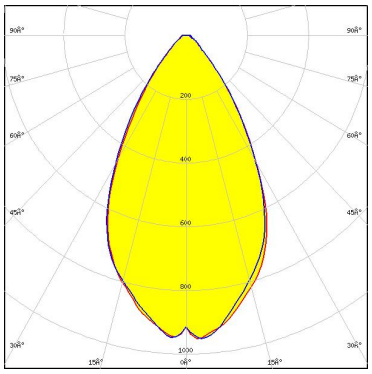
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CREE LEDs

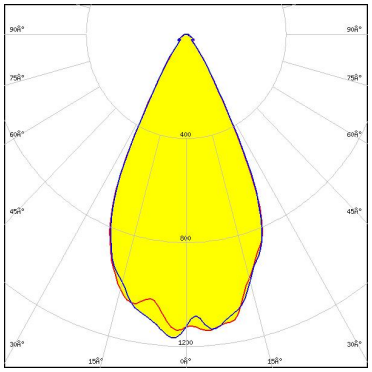
LED	MHB-A/B
FWHM / FWTM	58.0° / 93.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

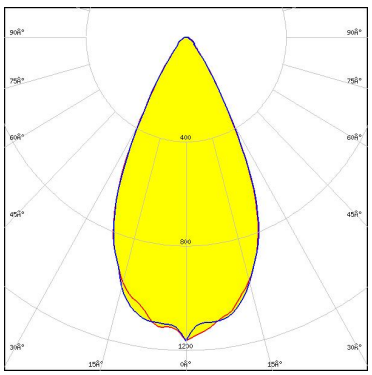
LED	XHP35 HI
FWHM / FWTM	52.0° / 73.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XM-L RGBW (XMLDCL HI)
FWHM / FWTM	52.0° / 78.0°
Efficiency	95 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	



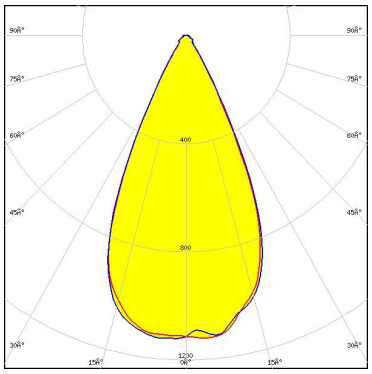
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CREE LEDs

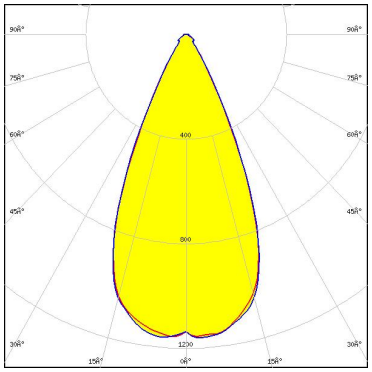
LED	XP-E
FWHM / FWTM	50.0° / 68.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

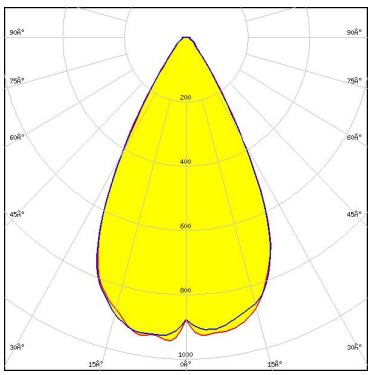
LED	XP-E2
FWHM / FWTM	48.0° / 70.0°
Efficiency	96 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-G2 HE
FWHM / FWTM	57.0° / 82.0°
Efficiency	95 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



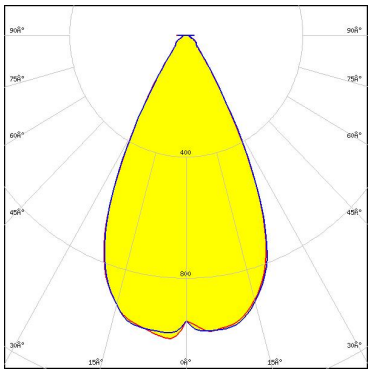
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CREE LEDs

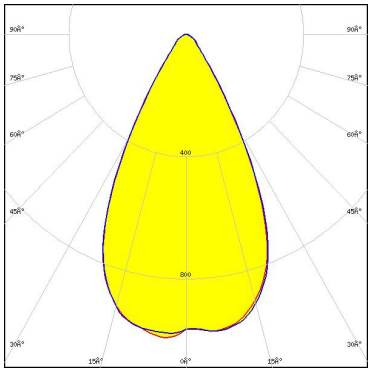
LED	XP-G3
FWHM / FWTM	54.0° / 79.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-G3
FWHM / FWTM	55.0° / 81.0°
Efficiency	88 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

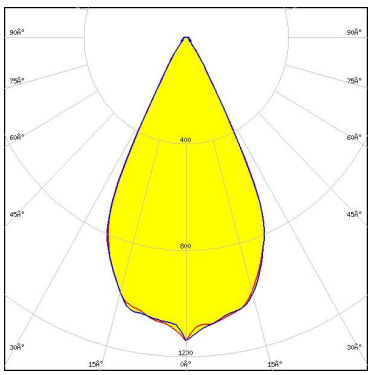


Protective plate, glass

Light distribution files

CREE LEDs

LED	XP-G4
FWHM / FWTM	52.0° / 69.0°
Efficiency	96 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



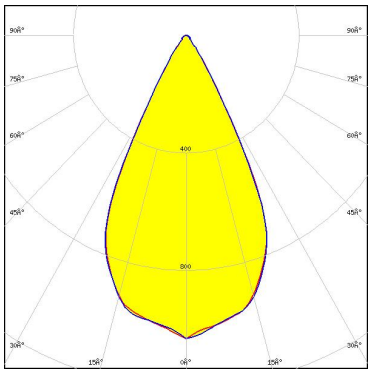
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	XP-G4
FWHM / FWTM	54.0° / 70.0°
Efficiency	88 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

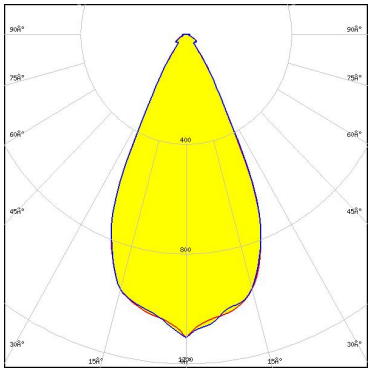


Protective plate, glass

Light distribution files

CREE LEDs

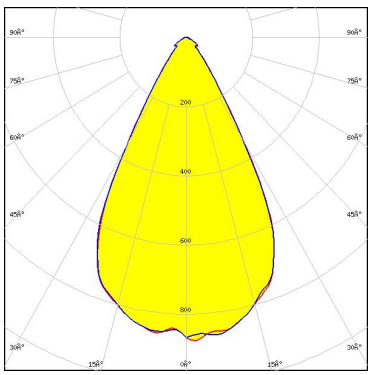
LED	XP-G4 HI
FWHM / FWTM	52.0° / 72.0°
Efficiency	96 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-L HD
FWHM / FWTM	58.0° / 80.0°
Efficiency	87 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

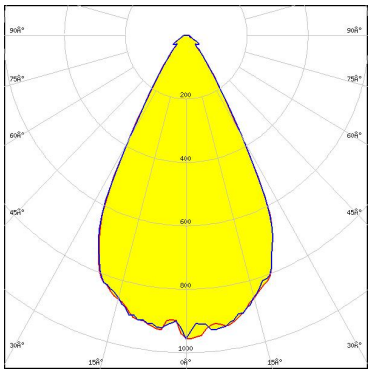
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CREE LEDs

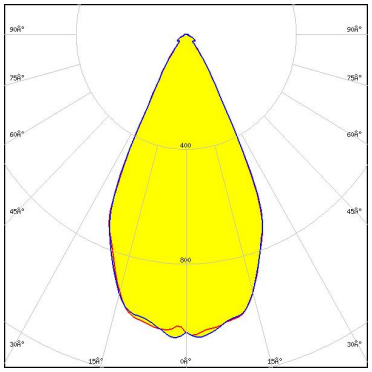
LED	XP-L HD
FWHM / FWTM	56.0° / 79.0°
Efficiency	95 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-L HI
FWHM / FWTM	52.0° / 72.0°
Efficiency	88 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

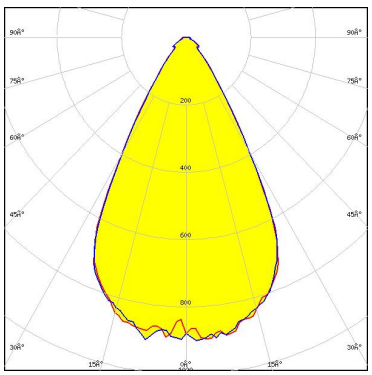


Protective plate, glass

Light distribution files

CREE LEDs

LED	XP-L2
FWHM / FWTM	58.0° / 84.0°
Efficiency	95 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

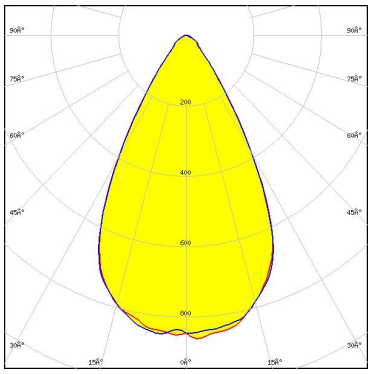
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	XP-L2
FWHM / FWTM	58.0° / 86.0°
Efficiency	89 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

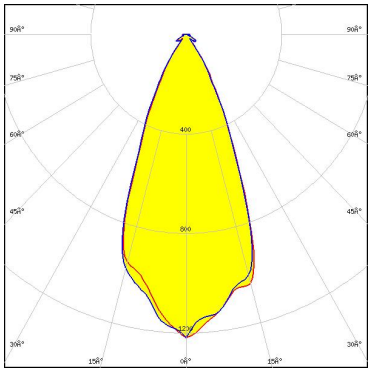
Protective plate, glass



Light distribution files

CREE LEDs

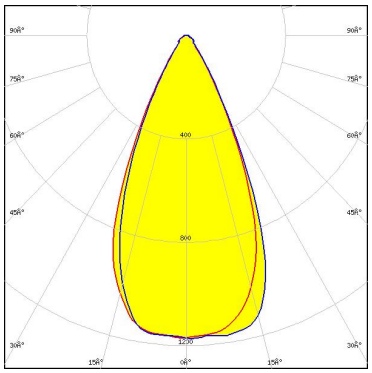
LED	XQ-E HI
FWHM / FWTM	42.0° / 68.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON 3030 2D (Round LES)
FWHM / FWTM	49.0° / 73.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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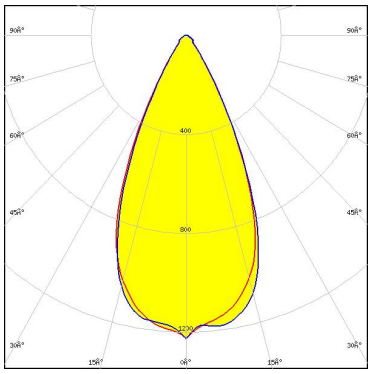
OPTICAL RESULTS (SIMULATED):

LUMILEDS

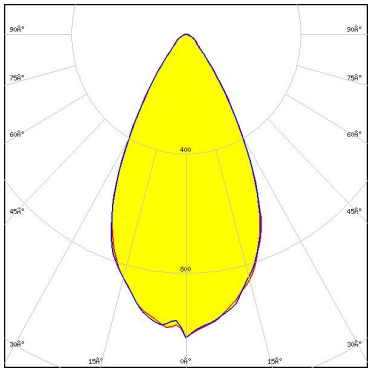
LED	LUXEON 3535L
FWHM / FWTM	49.0° / 73.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON 5050 HE
FWHM / FWTM	54.0° / 84.0°
Efficiency	89 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

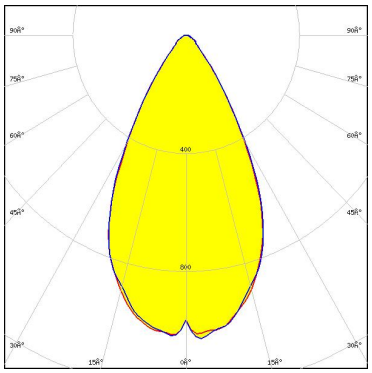


Protective plate, glass

Light distribution files

LUMILEDS

LED	LUXEON 5050 HE
FWHM / FWTM	56.0° / 84.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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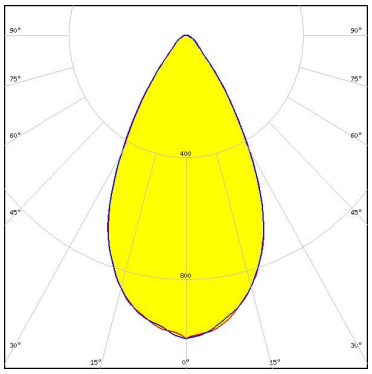
OPTICAL RESULTS (SIMULATED):

LUMILEDS

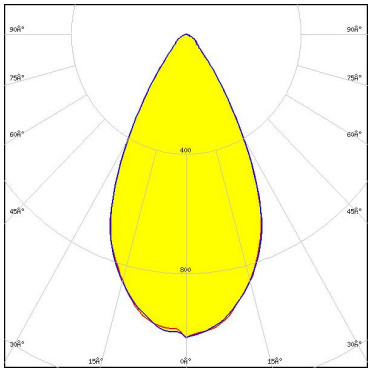
LED	LUXEON 5050 HE Plus
FWHM / FWTM	56.0° / 87.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON 5050 Square LES
FWHM / FWTM	54.0° / 84.0°
Efficiency	89 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

Light distribution files

LUMILEDS

LED	LUXEON A
FWHM / FWTM	52.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

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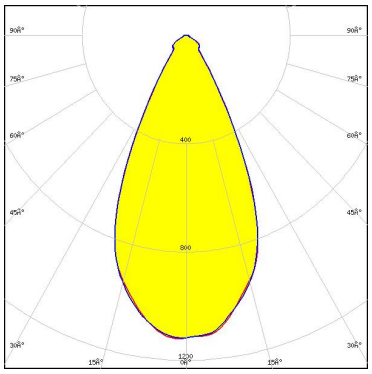
OPTICAL RESULTS (SIMULATED):

LUMILEDS

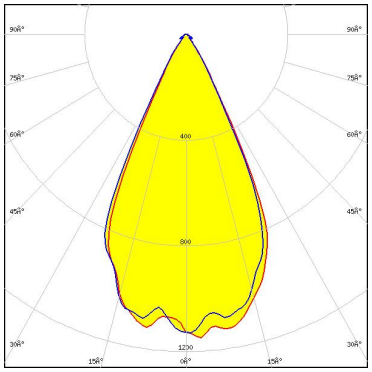
LED	LUXEON C
FWHM / FWTM	50.0° / 75.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

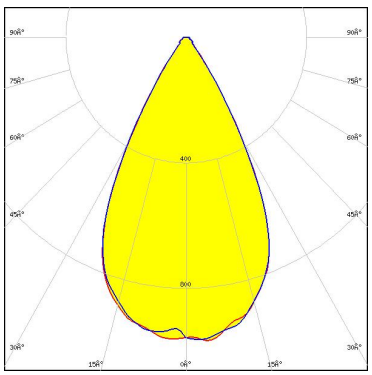
LED	LUXEON H50-2
FWHM / FWTM	52.0° / 68.0°
Efficiency	91 %
Peak intensity	4.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON HL2X
FWHM / FWTM	56.0° / 76.0°
Efficiency	93 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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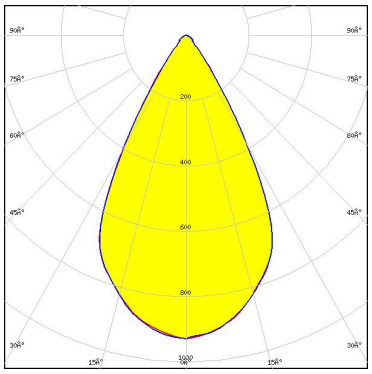
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON HL2X-D
FWHM / FWTM	58.0° / 80.0°
Efficiency	88 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

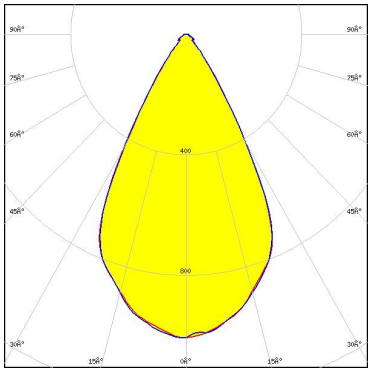


Protective plate, glass

Light distribution files

LUMILEDS

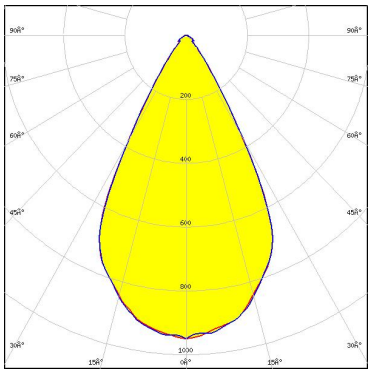
LED	LUXEON HL2X-D
FWHM / FWTM	58.0° / 78.0°
Efficiency	96 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON HL2X-E
FWHM / FWTM	56.0° / 78.0°
Efficiency	89 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



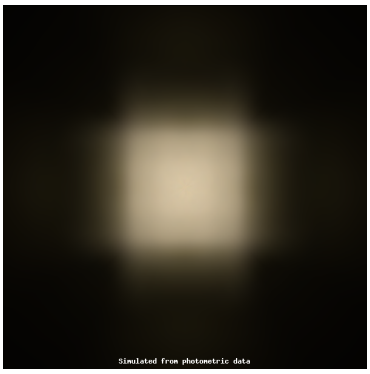
Protective plate, glass

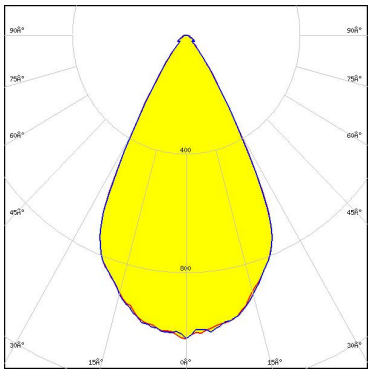
Light distribution files

OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON HL2X-E
FWHM / FWTM	56.0° / 78.0 + 77.0°
Efficiency	96 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

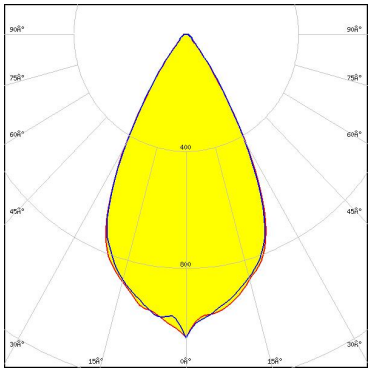




Light distribution files

LUMILEDS

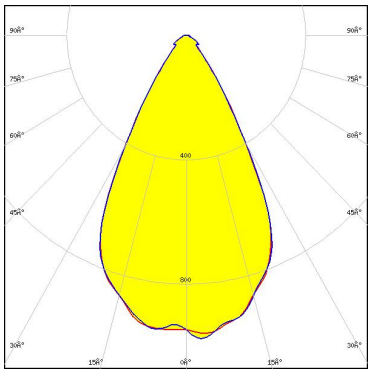
LED	LUXEON HL2X-P
FWHM / FWTM	56.0° / 80.0°
Efficiency	95 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON HL4X
FWHM / FWTM	58.0 + 56.0° / 82.0°
Efficiency	95 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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OPTICAL RESULTS (SIMULATED):

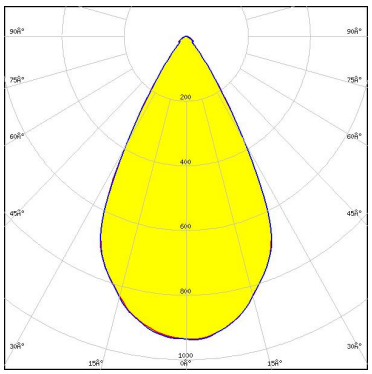
LUMILEDS

LED	LUXEON Rebel
FWHM / FWTM	52.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

LUMILEDS

LED	LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM	57.0 + 56.0° / 78.0°
Efficiency	87 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

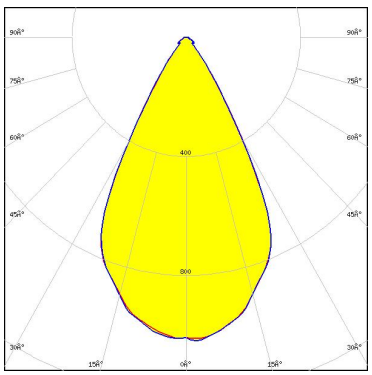


Protective plate, glass

Light distribution files

LUMILEDS

LED	LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM	56.0° / 77.0°
Efficiency	96 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



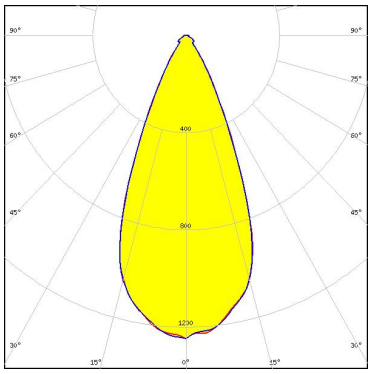
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

LUMINUS

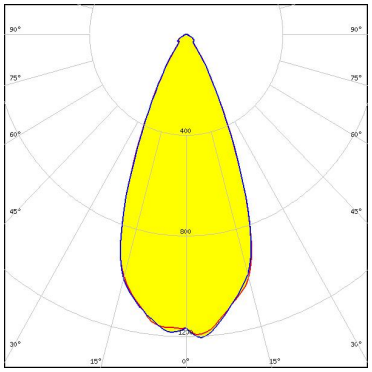
LED	SFT-12R-W-A
FWHM / FWTM	44.0° / 70.0°
Efficiency	97 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMINUS

LED	SFT-12R-W-A
FWHM / FWTM	44.0° / 70.0°
Efficiency	92 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

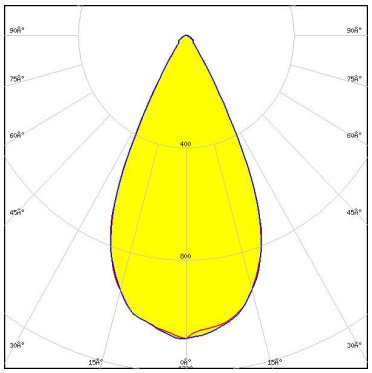


Protective plate, glass

Light distribution files

LUMINUS

LED	SFT-40 Gen2
FWHM / FWTM	52.0° / 72.0°
Efficiency	89 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

Light distribution files

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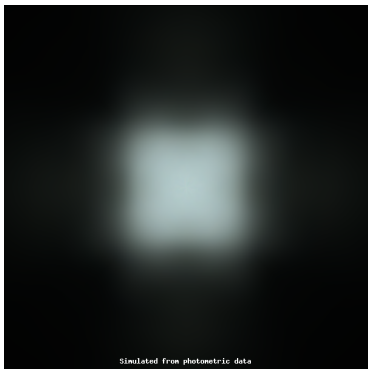
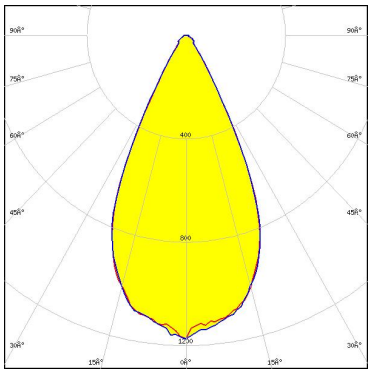
OPTICAL RESULTS (SIMULATED):

LUMINUS

LED	SFT-40 Gen2
FWHM / FWTM	52.0° / 72.0°
Efficiency	96 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

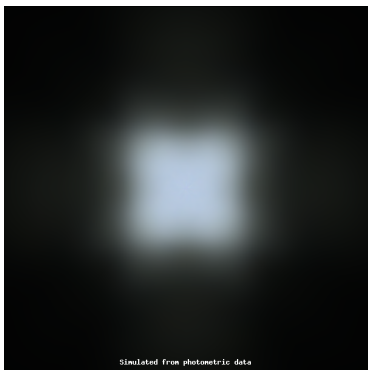


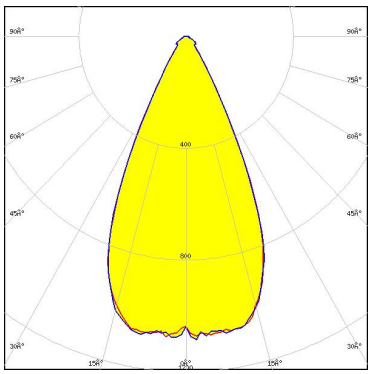


Light distribution files

LUMINUS

LED	SST-20 Gen2
FWHM / FWTM	50.0° / 72.0°
Efficiency	96 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

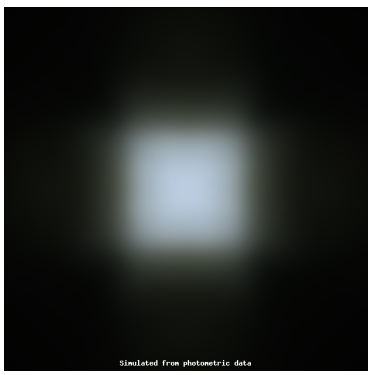


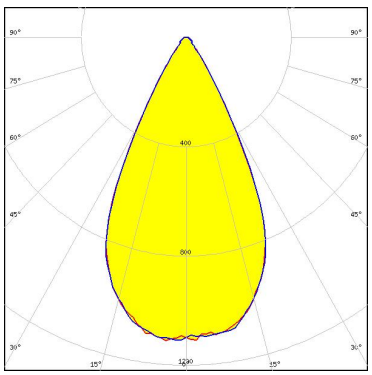


Light distribution files

LUMINUS

LED	SST-20F-W
FWHM / FWTM	54.0° / 74.0°
Efficiency	96 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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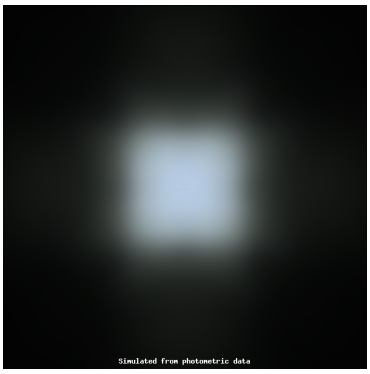
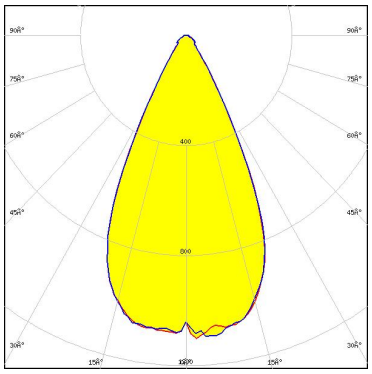
OPTICAL RESULTS (SIMULATED):

LUMINUS

LED	SST-25-W
FWHM / FWTM	52.0° / 74.0°
Efficiency	96 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

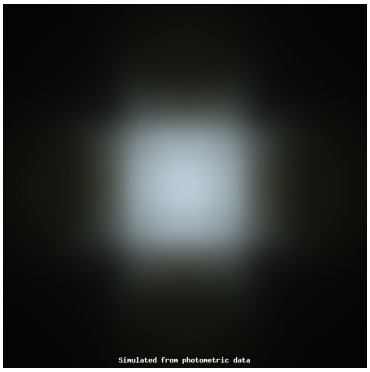


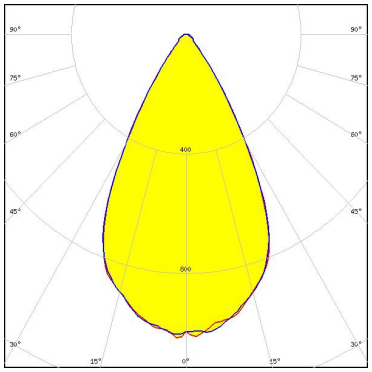


Light distribution files

LUMINUS

LED	SST-36F-W
FWHM / FWTM	56.0° / 80.0°
Efficiency	96 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

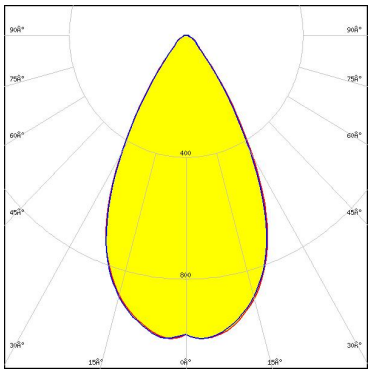




Light distribution files

NICHIA

LED	NFMW48xA
FWHM / FWTM	57.0° / 86.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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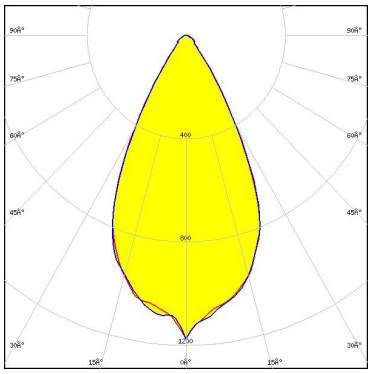
OPTICAL RESULTS (SIMULATED):

NICHIA

LED	NV4WB35AM
FWHM / FWTM	54.0° / 78.0°
Efficiency	95 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

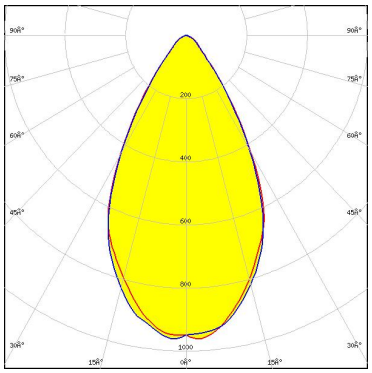
NICHIA

LED	NVSxx19A
FWHM / FWTM	50.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	57.0° / 88.0°
Efficiency	90 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

Light distribution files

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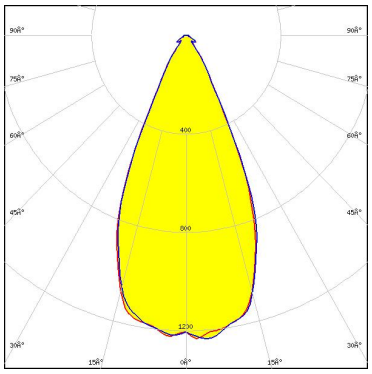
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

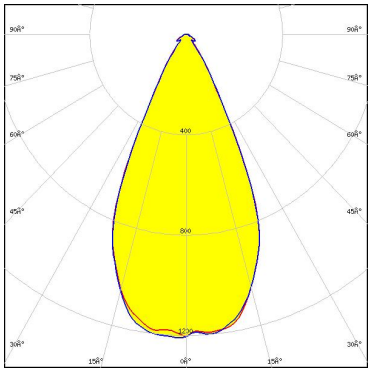
LED	OSCONIQ C 2424
FWHM / FWTM	48.0° / 70.0°
Efficiency	96 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ C 3030
FWHM / FWTM	50.0° / 71.0°
Efficiency	96 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

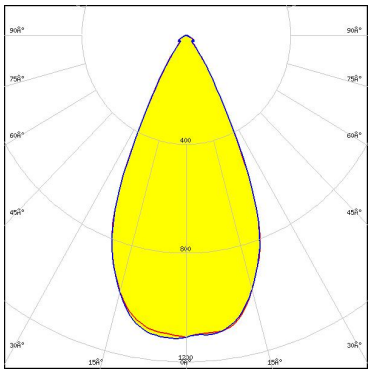


Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ C 3030
FWHM / FWTM	50.0° / 72.0°
Efficiency	88 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



Light distribution files

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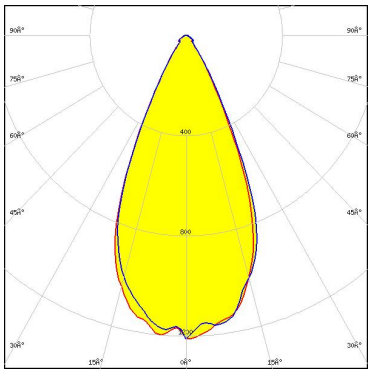
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

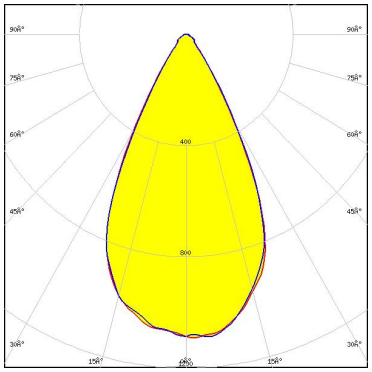
LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	48.0° / 70.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

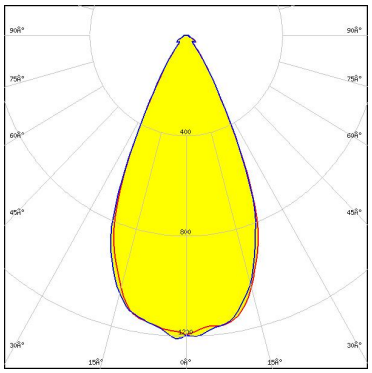
LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	54.0° / 77.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 Flat
FWHM / FWTM	50.0° / 73.0°
Efficiency	96 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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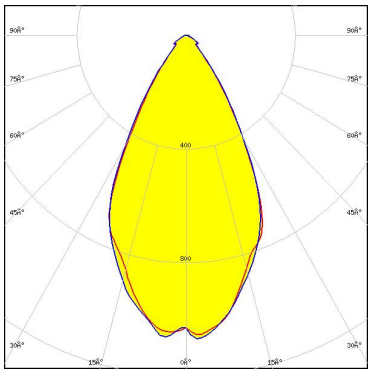
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

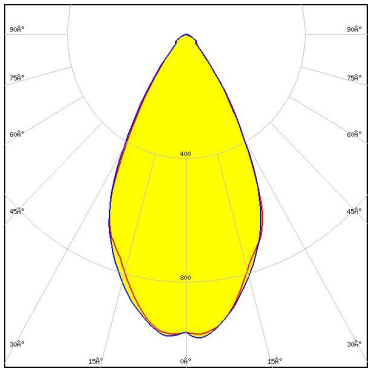
LED	OSCONIQ S 5050
FWHM / FWTM	56.0° / 83.0°
Efficiency	95 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ S 5050
FWHM / FWTM	56.0° / 84.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

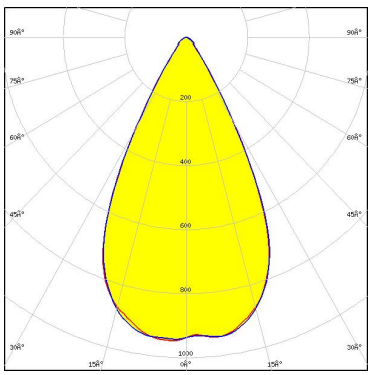


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	54.0° / 76.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

Light distribution files

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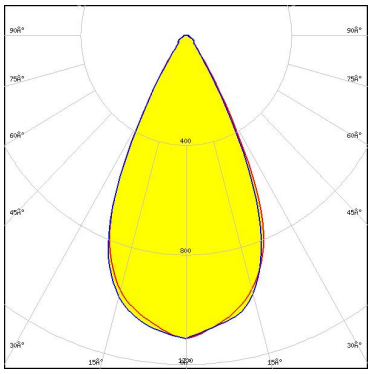
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

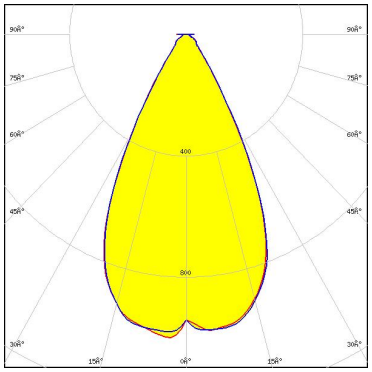
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	52.0° / 74.0°
Efficiency	96 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

PHILIPS

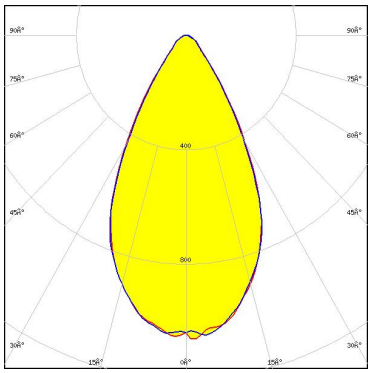
LED	Fortimo FastFlex LED 2x8 DAX G4
FWHM / FWTM	54.0° / 79.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LH502D
FWHM / FWTM	55.0° / 86.0°
Efficiency	97 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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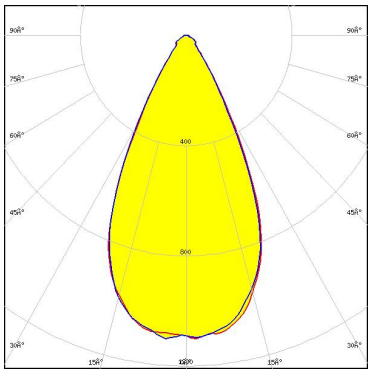
OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

LED	Acrich MJT 4040
FWHM / FWTM	52.0° / 77.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

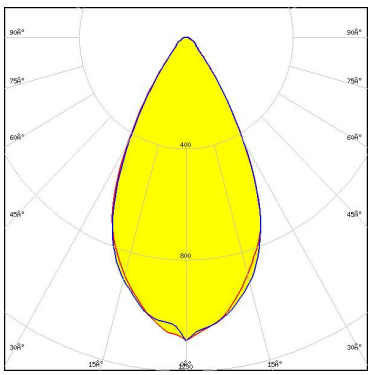
SEOUL SEMICONDUCTOR

LED	MJT 5050
FWHM / FWTM	57.0° / 88.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

SEOUL SEMICONDUCTOR

LED	SEOUL DC 5050 6V
FWHM / FWTM	54.0° / 84.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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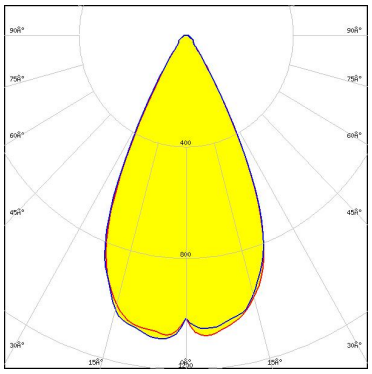
OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

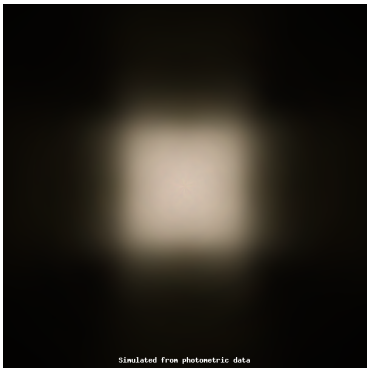
LED	Z5M1/Z5M2
FWHM / FWTM	52.0° / 73.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

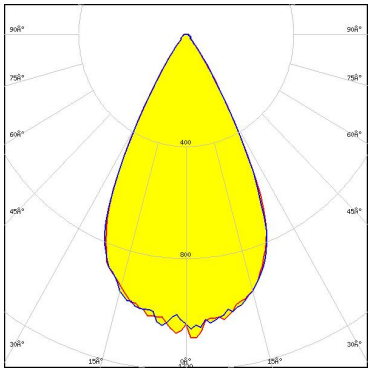


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M3-E1
FWHM / FWTM	54.0° / 74.0°
Efficiency	96 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



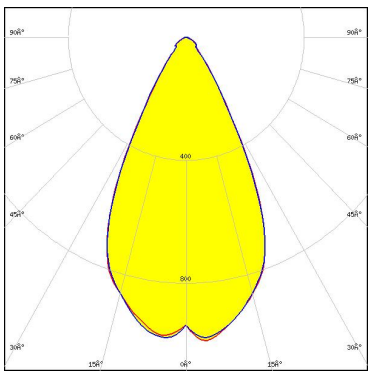


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M5
FWHM / FWTM	54.0° / 80.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



Light distribution files

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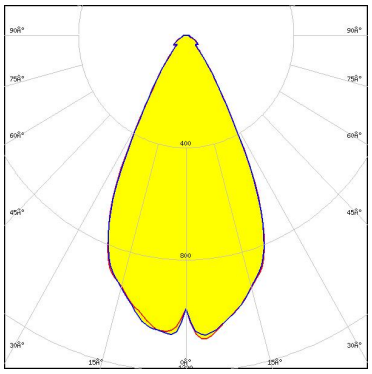
OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

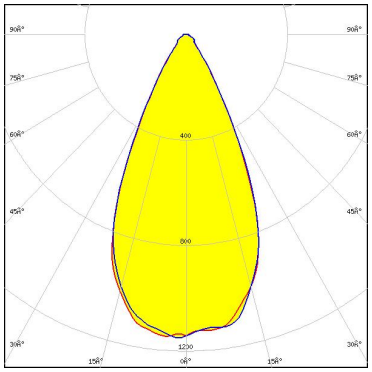
LED	Z5M5
FWHM / FWTM	54.0° / 78.0°
Efficiency	95 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y22T
FWHM / FWTM	50.0° / 76.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

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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