

HB-2X2-W

~50° wide beam

TECHNICAL SPECIFICATIONS:

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

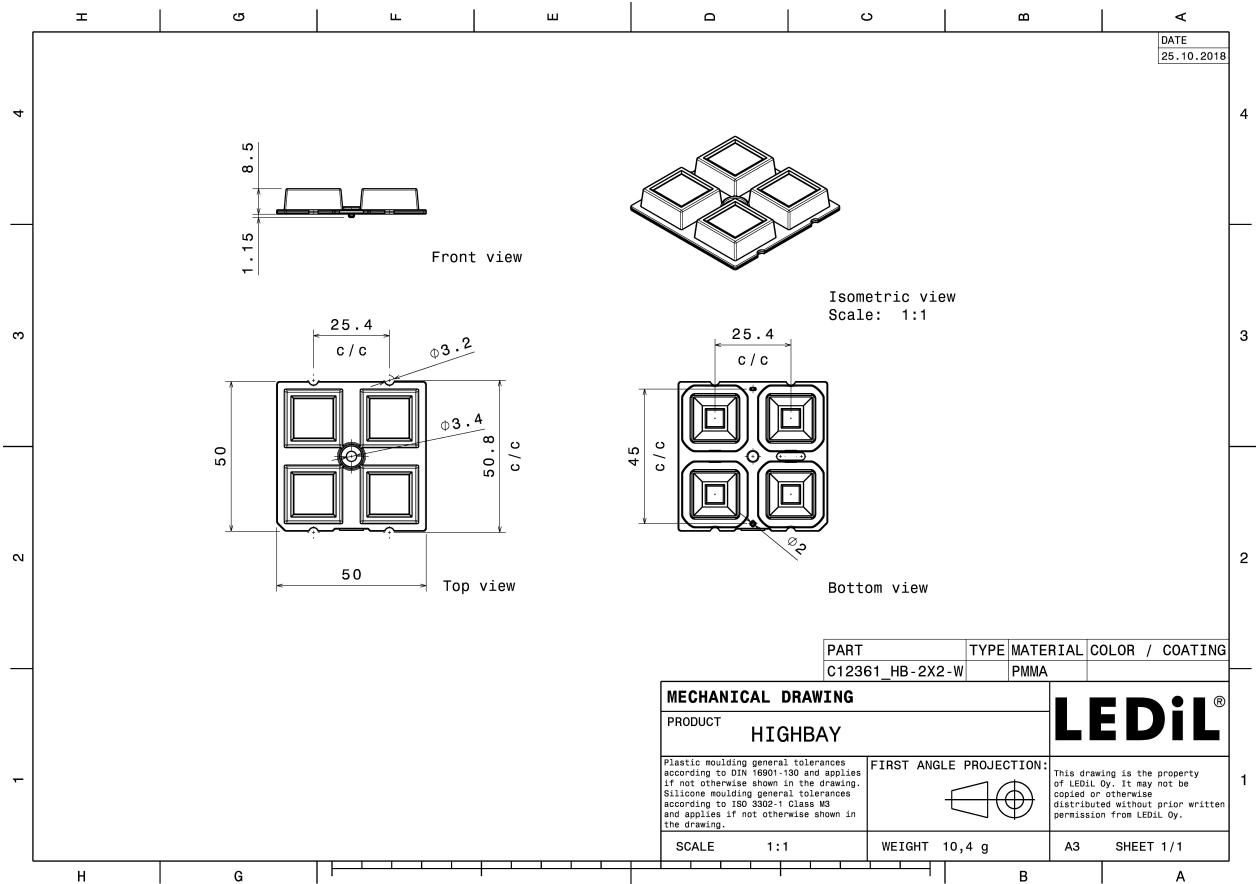


MATERIAL SPECIFICATIONS:

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 » Box size: 480 x 280 x 300 mm	800	160	160	9.1

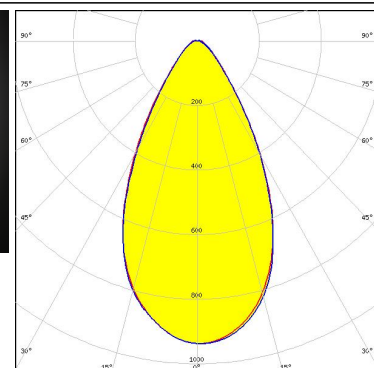
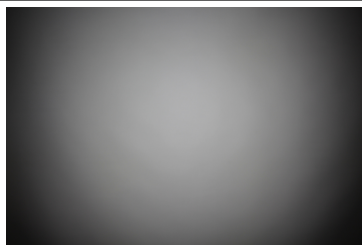


See also our general installation guide: www.ledil.com/installation_guide

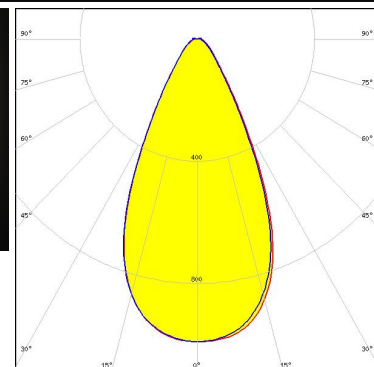
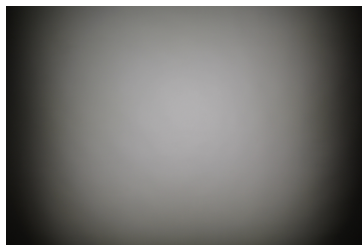
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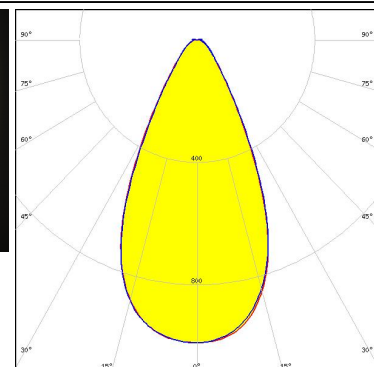
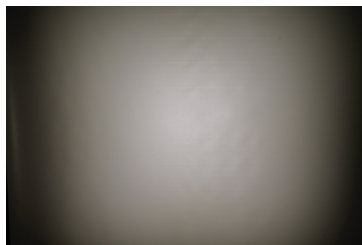
LED Bridgelux SMD 5050
 FWHM / FWTM 55.0° / 93.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



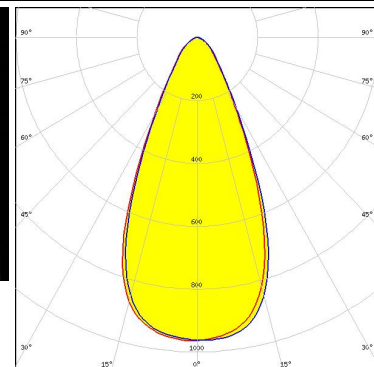
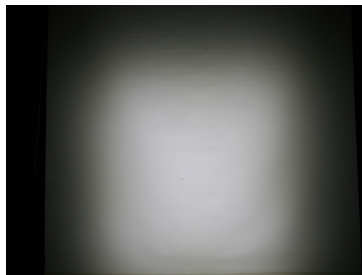
LED QUICK FLUX XTP 2x4 xxx LS G5
 FWHM / FWTM 52.0° / 85.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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:



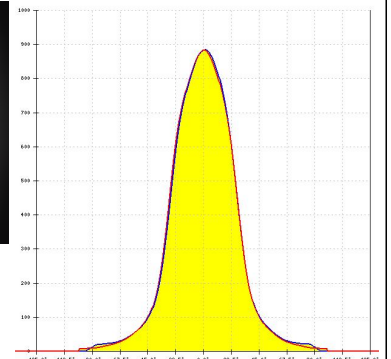
LED XB-D
 FWHM / FWTM 48.0° / 85.0°
 Efficiency 86 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

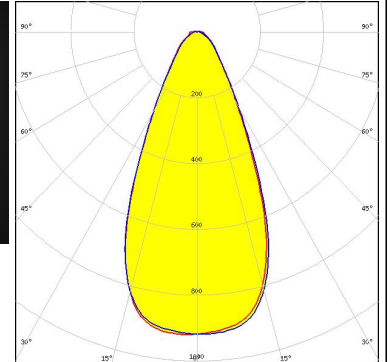
CREE LED

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



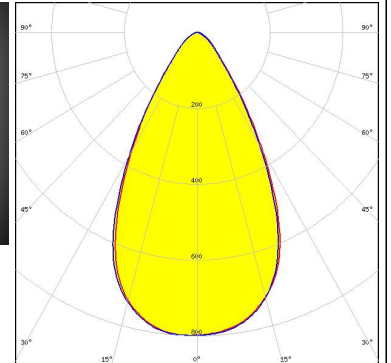
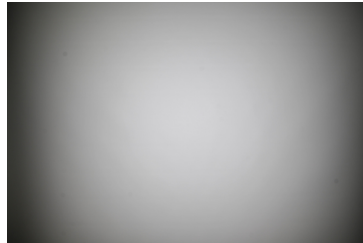
CREE LED

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



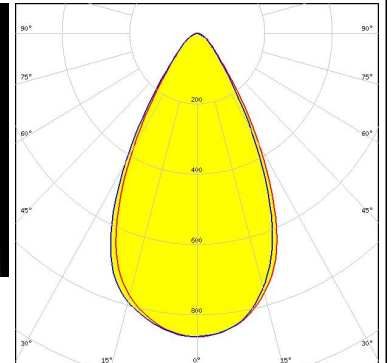
CREE LED

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



CREE LED

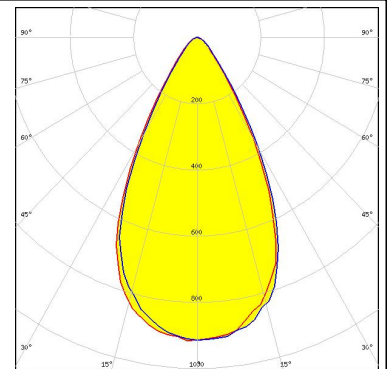
LED XM-L
FWHM / FWTM 57.0° / 90.0°
Efficiency 89 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

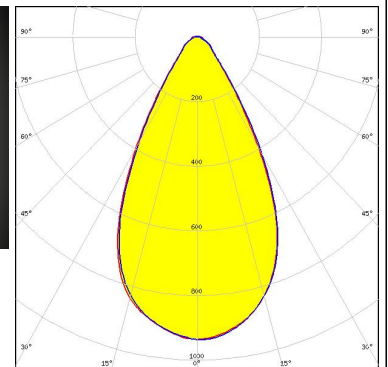
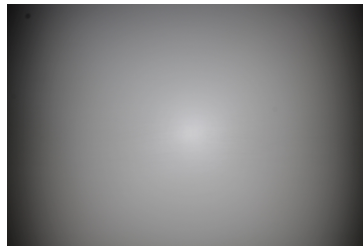
CREE LED

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:



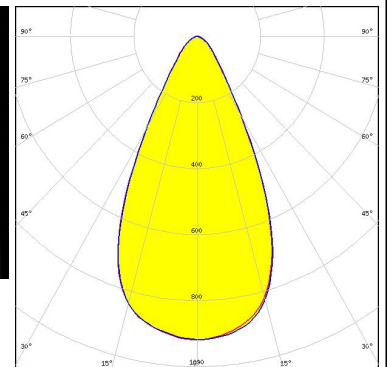
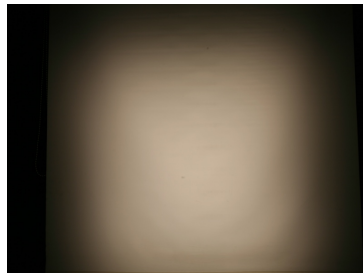
CREE LED

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:



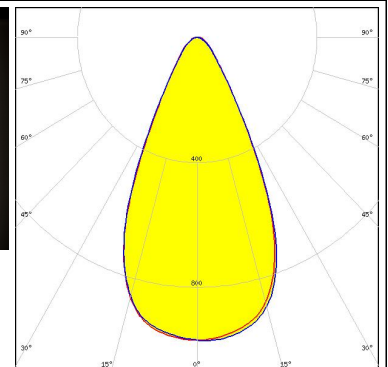
CREE LED

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



CREE LED

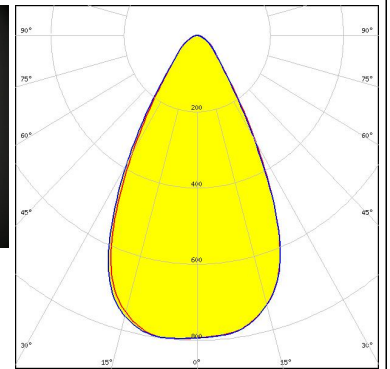
LED XP-G2
FWHM / FWTM 51.0° / 84.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

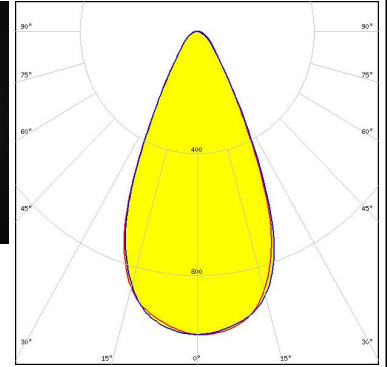
CREE LED

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



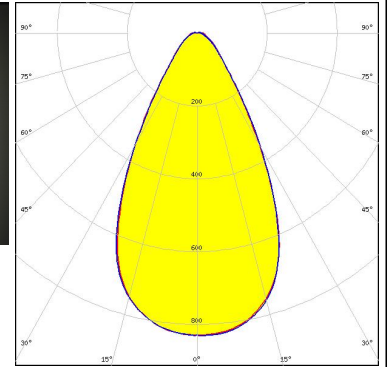
CREE LED

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



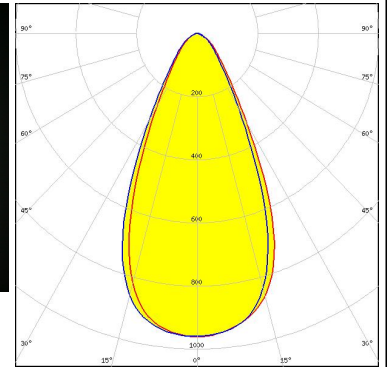
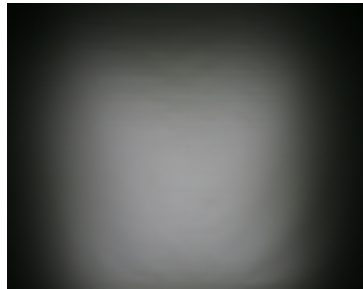
CREE LED

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



CREE LED

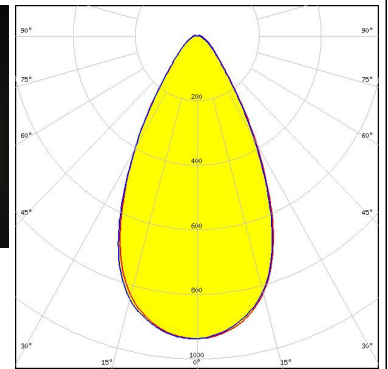
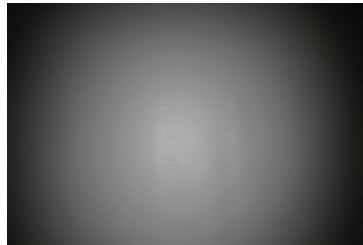
LED XT-E
FWHM / FWTM 50.0° / 88.0°
Efficiency 87 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



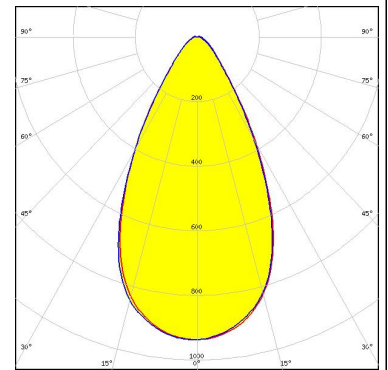
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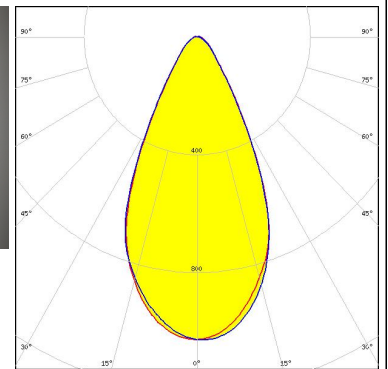
LED LUXEON 5050 Round LES
 FWHM / FWTM 55.0° / 91.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



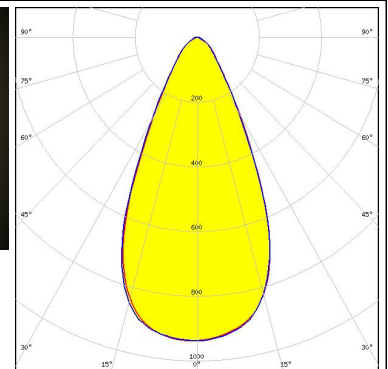
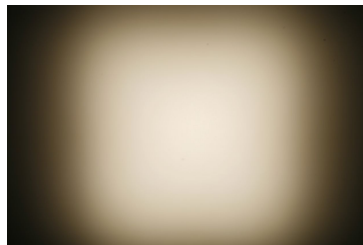
LED LUXEON 5050 Square LES
 FWHM / FWTM 55.0° / 91.0°
 Efficiency 94 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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:



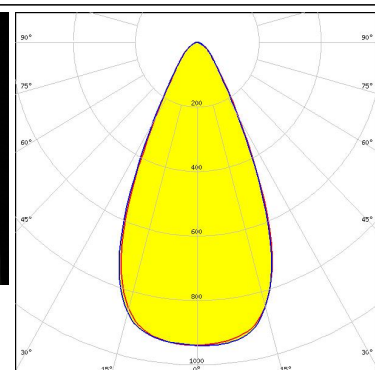
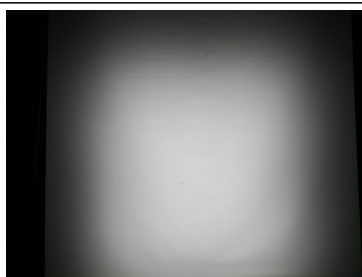
LED LUXEON Q
 FWHM / FWTM 50.0° / 86.0°
 Efficiency 86 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

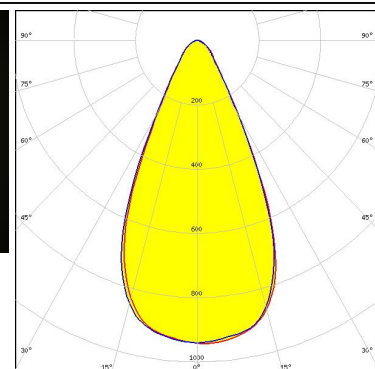
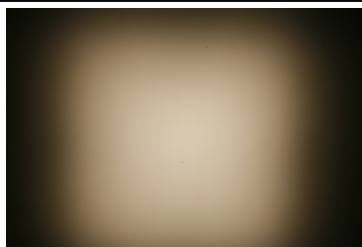
LUMILEDS

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



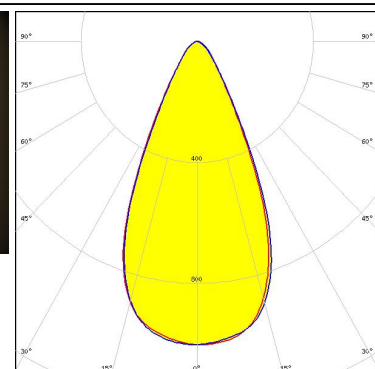
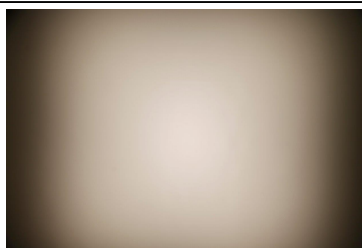
LUMILEDS

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



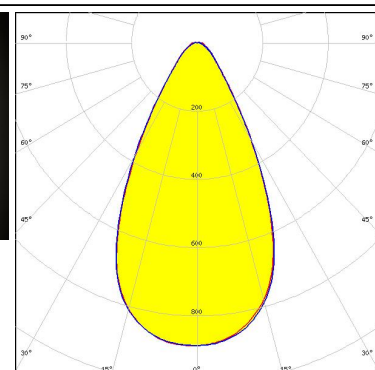
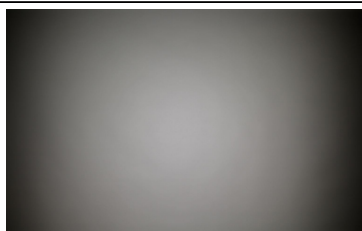
LUMILEDS

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



LUMILEDS

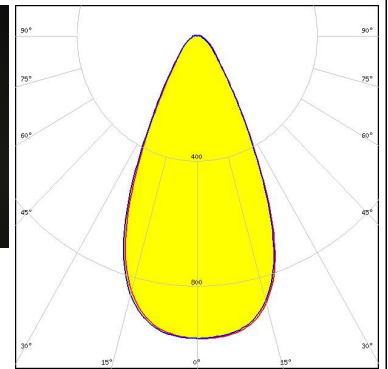
LED LUXEON V
 FWHM / FWTM 55.0° / 91.0°
 Efficiency 93 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



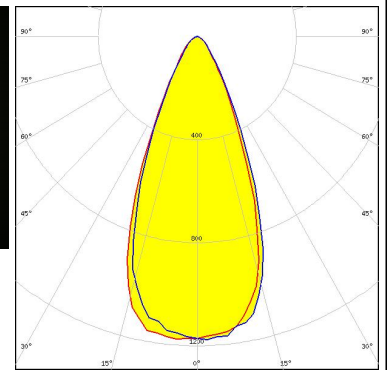
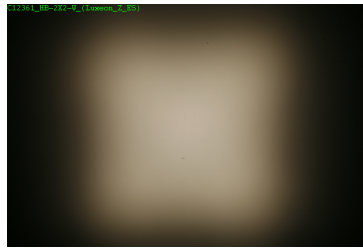
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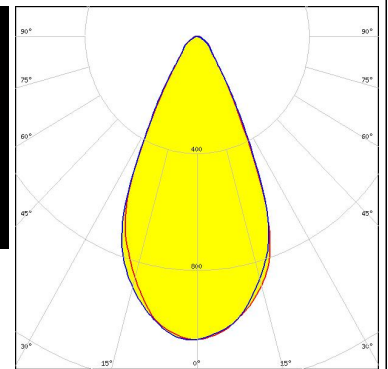
LED LUXEON V2
FWHM / FWTM 51.0° / 86.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



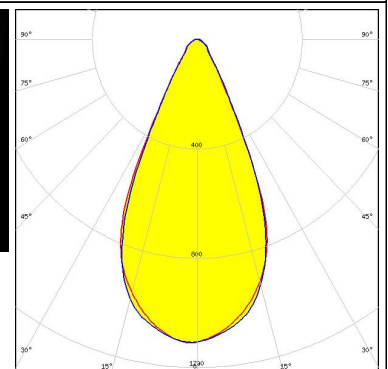
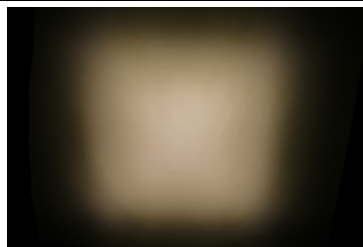
LED LUXEON Z ES
FWHM / FWTM 46.0° / 76.0°
Efficiency 87 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



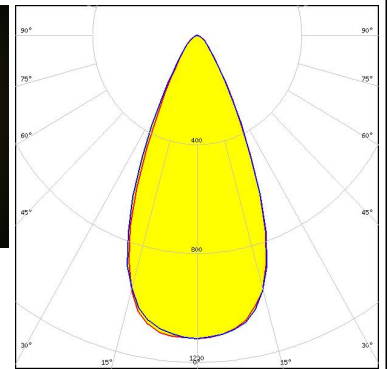
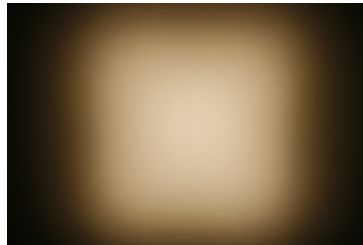
LED RecLED 122x50mm 1900lm 730 2x4 Opt G1
FWHM / FWTM 50.0° / 75.0°
Efficiency 98 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



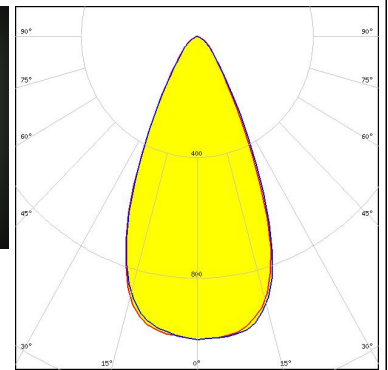
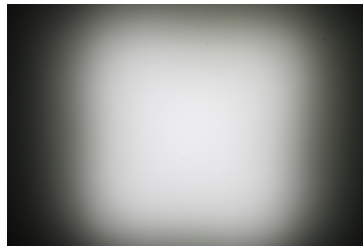
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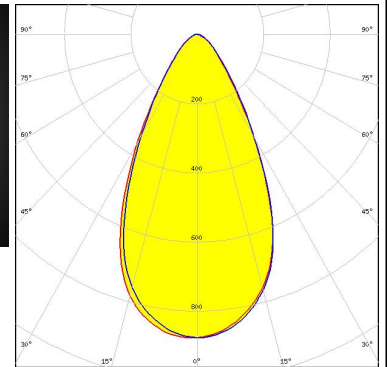
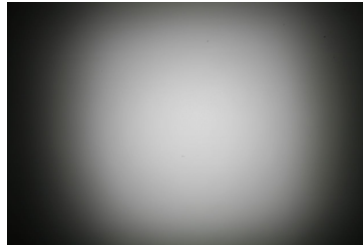
LED NCSxx19A
FWHM / FWTM 48.0° / 77.0°
Efficiency 85 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



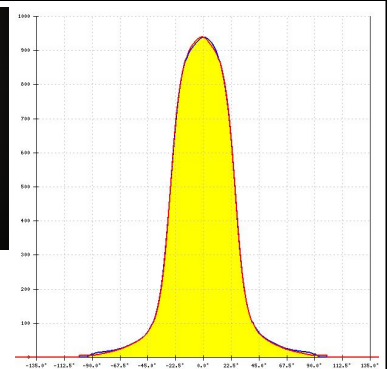
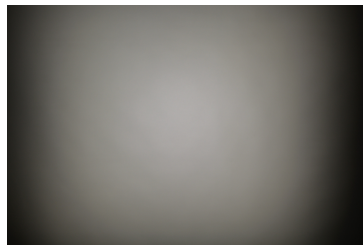
LED NCSxx19B
FWHM / FWTM 50.0° / 83.0°
Efficiency 85 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



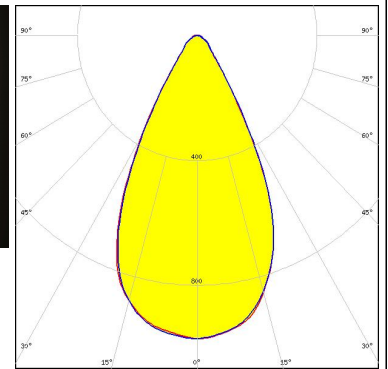
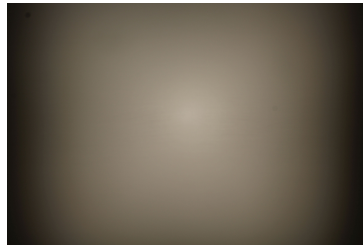
LED NVSW219D
FWHM / FWTM 53.0° / 83.0°
Efficiency 94 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



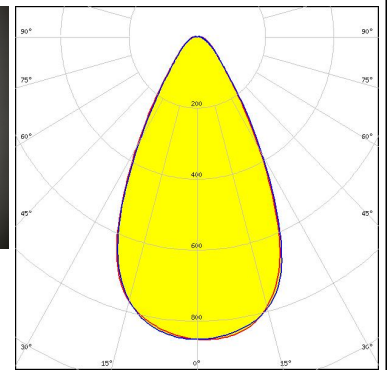
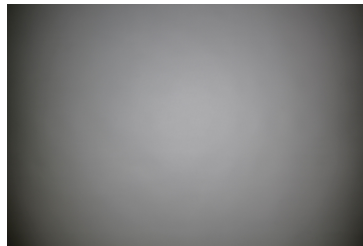
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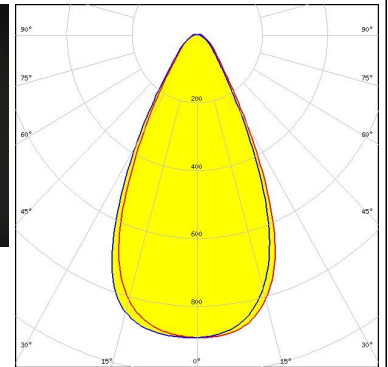
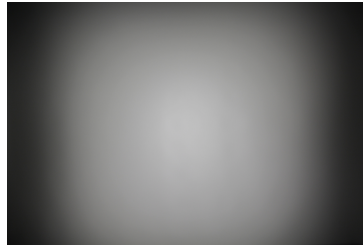
LED NVSW219F
FWHM / FWTM 54.0° / 81.0°
Efficiency 97 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



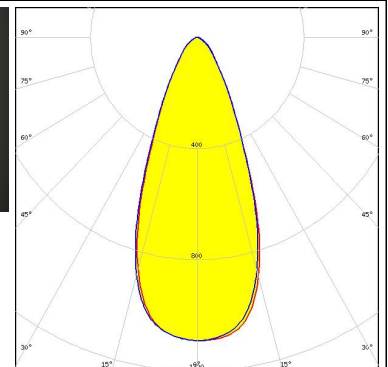
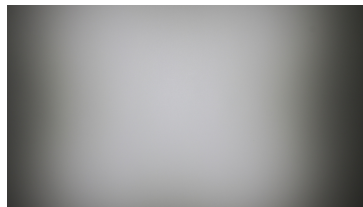
LED NVSW319B
FWHM / FWTM 56.0° / 93.0°
Efficiency 93 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:



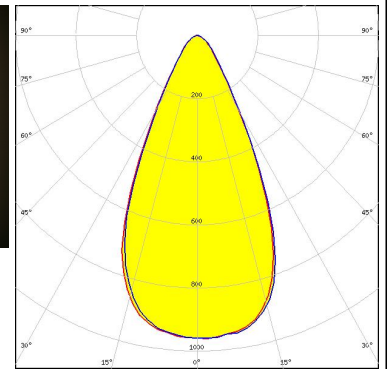
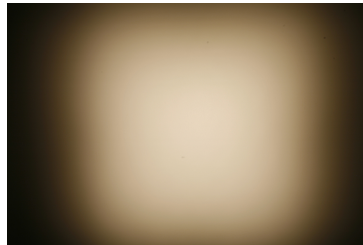
LED NVSxE21A
FWHM / FWTM 43.0° / 80.0°
Efficiency 86 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



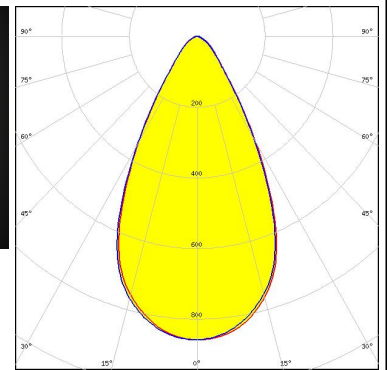
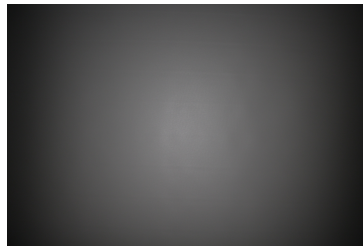
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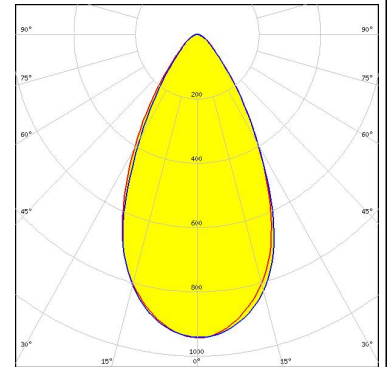
LED NVSxx19B/NVSxx19C
 FWHM / FWTM 51.0° / 82.0°
 Efficiency 85 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



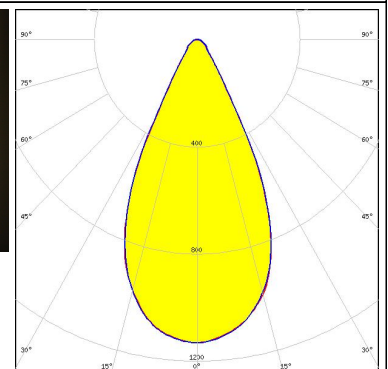
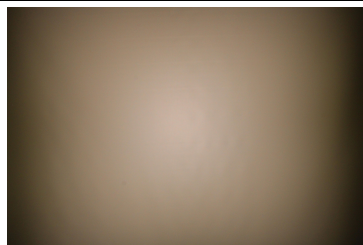
LED NWSx229A
 FWHM / FWTM 57.0° / 90.0°
 Efficiency 86 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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



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:

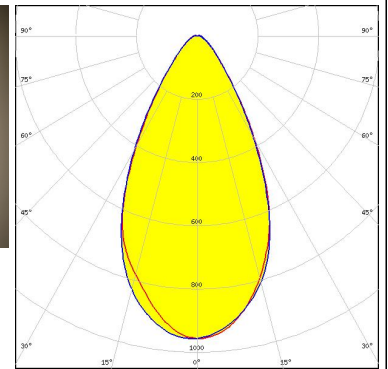
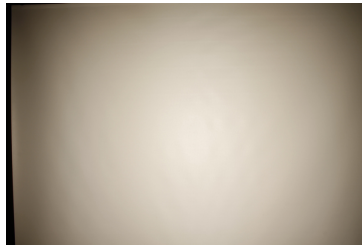


PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

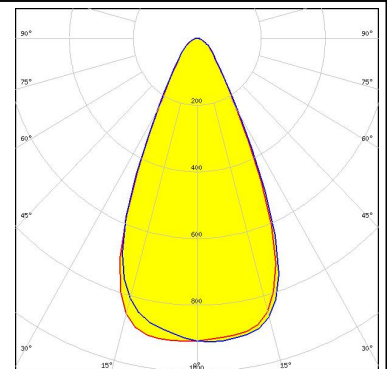
LED Duris S8
FWHM / FWTM 55.0° / 91.0°
Efficiency 93 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

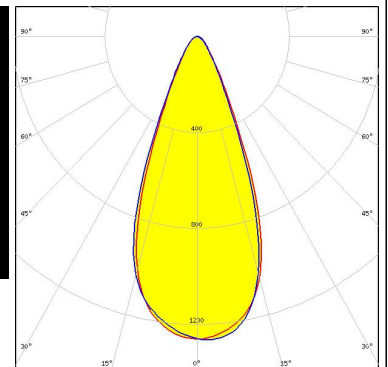
LED OSLON Square PC
FWHM / FWTM 54.0° / 85.0°
Efficiency 87 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

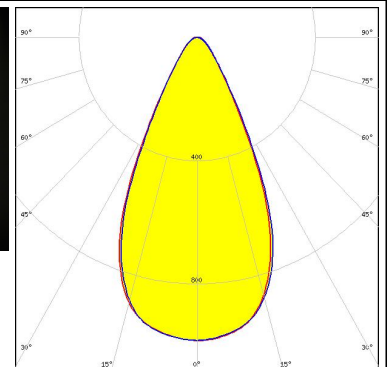
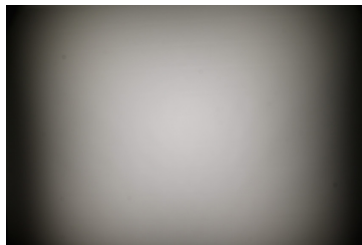
Opto Semiconductors

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:



PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4+

FWHM / FWTM 55.0° / 88.0°

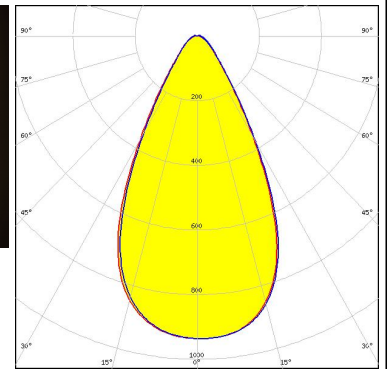
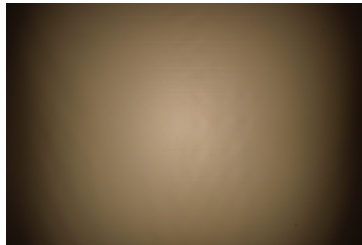
Efficiency 97 %

Peak intensity 0.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:



PHILIPS

LED Fortimo FastFlex LED 2x8 DA G5

FWHM / FWTM 50.0° / 77.0°

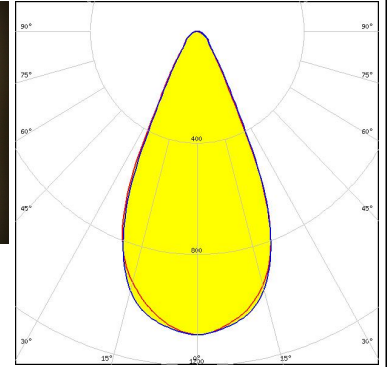
Efficiency 97 %

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°

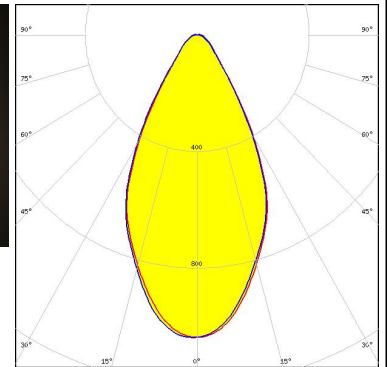
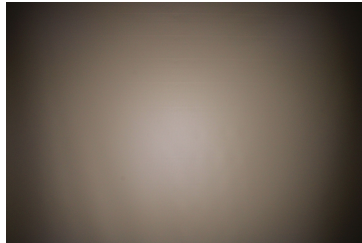
Efficiency 97 %

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°

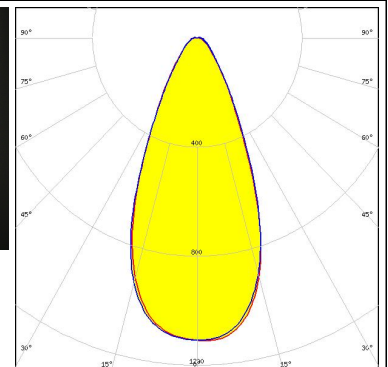
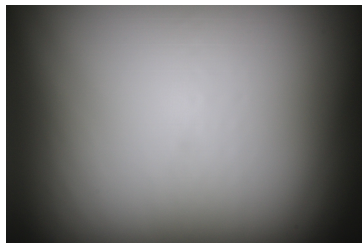
Efficiency 97 %

Peak intensity 1.1 cd/lm

LEDs/each optic 1

Light colour White

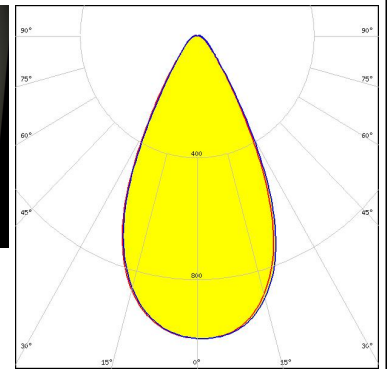
Required components:



PHOTOMETRIC DATA (MEASURED):

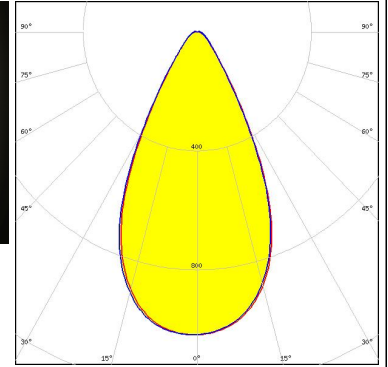
SAMSUNG

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



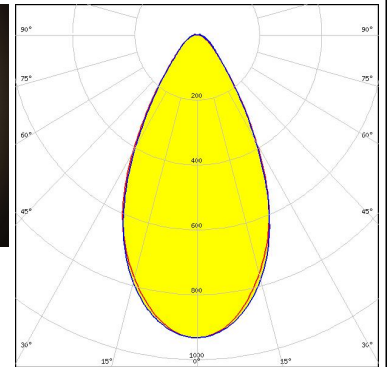
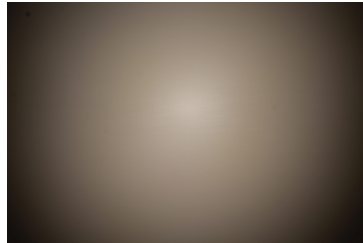
SAMSUNG

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:



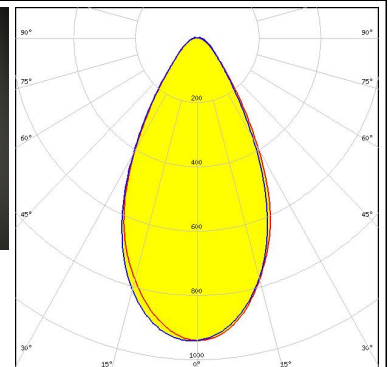
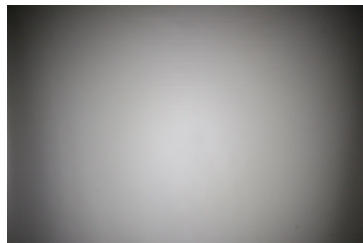
SAMSUNG

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

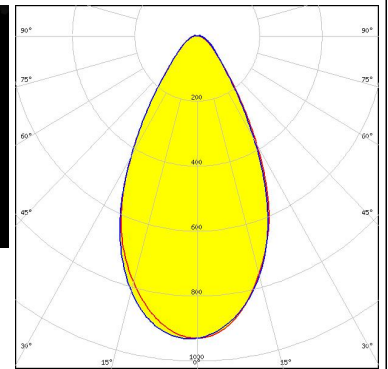
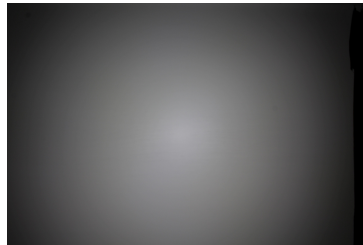
LED HiLOM RM16 Z (LH502C)
FWHM / FWTM 55.0° / 95.0°
Efficiency 96 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

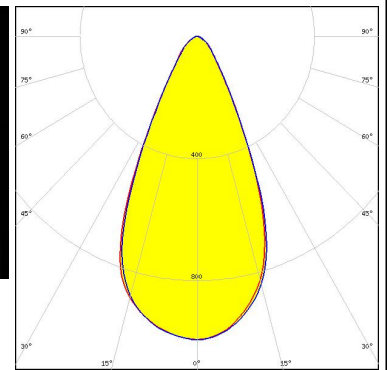
SAMSUNG

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:



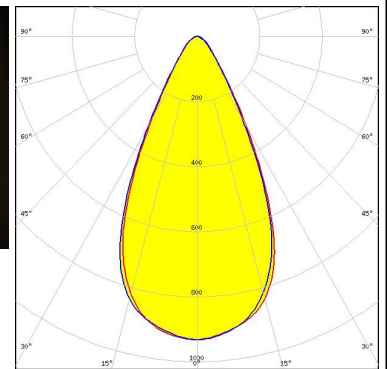
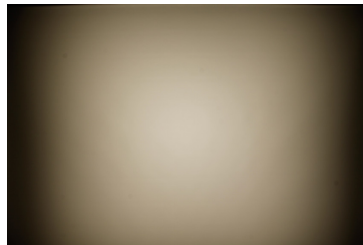
SAMSUNG

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



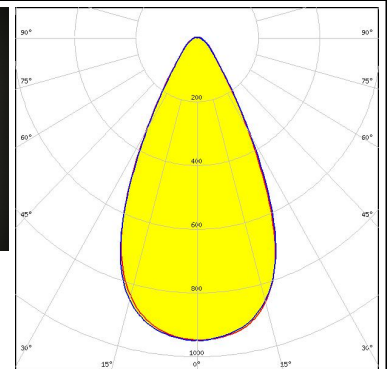
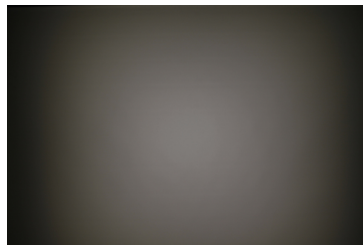
SAMSUNG

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

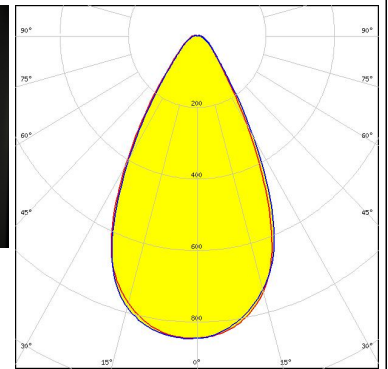
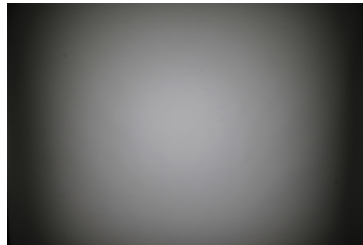
LED LH351C
 FWHM / FWTM 53.0° / 85.0°
 Efficiency 93 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

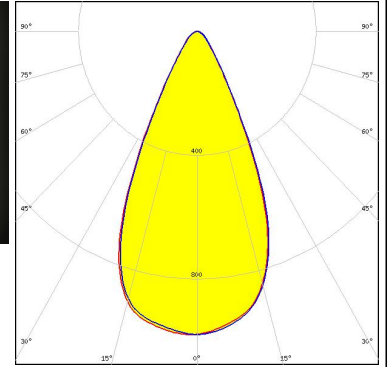
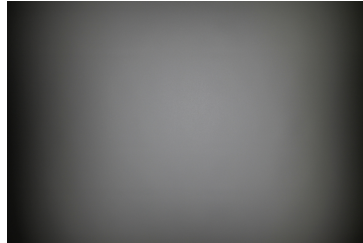
SAMSUNG

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:



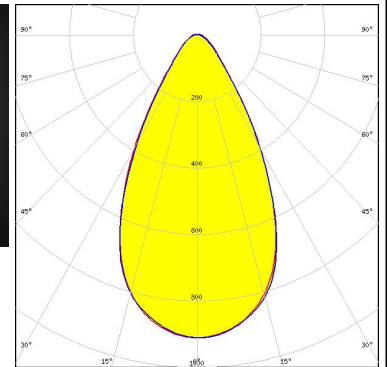
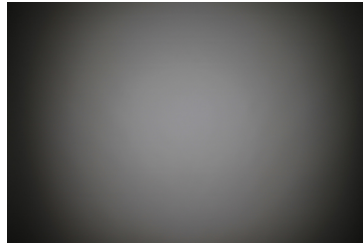
SAMSUNG

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

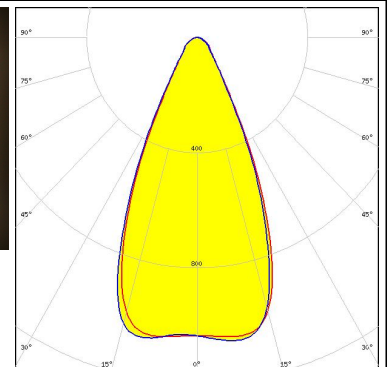
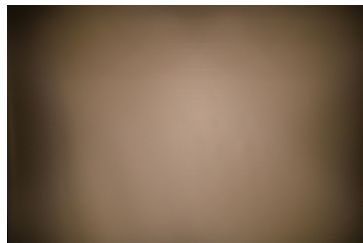


SAMSUNG

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:



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:



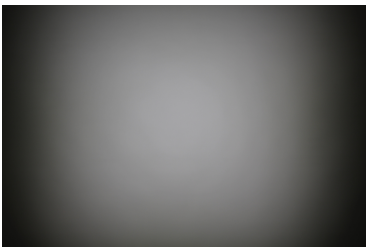
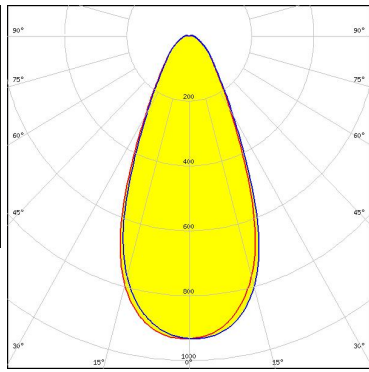
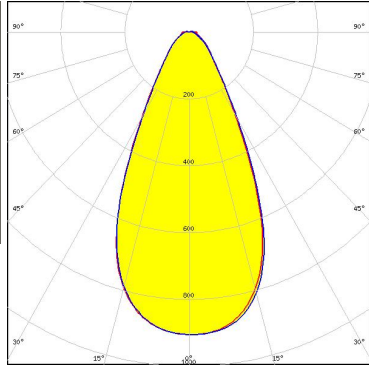
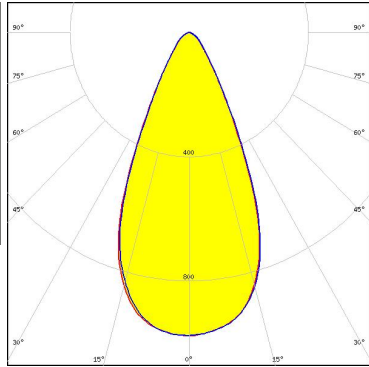
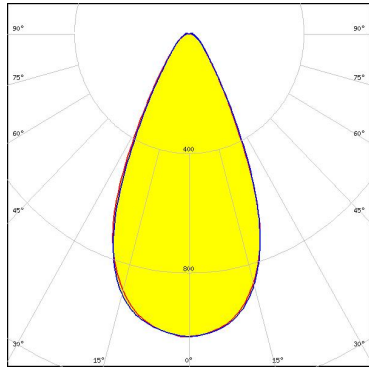
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR LED 2x2 Y22 module - SMJQ-D48W16AA-XX FWHM / FWTM 54.0° / 102.0° Efficiency 92 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components:		
SEOUL SEMICONDUCTOR LED Z5 FWHM / FWTM 48.0° / 80.0° Efficiency 88 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:		
SEOUL SEMICONDUCTOR LED Z5M1/Z5M2 FWHM / FWTM 51.0° / 82.0° Efficiency 85 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:		
SEOUL SEMICONDUCTOR LED Z5M3 FWHM / FWTM 53.0° / 93.0° Efficiency 94 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:		

PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR LED Z5M4 FWHM / FWTM 54.0° / 80.0° Efficiency 97 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:		
SEOUL SEMICONDUCTOR LED Z8Y15 FWHM / FWTM 45.0° / 89.0° Efficiency 79 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:		
SEOUL SEMICONDUCTOR LED Z8Y19 FWHM / FWTM 54.0° / 102.0° Efficiency 92 % Peak intensity 0.8 cd/lm LEDs/each optic 4 Light colour White Required components:		
SEOUL SEMICONDUCTOR LED Z8Y19 FWHM / FWTM 46.0° / 89.0° Efficiency 79 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:		

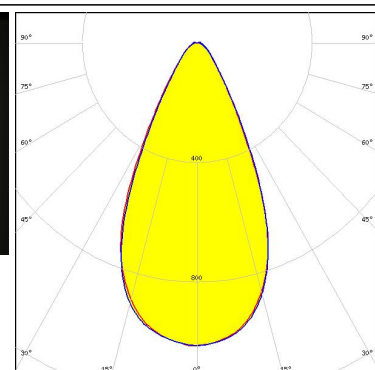
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR LED Z8Y22 FWHM / FWTM 48.0° / 94.0° Efficiency 92 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:		
SEOUL SEMICONDUCTOR 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:		
TOSHIBA Leading Innovation >>> LED TL1L4 FWHM / FWTM 48.0° / 78.0° Efficiency 81 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:		
TRIDONIC LED RLE 2x4 2000lm HP EXC2 OTD FWHM / FWTM 51.0° / 84.0° Efficiency 94 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:		

PHOTOMETRIC DATA (MEASURED):

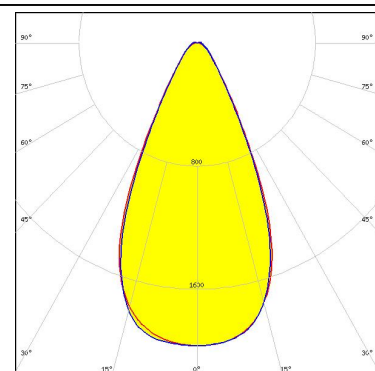
TRIDONIC

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



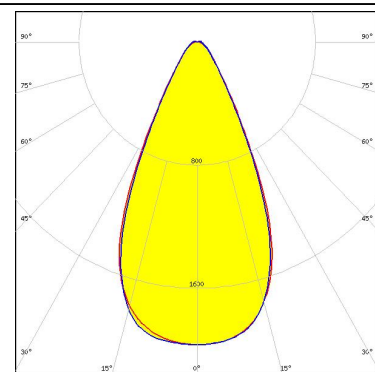
TRIDONIC

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:



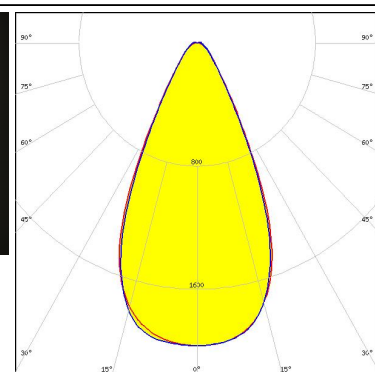
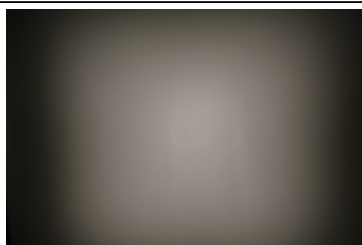
TRIDONIC

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

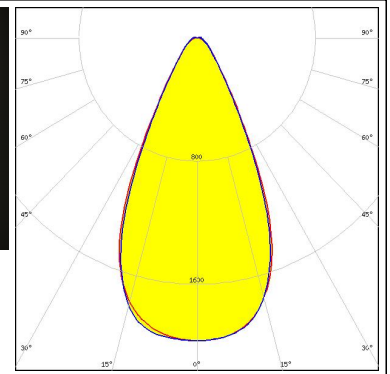
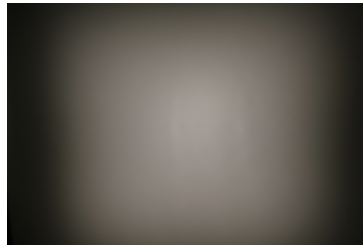
LED RLE G1 49x223mm 4000lm xxx EXC OTD
FWHM / FWTM 52.0° / 83.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

TRIDONIC

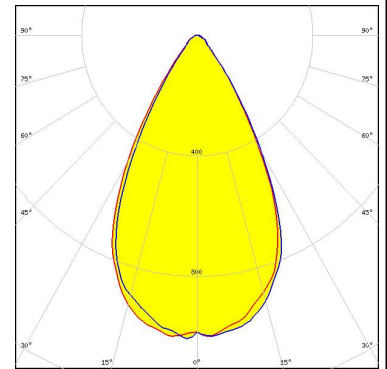
LED RLE G1 49x245mm 4000lm xxx EXC OTD
 FWHM / FWTM 52.0° / 83.0°
 Efficiency 94 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



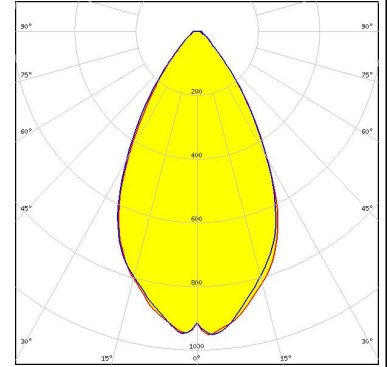
PHOTOMETRIC DATA (SIMULATED):



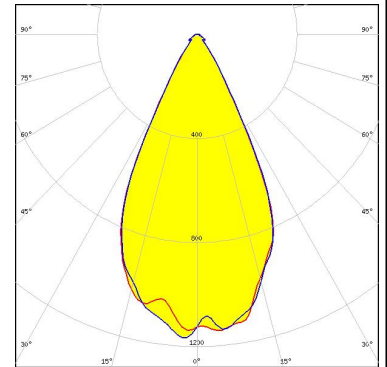
LED J Series 5050 Round LES
FWHM / FWTM 57.0° / 84.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



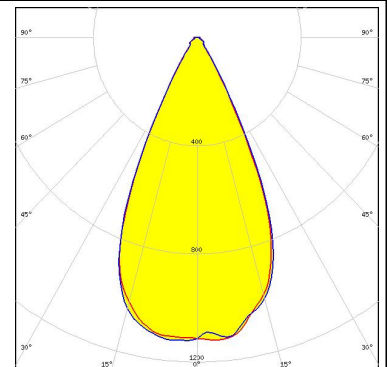
LED MHB-A/B
FWHM / FWTM 58.0° / 93.0°
Efficiency 94 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:



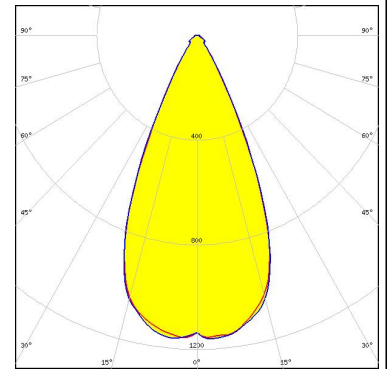
LED XP-E
FWHM / FWTM 50.0° / 68.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



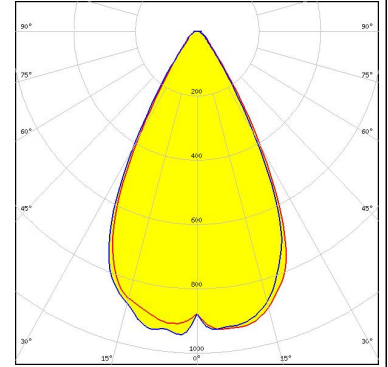
PHOTOMETRIC DATA (SIMULATED):



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:

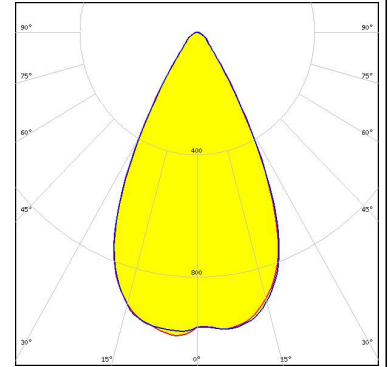


LED XP-G2 HE
 FWHM / FWTM 57.0° / 82.0°
 Efficiency 95 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

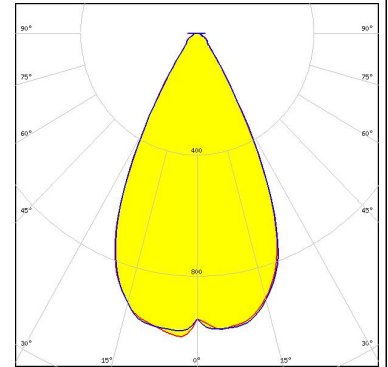


LED XP-G3
 FWHM / FWTM 55.0° / 81.0°
 Efficiency 88 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

Protective plate, glass



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

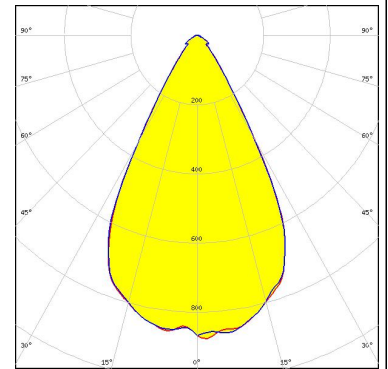


PHOTOMETRIC DATA (SIMULATED):



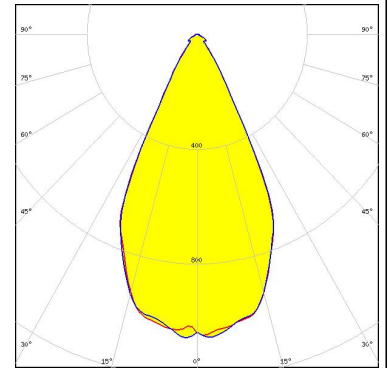
LED XP-L HD
 FWHM / FWTM 58.0° / 80.0°
 Efficiency 87 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

Protective plate, glass



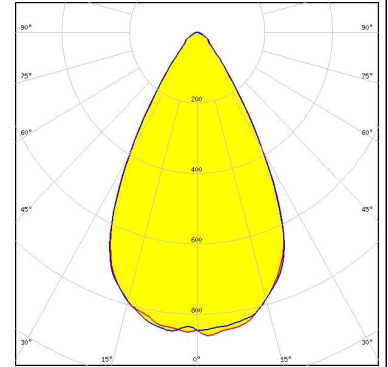
LED XP-L HI
 FWHM / FWTM 52.0° / 72.0°
 Efficiency 88 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

Protective plate, glass

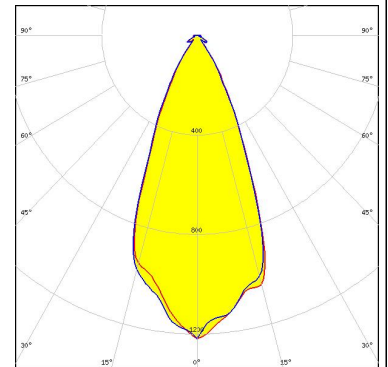


LED XP-L2
 FWHM / FWTM 58.0° / 86.0°
 Efficiency 89 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

Protective plate, glass



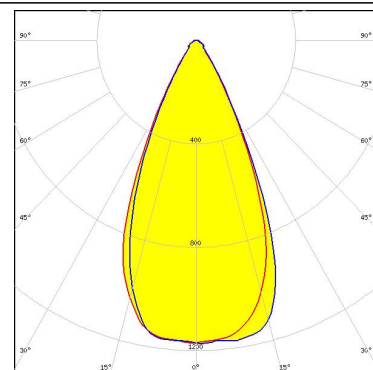
LED XQ-E HI
 FWHM / FWTM 42.0° / 68.0°
 Efficiency 93 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

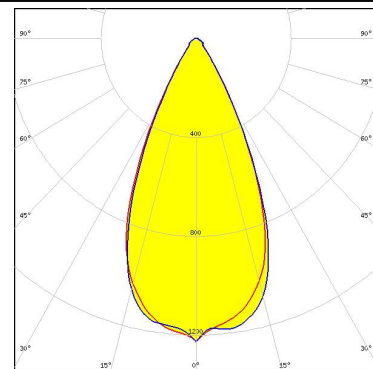
LUMILEDS

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



LUMILEDS

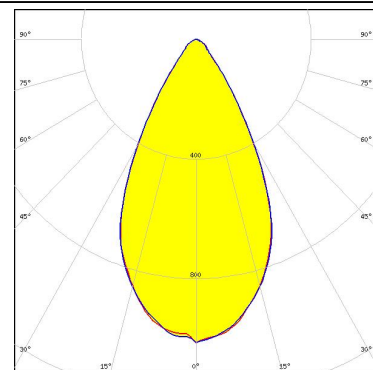
LED LUXEON 3535L
FWHM / FWTM 49.0° / 73.0°
Efficiency 94 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



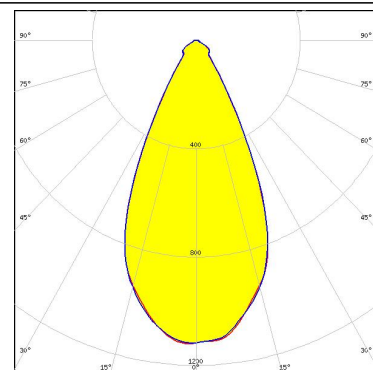
LUMILEDS

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

PHOTOMETRIC DATA (SIMULATED):

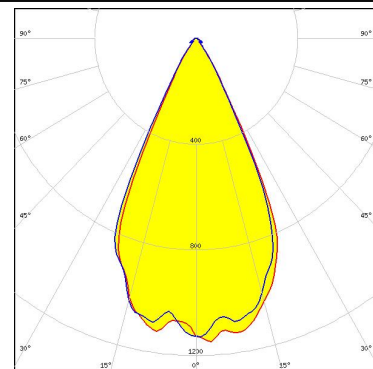
LUMILEDS

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



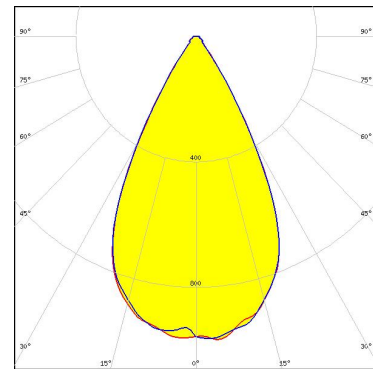
LUMILEDS

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:



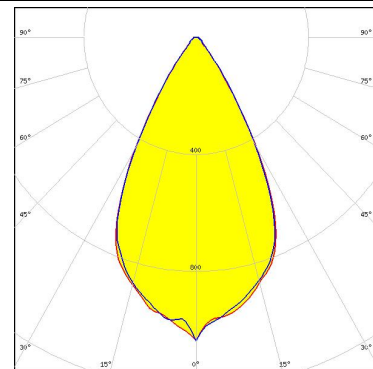
LUMILEDS

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



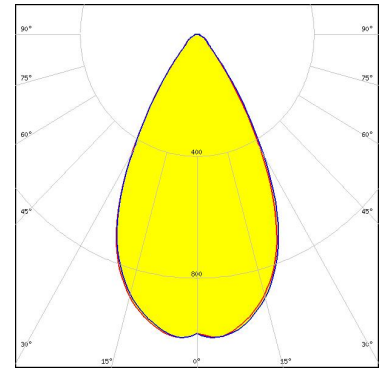
PHOTOMETRIC DATA (SIMULATED):



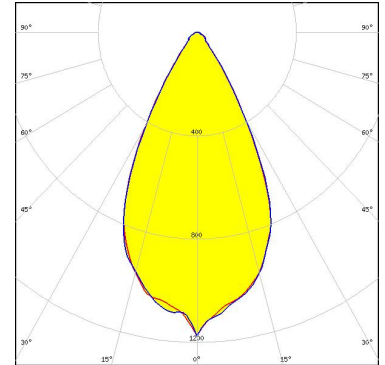
LED LUXEON Rebel
 FWHM / FWTM 52.0°
 Efficiency %
 LEDs/each optic 1
 Light colour White
 Required components:



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:

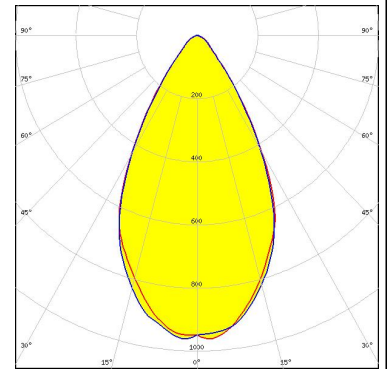
PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

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

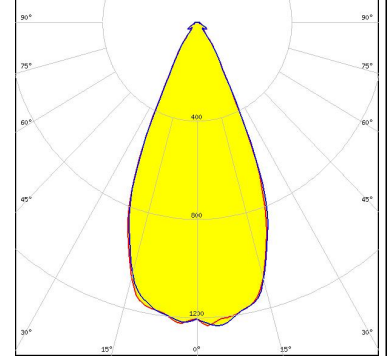
Protective plate, glass



OSRAM

Opto Semiconductors

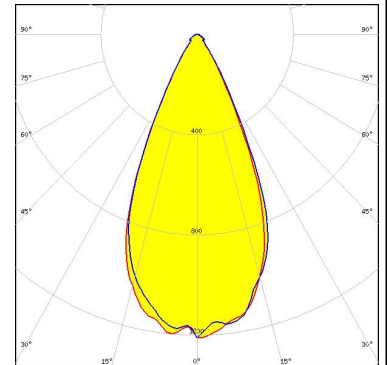
LED OSCONIQ C 2424
FWHM / FWTM 48.0° / 70.0° + 69.0°
Efficiency 96 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

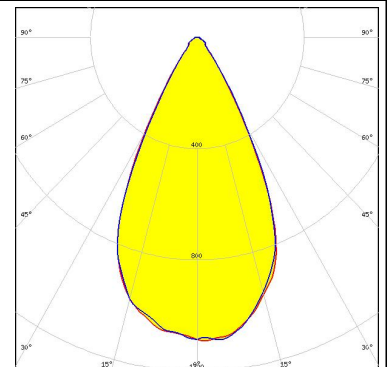
LED OSCONIQ P 3737 (2W version)
FWHM / FWTM 48.0° / 70.0°
Efficiency 93 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:

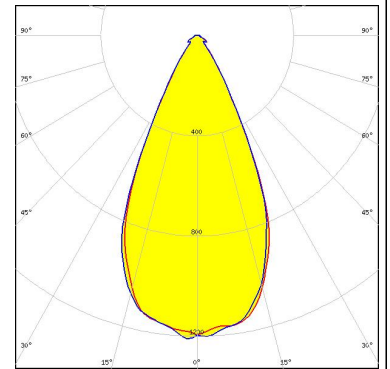


PHOTOMETRIC DATA (SIMULATED):

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:

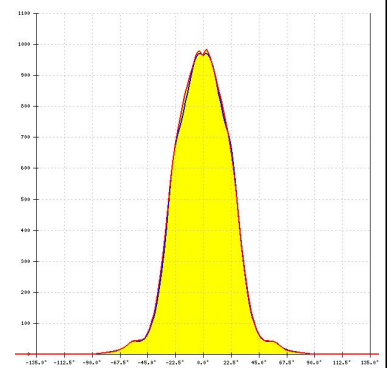


OSRAM

Opto Semiconductors

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

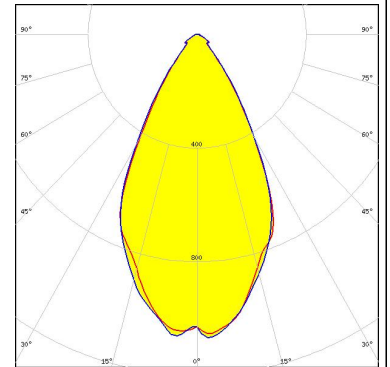
Protective plate, glass



OSRAM

Opto Semiconductors

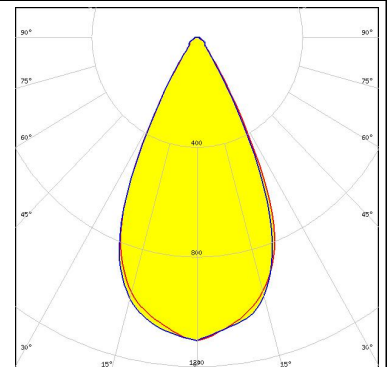
LED OSCONIQ S 5050
FWHM / FWTM 56.0° / 82.0° + 84.0°
Efficiency 95 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

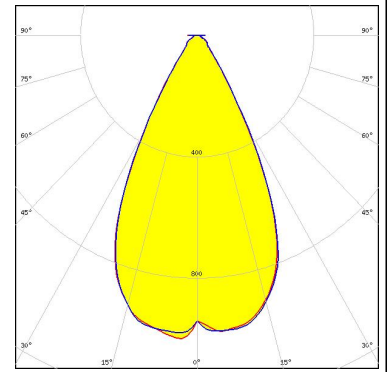
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 52.0° / 74.0°
Efficiency 96 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



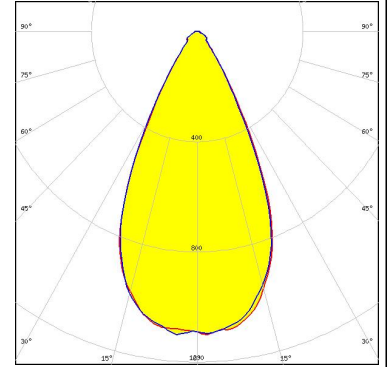
PHOTOMETRIC DATA (SIMULATED):

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:



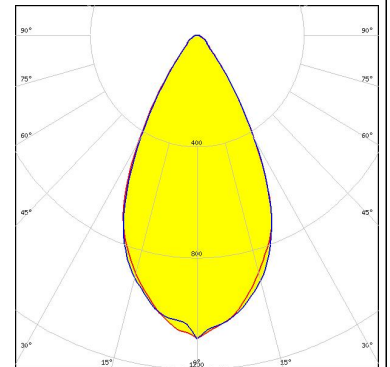
LED Acrich MJT 4040
 FWHM / FWTM 52.0° / 77.0°
 Efficiency 94 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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:



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



PHOTOMETRIC DATA (SIMULATED):



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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