STRADA-2X2-VSM

IESNA Type V (square) beam for wide areas lighting such as car parks



SPECIFICATION:

Dimensions	50.0 x 50.0
Height	6.1 mm
Fastening	glue, pin, screw
ROHS compliant	yes

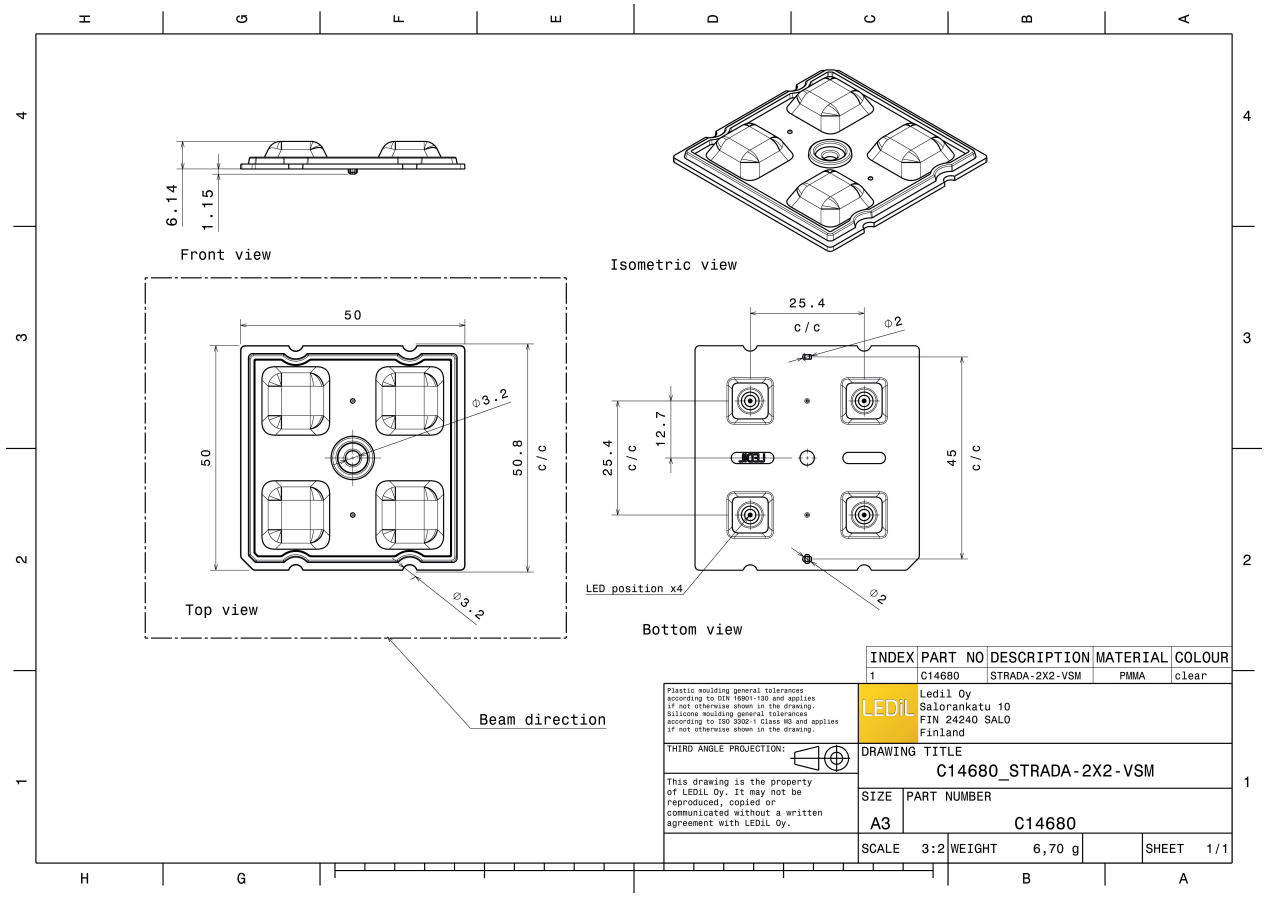
MATERIALS:

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

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C14680_STRADA-2X2-VSM » Box size: 480 x 280 x 300 mm	800	160	160	6.2

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INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C14680	STRADA-2X2-VSM	PMMA	clear

Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.

THIRD ANGLE PROJECTION:

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LEDiL
Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
C14680_STRADA-2X2-VSM

SIZE	PART NUMBER
A3	C14680

SCALE	WEIGHT	SHEET
3:2	6,70 g	1/1

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

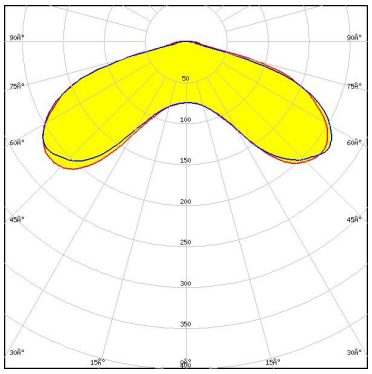
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

bridgelux

LED	Bridgelux SMD 5050
FWHM / FWTM	149.0° / 158.0°
Efficiency	94 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

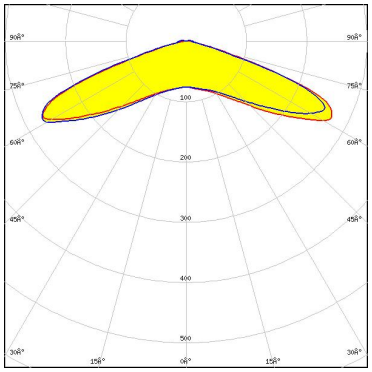




Light distribution files

COMET ELECTRONICS

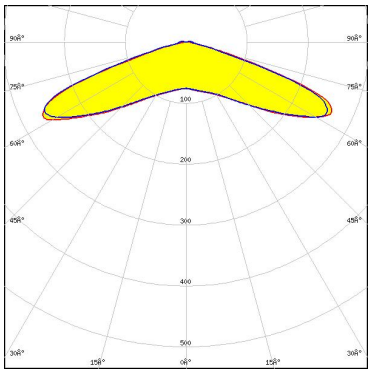
LED	QUICK FLUX XTP 2x4 xxx LS G5
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

COMET ELECTRONICS

LED	QUICK FLUX XTP 2x6 xxx LS G5
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



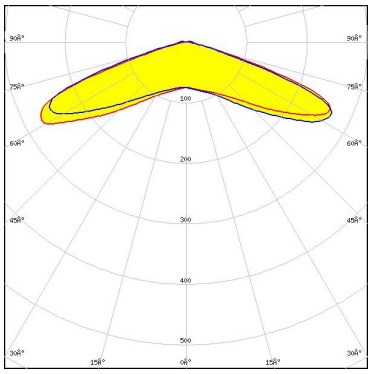
Light distribution files

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OPTICAL RESULTS (MEASURED):

COMET ELECTRONICS

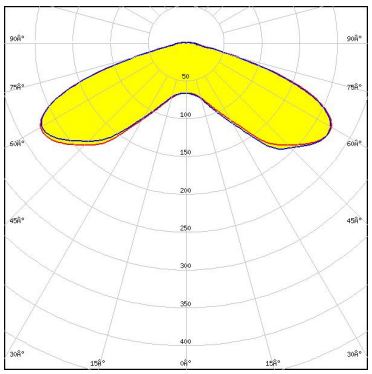
LED	QUICK FLUX XTP 2x8 xxx LS G5
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

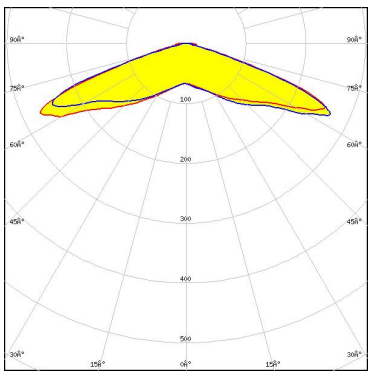
LED	J Series 5050C 6V E Class
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XD16
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

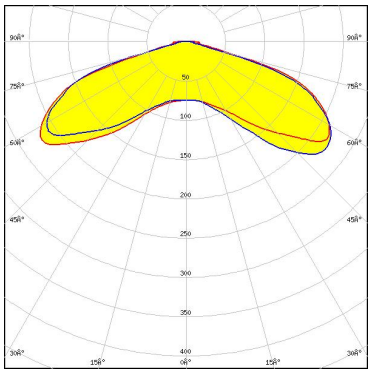
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OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XD16
FWHM / FWTM	149.0° / 159.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	4
Light colour/type	White
Required components:	

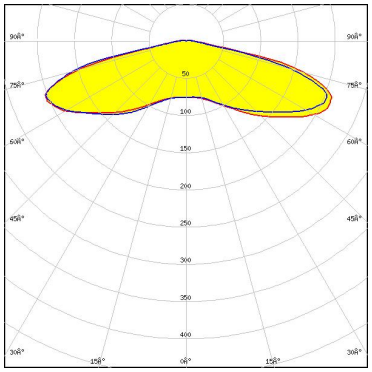




Light distribution files

CREE LEDs

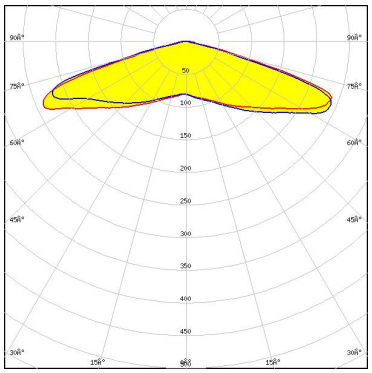
LED	XHP35 HD
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-G2
FWHM / FWTM	151.0° / 161.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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OPTICAL RESULTS (MEASURED):

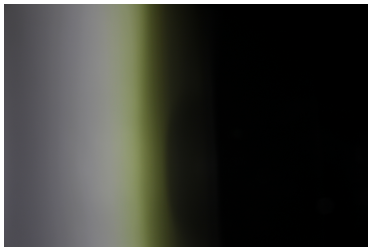
CREE LEDs

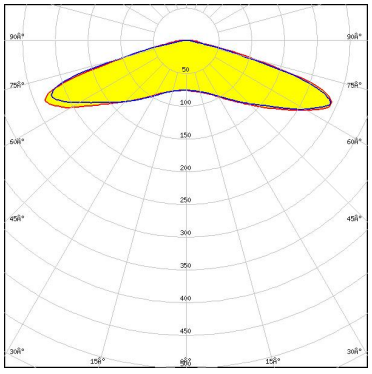
LED	XP-G2 HE
FWHM / FWTM	152.0° / 160.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

CREE LEDs

LED	XP-G3
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

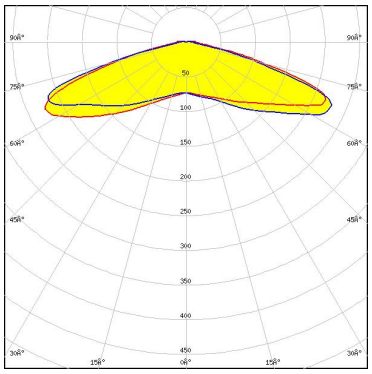




Light distribution files

CREE LEDs

LED	XT-E
FWHM / FWTM	152.0° / 170.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



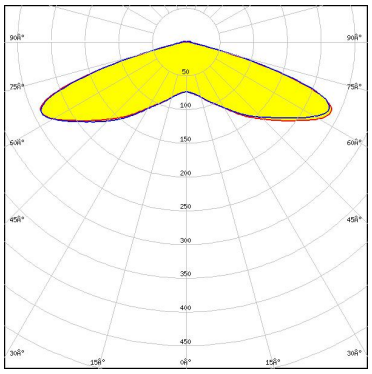
Light distribution files

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OPTICAL RESULTS (MEASURED):

inventronics

LED	PL-BRICK HP 3800 2x8 SSG
FWHM / FWTM	Asymmetric
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

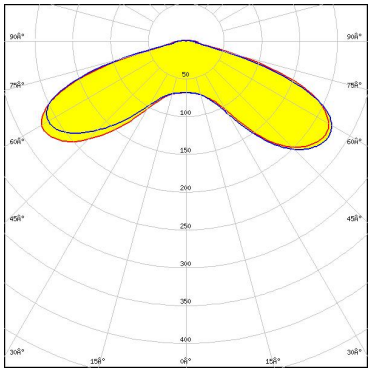


Light distribution files

LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

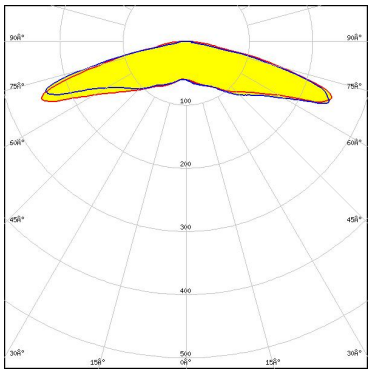




Light distribution files

LUMILEDS

LED	LUXEON C
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	PC Amber
Required components:	



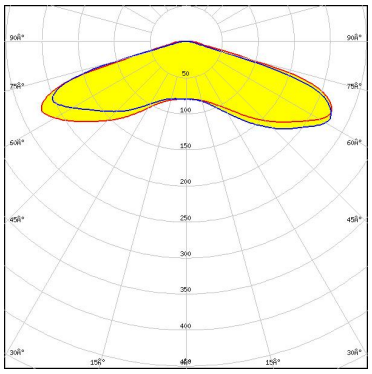
Light distribution files

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OPTICAL RESULTS (MEASURED):

LUMILEDS

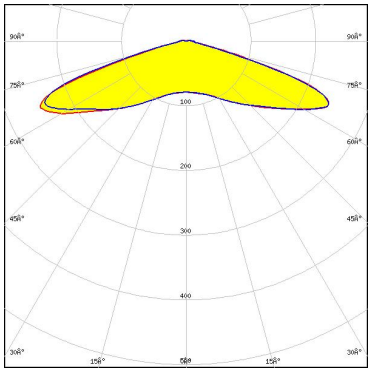
LED	LUXEON V
FWHM / FWTM	151.0° / 167.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

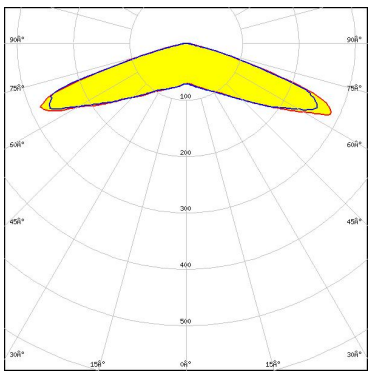
LED	LUXEON V2
FWHM / FWTM	147.0° / 158.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMINUS

LED	SST-10-B130
FWHM / FWTM	144.0° / 157.0°
Efficiency	97 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	Deep Red
Required components:	



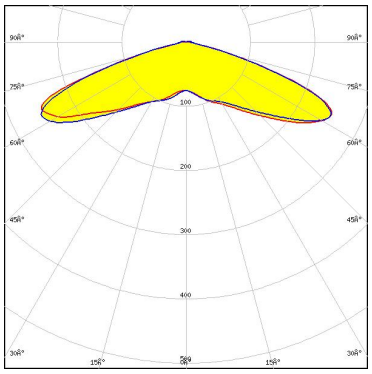
Light distribution files

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OPTICAL RESULTS (MEASURED):

MST Your solutions

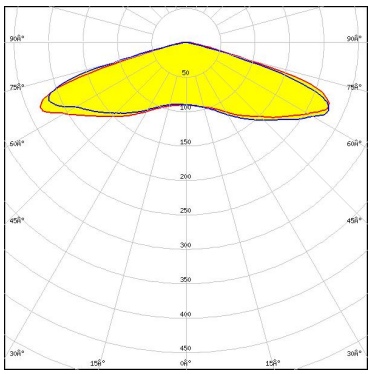
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1
FWHM / FWTM	Asymmetric
Efficiency	98 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

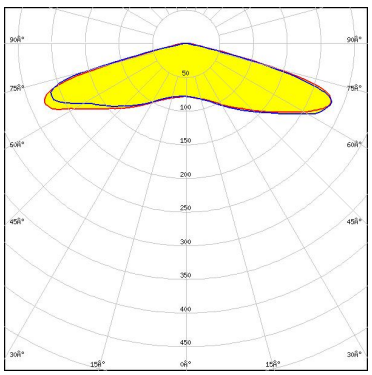
LED	NVSW219D
FWHM / FWTM	152.0° / 163.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NVSW219F
FWHM / FWTM	151.0° / 160.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



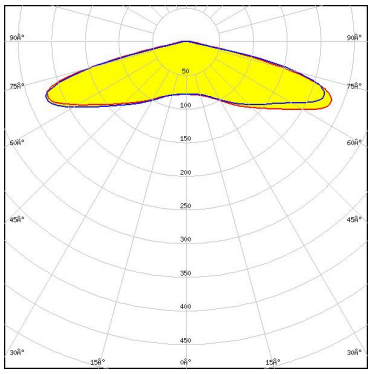
Light distribution files

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OPTICAL RESULTS (MEASURED):

NICHIA

LED	NVSW319B
FWHM / FWTM	156.0° / 164.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

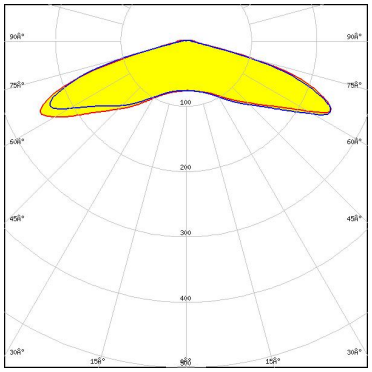


Light distribution files

NICHIA

LED	NVSW3x9A
FWHM / FWTM	152.0° / 161.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

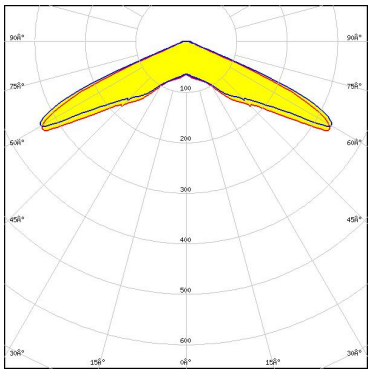




Light distribution files

NICHIA

LED	NVSxE21A
FWHM / FWTM	134.0° / 144.0°
Efficiency	94 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

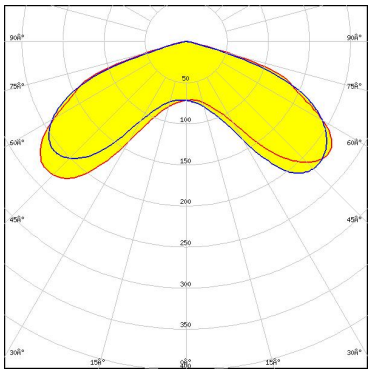
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OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	141.0° / 153.0°
Efficiency	88 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

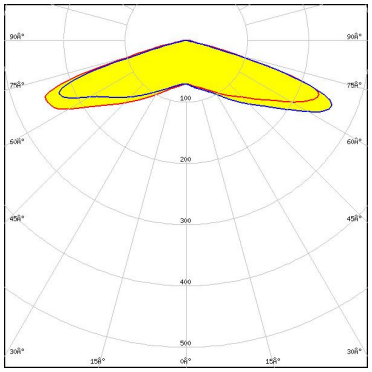
Protective plate, glass



Light distribution files

OSRAM
Opto Semiconductors

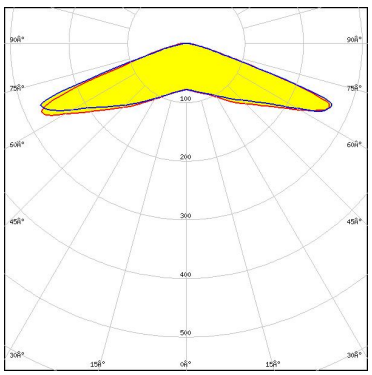
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	148.0° / 159.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square PC
FWHM / FWTM	143.0° / 160.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



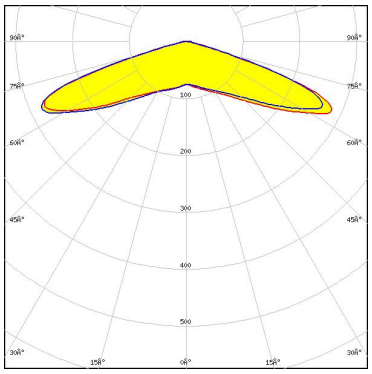
Light distribution files

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OPTICAL RESULTS (MEASURED):

PHILIPS

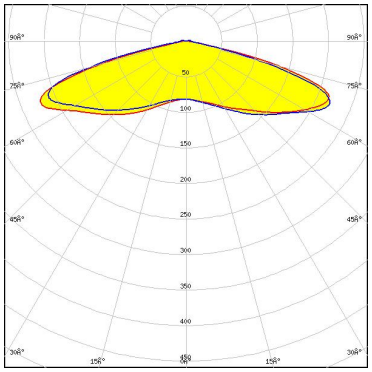
LED	Fortimo FastFlex LED 2x8 DA G4
FWHM / FWTM	146.0° / 156.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

PHILIPS

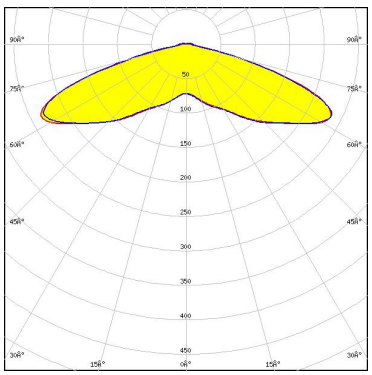
LED	Fortimo FastFlex LED 2x8 DA G4+
FWHM / FWTM	152.0° / 160.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 2x8 DA G5
FWHM / FWTM	146.0° / 156.0°
Efficiency	97 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



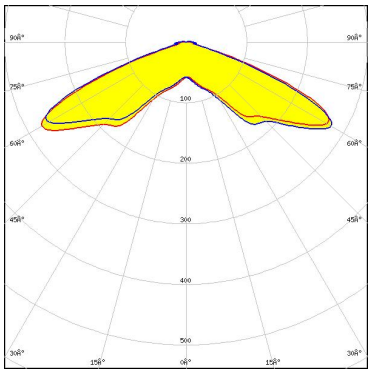
Light distribution files

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OPTICAL RESULTS (MEASURED):

SAMSUNG

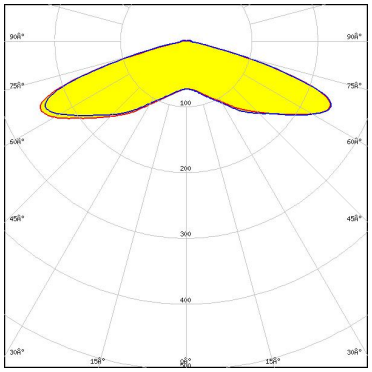
LED	HiLOM RC12 Z (LH181B)
FWHM / FWTM	138.0° / 148.0°
Efficiency	99 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

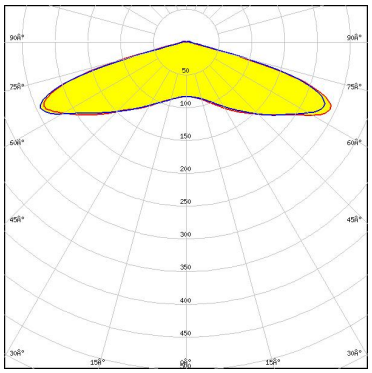
LED	HiLOM RH12 Z (LH351C)
FWHM / FWTM	147.0° / 156.0°
Efficiency	97 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	HiLOM RH16 (LH351C)
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



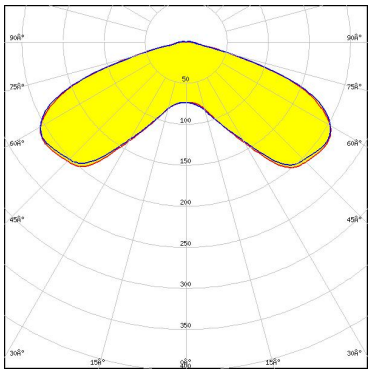
Light distribution files

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

OPTICAL RESULTS (MEASURED):

SAMSUNG

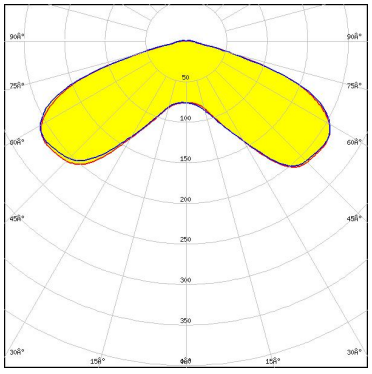
LED	HiLOM RM12 Z (LH502C)
FWHM / FWTM	144.0° / 157.0°
Efficiency	97 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

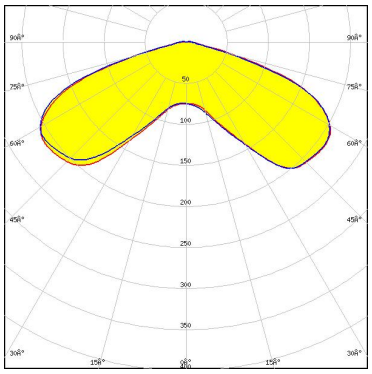
LED	HiLOM RM16 Z (LH502C)
FWHM / FWTM	144.0° / 156.0°
Efficiency	98 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	HiLOM RM8 Z (LH502C)
FWHM / FWTM	144.0° / 157.0°
Efficiency	97 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



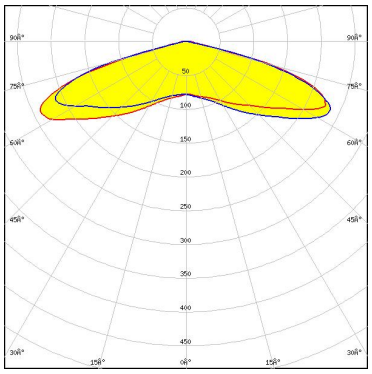
Light distribution files

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OPTICAL RESULTS (MEASURED):

SAMSUNG

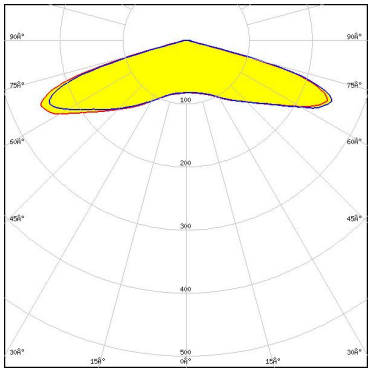
LED	LH351B
FWHM / FWTM	153.0° / 161.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

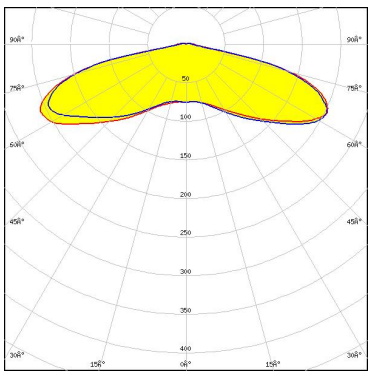
LED	LH351C
FWHM / FWTM	149.0° / 157.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LH351D
FWHM / FWTM	156.0° / 162.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



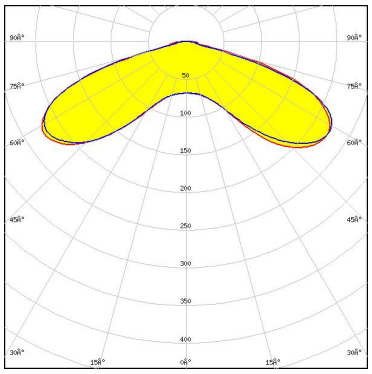
Light distribution files

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OPTICAL RESULTS (MEASURED):

SAMSUNG

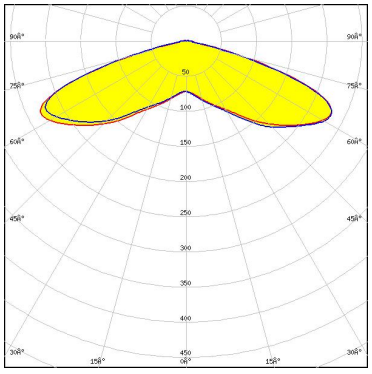
LED	LH508A
FWHM / FWTM	146.0° / 157.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEITEC Elektronik GmbH

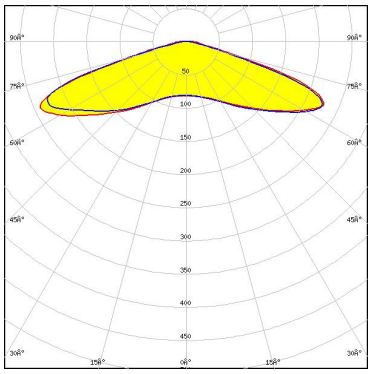
LED	LED-Pa-L15c2W11c2-xxx-C050-01
FWHM / FWTM	146.0° / 156.0°
Efficiency	98 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



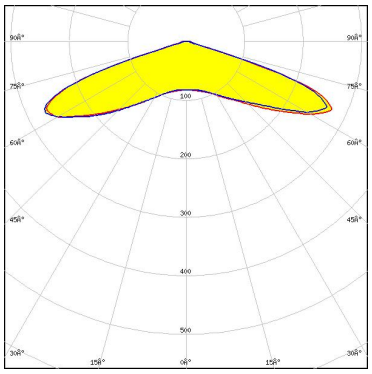
Light distribution files

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OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	144.0° / 149.0°
Efficiency	98 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

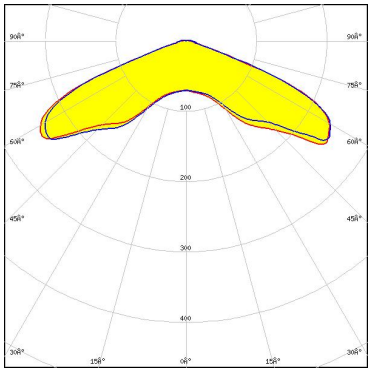


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y22
FWHM / FWTM	141.0° / 151.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

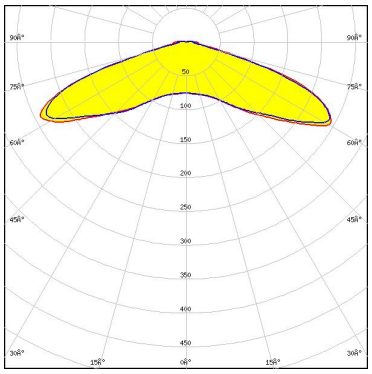




Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	146.0° / 161.0°
Efficiency	94 %
Peak intensity	0.5 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.

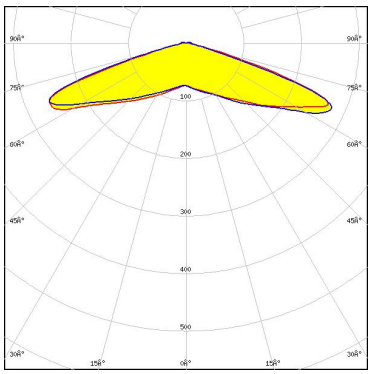
OPTICAL RESULTS (MEASURED):

TRIDONIC

LED	RLE 2x4 2000lm HP EXC2 OTD
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

TRIDONIC

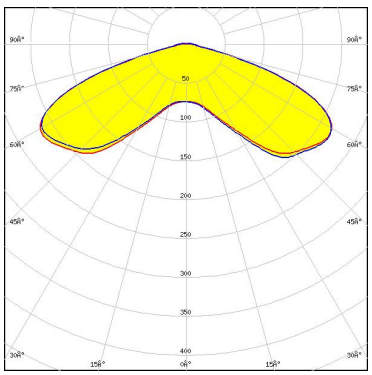
LED	RLE 2x8 4000lm HP EXC2 OTD
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

TRIDONIC

LED	RLE 2x8 6000lm HP HE EXC3 OTD
FWHM / FWTM	144.0° / 156.0°
Efficiency	98 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



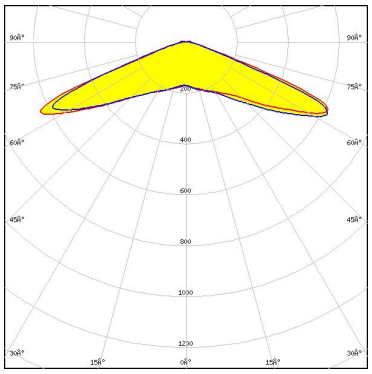
Light distribution files

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OPTICAL RESULTS (MEASURED):

TRIDONIC

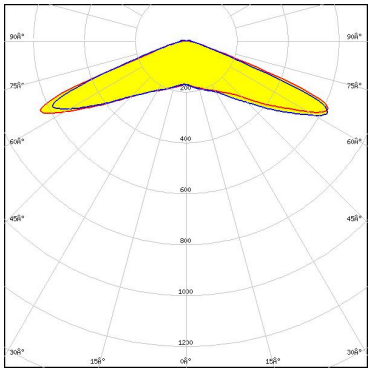
LED	RLE G1 49x121mm 2000lm xxx EXC OTD
FWHM / FWTM	139.0° / 155.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

TRIDONIC

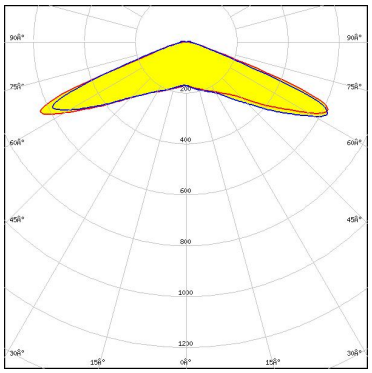
LED	RLE G1 49x133mm 2000lm xxx EXC OTD
FWHM / FWTM	139.0° / 155.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

TRIDONIC

LED	RLE G1 49x223mm 4000lm xxx EXC OTD
FWHM / FWTM	139.0° / 155.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



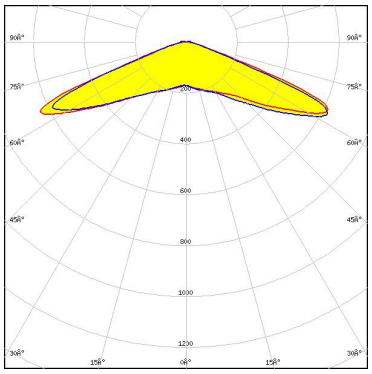
Light distribution files

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OPTICAL RESULTS (MEASURED):

TRIDONIC

LED	RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM / FWTM	139.0° / 155.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



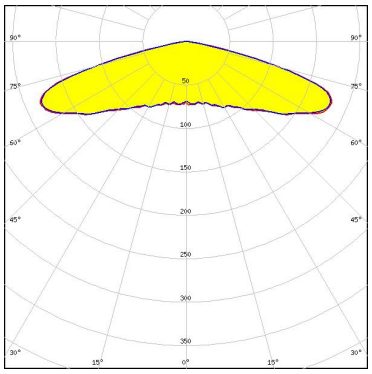
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

bridgelux

LED	SMD 3535 BXEX-XXX-11H-3B1
FWHM / FWTM	152.0° / 160.0°
Efficiency	75 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

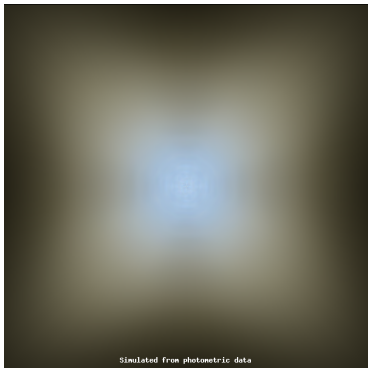


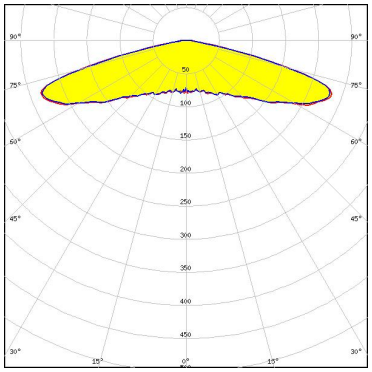
Protective plate, glass

Light distribution files

bridgelux

LED	SMD 3535 BXEX-XXX-11H-3B1
FWHM / FWTM	154.0° / 164.0 + 162.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

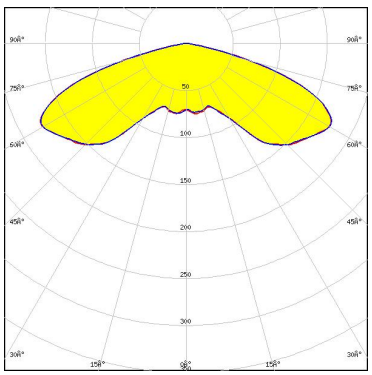




Light distribution files

CREE LEDs

LED	J Series 5050B 30V K Class
FWHM / FWTM	146.0° / 160.0°
Efficiency	74 %
Peak intensity	0.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

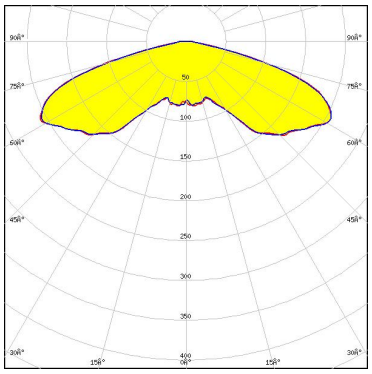
Light distribution files

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OPTICAL RESULTS (SIMULATED):

CREE LEDs

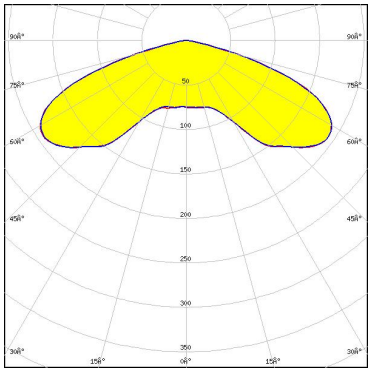
LED	J Series 5050B 30V K Class
FWHM / FWTM	150.0° / 162.0°
Efficiency	91 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	J Series 5050B 6V K Class
FWHM / FWTM	144.0° / 158.0°
Efficiency	80 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

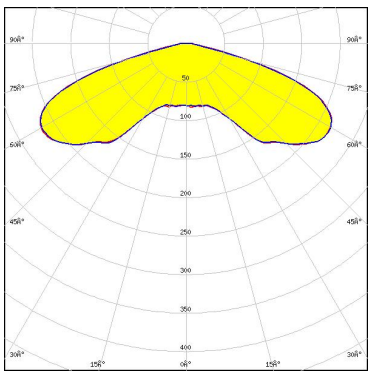


Protective plate, glass

Light distribution files

CREE LEDs

LED	J Series 5050B 6V K Class
FWHM / FWTM	148.0° / 160.0°
Efficiency	97 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



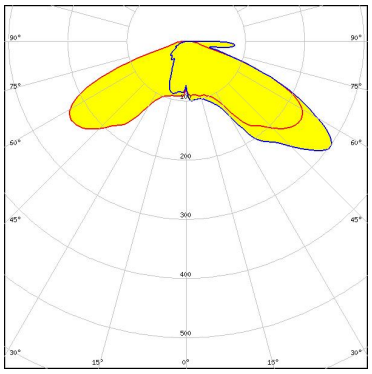
Light distribution files

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OPTICAL RESULTS (SIMULATED):

CREE LEDs

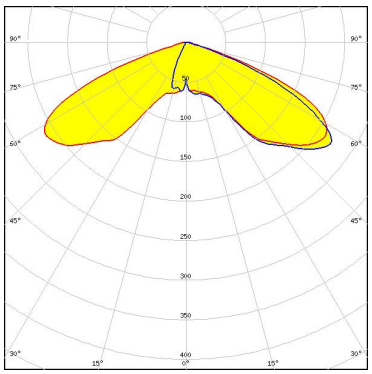
LED	J Series 5050C 6V E Class
FWHM / FWTM	Asymmetric
Efficiency	69 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17580_STRADA-2X2-SHD-WHT	



Light distribution files

CREE LEDs

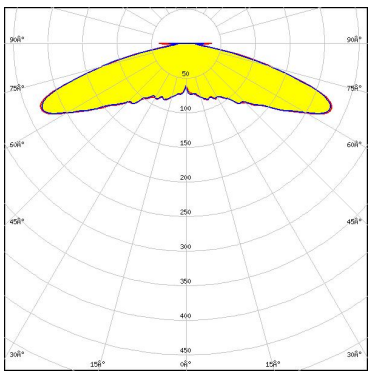
LED	J Series 5050C 6V E Class
FWHM / FWTM	Asymmetric
Efficiency	52 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17677_STRADA-2X2-SHD-BLK	



Light distribution files

CREE LEDs

LED	XB-D
FWHM / FWTM	151.0° / 180.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



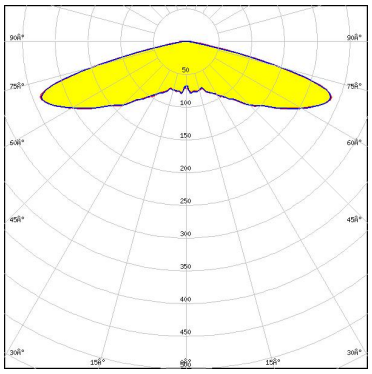
Light distribution files

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OPTICAL RESULTS (SIMULATED):

CREE LEDs

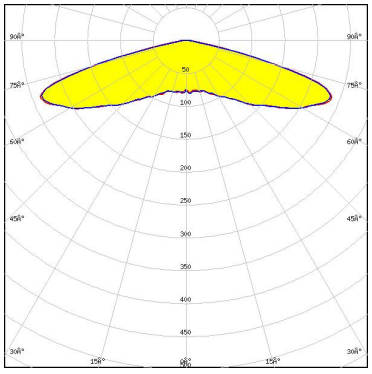
LED	XM-L
FWHM / FWTM	152.0° / 161.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

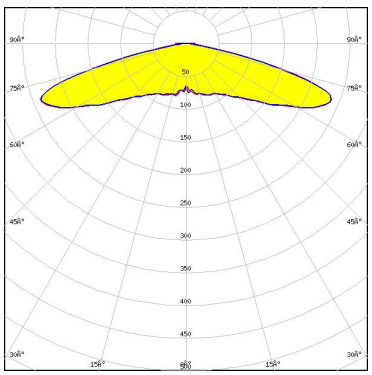
LED	XM-L2
FWHM / FWTM	152.0° / 160.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-G
FWHM / FWTM	152.0° / 163.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



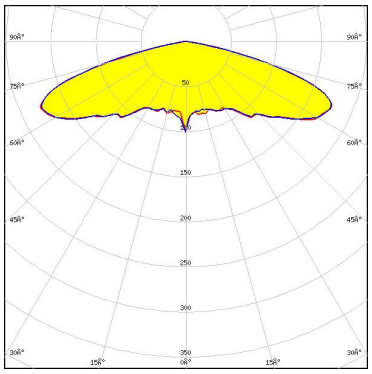
Light distribution files

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OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	XP-G3
FWHM / FWTM	150.0° / 161.0°
Efficiency	74 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

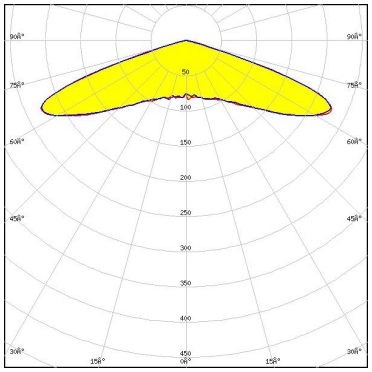


Protective plate, glass

Light distribution files

CREE LEDs

LED	XP-G4
FWHM / FWTM	142.0° / 150.0°
Efficiency	80 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

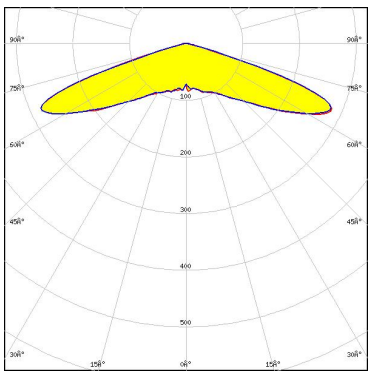


Protective plate, glass

Light distribution files

CREE LEDs

LED	XP-G4
FWHM / FWTM	144.0° / 150.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



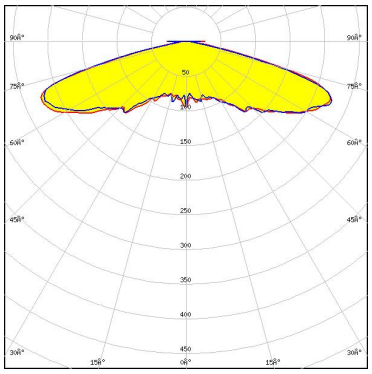
Light distribution files

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	151.0° / 161.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

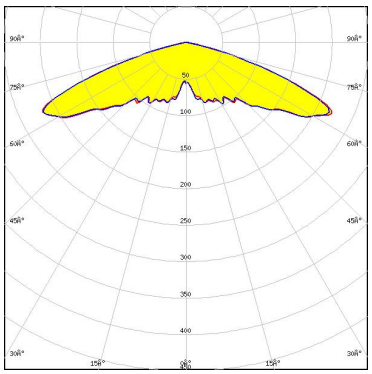


Light distribution files

CREE LEDs

LED	XP-P
FWHM / FWTM	144.0° / 156.0°
Efficiency	78 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

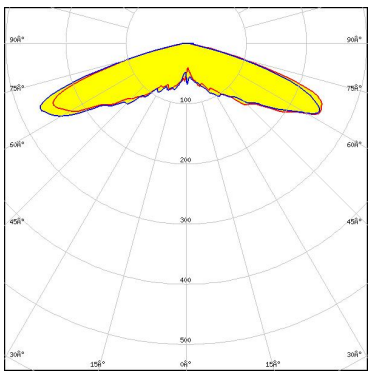
Protective plate, glass



Light distribution files

inventronics

LED	PrevaLED Brick HP 2x8
FWHM / FWTM	146.0° / 160.0°
Efficiency	93 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



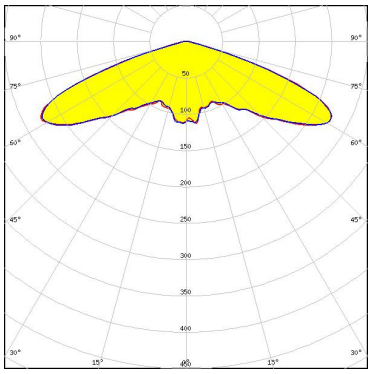
Light distribution files

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OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON 3030 2D (Round LES)
FWHM / FWTM	142.0° / 154.0°
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

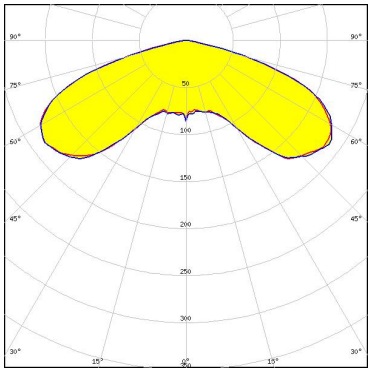


Protective plate, glass

Light distribution files

LUMILEDS

LED	LUXEON 5050 HE Plus
FWHM / FWTM	146.0° / 158.0°
Efficiency	80 %
Peak intensity	0.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

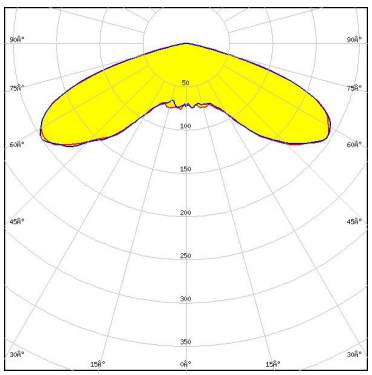


Protective plate, glass

Light distribution files

LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	Asymmetric
Efficiency	81 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

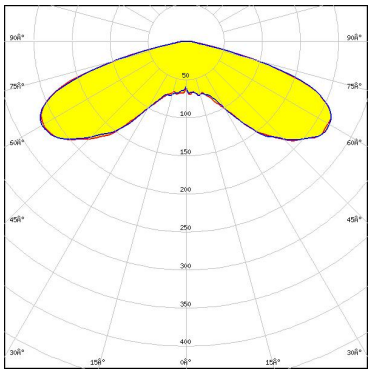
Light distribution files

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OPTICAL RESULTS (SIMULATED):

LUMILEDS

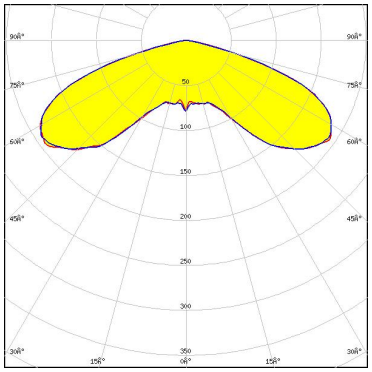
LED	LUXEON 5050 Square LES
FWHM / FWTM	148.0° / 161.0°
Efficiency	96 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON 5050 Square LES
FWHM / FWTM	Asymmetric
Efficiency	80 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

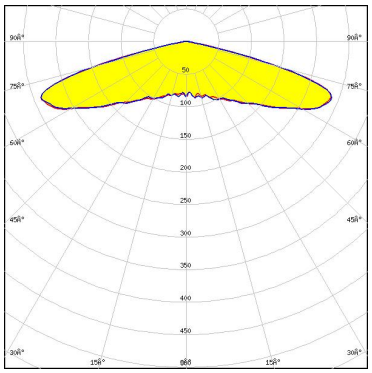


Protective plate, glass

Light distribution files

LUMILEDS

LED	LUXEON HL2X
FWHM / FWTM	150.0° / 158.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



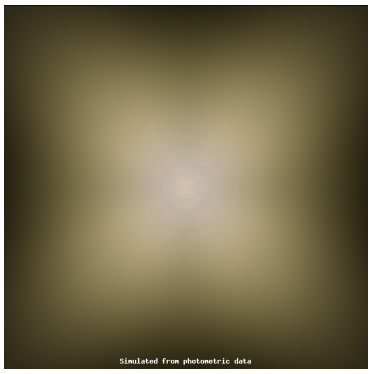
Light distribution files

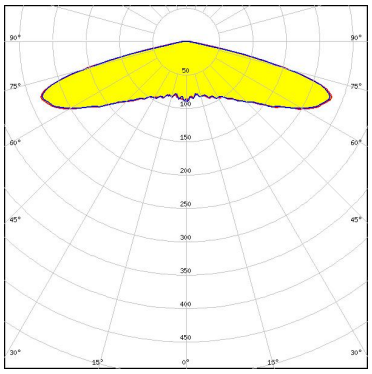
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OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON HL2X-V
FWHM / FWTM	152.0° / 160.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

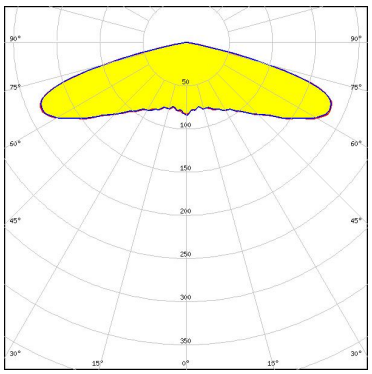




Light distribution files

LUMILEDS

LED	LUXEON HL2X-V
FWHM / FWTM	150.0° / 158.0°
Efficiency	76 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

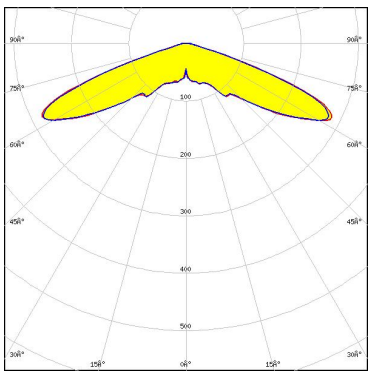


Protective plate, glass

Light distribution files

LUMILEDS

LED	LUXEON HL2Z
FWHM / FWTM	142.0° / 152.0°
Efficiency	95 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



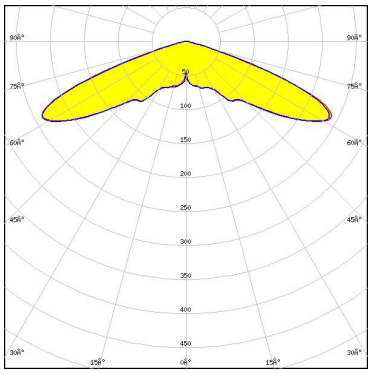
Light distribution files

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OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON HL2Z
FWHM / FWTM	140.0° / 152.0°
Efficiency	80 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

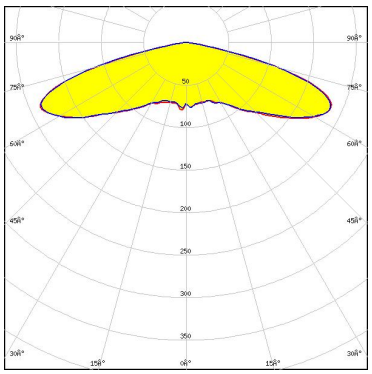


Protective plate, glass

Light distribution files

LUMILEDS

LED	LUXEON HL4X
FWHM / FWTM	152.0° / 162.0°
Efficiency	75 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

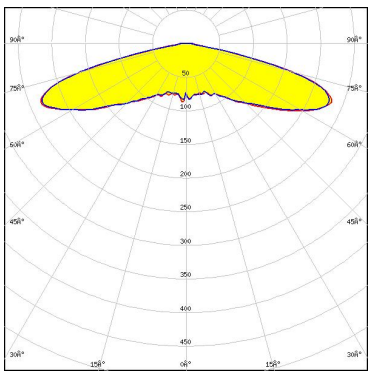


Protective plate, glass

Light distribution files

LUMILEDS

LED	LUXEON HL4X
FWHM / FWTM	154.0° / 162.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



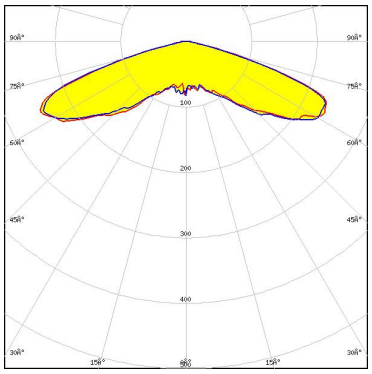
Light distribution files

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OPTICAL RESULTS (SIMULATED):

LUMILEDS

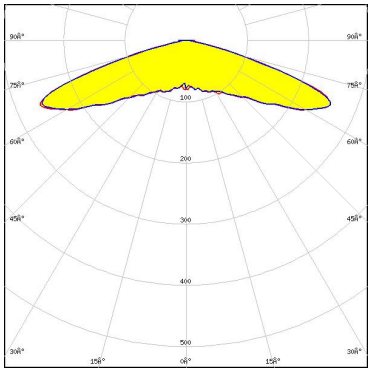
LED	LUXEON MZ
FWHM / FWTM	146.0° / 157.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

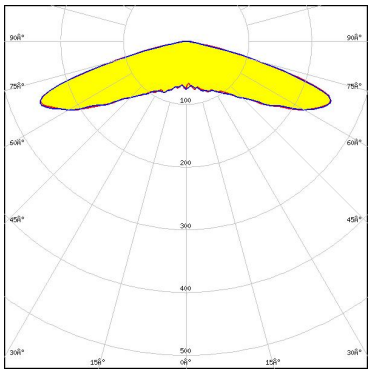
LED	LUXEON Rebel ES
FWHM / FWTM	146.0° / 158.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON T
FWHM / FWTM	150.0° / 160.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



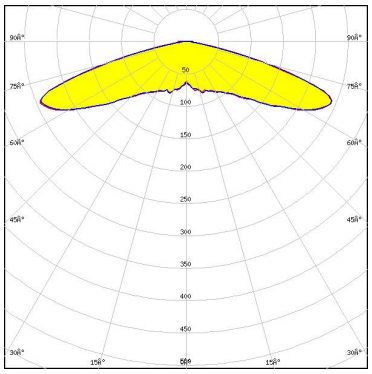
Light distribution files

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OPTICAL RESULTS (SIMULATED):

LUMILEDS

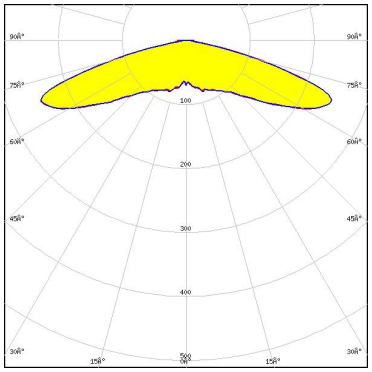
LED	LUXEON TX
FWHM / FWTM	150.0° / 160.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON TX
FWHM / FWTM	150.0° / 161.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

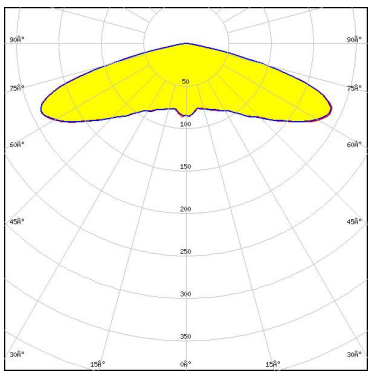


Light distribution files

LUMILEDS

LED	LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM	150.0° / 160.0°
Efficiency	76 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



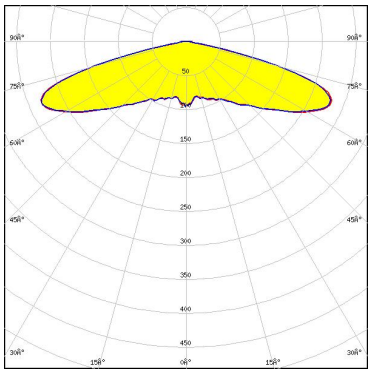
Light distribution files

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OPTICAL RESULTS (SIMULATED):

LUMILEDS

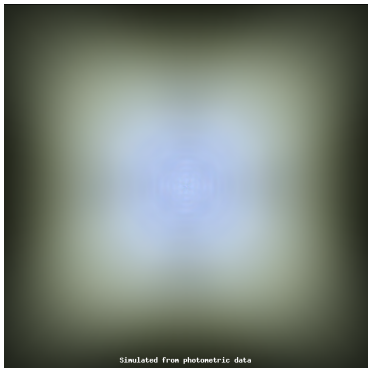
LED	LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM	152.0° / 160.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

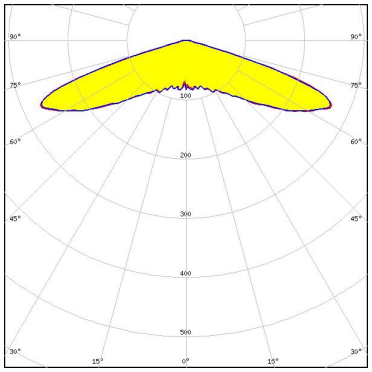


Light distribution files

LUMINUS

LED	SST-20F-W
FWHM / FWTM	144.0° / 152.0°
Efficiency	97 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

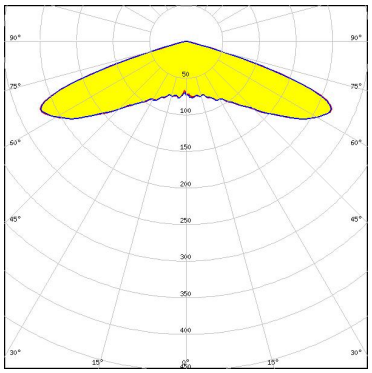




Light distribution files

LUMINUS

LED	SST-20F-W
FWHM / FWTM	144.0° / 152.0°
Efficiency	80 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

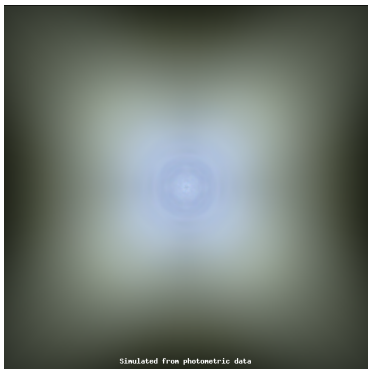
Light distribution files

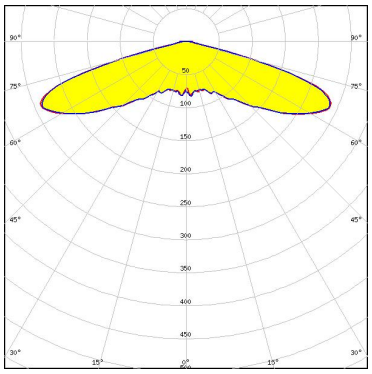
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

LUMINUS

LED	SST-36F-W
FWHM / FWTM	148.0° / 156.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



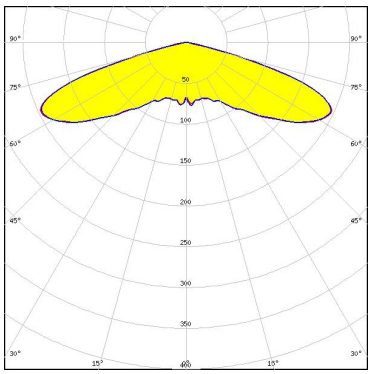


Light distribution files

LUMINUS

LED	SST-36F-W
FWHM / FWTM	148.0° / 156.0°
Efficiency	77 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

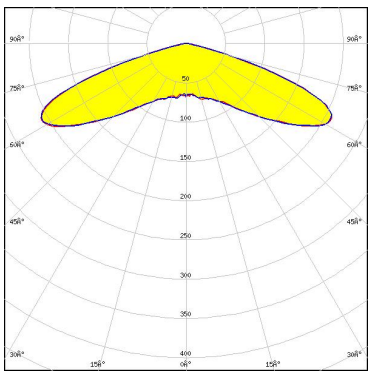


Light distribution files

NICHIA

LED	NF2x757G
FWHM / FWTM	144.0° / 155.0°
Efficiency	79 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



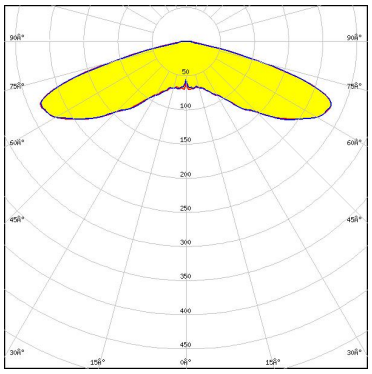
Light distribution files

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OPTICAL RESULTS (SIMULATED):

NICHIA

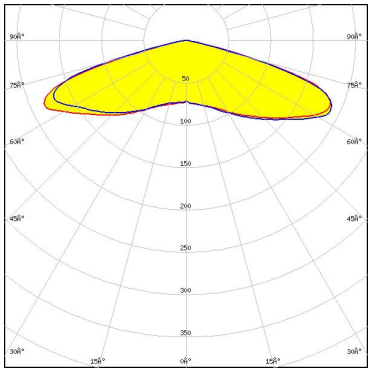
LED	NV4WB35AM
FWHM / FWTM	150.0° / 160.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NVSW219F
FWHM / FWTM	Asymmetric
Efficiency	77 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

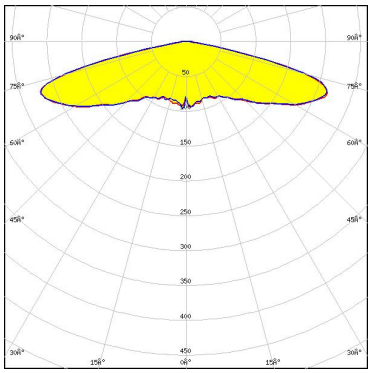


Protective plate, glass

Light distribution files

NICHIA

LED	NVSW519A
FWHM / FWTM	154.0° / 163.0 + 162.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

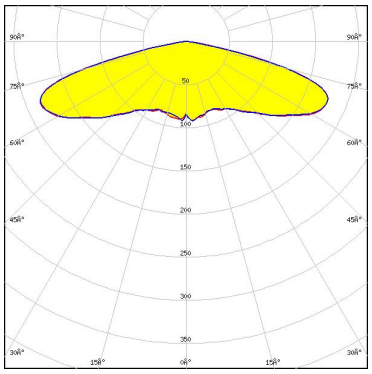
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OPTICAL RESULTS (SIMULATED):

NICHIA

LED	NVSW519A
FWHM / FWTM	152.0° / 162.0°
Efficiency	77 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

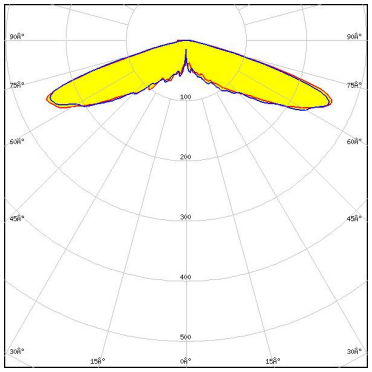
Protective plate, glass



Light distribution files

NICHIA

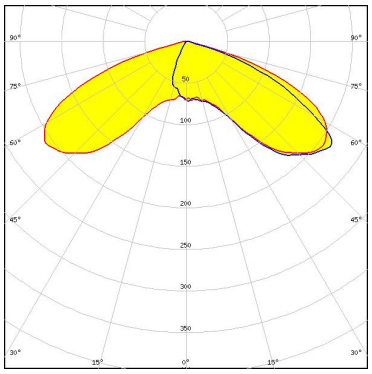
LED	NVSxx19B/NVSxx19C
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	Asymmetric
Efficiency	52 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17677_STRADA-2X2-SHD-BLK	



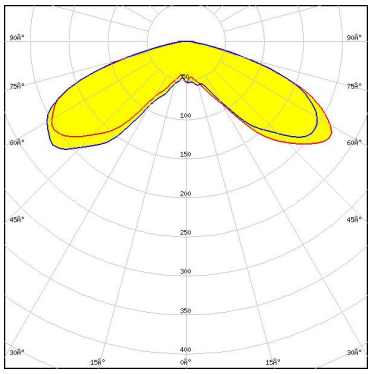
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

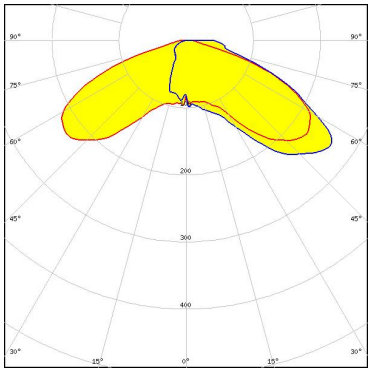
LED	Duris S8
FWHM / FWTM	144.0° / 160.0 + 162.0°
Efficiency	93 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

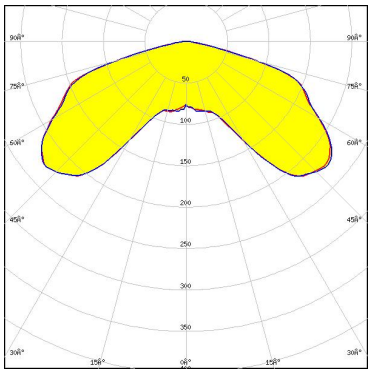
LED	Duris S8
FWHM / FWTM	Asymmetric
Efficiency	67 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17580_STRADA-2X2-SHD-WHT	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	146.0° / 160.0°
Efficiency	95 %
Peak intensity	0.3 cd/lm
LEDs/each optic	4
Light colour/type	White
Required components:	



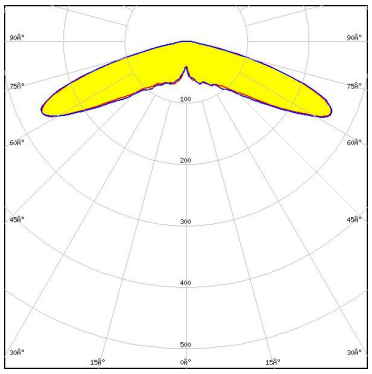
Light distribution files

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OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

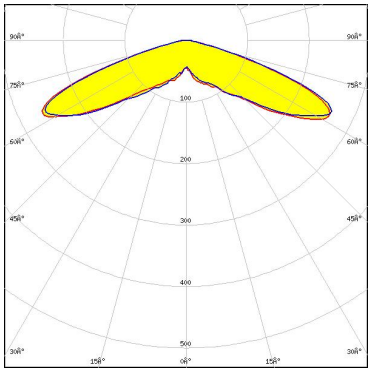
LED	OSCONIQ P 3030
FWHM / FWTM	148.0° / 162.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

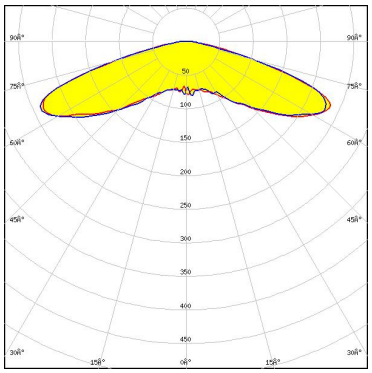
LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	144.0° / 158.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	148.0° / 164.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



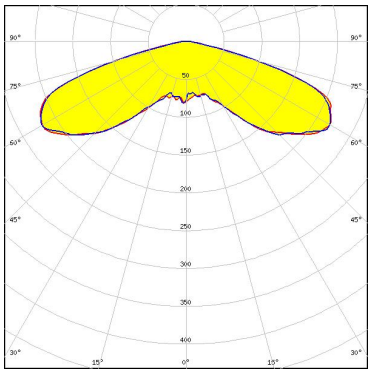
Light distribution files

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OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

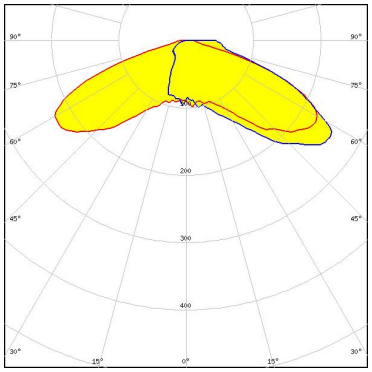
LED	OSCONIQ S 5050 SFC
FWHM / FWTM	148.0° / 160.0°
Efficiency	95 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

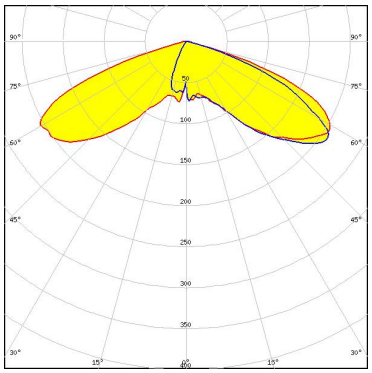
LED	OSCONIQ S 5050 SFC
FWHM / FWTM	Asymmetric
Efficiency	66 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17580_STRADA-2X2-SHD-WHT	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ S 5050 SFC
FWHM / FWTM	Asymmetric
Efficiency	51 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17677_STRADA-2X2-SHD-BLK	



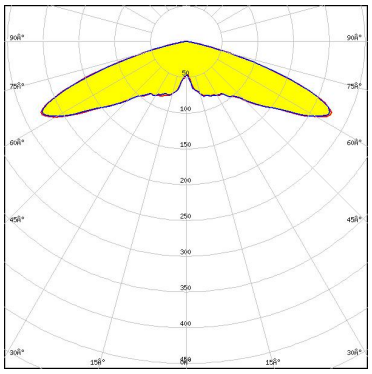
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED	OSLON Pure 1414
FWHM / FWTM	144.0° / 156.0°
Efficiency	78 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

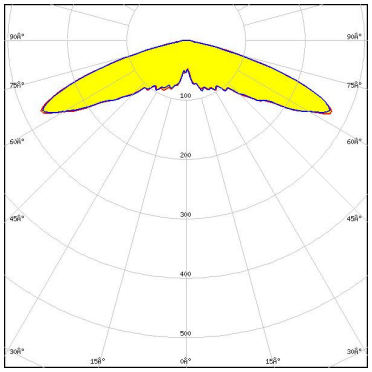


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

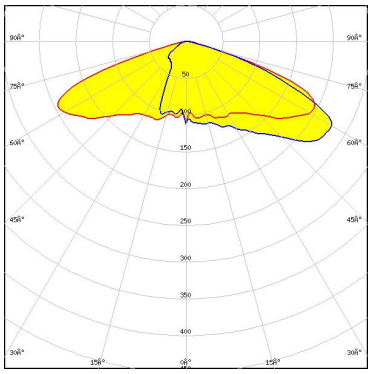
LED	OSLON Pure 1414
FWHM / FWTM	146.0° / 158.0°
Efficiency	97 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	Asymmetric
Efficiency	57 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17580_STRADA-2X2-SHD-WHT	



Light distribution files

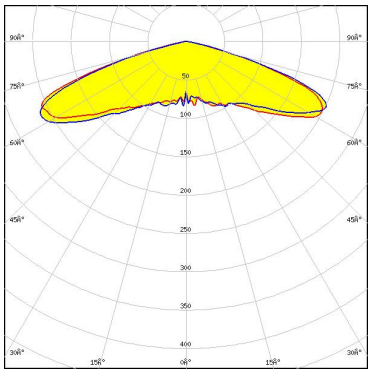
Protective plate, glass

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OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	146.0° / 156.0°
Efficiency	79 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

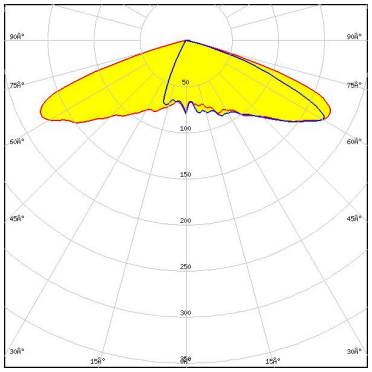


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	Asymmetric
Efficiency	42 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17677_STRADA-2X2-SHD-BLK	

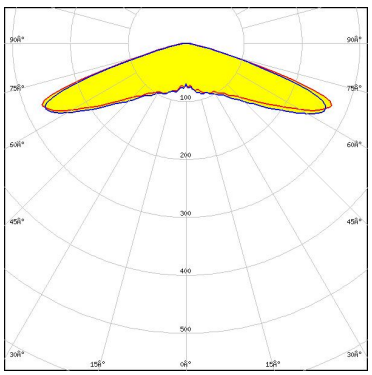


Light distribution files

Protective plate, glass

OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	144.0° / 156.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



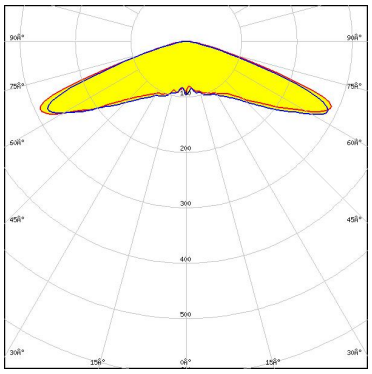
Light distribution files

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OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

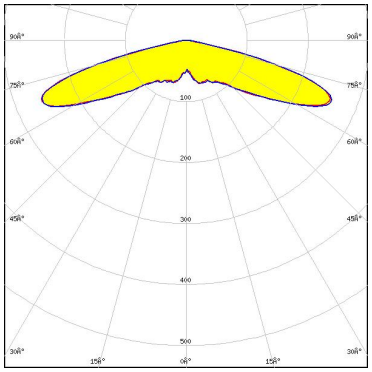
LED	OSLON Square PC
FWHM / FWTM	144.0° / 162.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

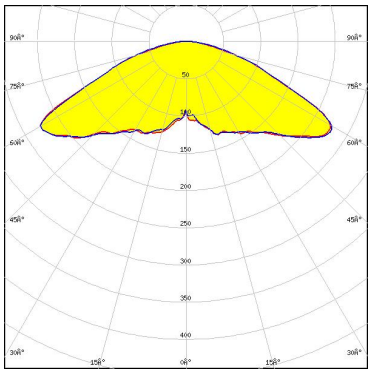
LED	OSLON SSL 150
FWHM / FWTM	152.0° / 160.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	138.0° / 164.0°
Efficiency	95 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



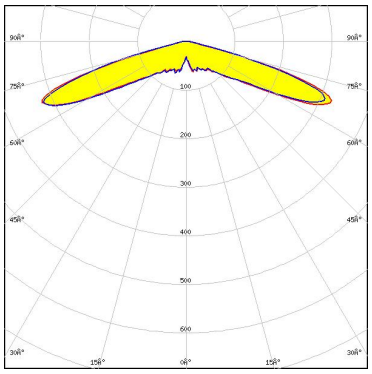
Light distribution files

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OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

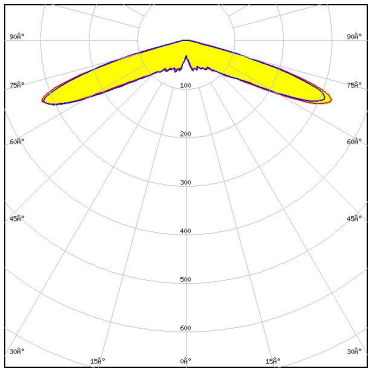
LED	SFH 4714A
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

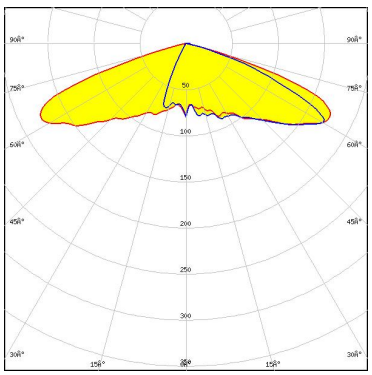
LED	SFH 4714A
FWHM / FWTM	148.0° / 156.0°
Efficiency	96 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 2x2 DA G5
FWHM / FWTM	Asymmetric
Efficiency	42 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17677_STRADA-2X2-SHD-BLK	



Light distribution files

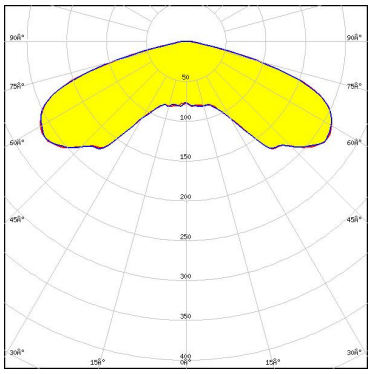
Protective plate, glass

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

OPTICAL RESULTS (SIMULATED):

PHILIPS

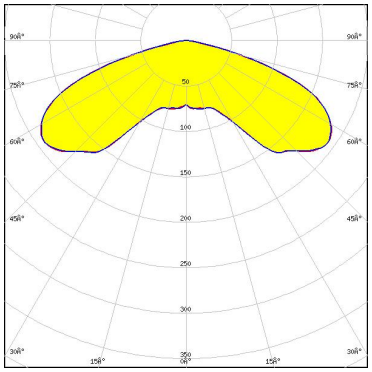
LED	Fortimo FastFlex LED 2x8 DA (U)HE
FWHM / FWTM	148.0° / 162.0 + 160.0°
Efficiency	97 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 2x8 DA (U)HE
FWHM / FWTM	144.0° / 158.0°
Efficiency	79 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

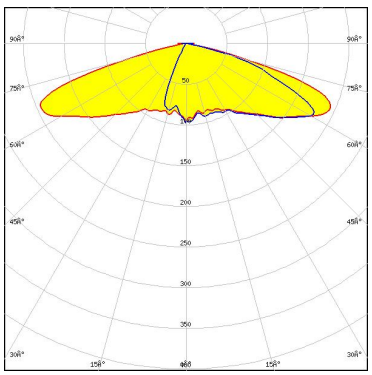


Protective plate, glass

Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 2x8 DA G4+
FWHM / FWTM	Asymmetric
Efficiency	50 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17677_STRADA-2X2-SHD-BLK	



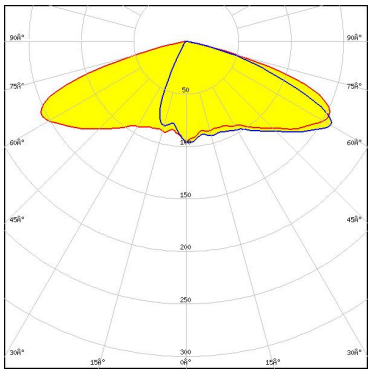
Light distribution files

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OPTICAL RESULTS (SIMULATED):

PHILIPS

LED	Fortimo FastFlex LED 2x8 DA G4+
FWHM / FWTM	Asymmetric
Efficiency	43 %
Peak intensity	0.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17677_STRADA-2X2-SHD-BLK	

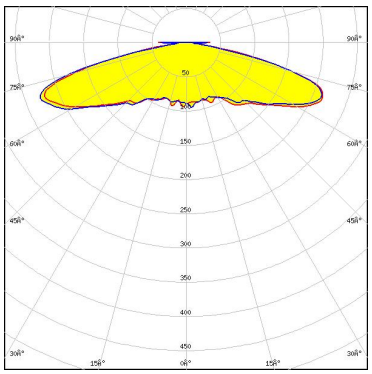


Light distribution files

Protective plate, glass

PHILIPS

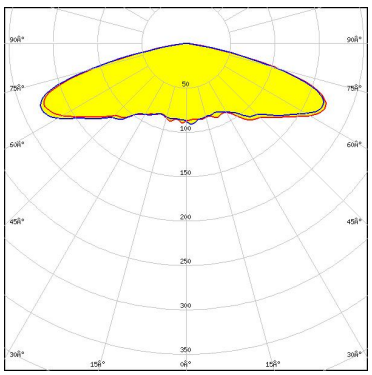
LED	Fortimo FastFlex LED 2x8 DAX G4
FWHM / FWTM	154.0° / 165.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

PHILIPS

LED	Fortimo FastFlex LED 2x8 DAX G4
FWHM / FWTM	152.0° / 164.0°
Efficiency	74 %
Peak intensity	0.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

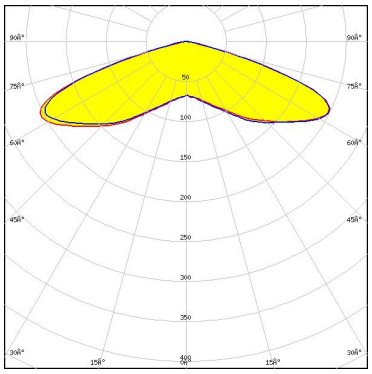
Protective plate, glass

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OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	HiLOM RH12 Z (LH351C)
FWHM / FWTM	Asymmetric
Efficiency	79 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

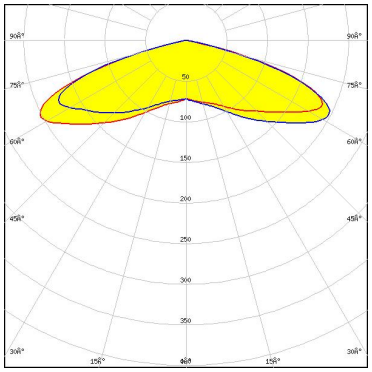


Protective plate, glass

Light distribution files

SAMSUNG

LED	LH351B
FWHM / FWTM	Asymmetric
Efficiency	78 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

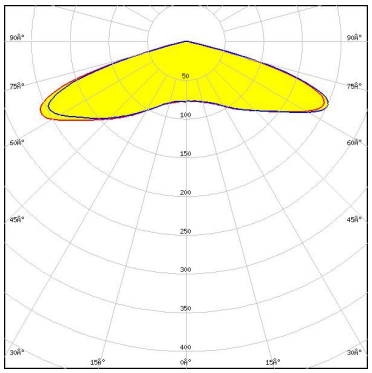


Protective plate, glass

Light distribution files

SAMSUNG

LED	LH351C
FWHM / FWTM	Asymmetric
Efficiency	79 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

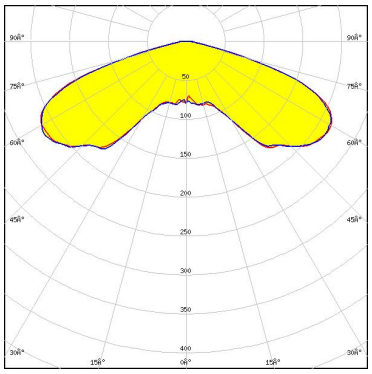
Light distribution files

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OPTICAL RESULTS (SIMULATED):

SAMSUNG

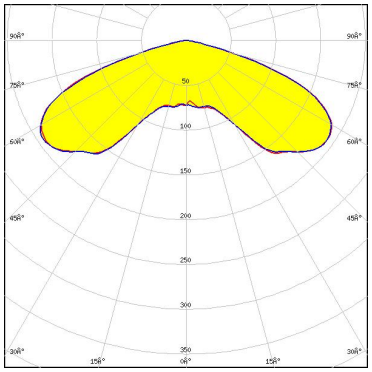
LED	LH502C
FWHM / FWTM	146.0° / 160.0°
Efficiency	97 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LH502C
FWHM / FWTM	144.0° / 156.0°
Efficiency	80 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

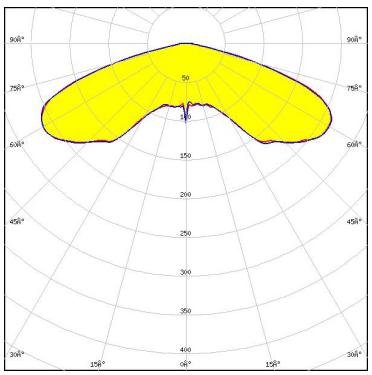


Protective plate, glass

Light distribution files

SAMSUNG

LED	LH502D
FWHM / FWTM	148.0° / 162.0 + 160.0°
Efficiency	97 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



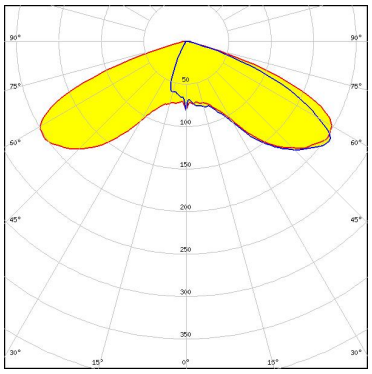
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LH502D
FWHM / FWTM	Asymmetric
Efficiency	52 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17677_STRADA-2X2-SHD-BLK	

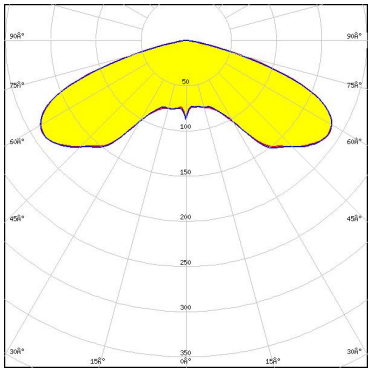


Light distribution files

SAMSUNG

LED	LH502D
FWHM / FWTM	145.0 + 144.0° / 158.0°
Efficiency	79 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

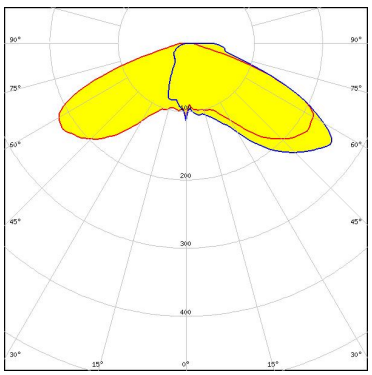
Protective plate, glass



Light distribution files

SAMSUNG

LED	LH502D
FWHM / FWTM	Asymmetric
Efficiency	66 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17580_STRADA-2X2-SHD-WHT	



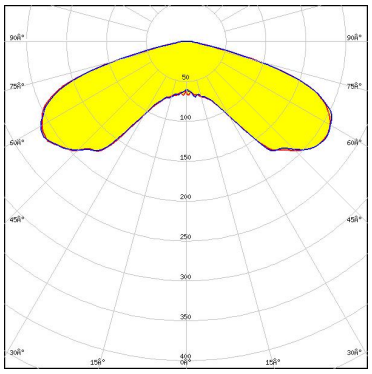
Light distribution files

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OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

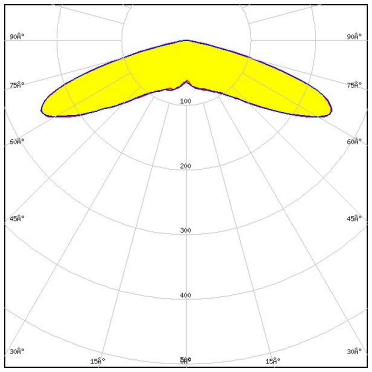
LED	MJT 5050
FWHM / FWTM	Asymmetric
Efficiency	96 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

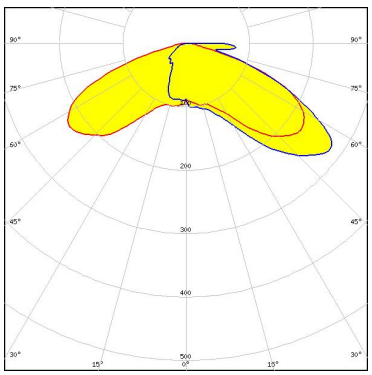
LED	SEOUL DC 3030C
FWHM / FWTM	148.0° / 160.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

LED	SEOUL DC 5050 6V
FWHM / FWTM	Asymmetric
Efficiency	68 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17580_STRADA-2X2-SHD-WHT	



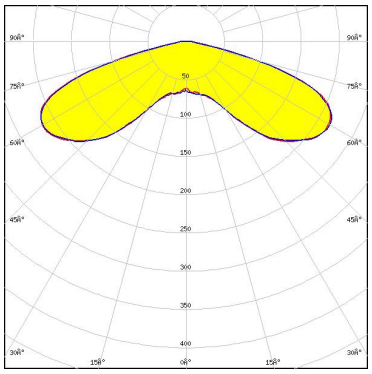
Light distribution files

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OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

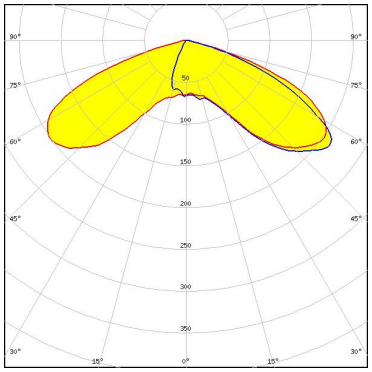
LED	SEOUL DC 5050 6V
FWHM / FWTM	148.0° / 161.0°
Efficiency	96 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

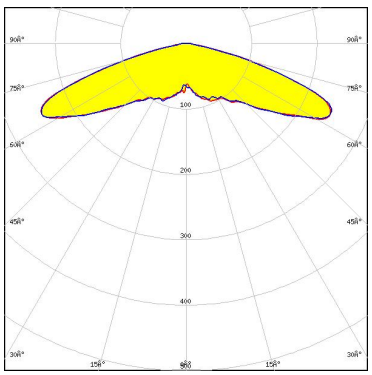
LED	SEOUL DC 5050 6V
FWHM / FWTM	Asymmetric
Efficiency	52 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C17677_STRADA-2X2-SHD-BLK	



Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5
FWHM / FWTM	147.0° / 160.0°
Efficiency	95 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

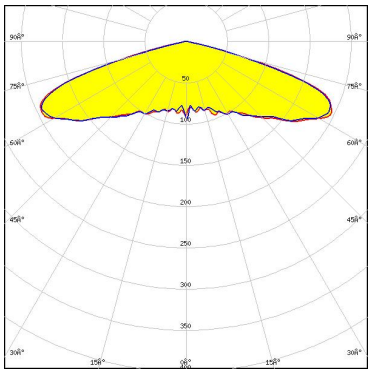
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OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

LED	Z5M3-E1
FWHM / FWTM	148.0° / 156.0°
Efficiency	78 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

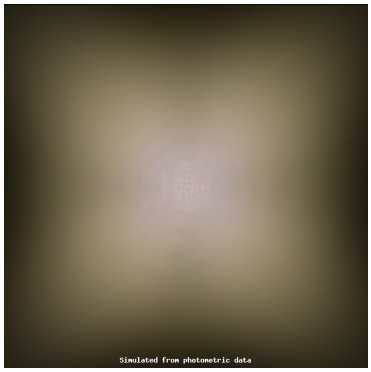
Protective plate, glass

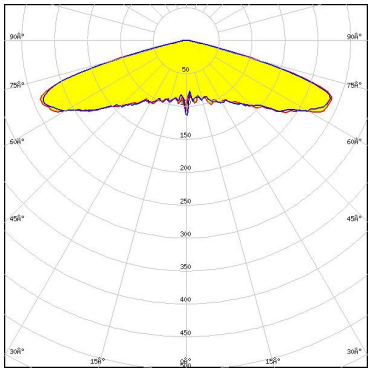


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M3-E1
FWHM / FWTM	149.0 + 148.0° / 158.0 + 156.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

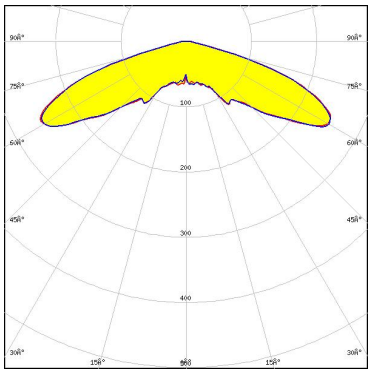




Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M5
FWHM / FWTM	146.0° / 158.0 + 156.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

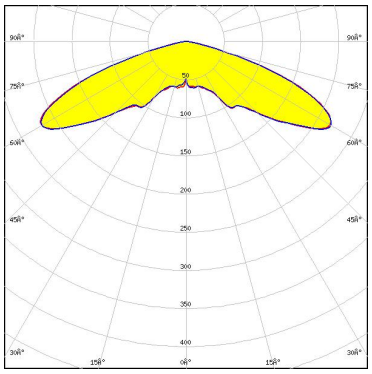
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OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

LED	Z5M5
FWHM / FWTM	144.0° / 156.0°
Efficiency	78 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



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.

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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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