HB-2X2-5050-S

~25° spot beam for industrial applications

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	10.4 mm
Fastening	screw
ROHS compliant	yes ⓘ

MATERIALS:

Component	Type	Material	Colour	Finish
HB-2X2-5050-S	Multi-lens	PMMA	clear	
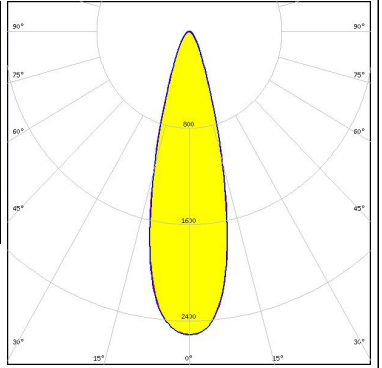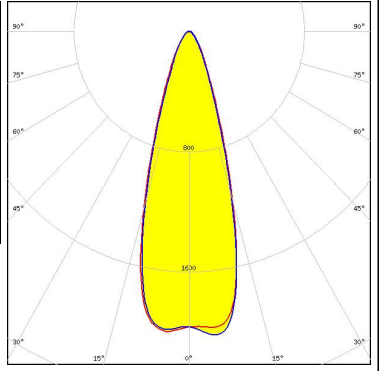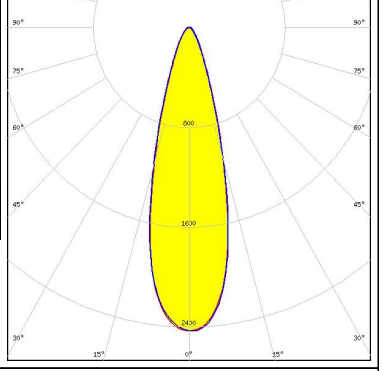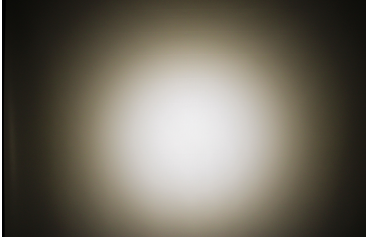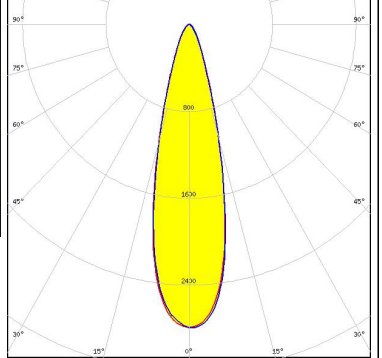
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C17303_HB-2X2-5050-S	800	160	160	10.2

» Box size: 480 x 280 x 300 mm

DATE
12.05.2020

50.8

25.4   25.4

A

B

Top View

Detail A
Scale: 2:1

φ1

φ3.4

Detail B
Scale: 2:1

φ3.4

Isometric View

Detail C
Scale: 2:1

φ2
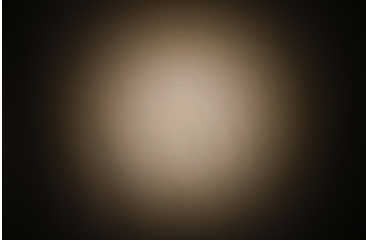
50

25.4

12.7

50

C

D

12.7

22.5

22.5

Bottom View

Detail D
Scale: 2:1

φ2

PCB level   Front View

PART		TYPE	MATERIAL	COLOR / COATING
C17303_HB-2X2-5050-S		LENS	PMMA	Clear

MECHANICAL DRAWING

PRODUCT

C17303_HB-2X2-5050-S

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.

FIRST ANGLE PROJECTION:

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LEDiL

| SCALE | 1:1 | WEIGHT | 11,723g | A3 | SHEET 1/1 |

Notes

●	PCB or heatsink level.
●	LED location
	Ensure LED fitting from a product specific 3D model available from www.ledil.com
	For more details about installation please see LEDiL Installation Guide on www.ledil.com

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

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON XR-5050 SQR (L213-xxxx016MRH001)
FWHM / FWTM	28.0° / 55.0°
Efficiency	94 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

MST | *Your solutions*

LED	RecLED 173x50mm 2900lm 740 2x6 5050 Opt G1
FWHM / FWTM	33.0° / 60.0°
Efficiency	94 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHILIPS

LED	Fortimo FastFlex LED 2x8 DA HE
FWHM / FWTM	29.0° / 56.0°
Efficiency	95 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

TRIDONIC

LED	RLE 2x8 6000lm HP HE EXC3 OTD
FWHM / FWTM	27.0° / 52.0°
Efficiency	94 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

CREE LEDs	
LED	J Series 5050 Round LES
FWHM / FWTM	26.0° / 50.0°
Efficiency	93 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
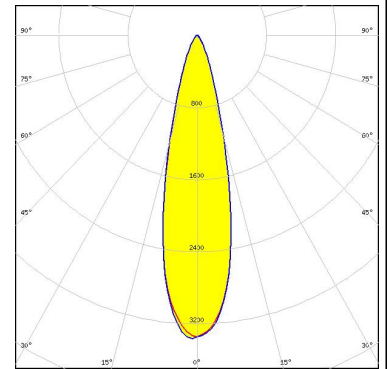
CREE LEDs	
LED	J Series 5050B 6V K Class
FWHM / FWTM	24.0° / 48.0°
Efficiency	92 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
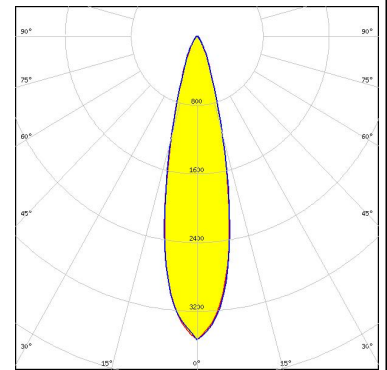
CREE LEDs	
LED	XM-L RGBW (XMLDCL HI)
FWHM / FWTM	26.0° / 48.0°
Efficiency	94 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	RGBW
Required components:	
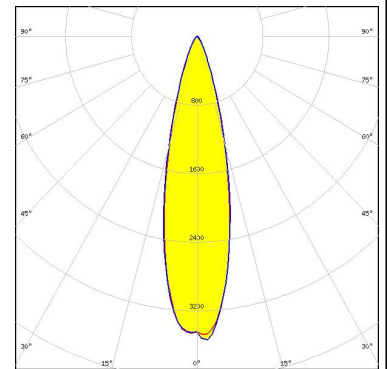
CREE LEDs	
LED	XP-G2
FWHM / FWTM	21.0° / 38.0°
Efficiency	96 %
Peak intensity	5.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

CREE LEDs
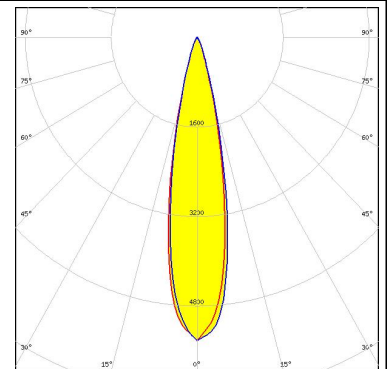
LED	XP-G3
FWHM / FWTM	24.0° / 44.0°
Efficiency	89 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Protective plate, glass	

CREE LEDs
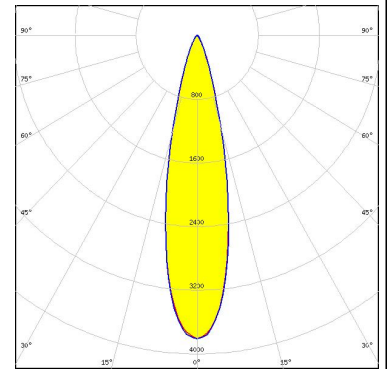
LED	XP-P
FWHM / FWTM	18.0° / 30.0°
Efficiency	91 %
Peak intensity	7.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Protective plate, glass	

LUMILEDS
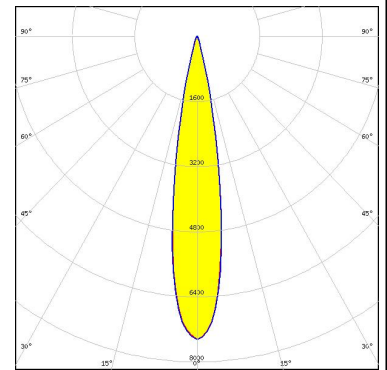
LED	LUXEON 5050 HE
FWHM / FWTM	26.0° / 50.0°
Efficiency	87 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Protective plate, glass	
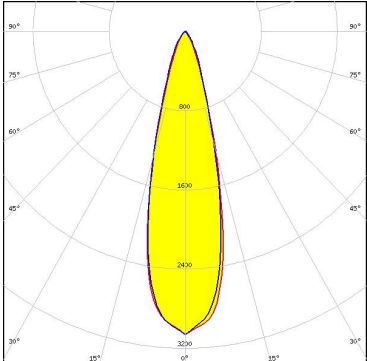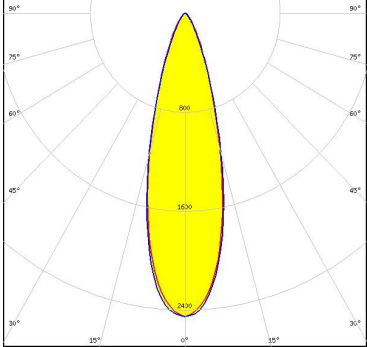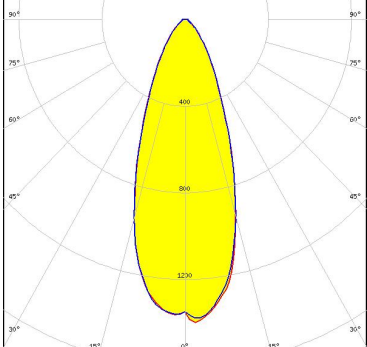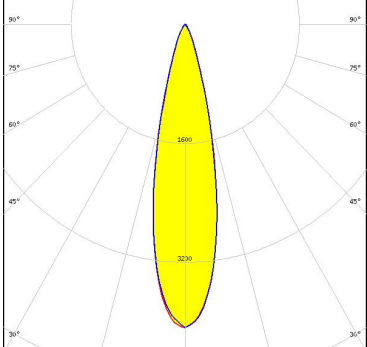
LUMILEDS
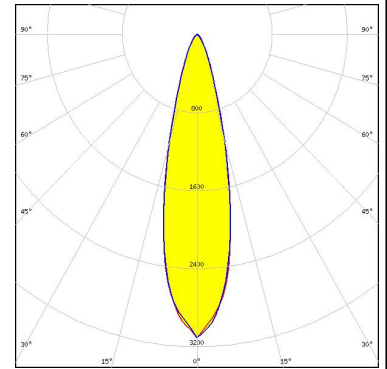
LED	LUXEON 5050 Round LES
FWHM / FWTM	28.0° / 52.0°
Efficiency	83 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Protective plate, glass	
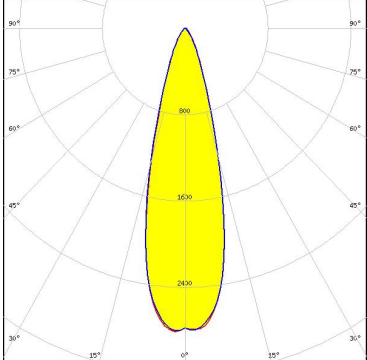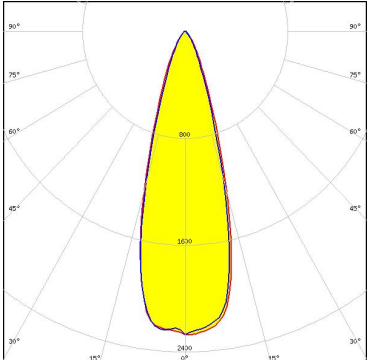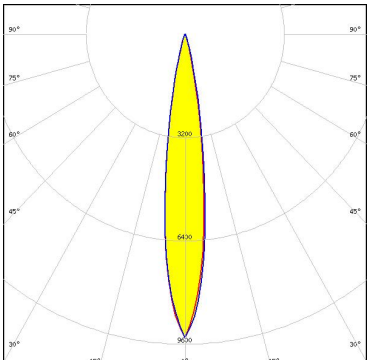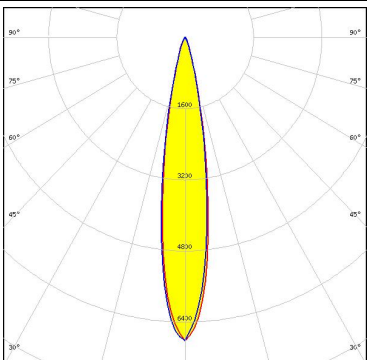
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	27.0° / 51.0°
Efficiency	90 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS

LED	LUXEON 5050 Square LES
FWHM / FWTM	28.0° / 57.0°
Efficiency	87 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

Protective plate, glass

LUMILEDS

LED	LUXEON 7070
FWHM / FWTM	38.0° / 79.0°
Efficiency	89 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS

LED	LUXEON HL2X
FWHM / FWTM	24.0° / 44.0°
Efficiency	95 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON HL2X-D
FWHM / FWTM	24.0° / 46.0°
Efficiency	96 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS

LED	LUXEON HL2X-D
FWHM / FWTM	24.0° / 46.0°
Efficiency	88 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Protective plate, glass	

LUMILEDS

LED	LUXEON HL2X-P
FWHM / FWTM	24.0° / 47.0°
Efficiency	95 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

NICHIA

LED	NFMW48xA
FWHM / FWTM	29.0° / 55.0°
Efficiency	90 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

NICHIA

LED	NFMW48xA
FWHM / FWTM	28.0° / 54.0°
Efficiency	93 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	Duris S8
FWHM / FWTM	31.0° / 56.0°
Efficiency	87 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	16.0° / 30.0°
Efficiency	96 %
Peak intensity	9.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors

LED	OSCONIQ P 3737 Flat
FWHM / FWTM	18.0° / 34.0°
Efficiency	95 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semiconductors	
LED	OSCONIQ S 5050
FWHM / FWTM	28.0° / 52.0°
Efficiency	94 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
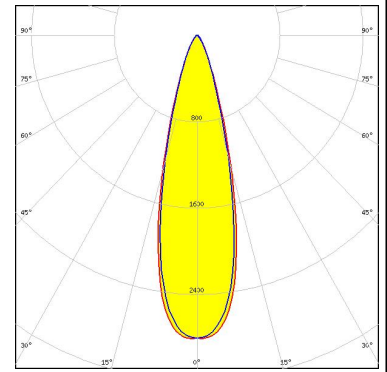
OSRAM Opto Semiconductors	
LED	OSCONIQ S 5050
FWHM / FWTM	28.0° / 52.0°
Efficiency	85 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	Protective plate, glass
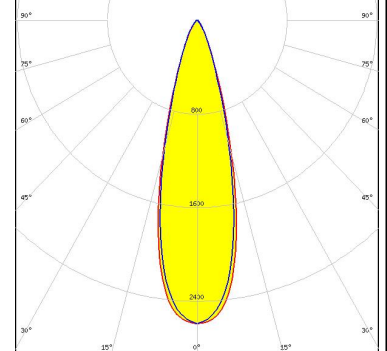
OSRAM Opto Semiconductors	
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	24.0° / 42.0°
Efficiency	87 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	Protective plate, glass
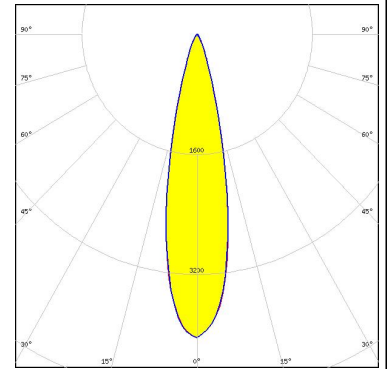
OSRAM Opto Semiconductors	
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	20.0° / 38.0°
Efficiency	95 %
Peak intensity	5.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
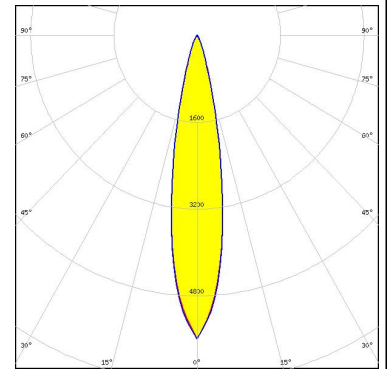
OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semiconductors

LED	OSLON Square Flat
FWHM / FWTM	17.0° / 30.0°
Efficiency	96 %
Peak intensity	8.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
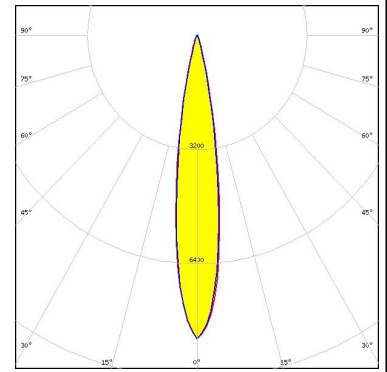
OSRAM Opto Semiconductors

LED	OSTAR Projection Compact (KW.CSLNM1.TG)
FWHM / FWTM	19.0° / 32.0°
Efficiency	96 %
Peak intensity	7.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
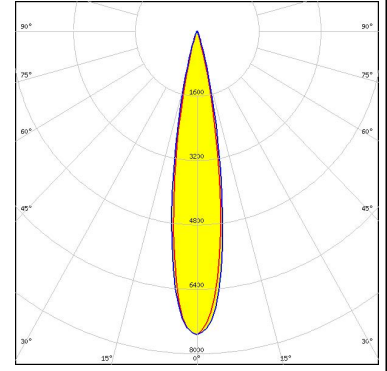
SAMSUNG

LED	LH502C
FWHM / FWTM	28.0° / 54.0°
Efficiency	92 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
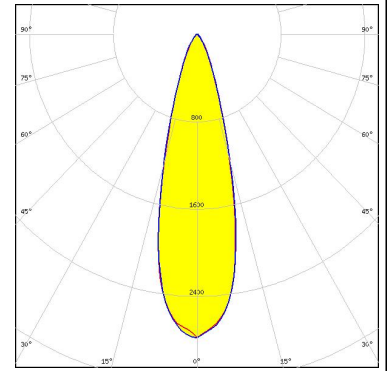
SAMSUNG

LED	LH502C
FWHM / FWTM	28.0° / 54.0°
Efficiency	85 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	Protective plate, glass
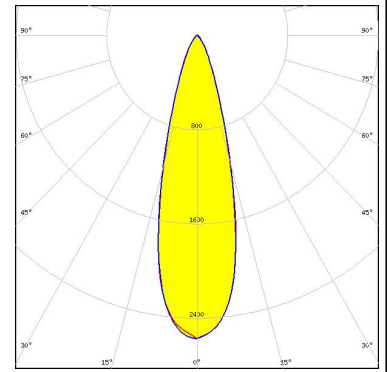
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LH508B
FWHM / FWTM	28.0° / 56.0°
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
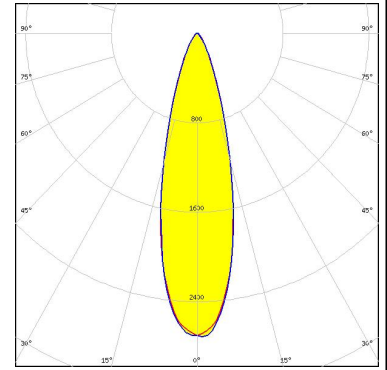
SAMSUNG

LED	LM301B
FWHM / FWTM	16.0° / 32.0°
Efficiency	94 %
Peak intensity	7.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
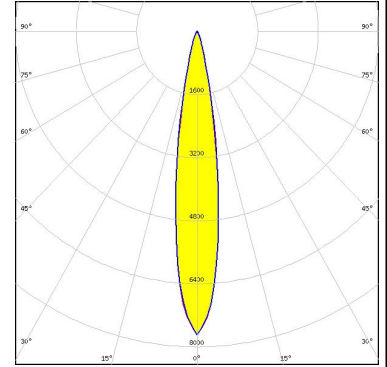
SEOUL SEMICONDUCTOR

LED	MJT 5050
FWHM / FWTM	30.0° / 60.0°
Efficiency	92 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	