HB-2X2MX-8-WWW

~65° wide beam. New revision.

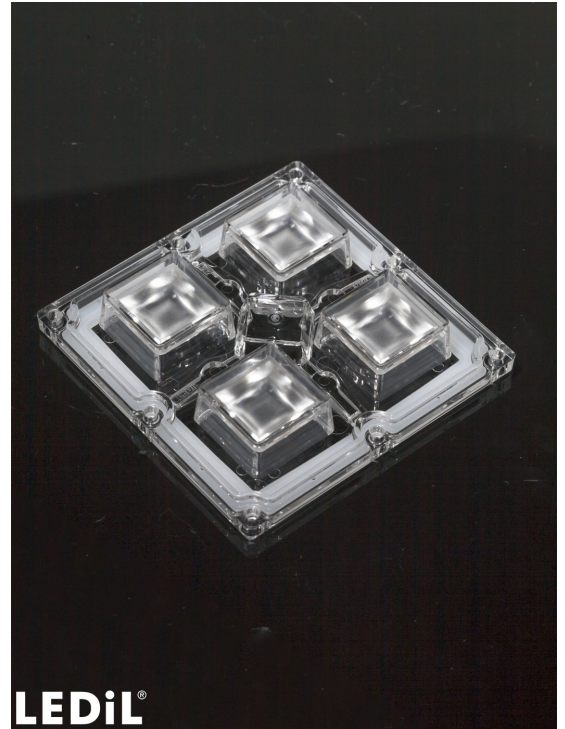### SPECIFICATION:

Dimensions	90.0 x 90.0 mm
Height	16.4 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

MATERIALS:

Component	Type	Material	Colour	Finish
HB-2X2MX-8-WWW	Multi-lens	PMMA	clear	
STRADA-2X2MX-8-SEAL	Seal	Silicone	clear	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15765_HB-2X2MX-8-WWW	Multi-lens	156	52	52	8.4
» Box size: 480 x 280 x 300 mm					

Bottom view
Scale: 1:1

Isometric view
Scale: 1:1

Front view
Scale: 1:1

Rear view
Scale: 1:1

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C15764	HB-2X2MX-8-WWW	PMMA	
	C15757	STRADA-2X2MX-8-SEAL	Silicone	

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

THIRD ANGLE PROJECTION:

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Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
CS15765_HB-2X2MX-8-WWW

SIZE	PART NUMBER	
A3	CS15765	
SCALE 1:1	WEIGHT 47,3 g	SHEET 1/1

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

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	62.0° / 123.0°
Efficiency	92 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 441 Typ 2x2MX HV	

CREE LEDs
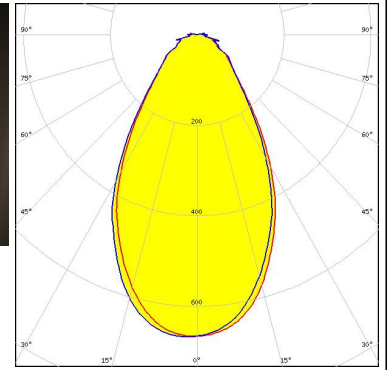
LED	XHP50.2
FWHM / FWTM	80.0° / 121.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LEDs
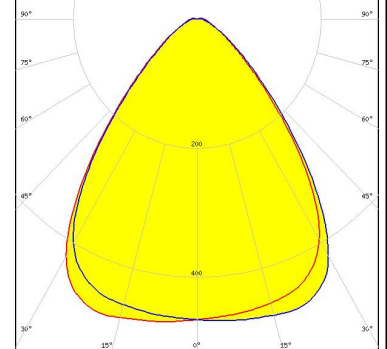
LED	XT-E HE
FWHM / FWTM	68.0° / 114.0°
Efficiency	94 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
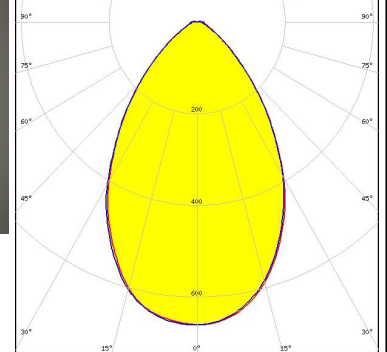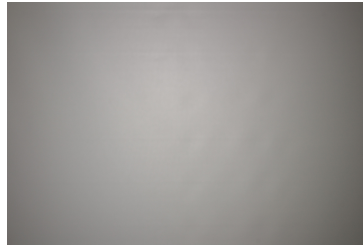
LUMILEDS

LED	LUXEON M/MX
FWHM / FWTM	82.0° / 119.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
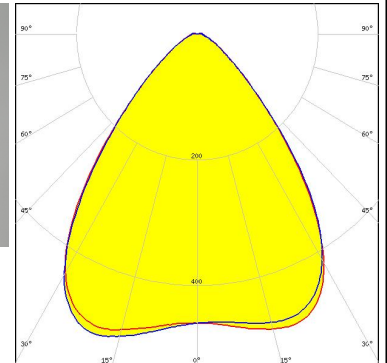
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON XR-7070 (L224-xxxx004MLU010)
FWHM / FWTM	72.0° / 110.0°
Efficiency	95 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
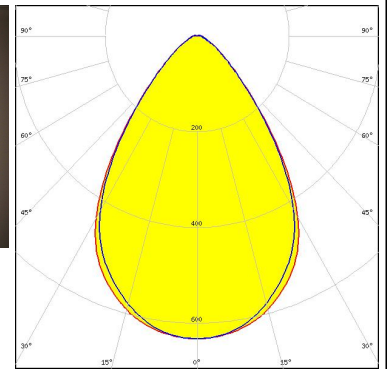
NICHIA

LED	NV9W149AM
FWHM / FWTM	81.0° / 130.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
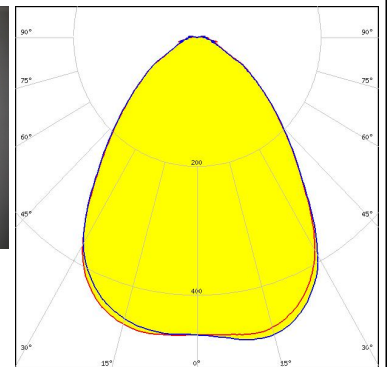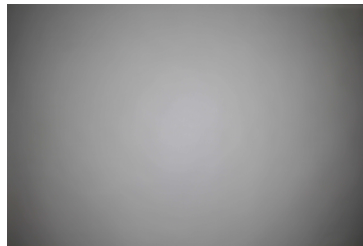
OSRAM

LED	PrevaLED Brick HP 2x2MX
FWHM / FWTM	71.0° / 111.0°
Efficiency	93 %
Peak intensity	0.6 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	
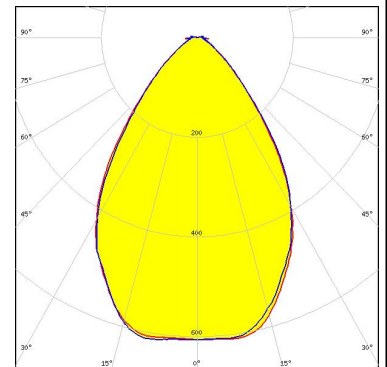
SAMSUNG

LED	HiLOM SC16 (LH181B)
FWHM / FWTM	65.0° / 103.0°
Efficiency	94 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
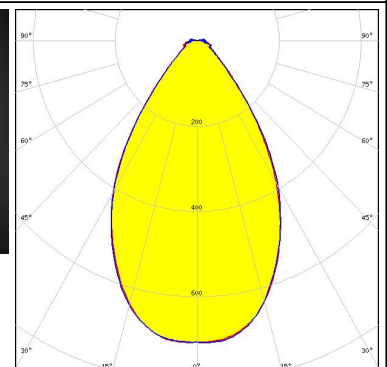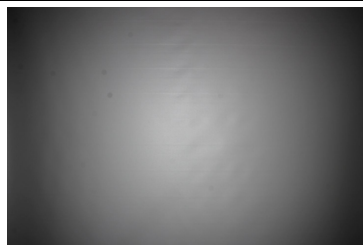
OPTICAL RESULTS (MEASURED):

SCIOLUX

LED	PAL-LK-4950-740-48
FWHM / FWTM	80.0 + 80.5° / 121.0°
Efficiency	95 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
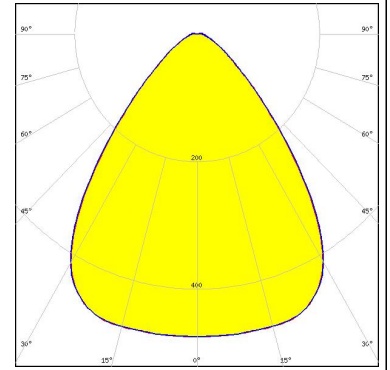
SCIOLUX

LED	XLE-S22C4XD16 (XD16)
FWHM / FWTM	74.0° / 112.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	
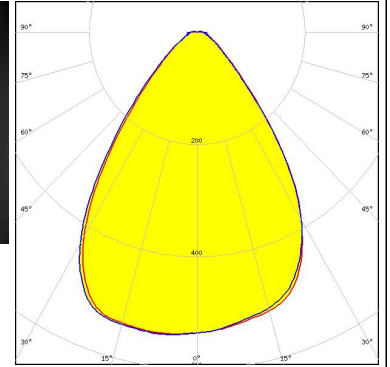
SCIOLUX

LED	XLE-S22C4XTEHE (XT-E HE)
FWHM / FWTM	68.0° / 114.0°
Efficiency	94 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
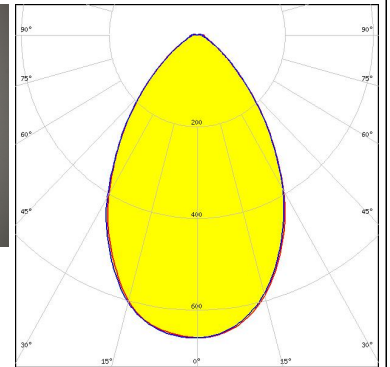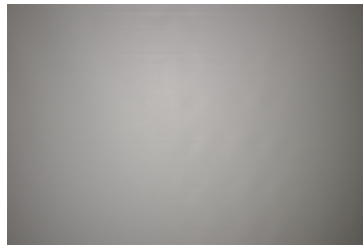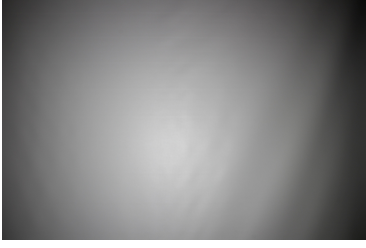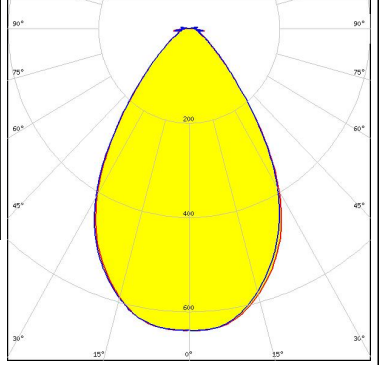
SCIOLUX
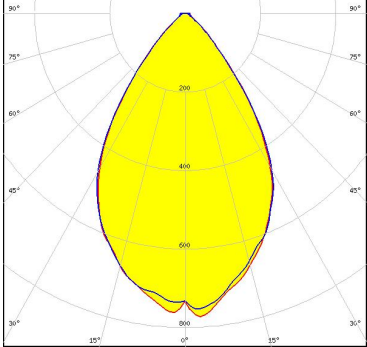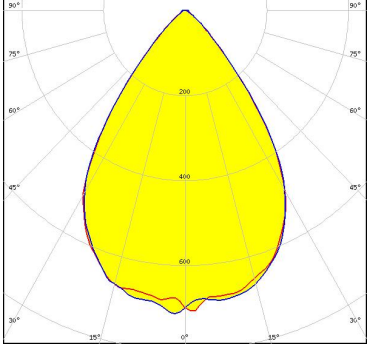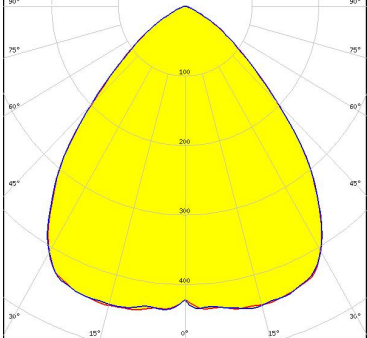
LED	XLE-S22XHP50B (XHP50.2)
FWHM / FWTM	80.0° / 121.0°
Efficiency	94 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (MEASURED):

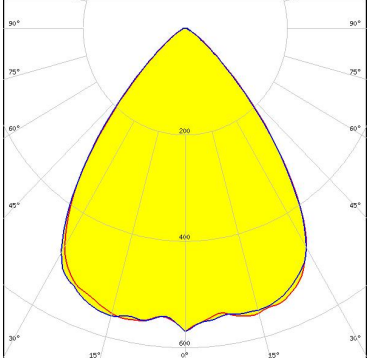**SEOUL SEMICONDUCTOR**

LED	WICOP 5050
FWHM / FWTM	80.0° / 123.0°
Efficiency	96 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

SEOUL SEMICONDUCTOR

LED	Z8Y22
FWHM / FWTM	68.0° / 108.0°
Efficiency	94 %
Peak intensity	0.6 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

bridgelux

LED	Bridgelux SMD 5050
FWHM / FWTM	78.0° / 105.0°
Efficiency	94 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	66.0° / 98.0°
Efficiency	92 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 434 Typ 2x2MX HV	

CREE LEDs

LED	CMA1303
FWHM / FWTM	71.0° / 96.0°
Efficiency	96 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 448 Typ 2x2MX HV	

CREE LEDs

LED	XHP70.2
FWHM / FWTM	86.0° / 122.0°
Efficiency	89 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Protective plate, glass	

OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	XHP70.3 HD
FWHM / FWTM	86.0° / 120.0°
Efficiency	95 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LEDs
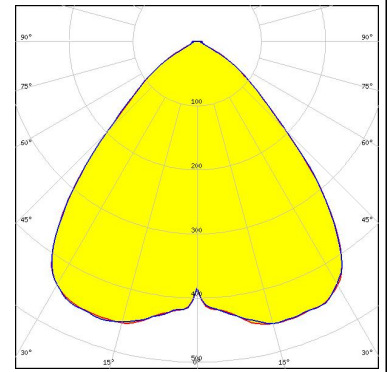
LED	XP-E2
FWHM / FWTM	82.0° / 96.0°
Efficiency	96 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS
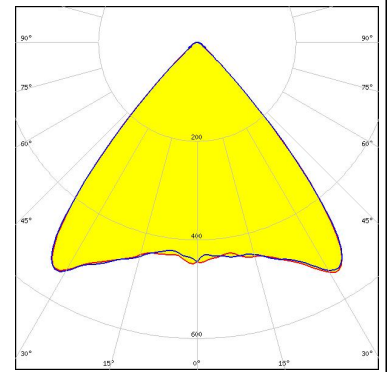
LED	LUXEON 5050 Round LES
FWHM / FWTM	78.0° / 102.0°
Efficiency	97 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS
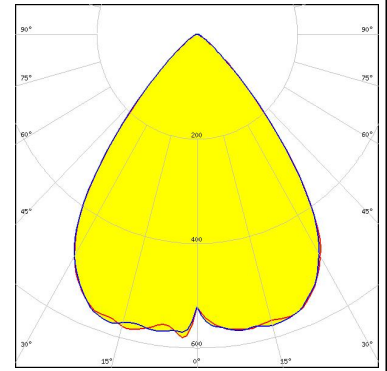
LED	LUXEON 7070
FWHM / FWTM	75.0° / 108.0°
Efficiency	96 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
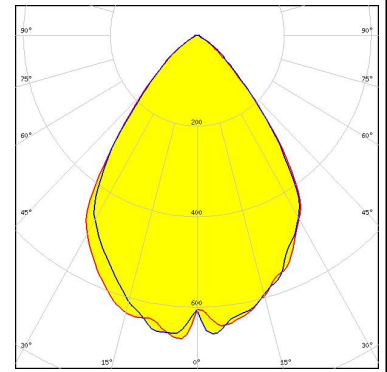
OPTICAL RESULTS (SIMULATED):

LUMINUS

LED	MP 7070
FWHM / FWTM	76.0° / 104.0°
Efficiency	97 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMINUS
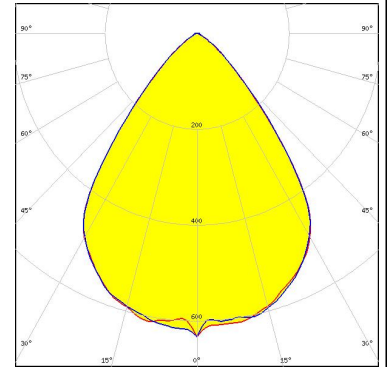
LED	SFT-40-WCS
FWHM / FWTM	82.0° / 94.0°
Efficiency	97 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMINUS
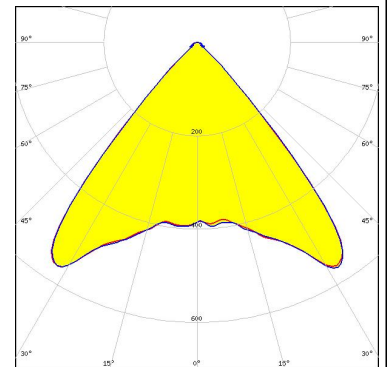
LED	SFT-70X-WCS
FWHM / FWTM	82.0° / 98.0°
Efficiency	97 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

NICHIA
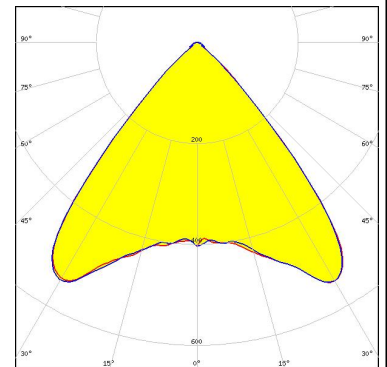
LED	NF2x757G
FWHM / FWTM	72.0° / 108.0°
Efficiency	97 %
Peak intensity	0.7 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

NICHIA
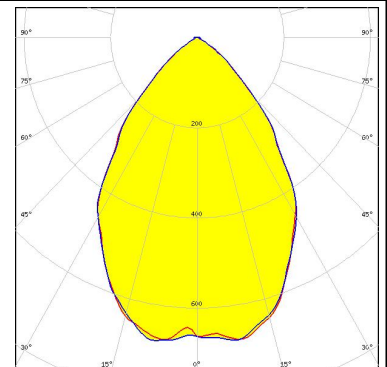
LED	NFMW48xA
FWHM / FWTM	79.0° / 106.0°
Efficiency	94 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

NICHIA
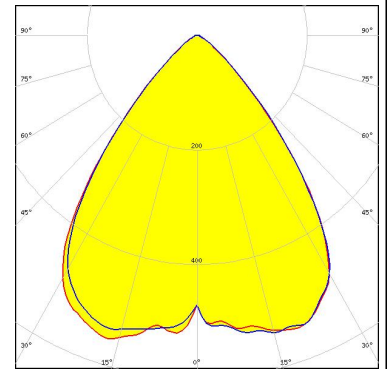
LED	NV4WB35AM
FWHM / FWTM	80.0° / 102.0°
Efficiency	96 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
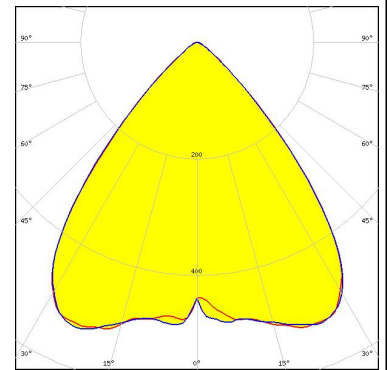
OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	74.0 + 75.0° / 104.0°
Efficiency	97 %
Peak intensity	0.6 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	
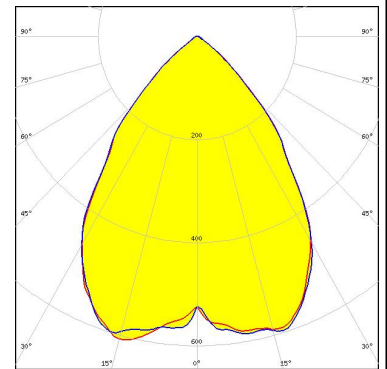
OSRAM
Opto Semiconductors

LED	OSCONIQ P 7070
FWHM / FWTM	82.0° / 112.0°
Efficiency	96 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
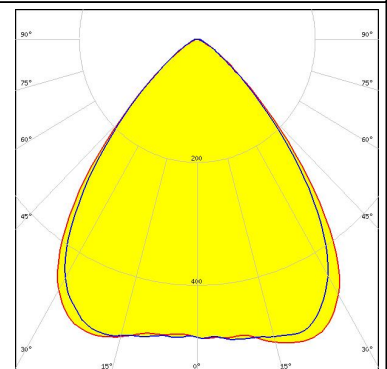
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LH502C
FWHM / FWTM	78.0° / 104.0°
Efficiency	96 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	