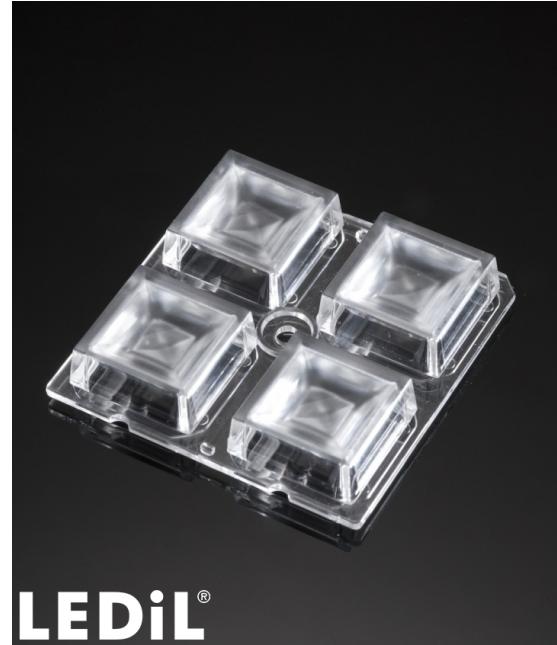


HB-2X2-W

~50° wide beam

SPECIFICATION:

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

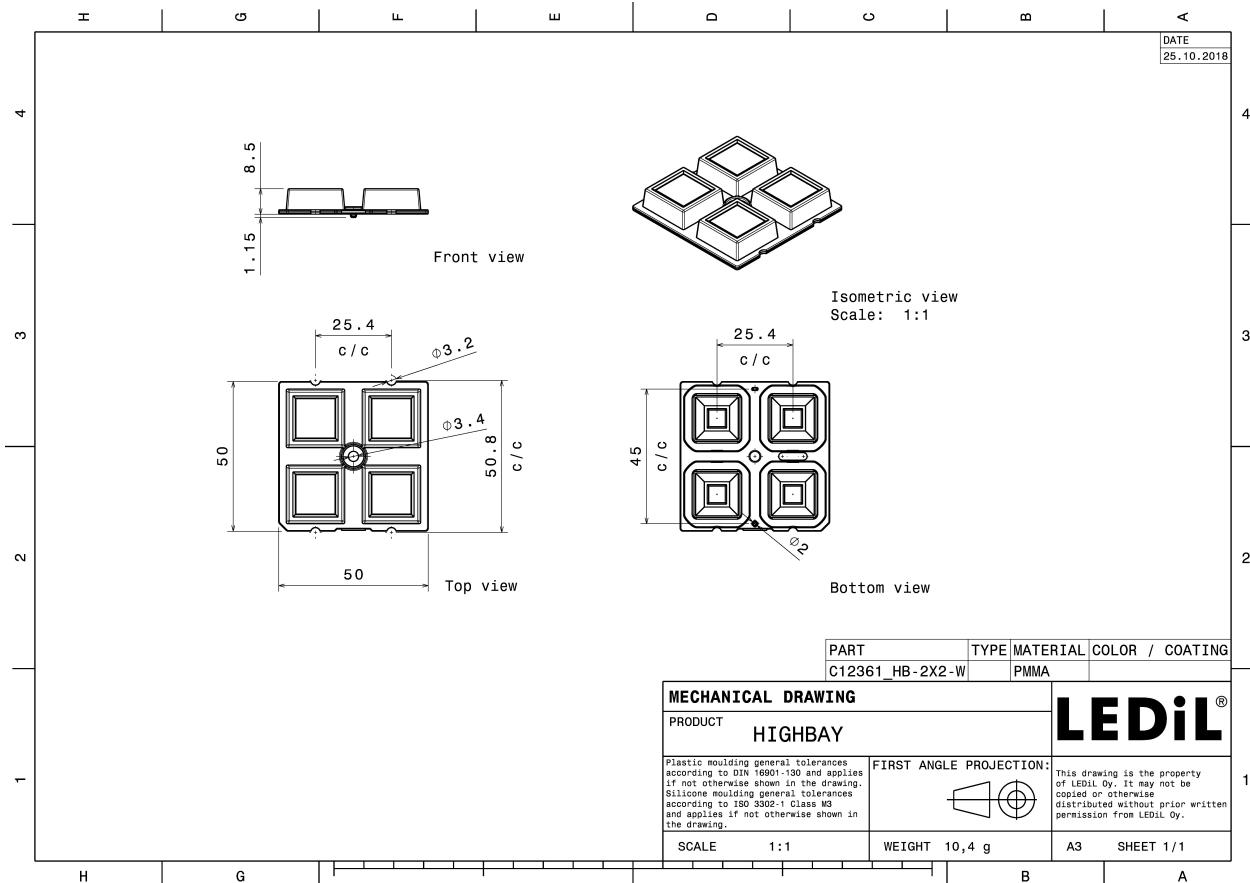


MATERIALS:

Component	Type	Material	Colour	Finish
HB-2X2-W	Multi-lens	PMMA	clear	

ORDERING INFORMATION:

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

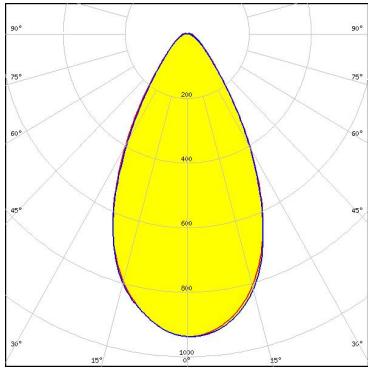


See also our general installation guide: www.ledil.com/installation_guide

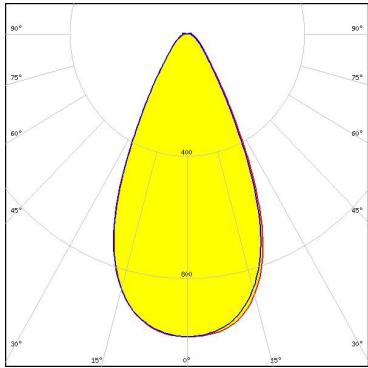
OPTICAL RESULTS (MEASURED):



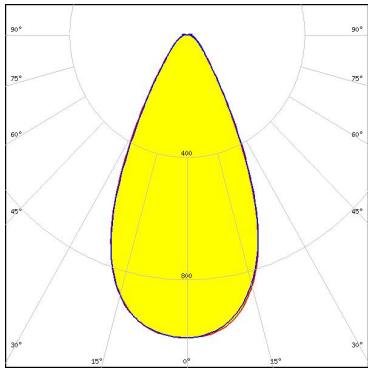
LED Bridgelux SMD 5050
FWHM / FWTM 55.0° / 93.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



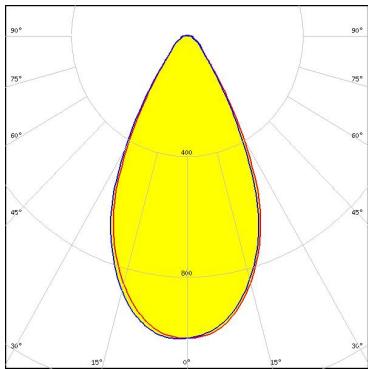
LED QUICK FLUX XTP 2x4 xxx LS G5
FWHM / FWTM 52.0° / 85.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



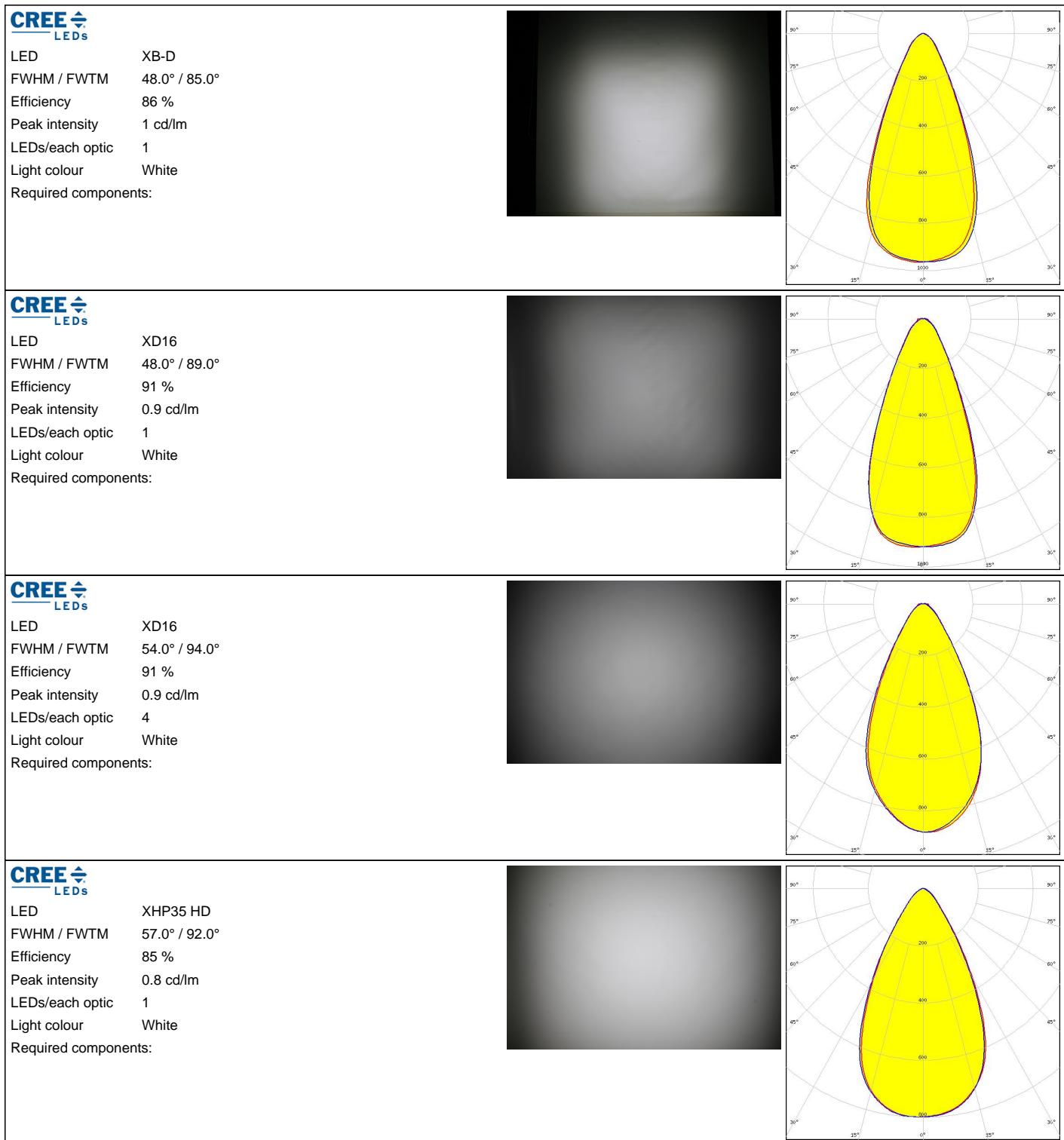
LED QUICK FLUX XTP 2x6 xxx LS G5
FWHM / FWTM 52.0° / 86.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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 White
Required components:



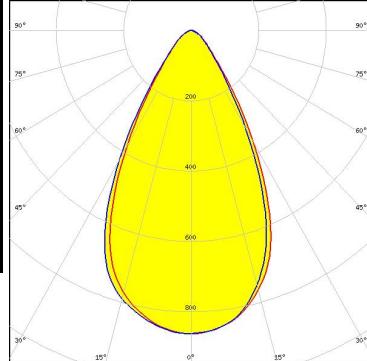
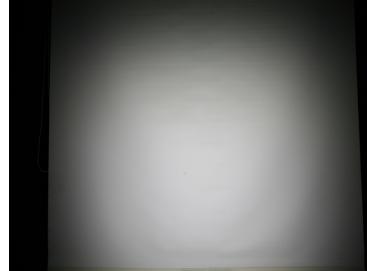
OPTICAL RESULTS (MEASURED):



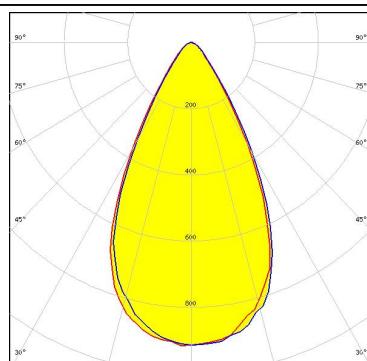
OPTICAL RESULTS (MEASURED):



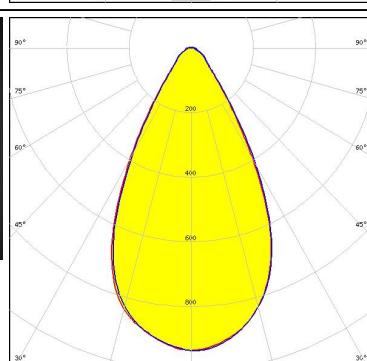
LED XM-L
 FWHM / FWTM 57.0° / 90.0°
 Efficiency 89 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



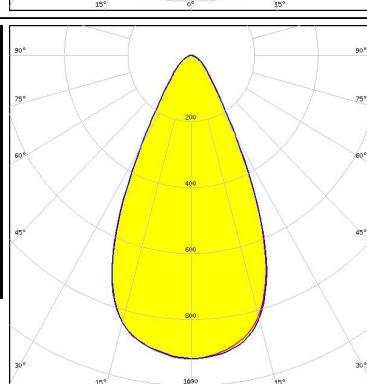
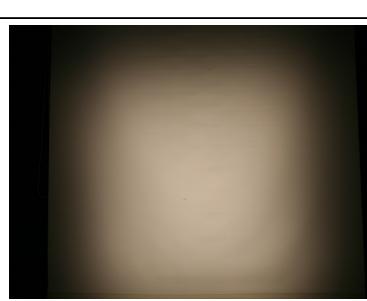
LED XM-L2
 FWHM / FWTM 56.0° / 85.0°
 Efficiency 87 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



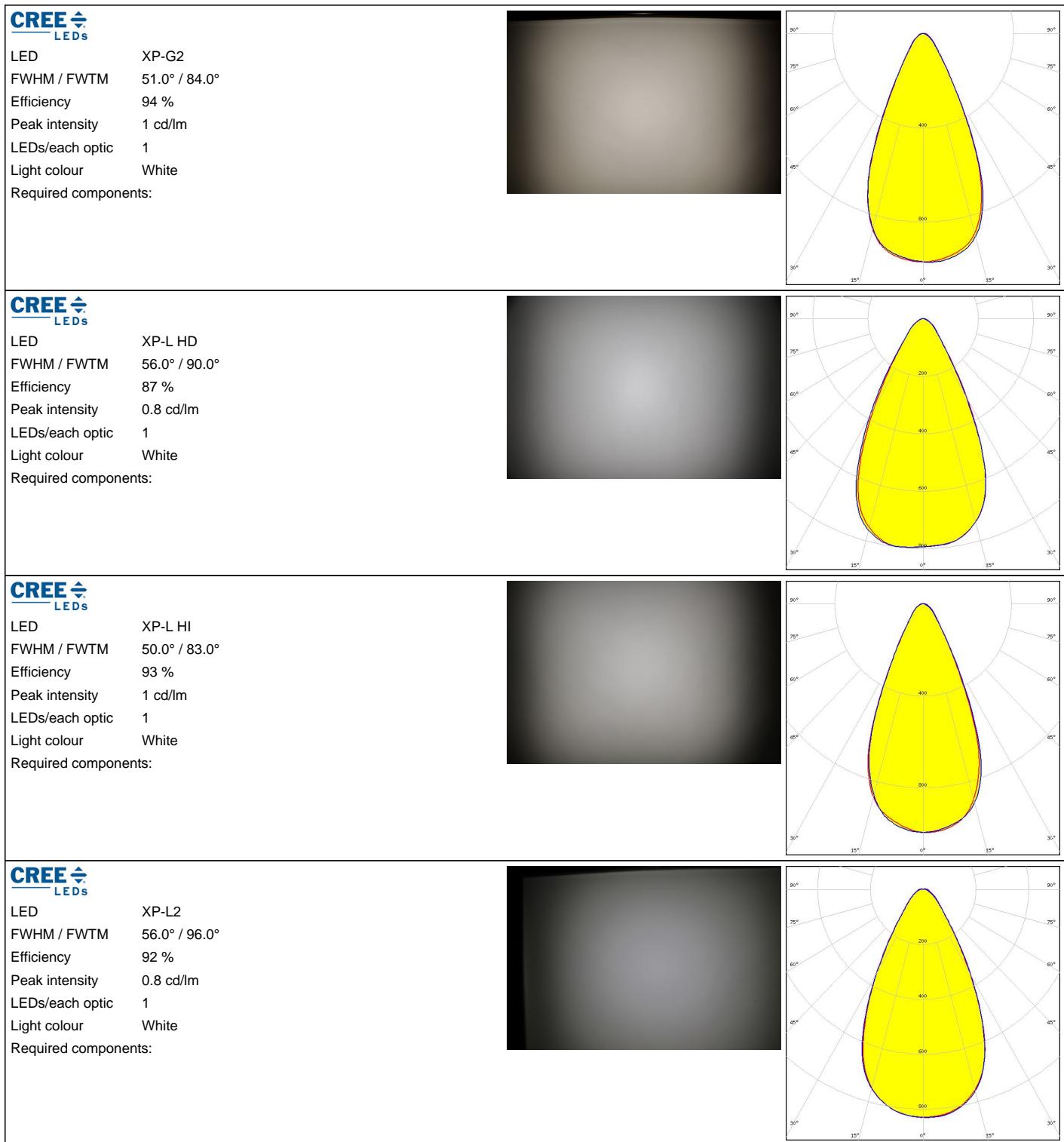
LED XM-L3
 FWHM / FWTM 56.0° / 87.0°
 Efficiency 95 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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



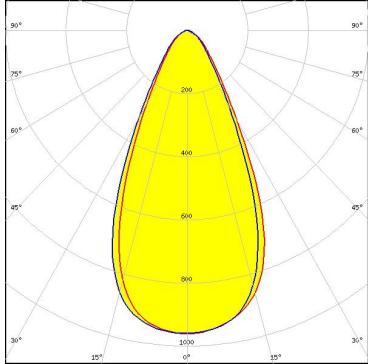
OPTICAL RESULTS (MEASURED):



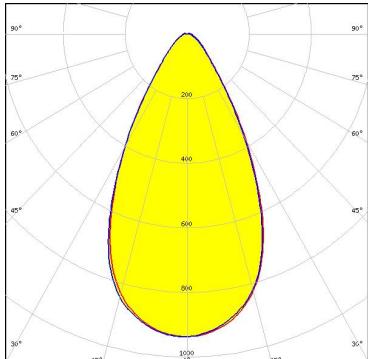
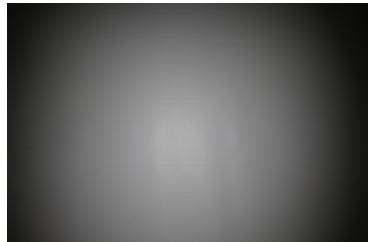
OPTICAL RESULTS (MEASURED):



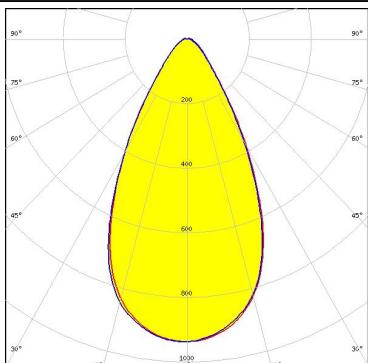
LED XT-E
 FWHM / FWTM 50.0° / 88.0°
 Efficiency 87 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



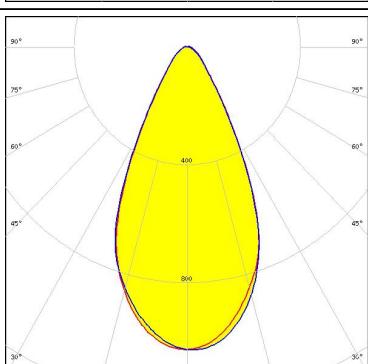
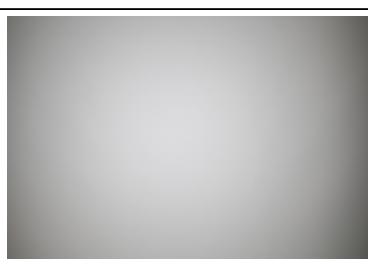
LED LUXEON 5050 Round LES
 FWHM / FWTM 55.0° / 91.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



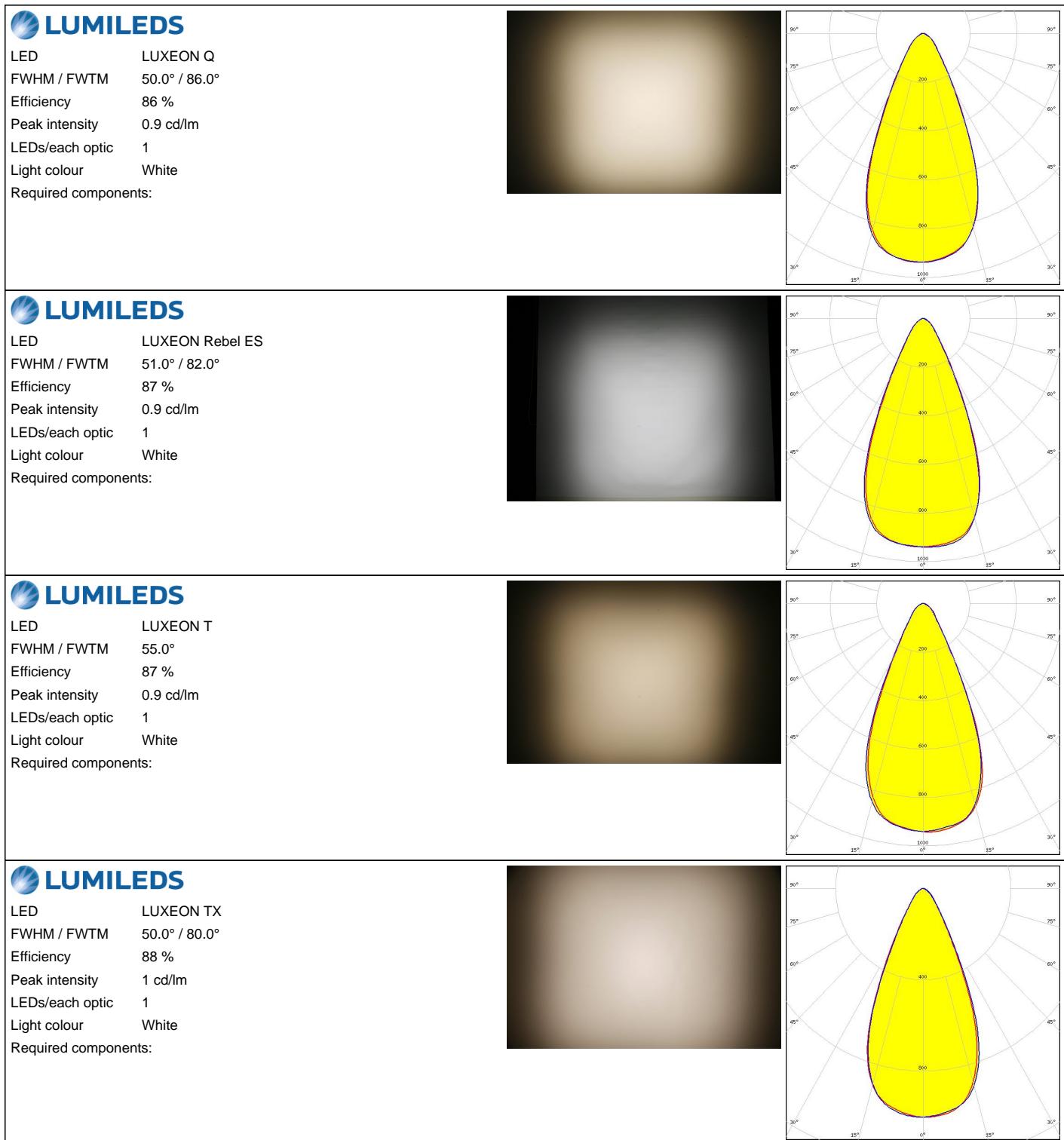
LED LUXEON 5050 Square LES
 FWHM / FWTM 55.0° / 91.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



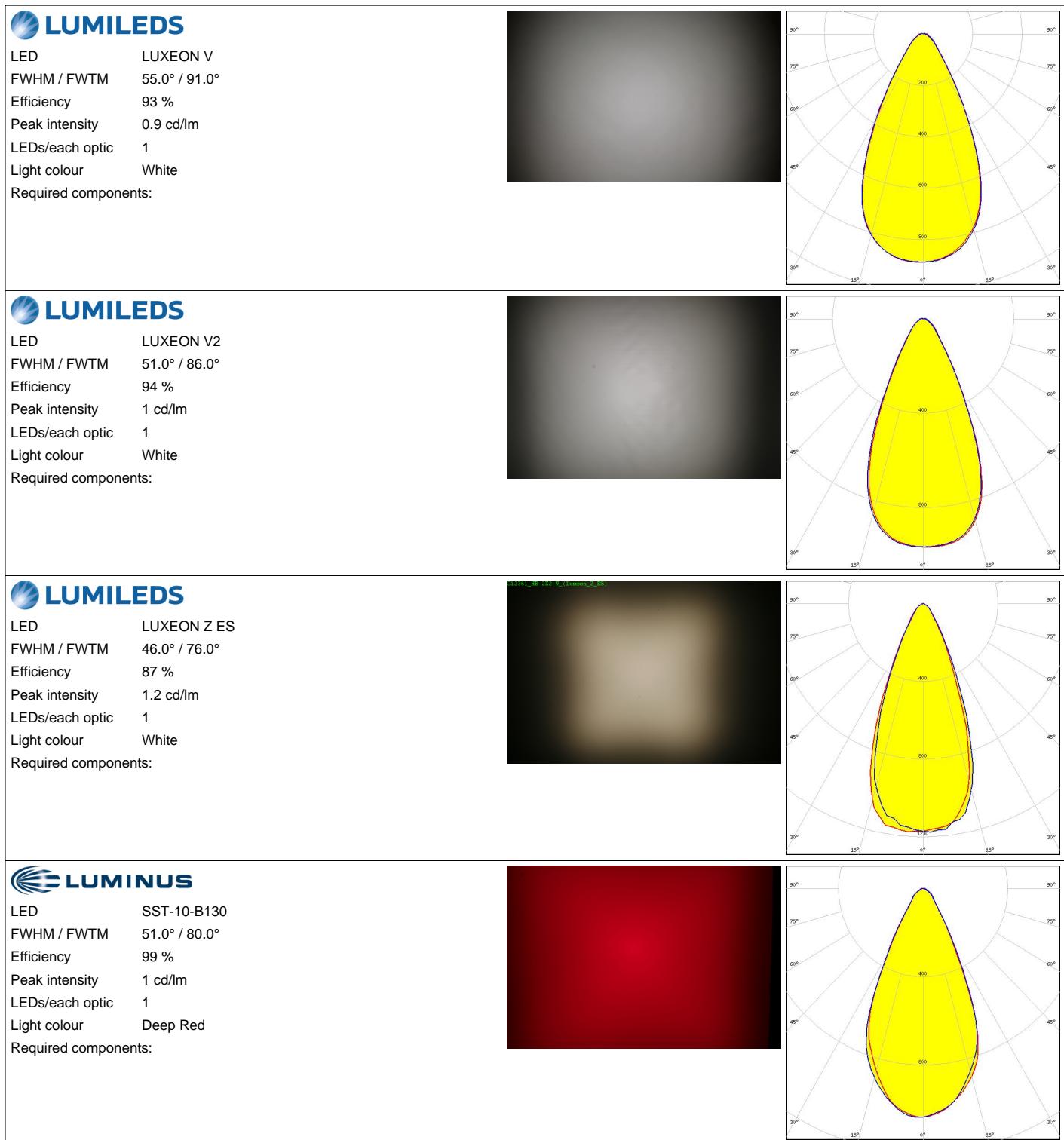
LED LUXEON MZ
 FWHM / FWTM 53.0° / 86.0°
 Efficiency 92 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



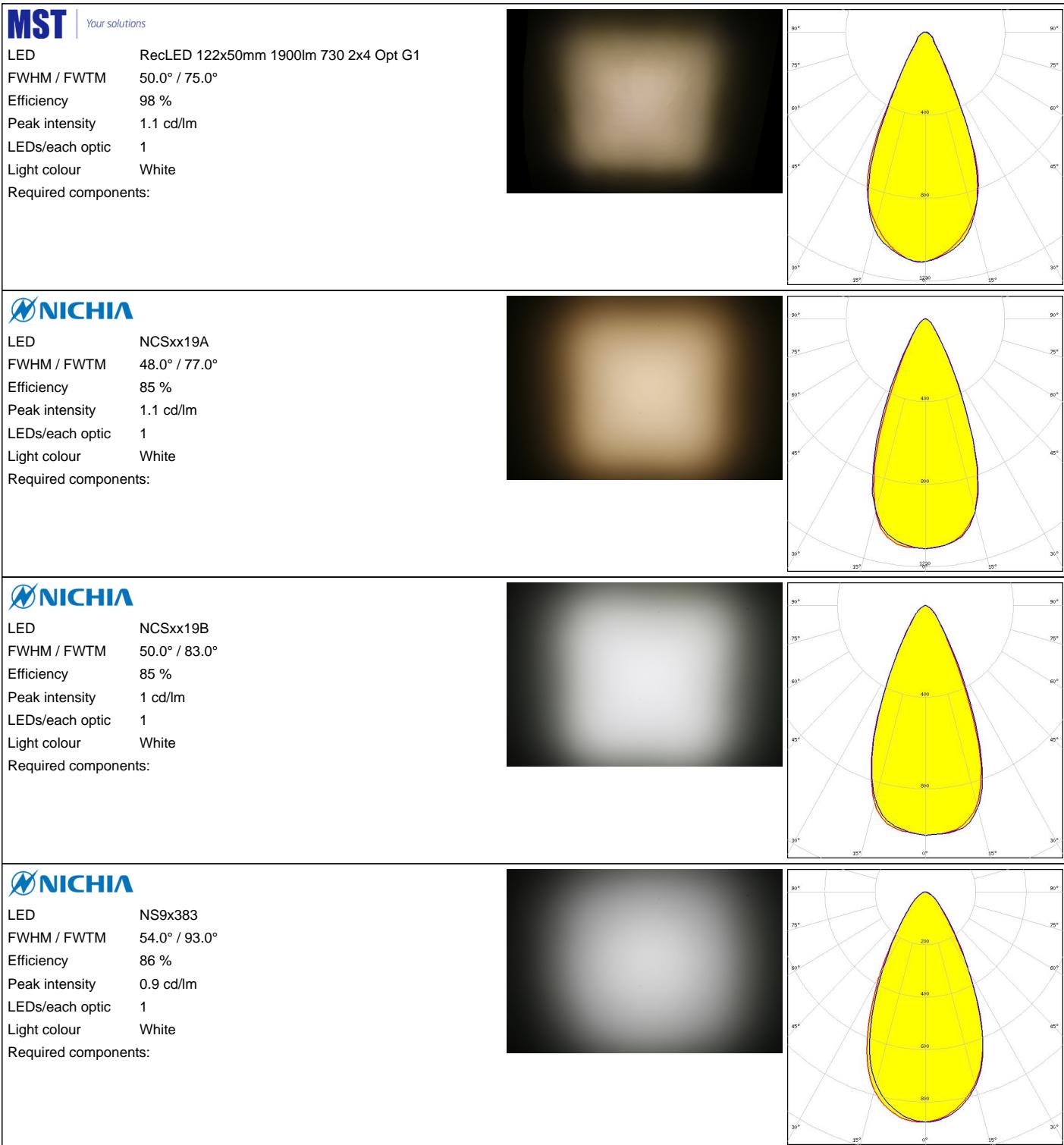
OPTICAL RESULTS (MEASURED):



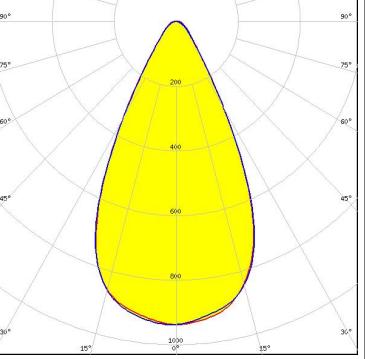
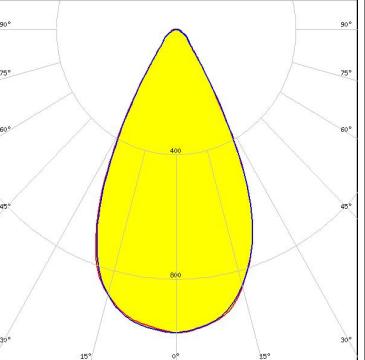
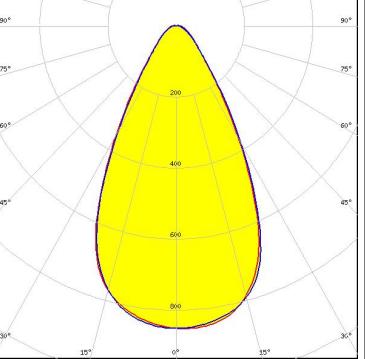
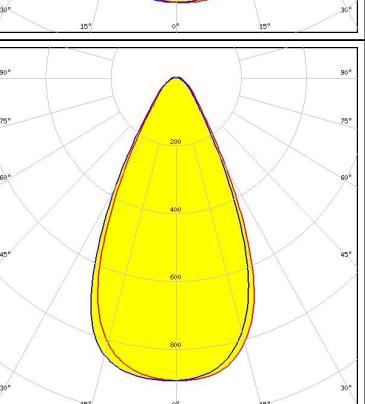
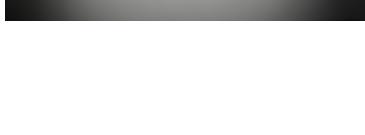
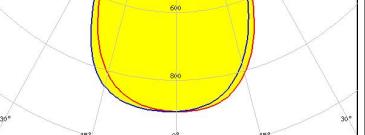
OPTICAL RESULTS (MEASURED):



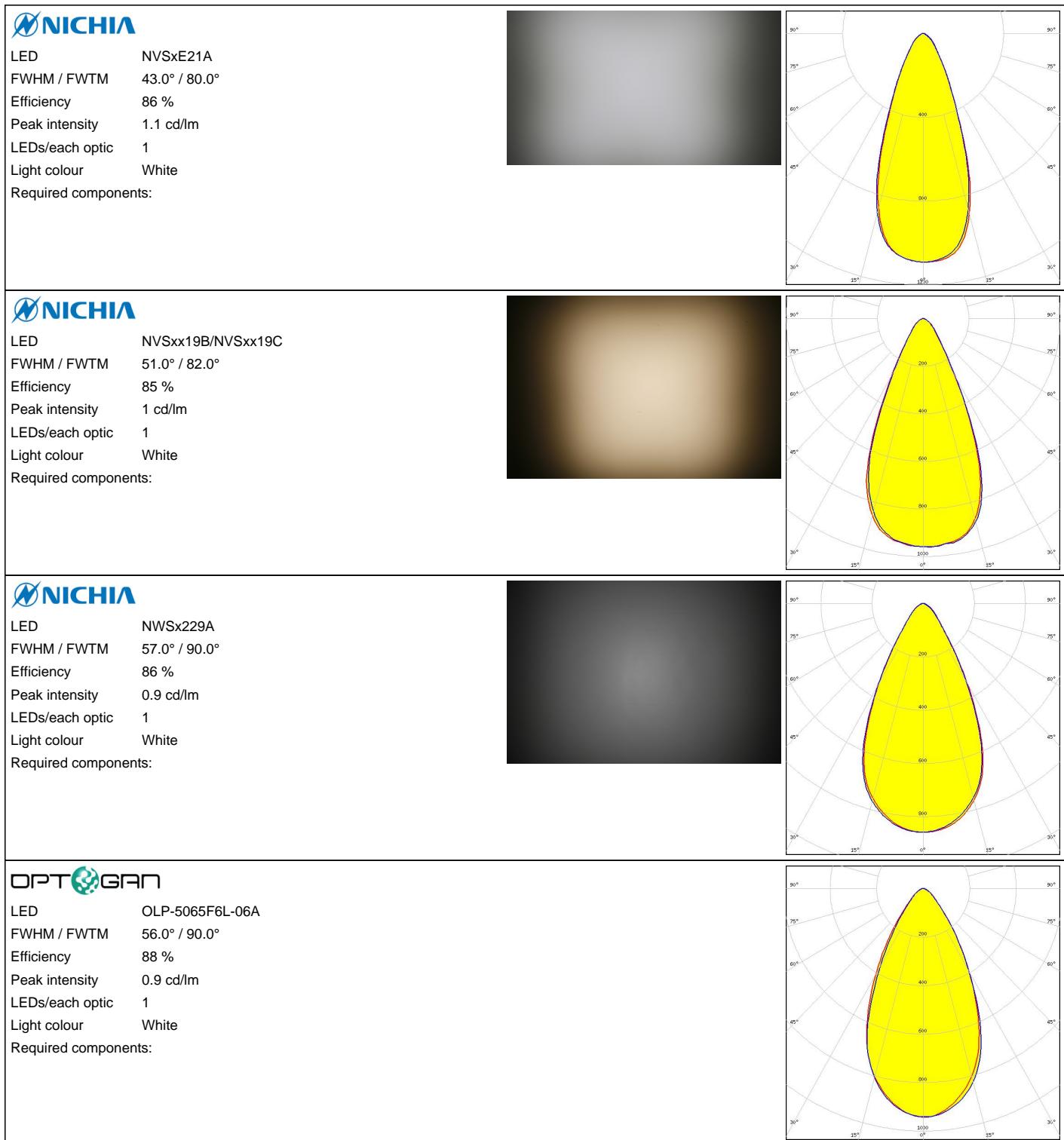
OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (MEASURED):

 NICHIA	LED NVSW219D		
LED NVSW219D FWHM / FWTM 53.0° / 83.0° Efficiency 94 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:			
 NICHIA	LED NVSW219F FWHM / FWTM 54.0° / 81.0° Efficiency 97 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:		
 NICHIA	LED NVSW319B FWHM / FWTM 56.0° / 93.0° Efficiency 93 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:		
 NICHIA	LED NVSW3x9A FWHM / FWTM 53.0° / 88.0° Efficiency 92 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:		

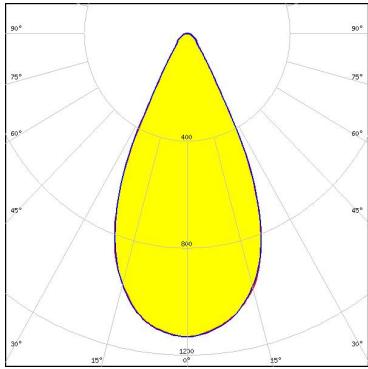
OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (MEASURED):

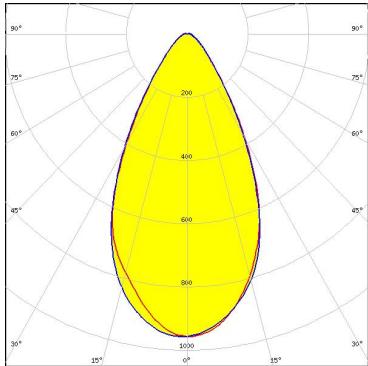
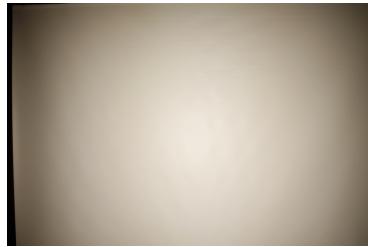
OSRAM

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 White
Required components:



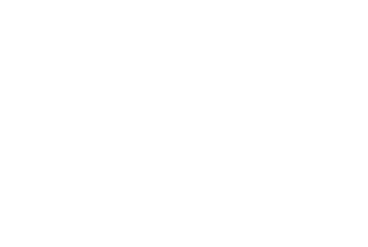
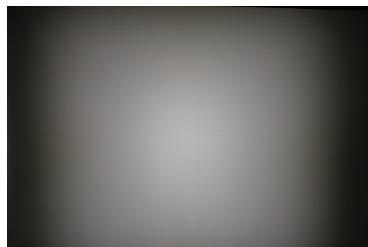
OSRAM

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



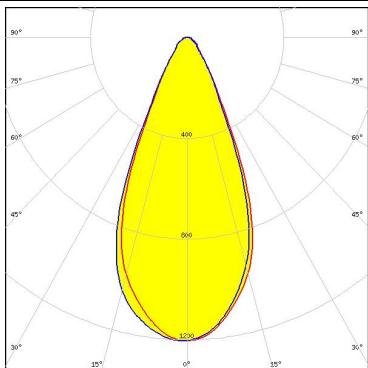
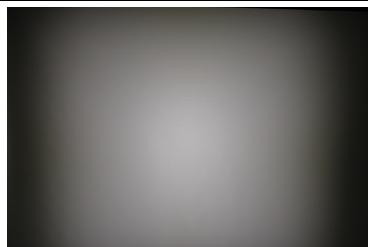
OSRAM

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 White
Required components:



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 White
Required components:



OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

LED OSLON Square PC

FWHM / FWTM 54.0° / 85.0°

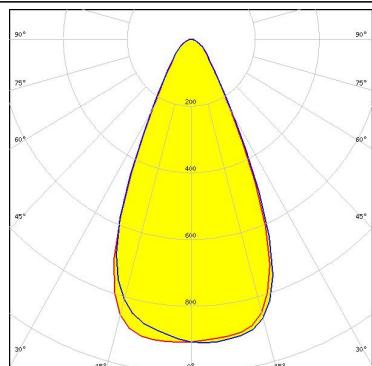
Efficiency 87 %

Peak intensity 0.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:



OSRAM

Opto Semiconductors

LED OSLON SSL 80

FWHM / FWTM 43.0° / 70.0°

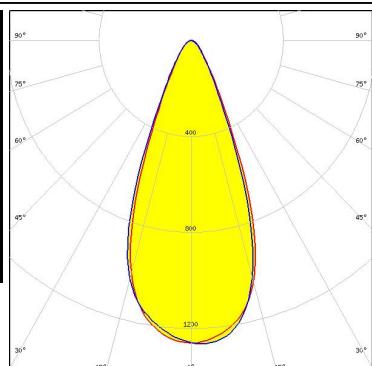
Efficiency 89 %

Peak intensity 1.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:



PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4

FWHM / FWTM 52.0° / 82.0°

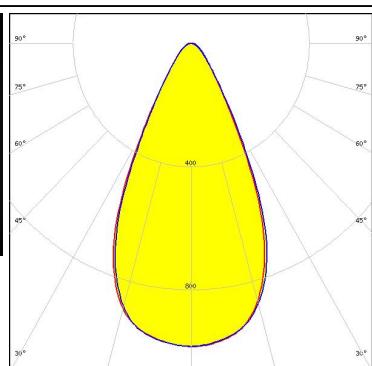
Efficiency 94 %

Peak intensity 1 cd/lm

LEDs/each optic 1

Light colour White

Required components:



PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4+

FWHM / FWTM 55.0° / 88.0°

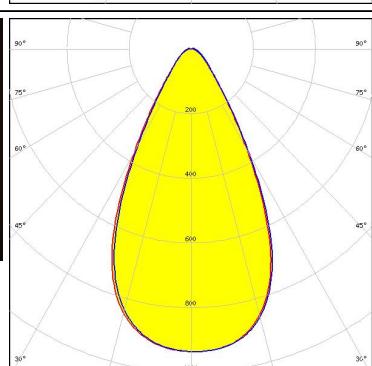
Efficiency 97 %

Peak intensity 0.9 cd/lm

LEDs/each optic 1

Light colour White

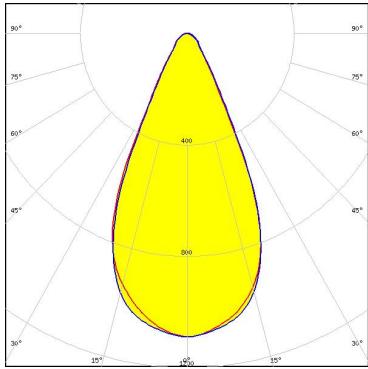
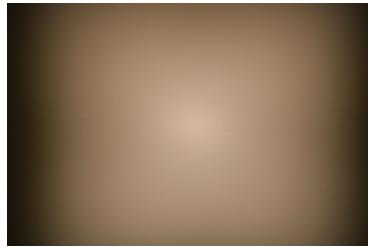
Required components:



OPTICAL RESULTS (MEASURED):

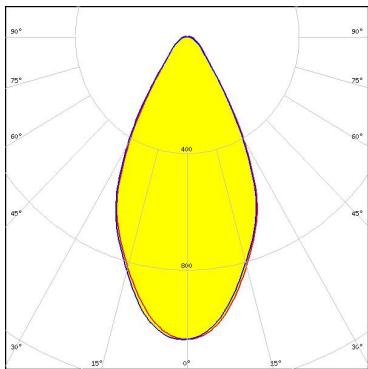
PHILIPS

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 White
 Required components:



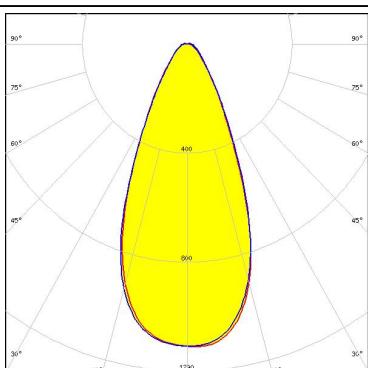
PHILIPS

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



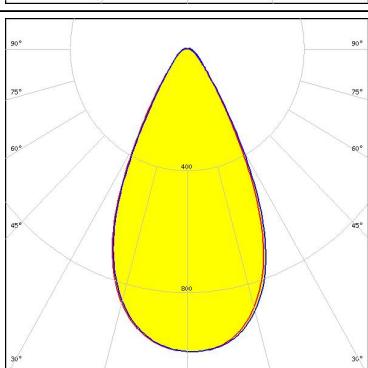
SAMSUNG

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 White
 Required components:



SAMSUNG

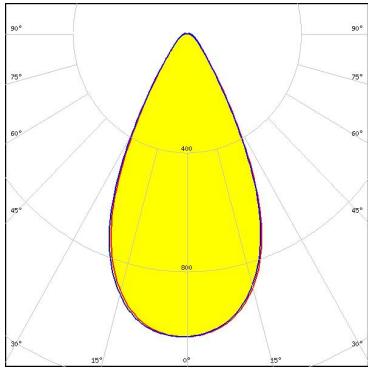
LED HiLOM RH12 Z (LH351C)
 FWHM / FWTM 54.0° / 84.0°
 Efficiency 96 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

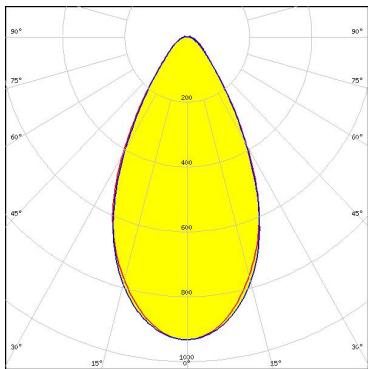
SAMSUNG

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



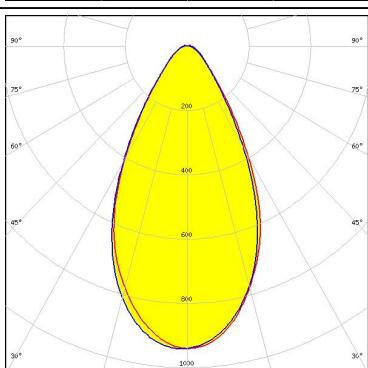
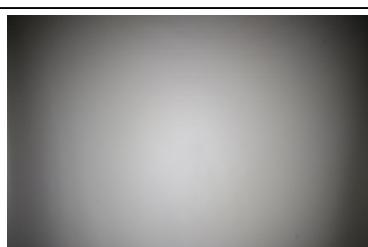
SAMSUNG

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 White
Required components:



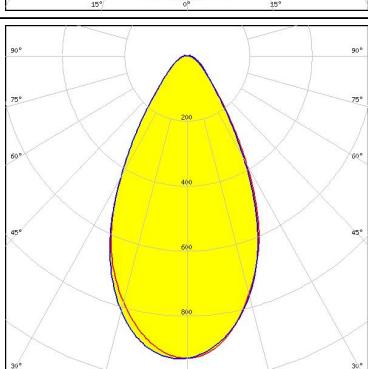
SAMSUNG

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 White
Required components:



SAMSUNG

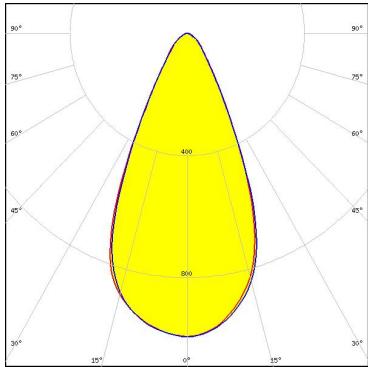
LED HiLOM RM8 Z (LH502C)
FWHM / FWTM 56.0° / 95.0°
Efficiency 96 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):

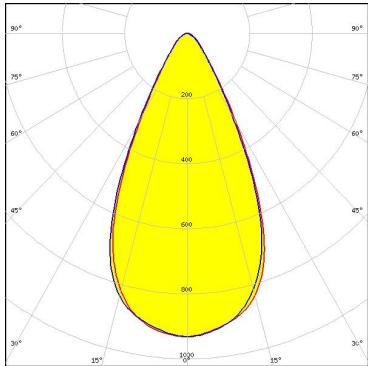
SAMSUNG

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



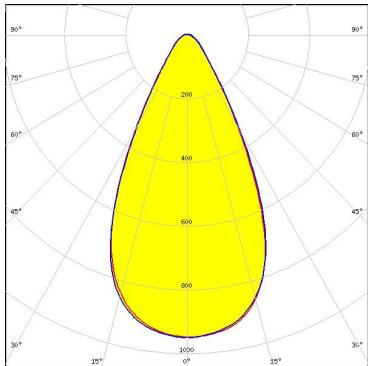
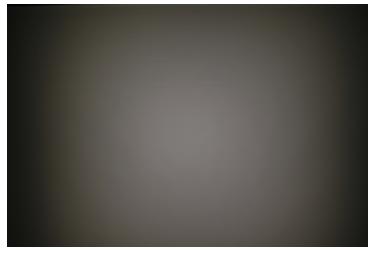
SAMSUNG

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



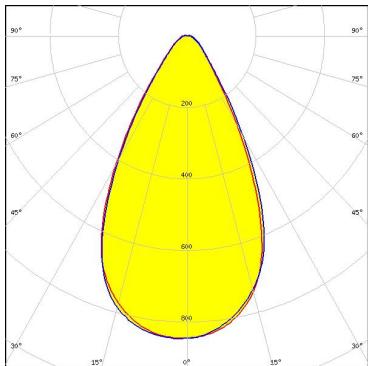
SAMSUNG

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



SAMSUNG

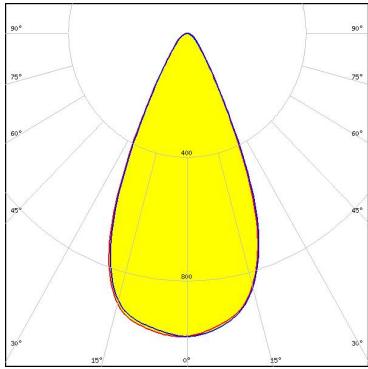
LED LH351D
FWHM / FWTM 56.0° / 90.0°
Efficiency 91 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):

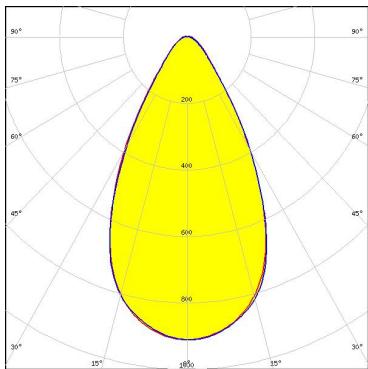
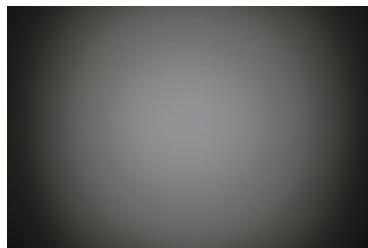
SAMSUNG

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



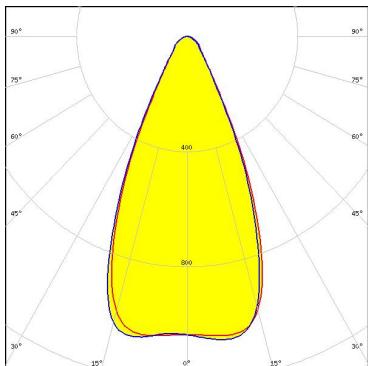
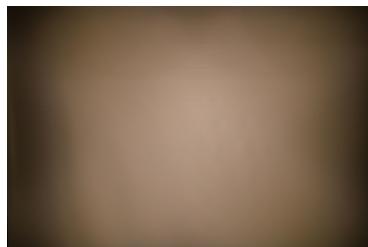
SAMSUNG

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



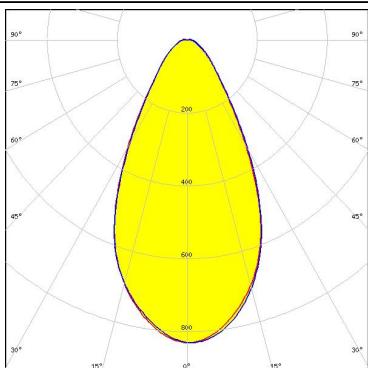
SCITEC Elektronik GmbH

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 White
Required components:

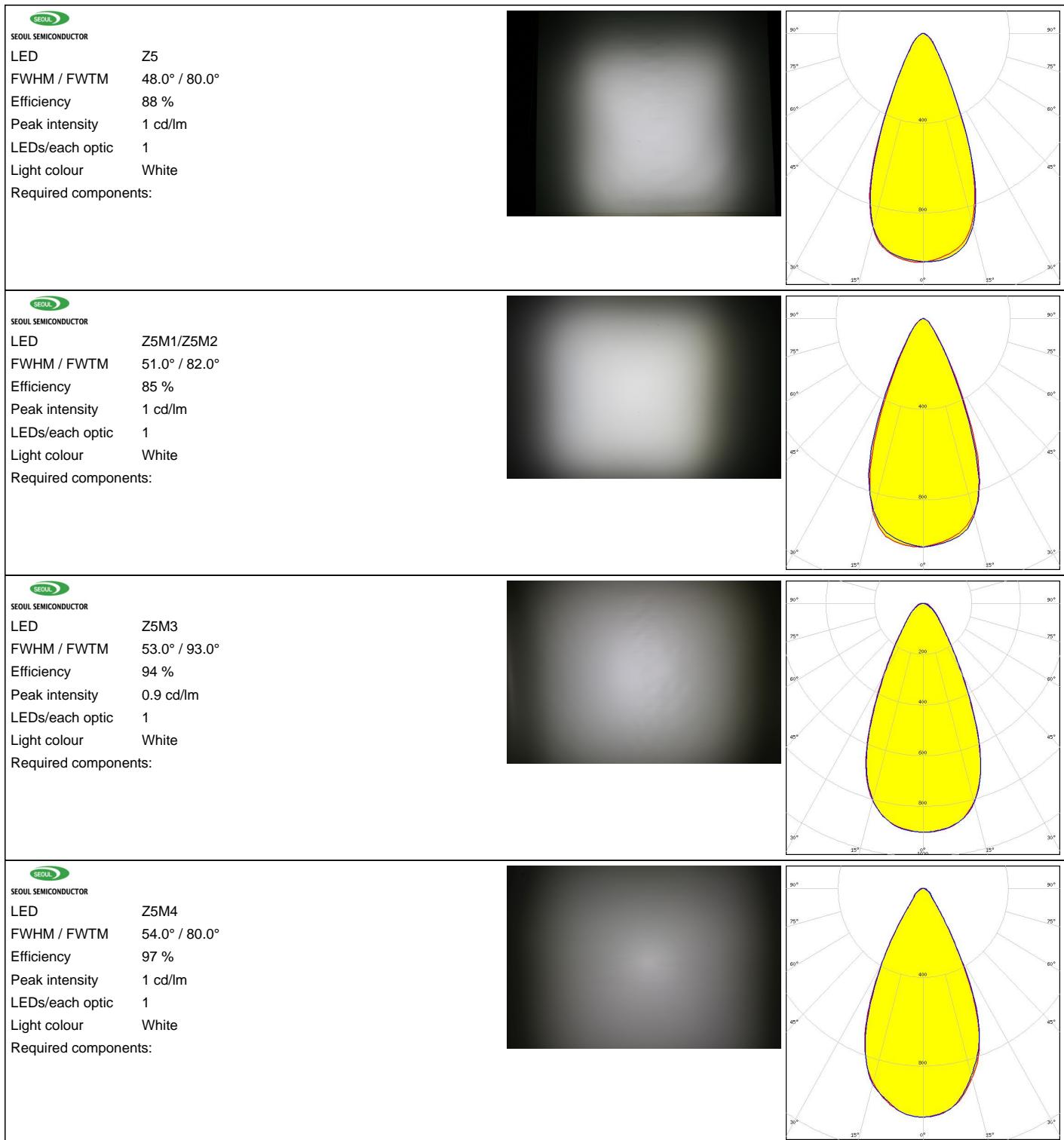


SEOUL SEMICONDUCTOR

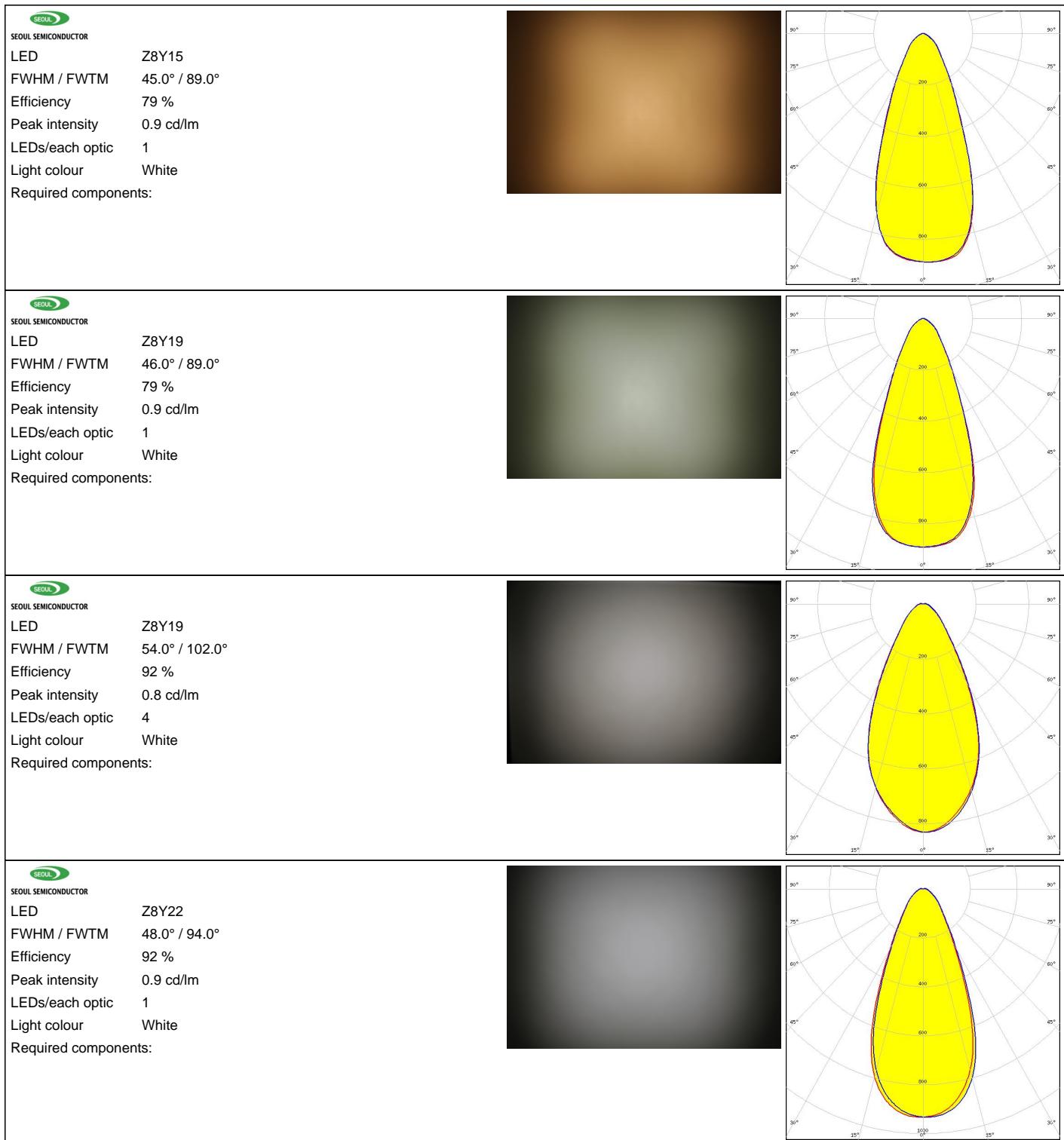
LED 2x2 Y22 module - SMJQ-D48W16AA-XX
FWHM / FWTM 54.0° / 102.0°
Efficiency 92 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



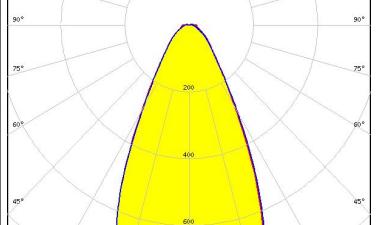
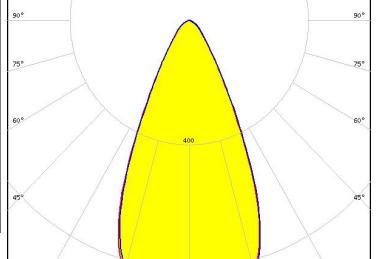
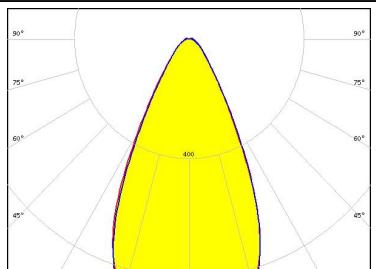
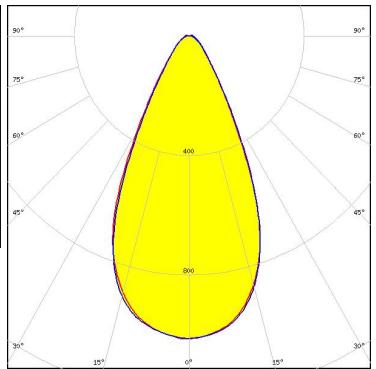
OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (MEASURED):



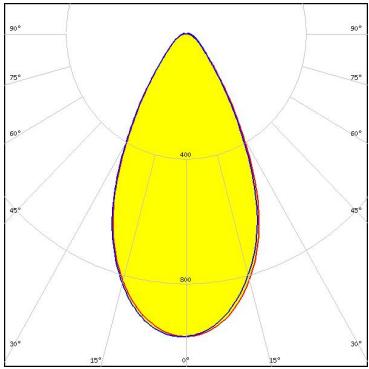
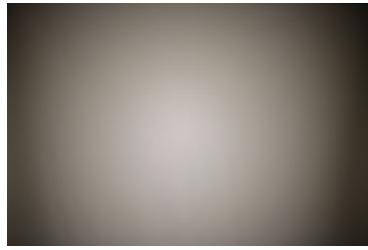
OPTICAL RESULTS (MEASURED):

 SEOUL SEMICONDUCTOR	<p>LED Z8Y22P FWHM / FWTM 51.0° / 93.0° Efficiency 92 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
TOSHIBA  Leading Innovation >>>	<p>LED TL1L4 FWHM / FWTM 48.0° / 78.0° Efficiency 81 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
TRIDONIC	<p>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 White Required components:</p>		
TRIDONIC	<p>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 White Required components:</p>		

OPTICAL RESULTS (MEASURED):

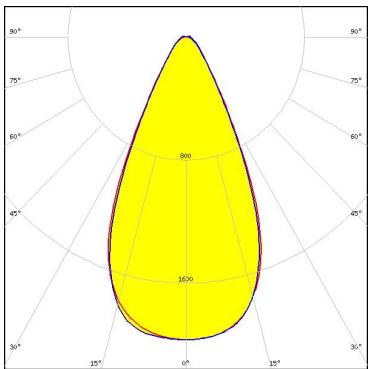
TRIDONIC

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 White
 Required components:



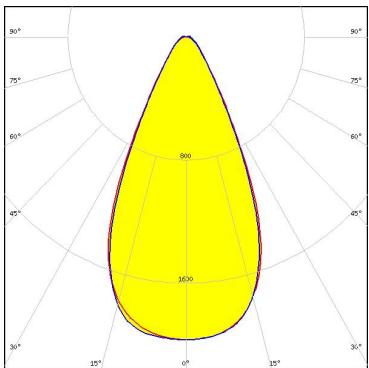
TRIDONIC

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 White
 Required components:



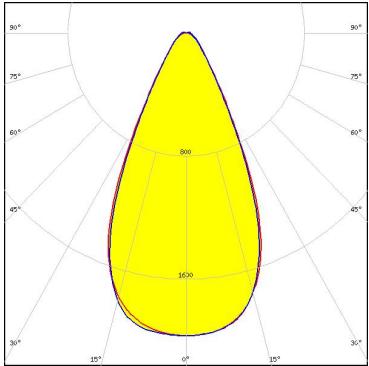
TRIDONIC

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 White
 Required components:



TRIDONIC

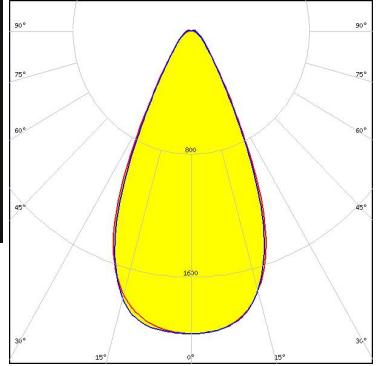
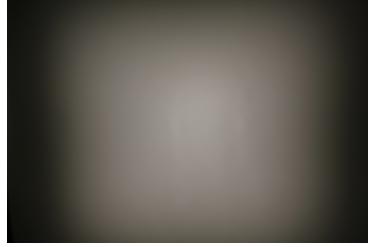
LED RLE G1 49x223mm 4000lm xxx EXC OTD
 FWHM / FWTM 52.0° / 83.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

TRIDONIC

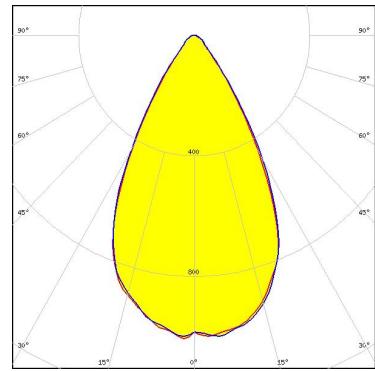
LED RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM / FWTM 52.0° / 83.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



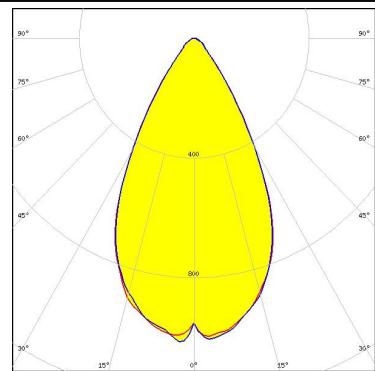
OPTICAL RESULTS (SIMULATED):



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 White
Required components:

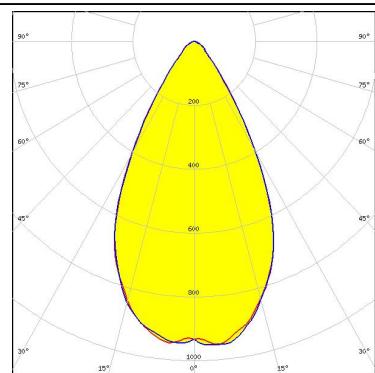


LED J Series 5050B 6V K Class
FWHM / FWTM 56.0° / 85.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

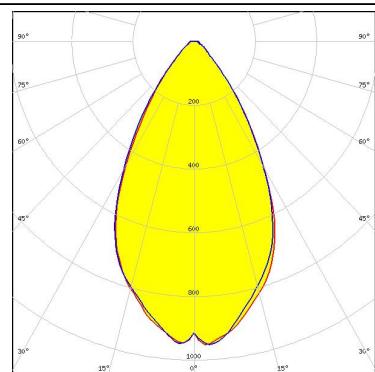


LED J Series 5050B 6V K Class
FWHM / FWTM 56.0° / 86.0°
Efficiency 89 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

Protective plate, glass



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

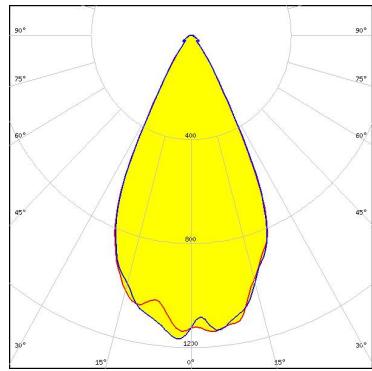


OPTICAL RESULTS (SIMULATED):



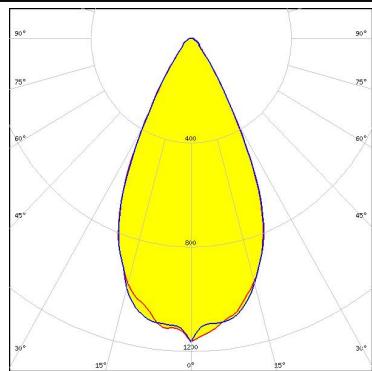
LED	XHP35 HI
FWHM / FWTM	52.0° / 73.0°
Efficiency	93 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



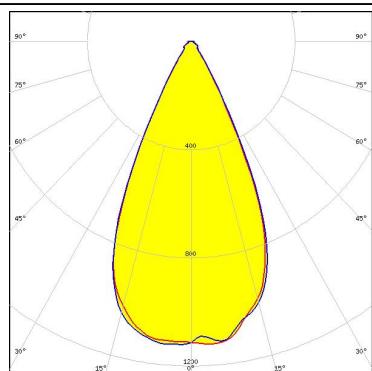
LED	XM-L RGBW (XMLDCL HI)
FWHM / FWTM	52.0° / 78.0°
Efficiency	95 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	RGBW

Required components:



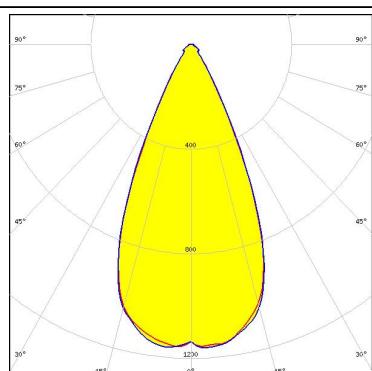
LED	XP-E
FWHM / FWTM	50.0° / 68.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



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

Required components:

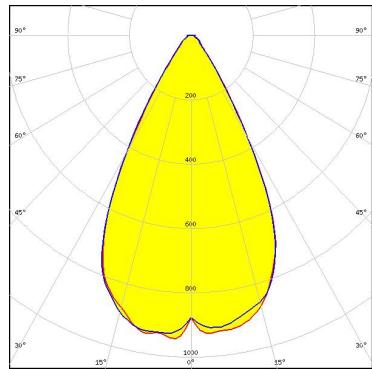


OPTICAL RESULTS (SIMULATED):



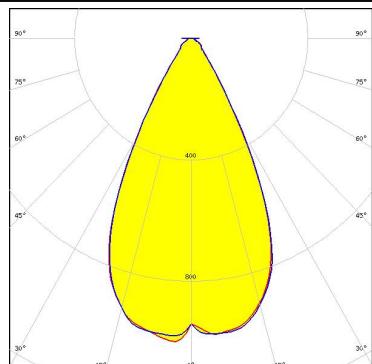
LED	XP-G2 HE
FWHM / FWTM	57.0° / 82.0°
Efficiency	95 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



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

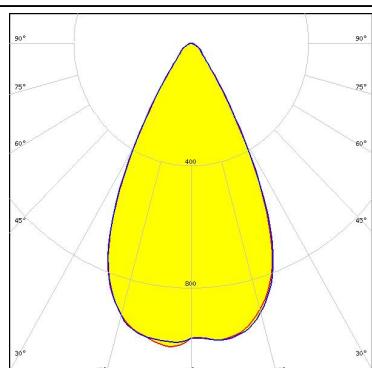
Required components:



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

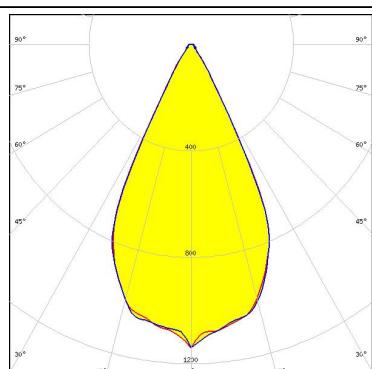
Required components:

Protective plate, glass



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

Required components:



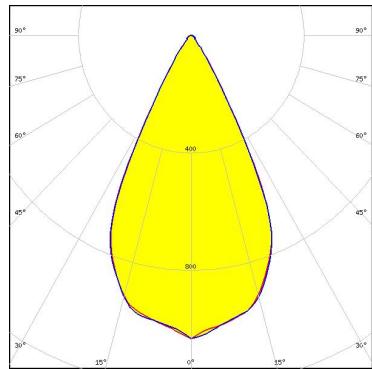
OPTICAL RESULTS (SIMULATED):



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

Required components:

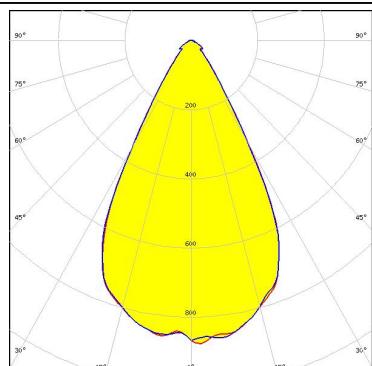
Protective plate, glass



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

Required components:

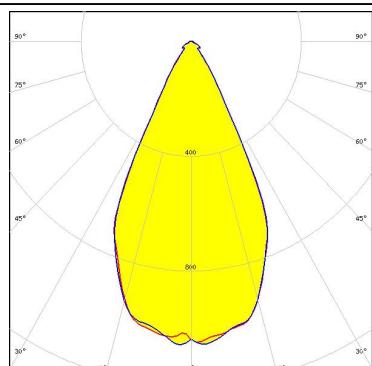
Protective plate, glass



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

Required components:

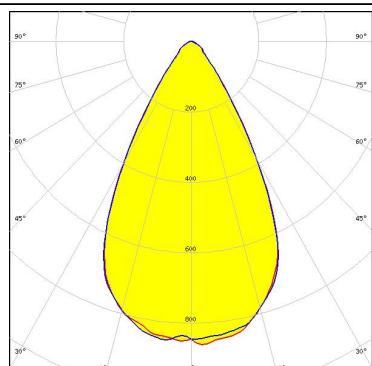
Protective plate, glass



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

Required components:

Protective plate, glass

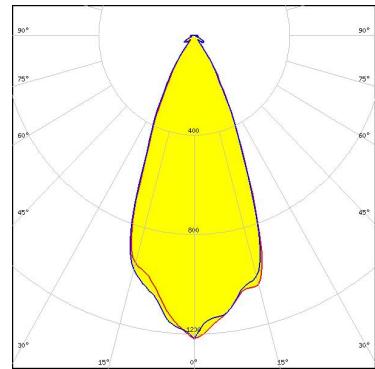


OPTICAL RESULTS (SIMULATED):



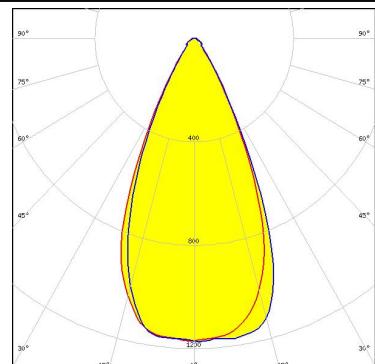
LED	XQ-E HI
FWHM / FWTM	42.0° / 68.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



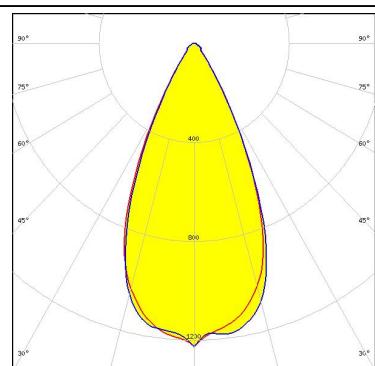
LED	LUXEON 3030 2D (Round LES)
FWHM / FWTM	49.0° / 73.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



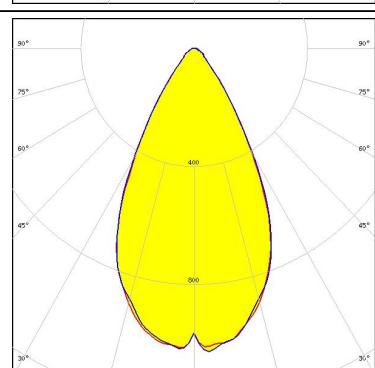
LED	LUXEON 3535L
FWHM / FWTM	49.0° / 73.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



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

Required components:



OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED LUXEON 5050 HE

FWHM / FWTM 54.0° / 84.0°

Efficiency 89 %

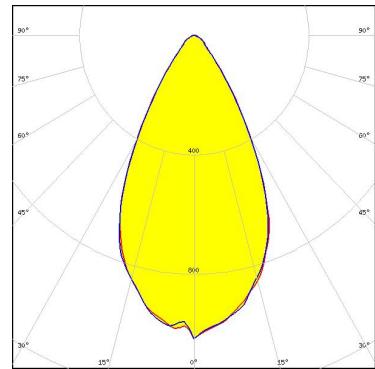
Peak intensity 1 cd/lm

LEDs/each optic 1

Light colour White

Required components:

Protective plate, glass



LUMILEDS

LED LUXEON 5050 Square LES

FWHM / FWTM 54.0° / 84.0°

Efficiency 89 %

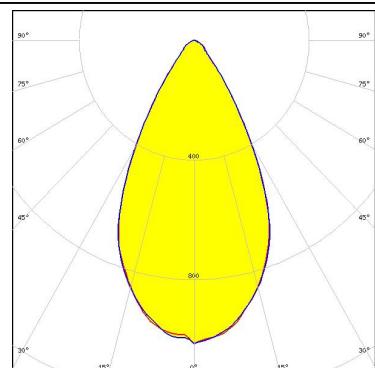
Peak intensity 1 cd/lm

LEDs/each optic 1

Light colour White

Required components:

Protective plate, glass



LUMILEDS

LED LUXEON A

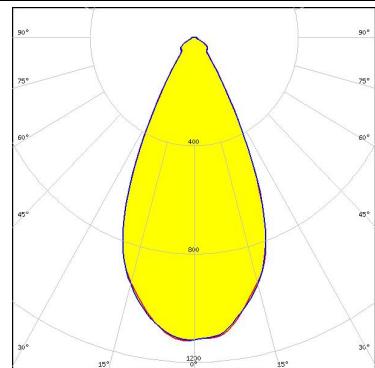
FWHM / FWTM 52.0°

Efficiency %

LEDs/each optic 1

Light colour White

Required components:



LUMILEDS

LED LUXEON C

FWHM / FWTM 50.0° / 75.0°

Efficiency 94 %

Peak intensity 1.1 cd/lm

LEDs/each optic 1

Light colour White

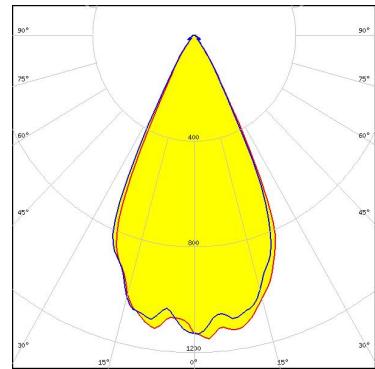
Required components:

OPTICAL RESULTS (SIMULATED):

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	White

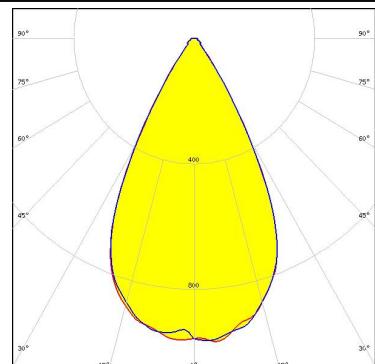
Required components:



LUMILEDS

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

Required components:

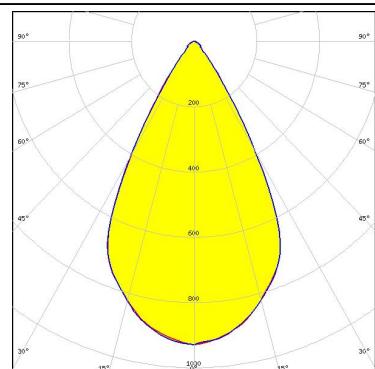


LUMILEDS

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

Required components:

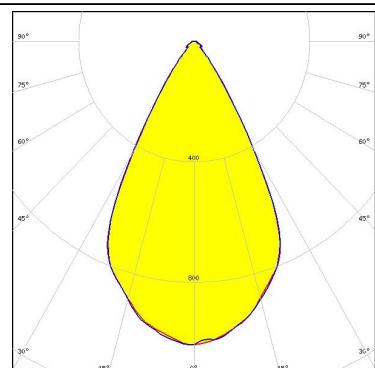
Protective plate, glass



LUMILEDS

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

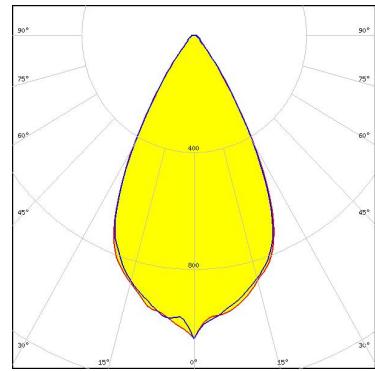
Required components:



OPTICAL RESULTS (SIMULATED):

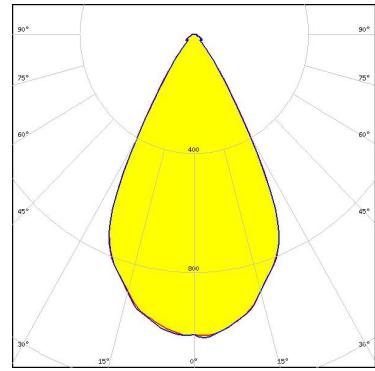
LUMILEDS

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



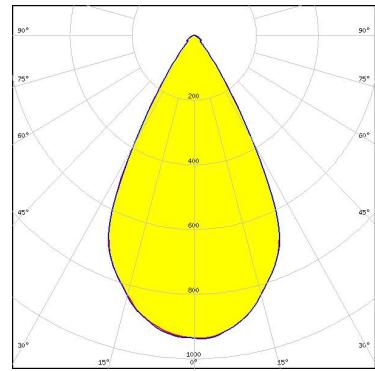
LUMILEDS

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



LUMILEDS

LED LUXEON XR-HL2X (L2H2-xxxxxxMLU010)
FWHM / FWTM 56.0° / 77.0°
Efficiency 96 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

LED LUXEON XR-HL2X (L2H2-xxxxxxMLU010)
FWHM / FWTM 57.0 + 56.0° / 78.0°
Efficiency 87 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

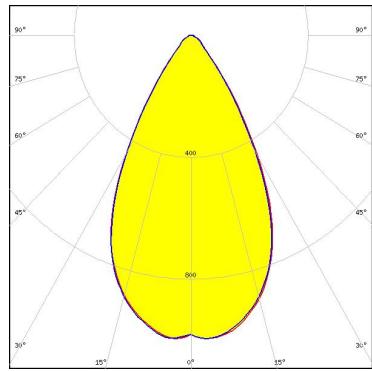
Protective plate, glass

OPTICAL RESULTS (SIMULATED):



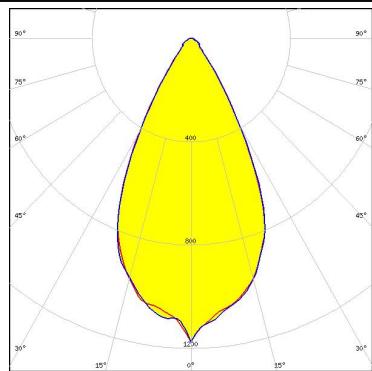
LED	NFMW48xA
FWHM / FWTM	57.0° / 86.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



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

Required components:



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

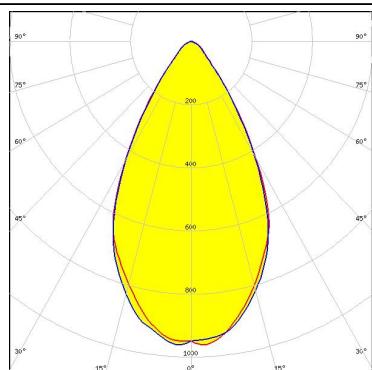
Required components:



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

Required components:

Protective plate, glass



OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

LED OSCONIQ C 2424

FWHM / FWTM 48.0° / 70.0°

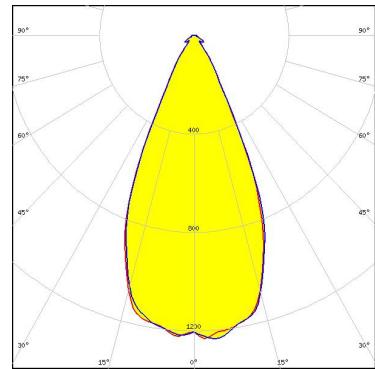
Efficiency 96 %

Peak intensity 1.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:



OSRAM

Opto Semiconductors

LED OSCONIQ C 3030

FWHM / FWTM 50.0° / 72.0°

Efficiency 88 %

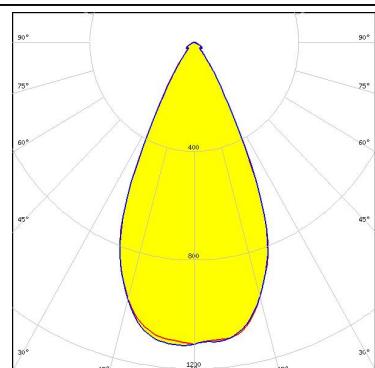
Peak intensity 1.1 cd/lm

LEDs/each optic 1

Light colour White

Required components:

Protective plate, glass



OSRAM

Opto Semiconductors

LED OSCONIQ P 3737 (2W version)

FWHM / FWTM 48.0° / 70.0°

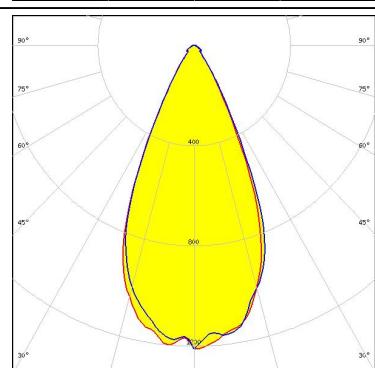
Efficiency 93 %

Peak intensity 1.2 cd/lm

LEDs/each optic 1

Light colour White

Required components:



OSRAM

Opto Semiconductors

LED OSCONIQ P 3737 (3W version)

FWHM / FWTM 54.0° / 77.0°

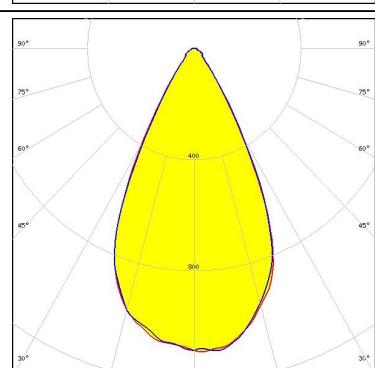
Efficiency 94 %

Peak intensity 1.1 cd/lm

LEDs/each optic 1

Light colour White

Required components:



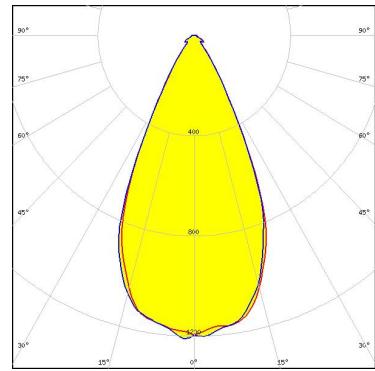
OPTICAL RESULTS (SIMULATED):

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	White

Required components:

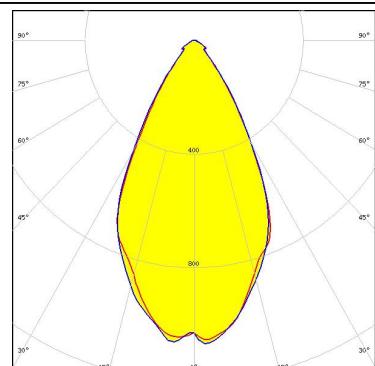


OSRAM

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	White

Required components:



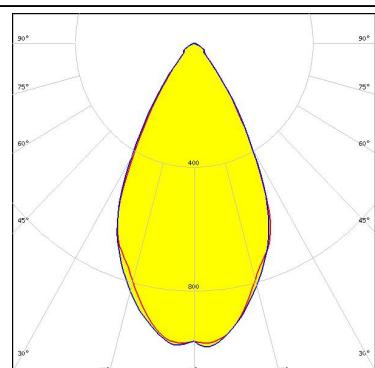
OSRAM

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	White

Required components:

Protective plate, glass



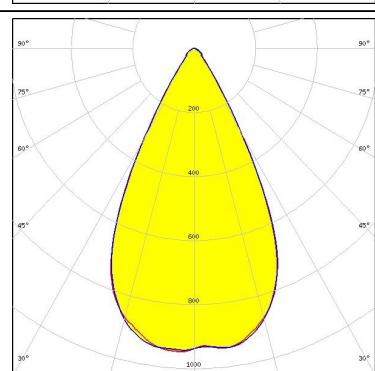
OSRAM

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	White

Required components:

Protective plate, glass



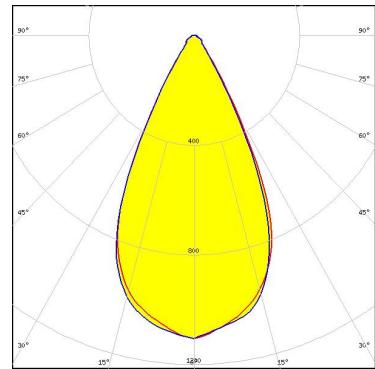
OPTICAL RESULTS (SIMULATED):

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	White

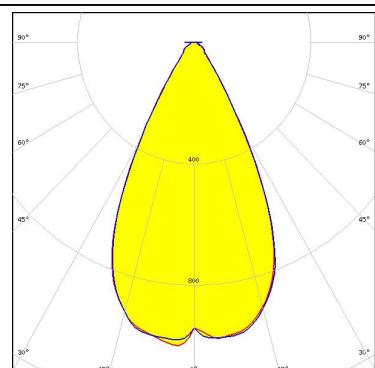
Required components:



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	White

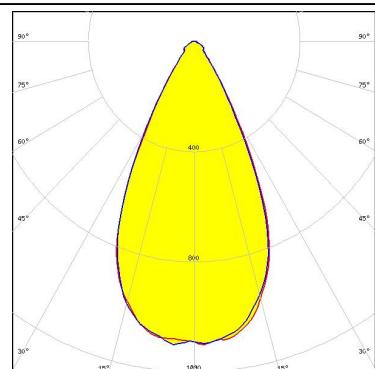
Required components:



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	White

Required components:

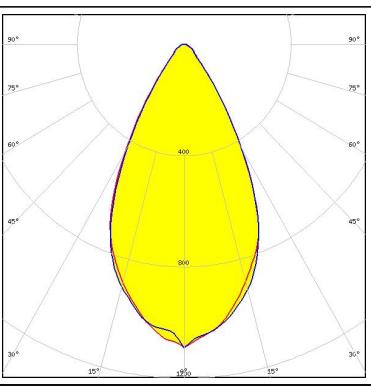
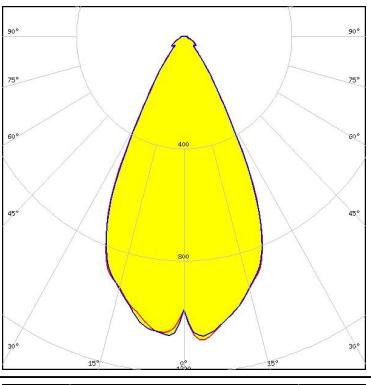
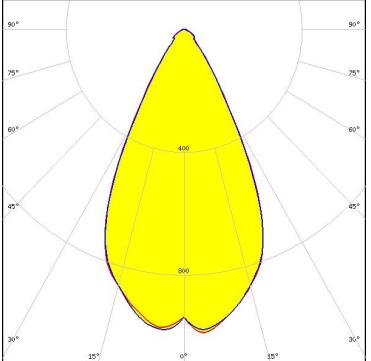
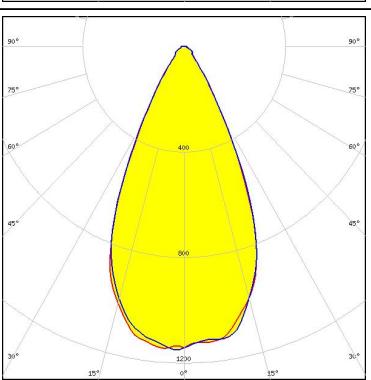


SEOUL SEMICONDUCTOR

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

Required components:

OPTICAL RESULTS (SIMULATED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED SEOUL DC 5050 6V</p> <p>FWHM / FWTM 54.0° / 84.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>SEOUL SEMICONDUCTOR</p> <p>LED Z5M5</p> <p>FWHM / FWTM 54.0° / 78.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 1.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>SEOUL SEMICONDUCTOR</p> <p>LED Z5M5</p> <p>FWHM / FWTM 54.0° / 80.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22T</p> <p>FWHM / FWTM 50.0° / 76.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

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:

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