HB-2X2-O

~20° + 115° oval beam for aisle lighting

TECHNICAL SPECIFICATIONS:

Dimensions	50.0 x 50.0 mm
Height	10.6 mm
Fastening	glue, pin, screw
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

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

ORDERING INFORMATION:
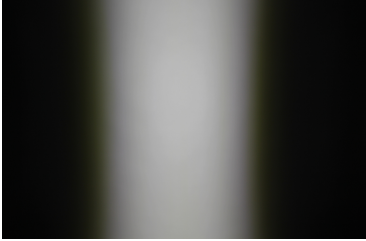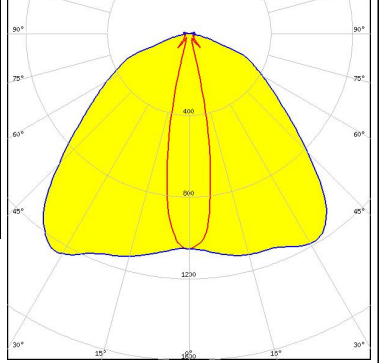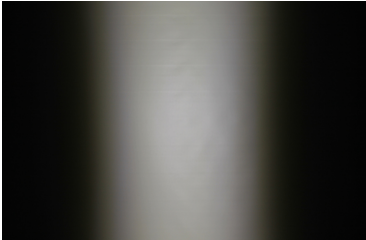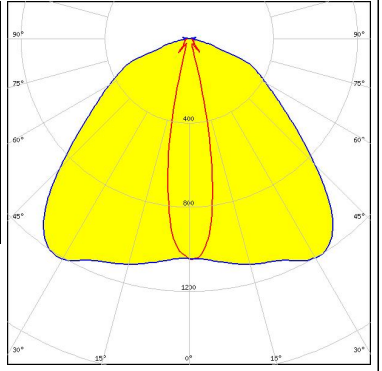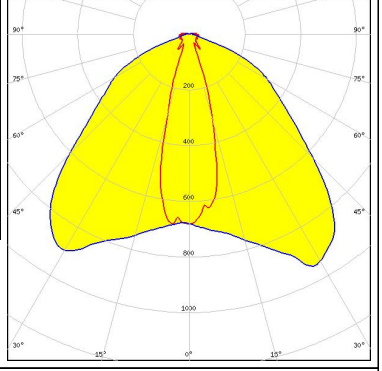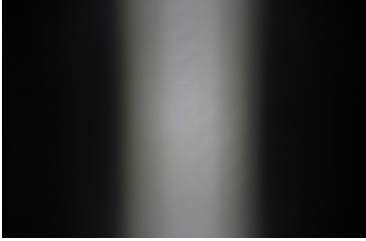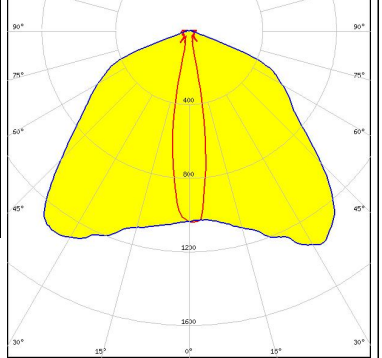
Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13749_HB-2X2-O	800	160	160	10.4

» Box size: 480 x 280 x 300 mm

50

25.4

∅3.2

50

1.2
2.5
10.6

25.4

∅2

Led position

45
center to center

25.4

∅2

Oval beam direction

∅3.22

∅2

Isometric view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	HB-2X2-0			

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

LEDiL

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

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DRAWING TITLE

HB-2X2-0

SIZE	PART NUMBER	
A3	-	

| SCALE | 3:2 | WEIGHT | - | SHEET | 1/1 |

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

PHOTOMETRIC DATA (MEASURED):

COMET ELECTRONICS

LED	QUICK FLUX XTP 2x4 xxx LS G5
FWHM / FWTM	21.0 + 111.0° / 32.0 + 148.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

COMET ELECTRONICS

LED	QUICK FLUX XTP 2x6 xxx LS G5
FWHM / FWTM	22.0 + 111.0° / 33.0 + 149.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LED

LED	XD16
FWHM / FWTM	29.0 + 116.0° / 44.0 + 141.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	

CREE LED

LED	XD16
FWHM / FWTM	19.0 + 127.0° / 28.0 + 141.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (MEASURED):

CREE LED

LED	XHP35 HD
FWHM / FWTM	29.0 + 117.0° / 48.0 + 148.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
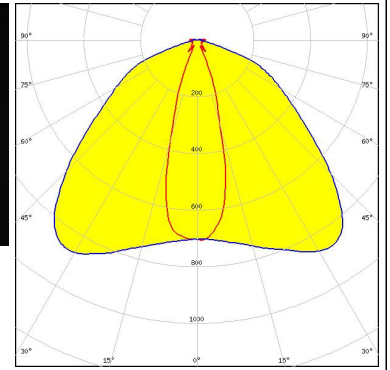
CREE LED

LED	XM-L
FWHM / FWTM	28.0 + 108.0° / 45.0 + 142.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
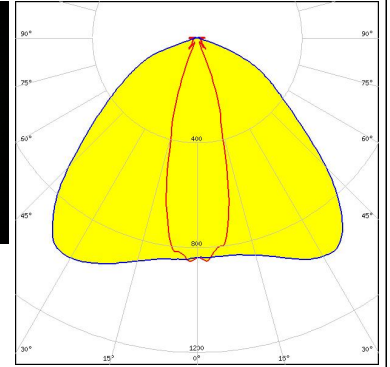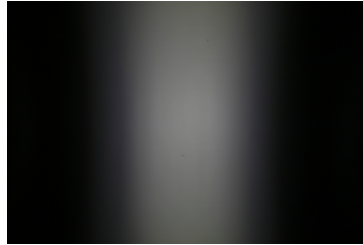
CREE LED

LED	XM-L2
FWHM / FWTM	30.0 + 106.0° / 48.0 + 143.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
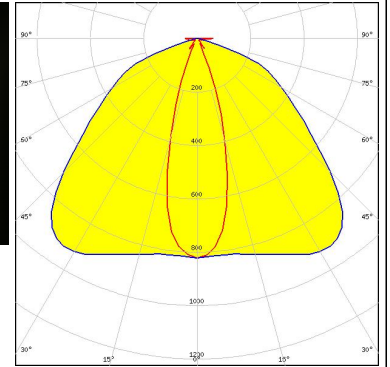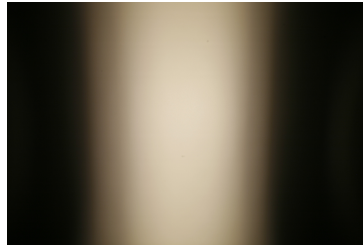
CREE LED

LED	XP-G
FWHM / FWTM	26.0 + 115.0° / 44.0 + 158.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
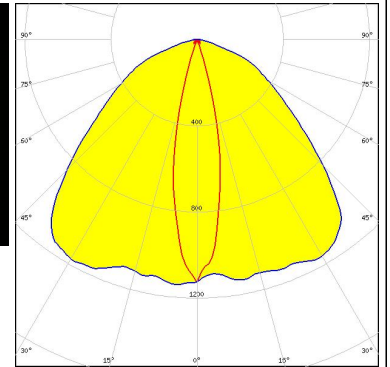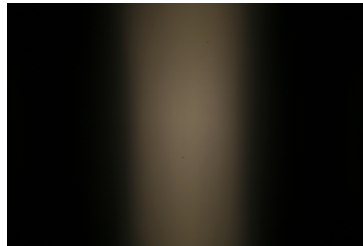
PHOTOMETRIC DATA (MEASURED):

CREE⇌LED

LED	XP-G2
FWHM / FWTM	27.0 + 112.0° / 42.0 + 146.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
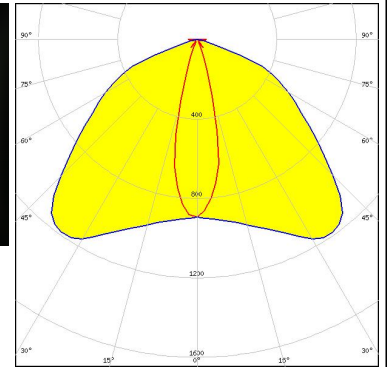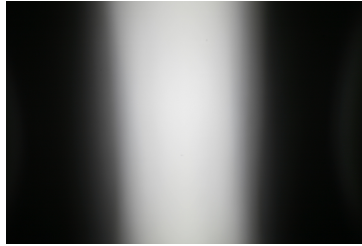
CREE⇌LED

LED	XP-L HD
FWHM / FWTM	29.0 + 117.0° / 48.0 + 144.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
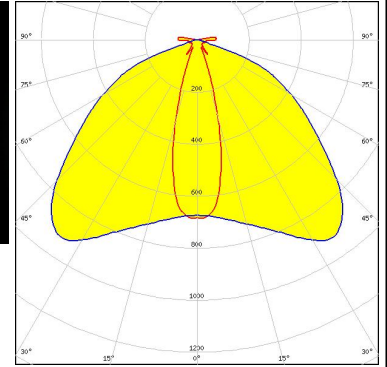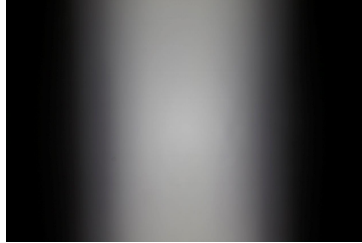
CREE⇌LED

LED	XP-L HI
FWHM / FWTM	25.0 + 123.0° / 41.0 + 143.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
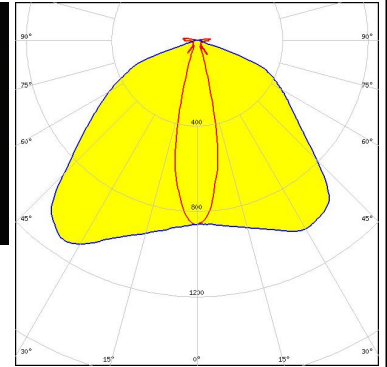
CREE⇌LED

LED	XP-L2
FWHM / FWTM	28.0 + 117.0° / 47.0 + 150.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
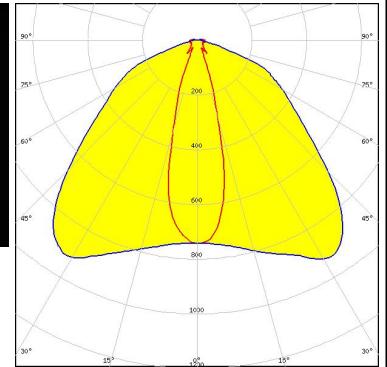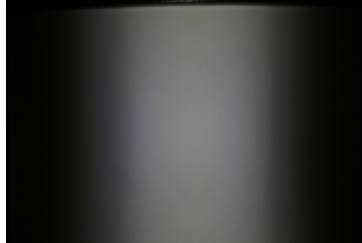
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	29.0 + 114.0° / 51.0 + 147.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
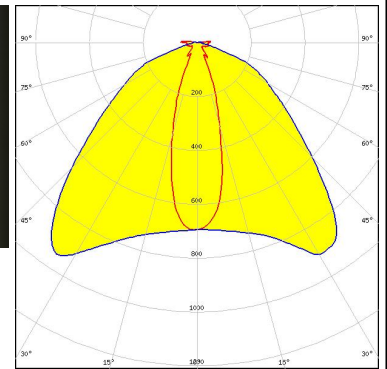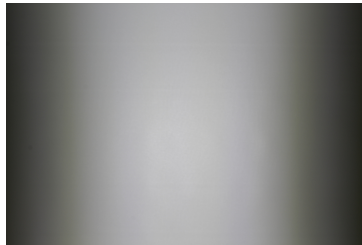
LUMILEDS

LED	LUXEON MZ
FWHM / FWTM	28.0 + 103.0° / 43.0 + 14.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
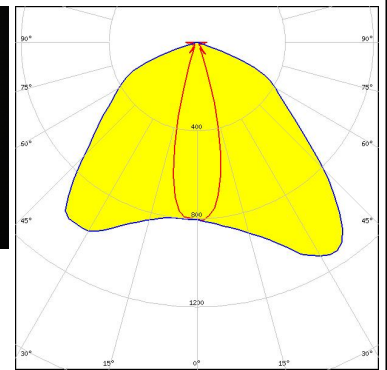
LUMILEDS

LED	LUXEON R
FWHM / FWTM	25.0 + 105.0° / 44.0 + 148.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
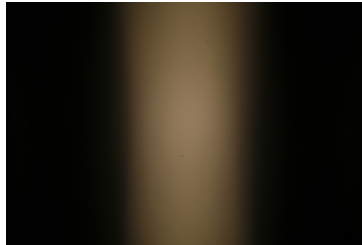
LUMILEDS

LED	LUXEON Rebel ES
FWHM / FWTM	25.0 + 106.0° / 42.0 + 150.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
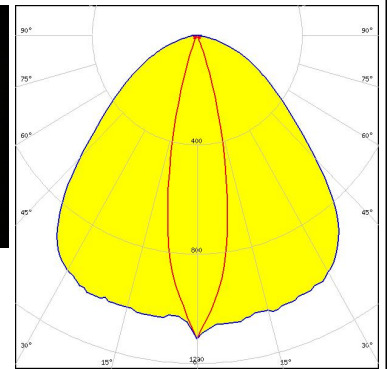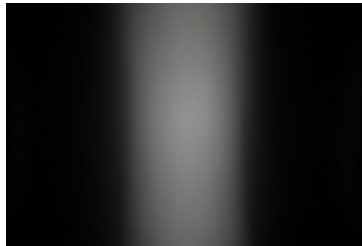
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON T
FWHM / FWTM	26.0 + 110.0° / 41.0 + 145.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
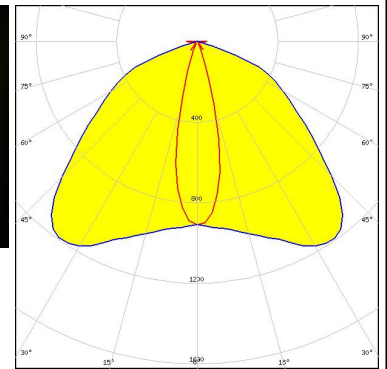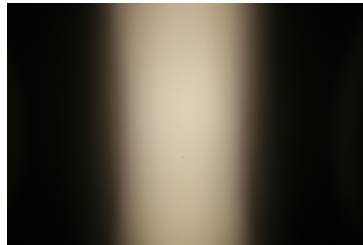
LUMILEDS

LED	LUXEON TX
FWHM / FWTM	24.0 + 118.0° / 42.0 + 146.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
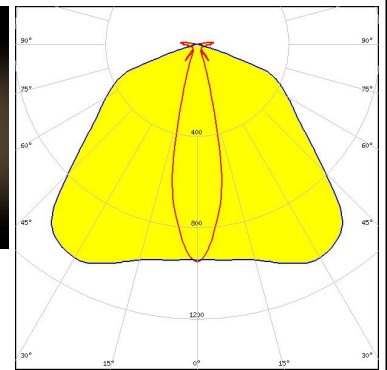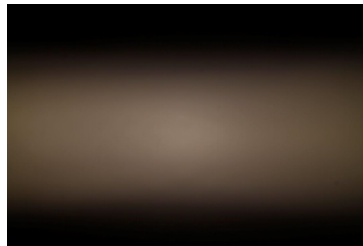
LUMILEDS

LED	LUXEON V
FWHM / FWTM	26.0 + 108.0° / 44.0 + 141.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
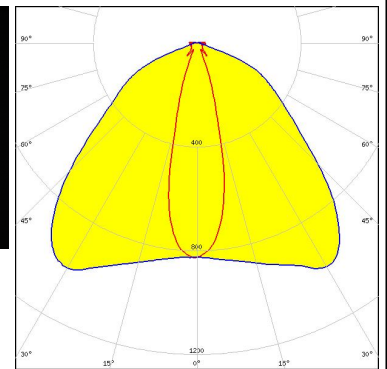
LUMINUS

LED	SST-10-B130
FWHM / FWTM	18.0 + 104.0° / 25.0 + 144.0°
Efficiency	97 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	Deep Red
Required components:	
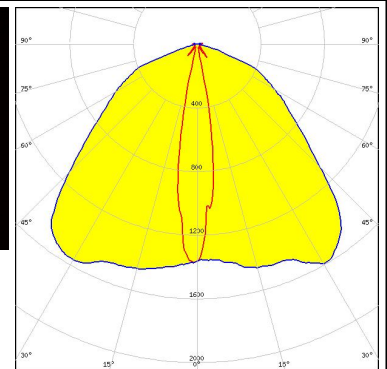
PHOTOMETRIC DATA (MEASURED):

MST | *Your solutions*

LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1
FWHM / FWTM	23.0 + 99.5° / 32.5 + 145.0°
Efficiency	97 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
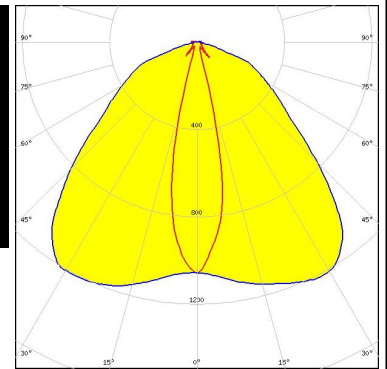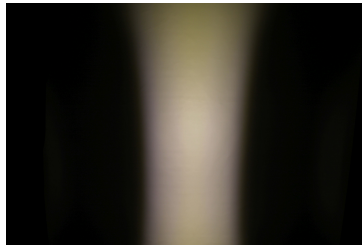
NICHIA

LED	NCSxx19B
FWHM / FWTM	23.0 + 113.0° / 39.0 + 146.0°
Efficiency	94 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
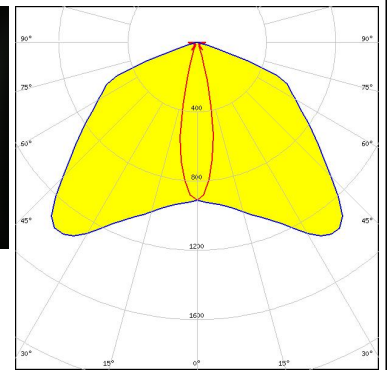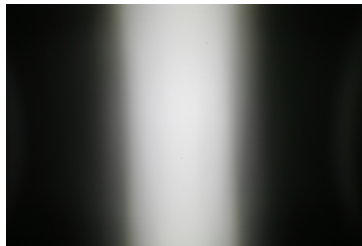
NICHIA

LED	NVSW219D
FWHM / FWTM	25.0 + 107.0° / 37.0 + 137.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
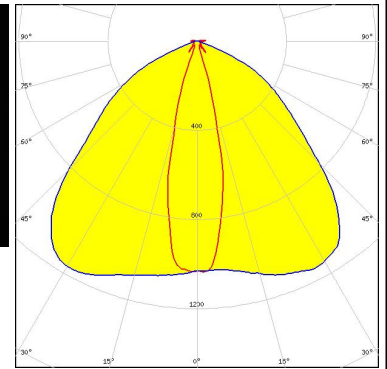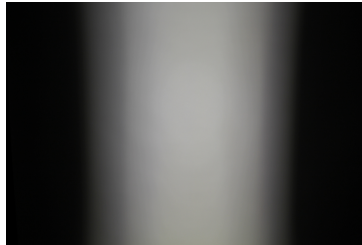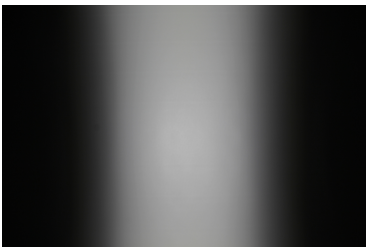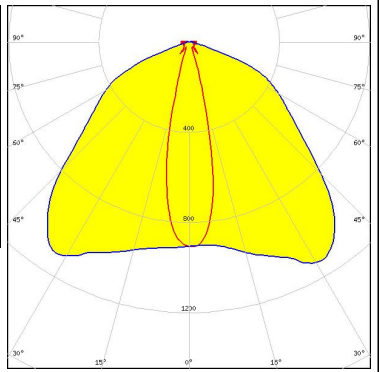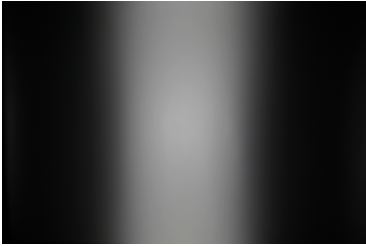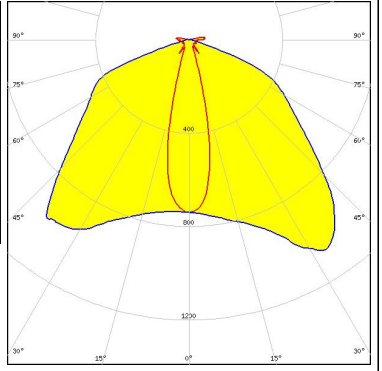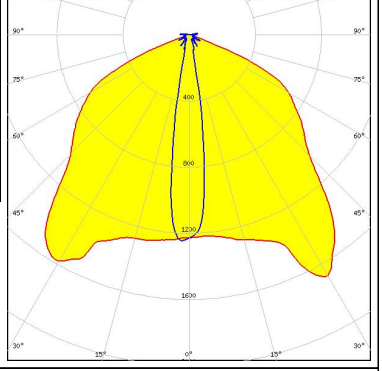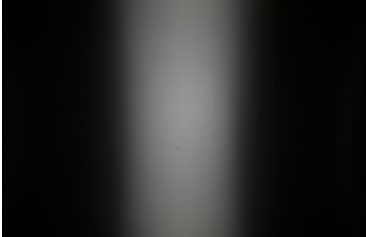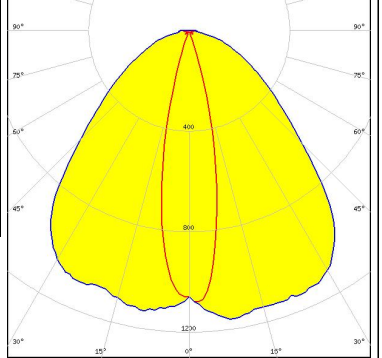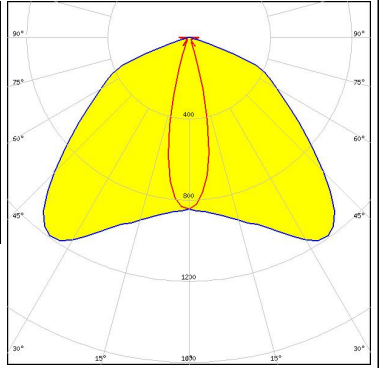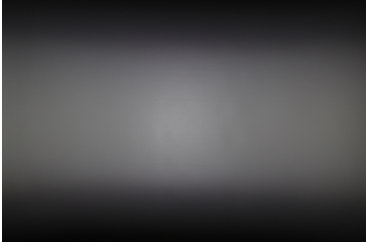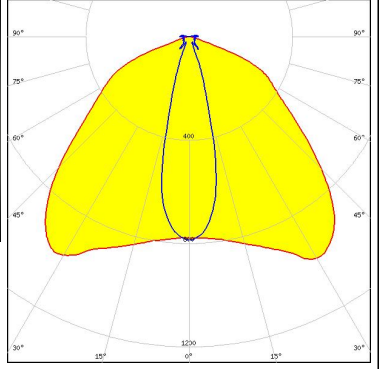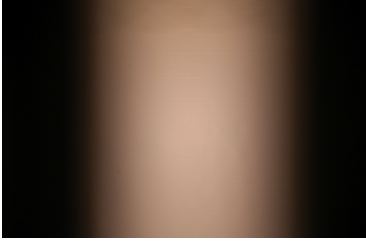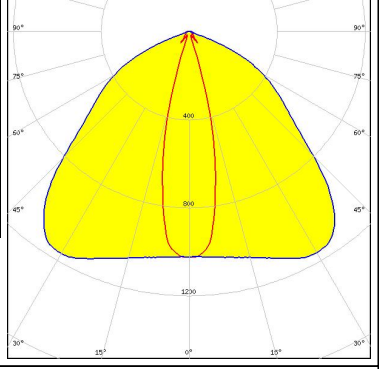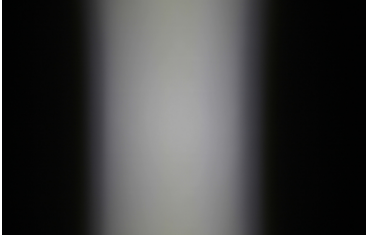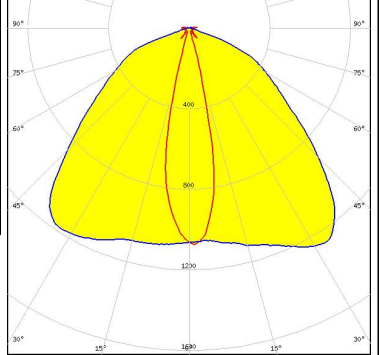
NICHIA

LED	NVSW319B
FWHM / FWTM	25.0 + 113.0° / 41.0 + 144.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (MEASURED):

LED	NVSW3x9A
FWHM / FWTM	24.0 + 119.0° / 38.0 + 144.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LED	NVSW3x9A
FWHM / FWTM	25.0 + 134.0° / 43.0 + 147.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LED	NVSxE21A
FWHM / FWTM	17.0 + 125.0° / 27.0 + 139.0°
Efficiency	94 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LED	NVSxx19A
FWHM / FWTM	24.0 + 105.0° / 44.0 + 148.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	26.0 + 108.0° / 41.0 + 145.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

NICHIA

LED	NWSx229A
FWHM / FWTM	27.0 + 118.0° / 43.0 + 143.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM

LED	PL-BRICK HP 3800 2x8 SSG
FWHM / FWTM	26.0 + 102.0° / 37.0 + 139.0°
Efficiency	97 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM

LED	PrevaLED Brick HP 2x8
FWHM / FWTM	23.0 + 111.0° / 32.0 + 141.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	23.0 + 111.0° / 32.0 + 141.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
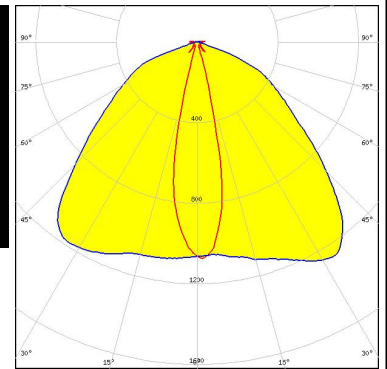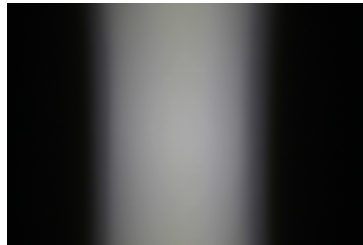
OSRAM Opto Semiconductors

LED	OSLON Square PC
FWHM / FWTM	25.0 + 124.0° / 42.0 + 145.0°
Efficiency	91 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
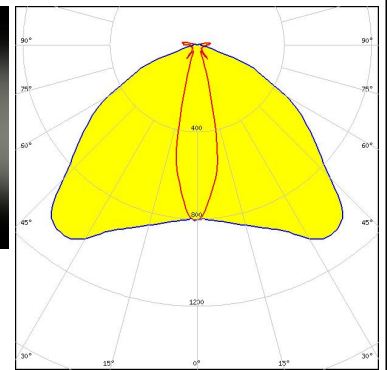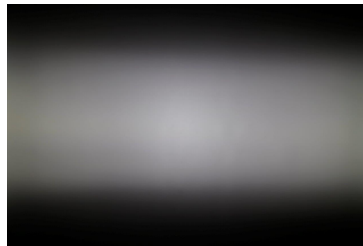
PHILIPS

LED	Fortimo FastFlex LED 2x8 DA G4
FWHM / FWTM	21.0 + 108.0° / 31.0 + 147.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
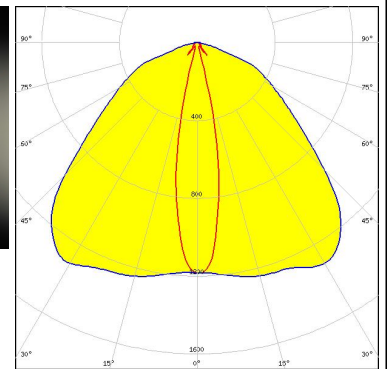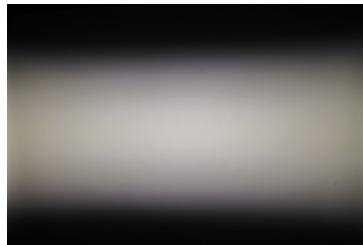
PHILIPS

LED	Fortimo FastFlex LED 2x8 DA G4+
FWHM / FWTM	24.0 + 104.0° / 37.0 + 145.0°
Efficiency	97 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
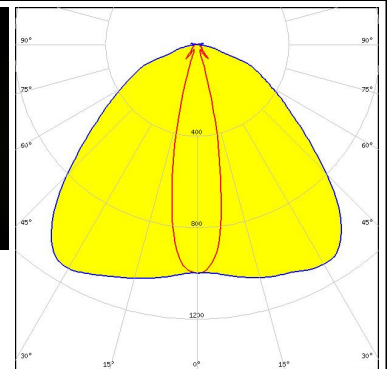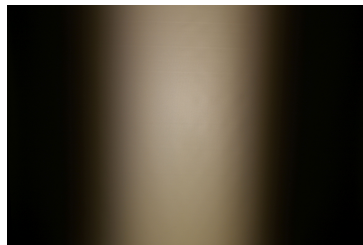
PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED	Fortimo FastFlex LED 2x8 DA G5
FWHM / FWTM	24.0 + 103.0° / 34.0 + 144.0°
Efficiency	97 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
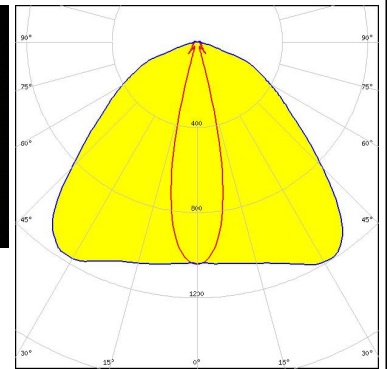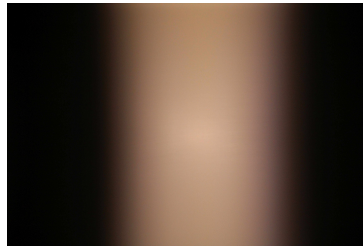
SAMSUNG

LED	HiLOM RC12 Z (LH181B)
FWHM / FWTM	19.0 + 106.0° / 31.0 + 140.0°
Efficiency	98 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
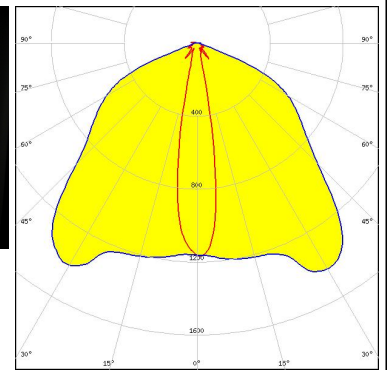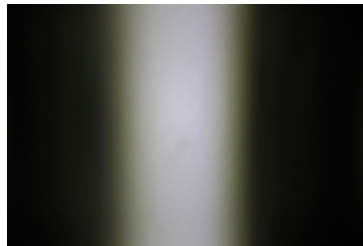
SAMSUNG

LED	HiLOM RH12 Z (LH351C)
FWHM / FWTM	23.0 + 102.0° / 36.0 + 139.0°
Efficiency	97 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
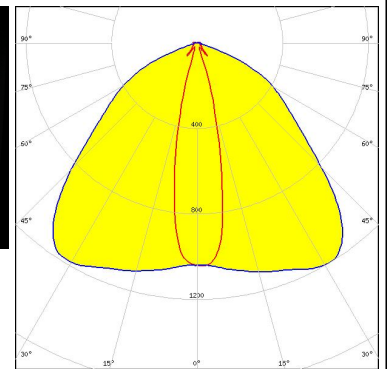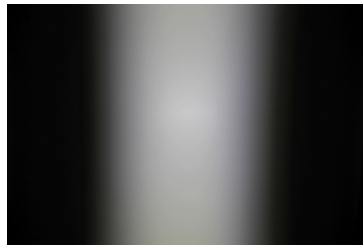
SAMSUNG

LED	HiLOM RH16 (LH351C)
FWHM / FWTM	23.0 + 106.0° / 36.0 + 140.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
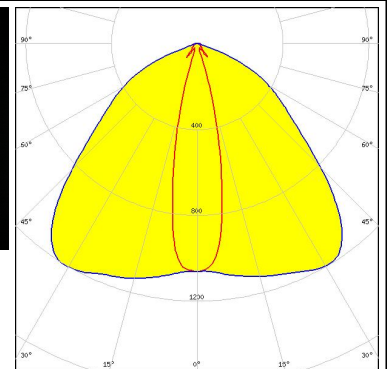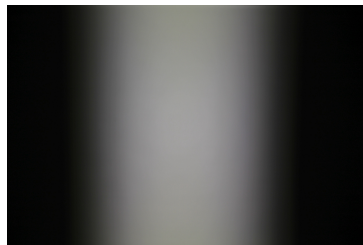
PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	HiLOM RM12 Z (LH502C)
FWHM / FWTM	35.0 + 98.0° / 76.0 + 141.0°
Efficiency	96 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
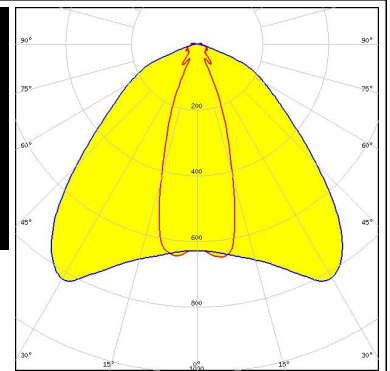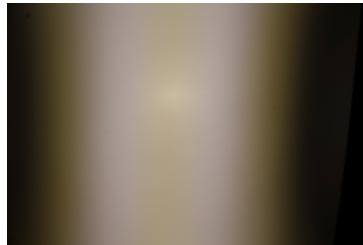
SAMSUNG

LED	LH351B
FWHM / FWTM	23.0 + 113.0° / 35.0 + 141.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
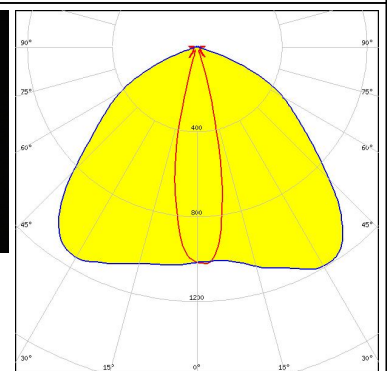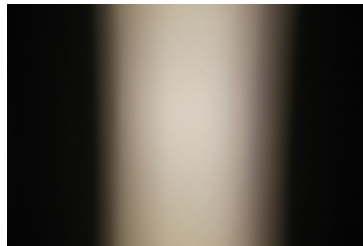
SAMSUNG

LED	LH351C
FWHM / FWTM	24.0 + 111.0° / 37.0 + 141.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
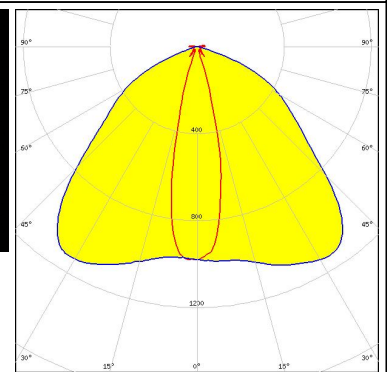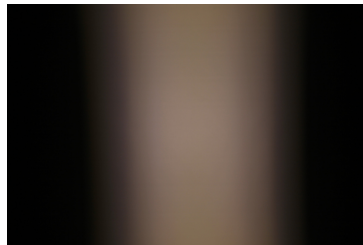
SAMSUNG

LED	LH351D
FWHM / FWTM	27.0 + 116.0° / 44.0 + 144.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
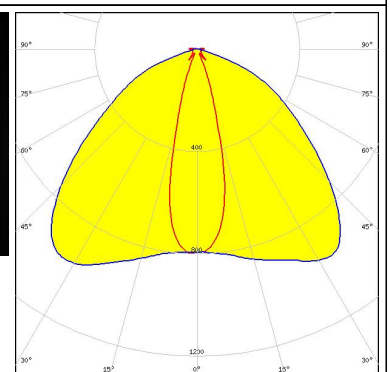
PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	LH351Z
FWHM / FWTM	26.0 + 117.0° / 42.0 + 141.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

SEITEC Elektronik GmbH
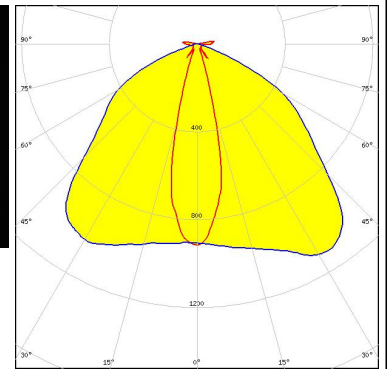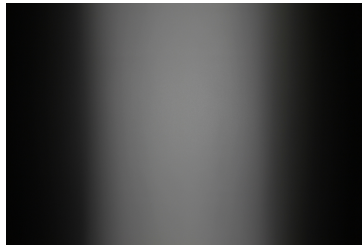
LED	LED-Pa-L15c2W11c2-xxx-C050-01
FWHM / FWTM	22.0 + 105.0° / 36.0 + 142.0°
Efficiency	98 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
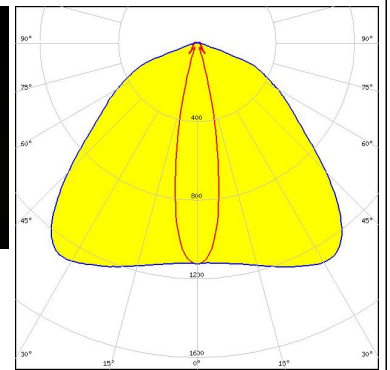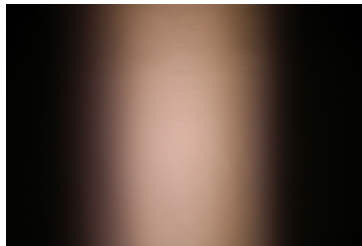
SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	23.0 + 113.0° / 39.0 + 146.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
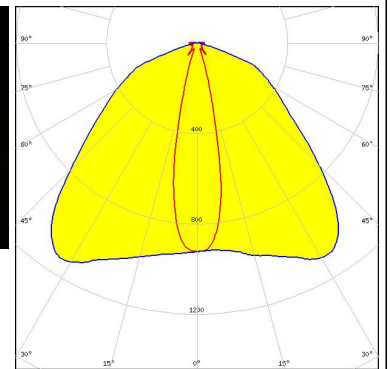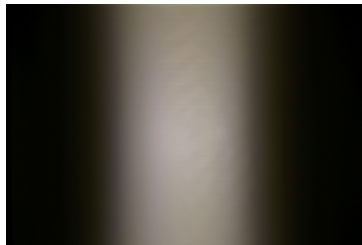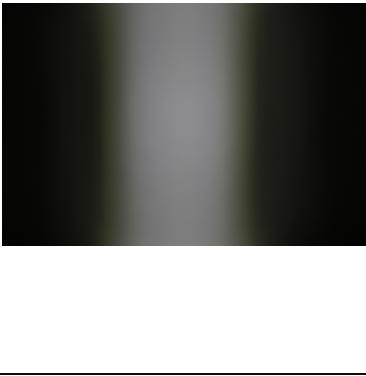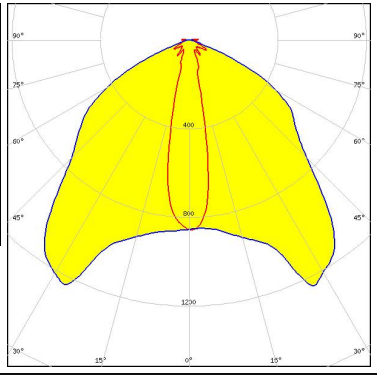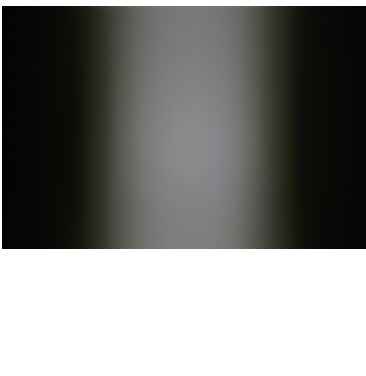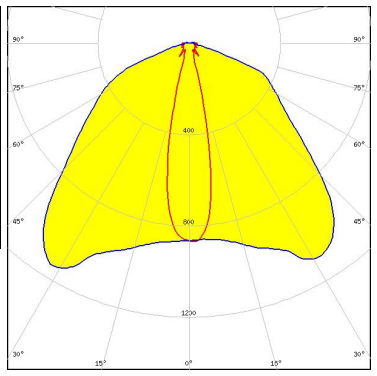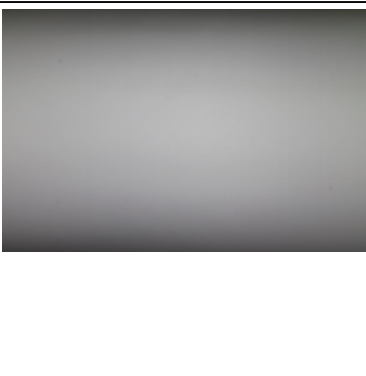
SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	22.0 + 97.0° / 35.0 + 135.0°
Efficiency	98 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z8Y22
FWHM / FWTM	21.0 + 121.0° / 99.0 + 140.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	23.0 + 121.0° / 34.0 + 150.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

TOSHIBA
Leading Innovation

LED	TL1L4
FWHM / FWTM	24.0 + 119.0° / 39.0 + 140.0°
Efficiency	89 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

TRIDONIC

LED	RLE 2x4 2000lm HP EXC2 OTD
FWHM / FWTM	22.0 + 113.0° / 30.0 + 149.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (MEASURED):

TRIDONIC

LED	RLE 2x8 4000lm HP EXC2 OTD
FWHM / FWTM	22.0 + 113.0° / 30.0 + 149.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
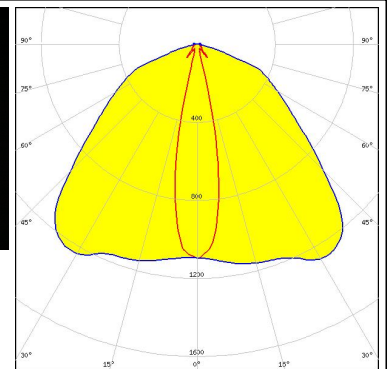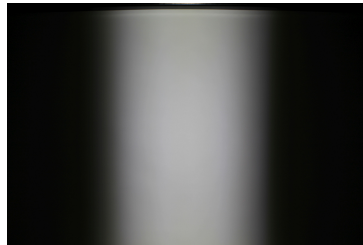
TRIDONIC

LED	RLE G1 49x121mm 2000lm xxx EXC OTD
FWHM / FWTM	23.0 + 104.0° / 31.0 + 144.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
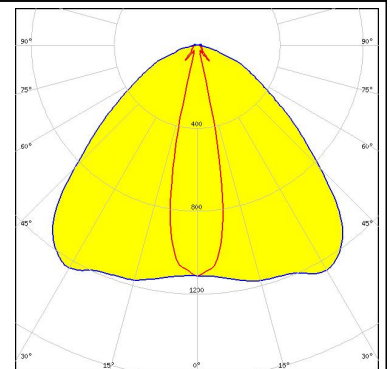
TRIDONIC

LED	RLE G1 49x133mm 2000lm xxx EXC OTD
FWHM / FWTM	23.0 + 104.0° / 31.0 + 144.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
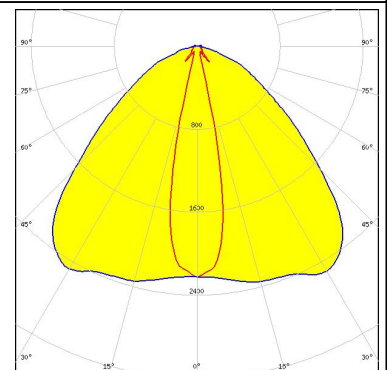
TRIDONIC

LED	RLE G1 49x223mm 4000lm xxx EXC OTD
FWHM / FWTM	23.0 + 104.0° / 31.0 + 144.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
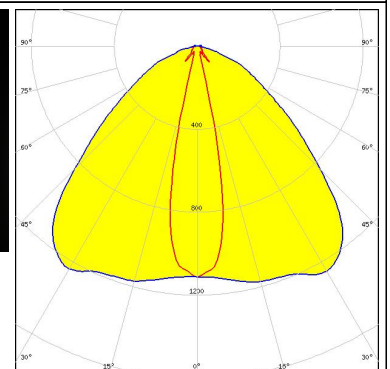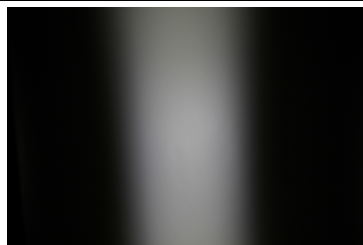
PHOTOMETRIC DATA (MEASURED):

TRIDONIC

LED	RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM / FWTM	23.0 + 104.0° / 31.0 + 144.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
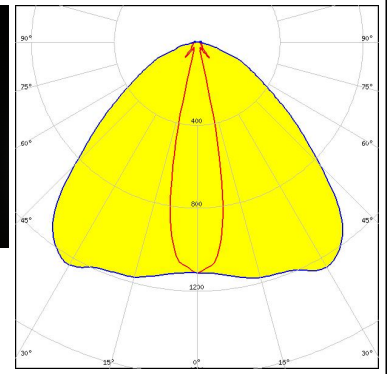
PHOTOMETRIC DATA (SIMULATED):

CREE LED

LED	J Series 5050 Round LES
FWHM / FWTM	30.0 + 97.0° / 51.0 + 141.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LED
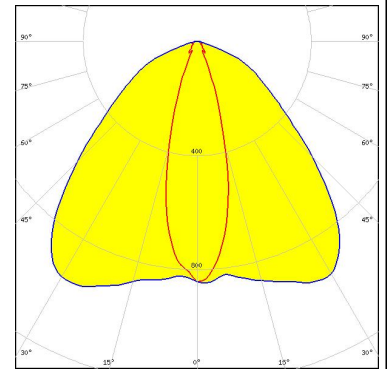
LED	XHP35 HI
FWHM / FWTM	101.0 + 27.0° / 145.0 + 44.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LED
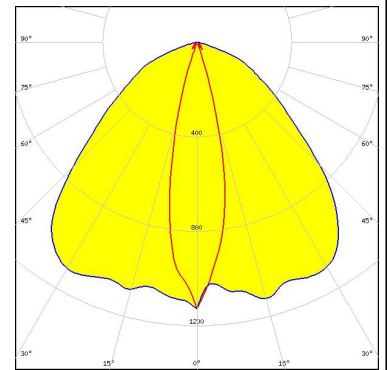
LED	XHP50.3 HI
FWHM / FWTM	28.0 + 100.0° / 44.0 + 144.0°
Efficiency	95 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LED
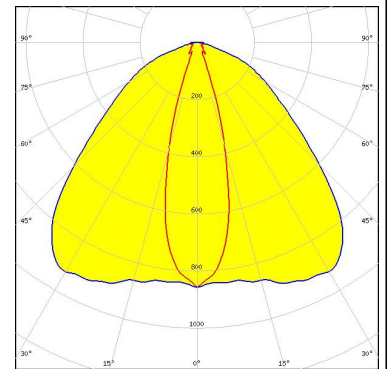
LED	XP-E2
FWHM / FWTM	93.0 + 18.0° / 141.0 + 30.0°
Efficiency	94 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
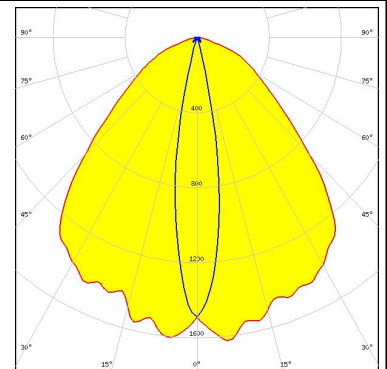
PHOTOMETRIC DATA (SIMULATED):

CREE ⇌ LED	
LED	XP-G2
FWHM / FWTM	21.0 + 98.0° / 33.0 + 141.0°
Efficiency	91 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Protective plate, glass	
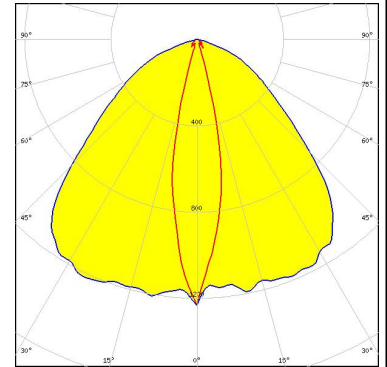
CREE ⇌ LED	
LED	XP-G2 HE
FWHM / FWTM	28.0 + 103.0° / 41.0 + 144.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
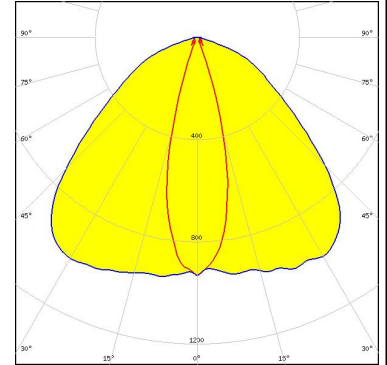
CREE ⇌ LED	
LED	XP-G3
FWHM / FWTM	103.0 + 29.0° / 146.0 + 49.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
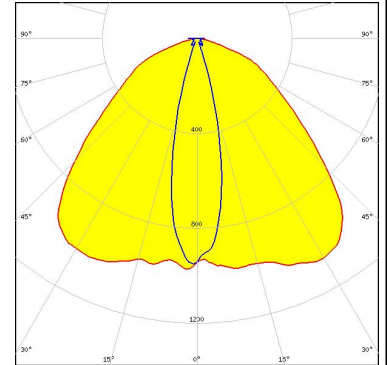
CREE ⇌ LED	
LED	XQ-E HI
FWHM / FWTM	96.0 + 14.0° / 144.0 + 25.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (SIMULATED):

CREE⇌LED

LED	XT-E HE
FWHM / FWTM	100.0 + 24.0°
Efficiency	94 %
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS
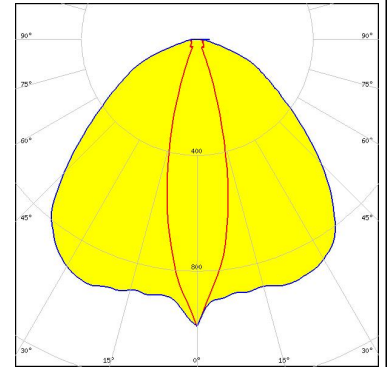
LED	LUXEON 5050 Round LES
FWHM / FWTM	30.0 + 96.0° / 48.0 + 140.0°
Efficiency	88 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
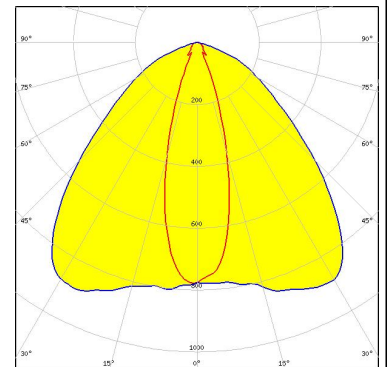
Protective plate, glass

LUMILEDS

LED	LUXEON 5050 Square LES
FWHM / FWTM	30.0 + 98.0° / 50.0 + 142.0°
Efficiency	95 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS
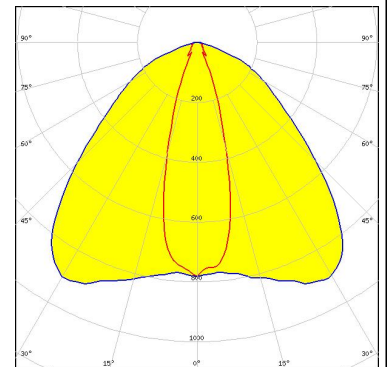
LED	LUXEON IR Domed 150
FWHM / FWTM	16.0 + 98.0° / 28.0 + 149.0°
Efficiency	94 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED	LUXEON IR Domed 90
FWHM / FWTM	20.0 + 86.0° / 29.0 + 128.0°
Efficiency	95 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

MST | Your solutions

LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1
FWHM / FWTM	24.0 + 97.0° / 34.0 + 141.0°
Efficiency	86 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	Protective plate, glass

NICHIA

LED	NV4WB35AM
FWHM / FWTM	28.0 + 100.0° / 42.0 + 144.0°
Efficiency	95 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	18.0 + 96.0° / 30.0 + 141.0°
Efficiency	96 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors

LED	OSCONIQ P 3030
FWHM / FWTM	14.0 + 92.0° / 28.0 + 142.0°
Efficiency	95 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
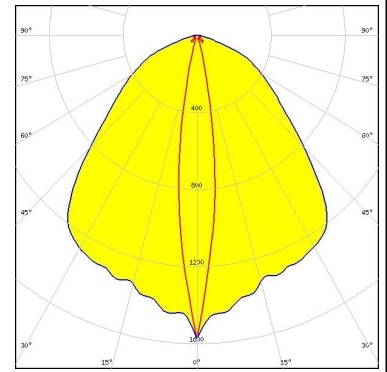
OSRAM Opto Semiconductors

LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	99.0 + 19.0° / 142.0 + 31.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
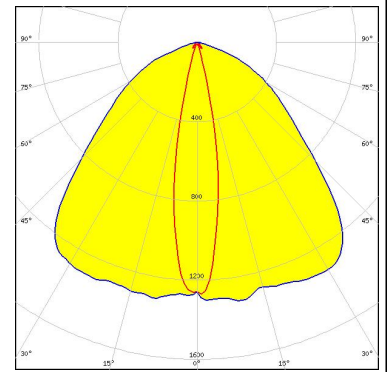
OSRAM Opto Semiconductors

LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	100.0 + 30.0° / 144.0 + 51.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
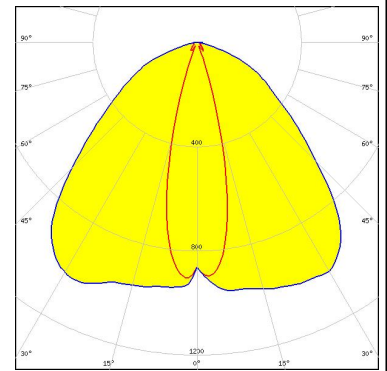
OSRAM Opto Semiconductors

LED	OSCONIQ P 3737 Flat
FWHM / FWTM	22.0 + 98.0° / 35.0 + 142.0°
Efficiency	96 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
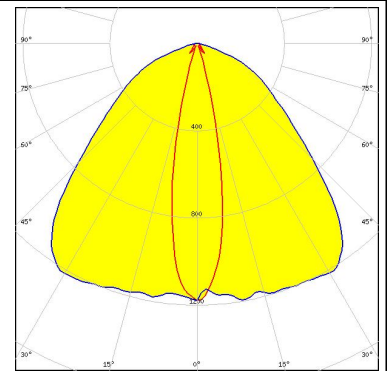
PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors

LED	OSCONIQ S 5050
FWHM / FWTM	32.0 + 98.0° / 53.0 + 140.0°
Efficiency	85 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

Protective plate, glass
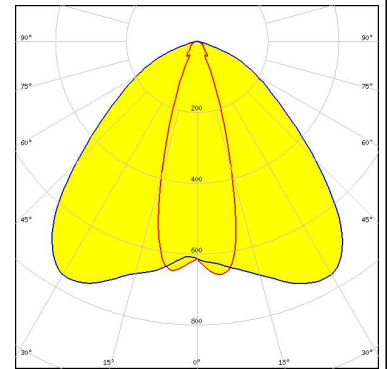
OSRAM Opto Semiconductors

LED	OSCONIQ S 5050
FWHM / FWTM	32.0 + 99.0° / 52.0 + 143.0°
Efficiency	96 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
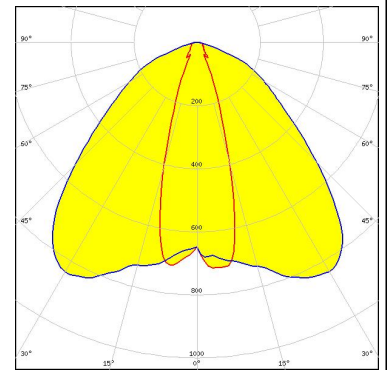
OSRAM Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	23.0 + 101.0° / 33.0 + 140.0°
Efficiency	85 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

Protective plate, glass
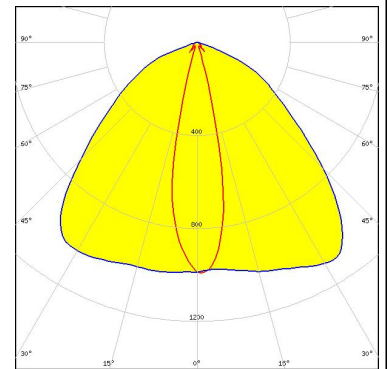
OSRAM Opto Semiconductors

LED	OSLON Square Flat
FWHM / FWTM	16.0 + 90.0° / 30.0 + 140.0°
Efficiency	96 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
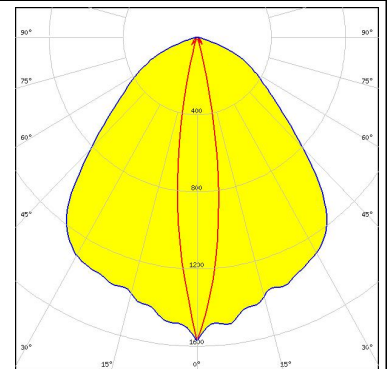
PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

LED	OSTAR Projection Compact (Kx.CSLNM1.xx)
FWHM / FWTM	16.0 + 89.0° / 28.0 + 140.0°
Efficiency	96 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
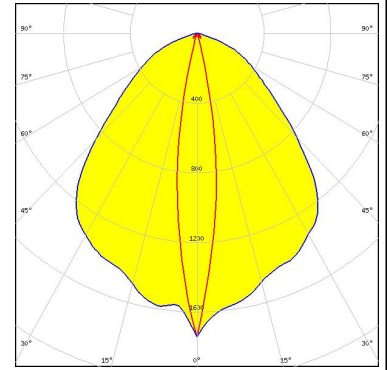
PHILIPS

LED	Fortimo FastFlex LED 2x8 DAX G4
FWHM / FWTM	103.0 + 29.0° / 146.0 + 49.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
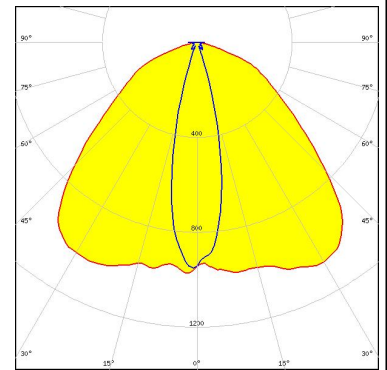
SAMSUNG

LED	HiLOM RM12 Z (LH502C)
FWHM / FWTM	36.0 + 98.0° / 78.0 + 140.0°
Efficiency	89 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Protective plate, glass	
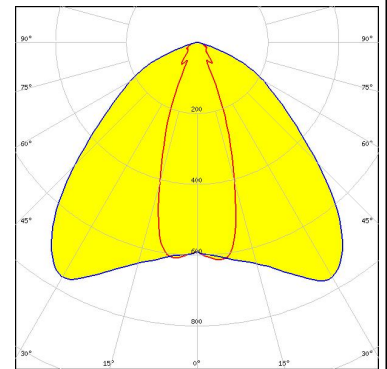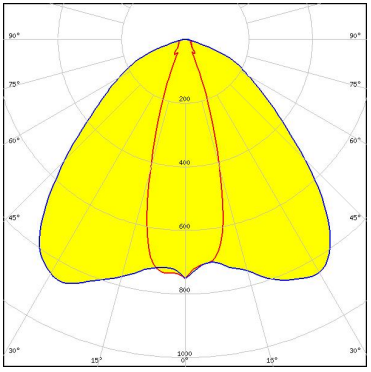
SEOUL SEMICONDUCTOR

LED	MJT 5050
FWHM / FWTM	32.0 + 98.0° / 52.0 + 142.0°
Efficiency	94 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (SIMULATED):

LED	SEOUL DC 5050 6V
FWHM / FWTM	33.0 + 98.0° / 58.0 + 143.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LED	Z5M1/Z5M2
FWHM / FWTM	22.0 + 97.0° / 34.0 + 142.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LED	Z8Y22T
FWHM / FWTM	21.0 + 96.0° / 33.0 + 141.0°
Efficiency	94 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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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