HB-2X2-5050-S

~25° spot beam for industrial applications



SPECIFICATION:

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

MATERIALS:

Component	Type	Material	Colour	Finish	Length
HB-2X2-5050-S	Multi-lens	PMMA	clear		50.0

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C17303_HB-2X2-5050-S » Box size: 480 x 280 x 300 mm	800	160	160	10.2

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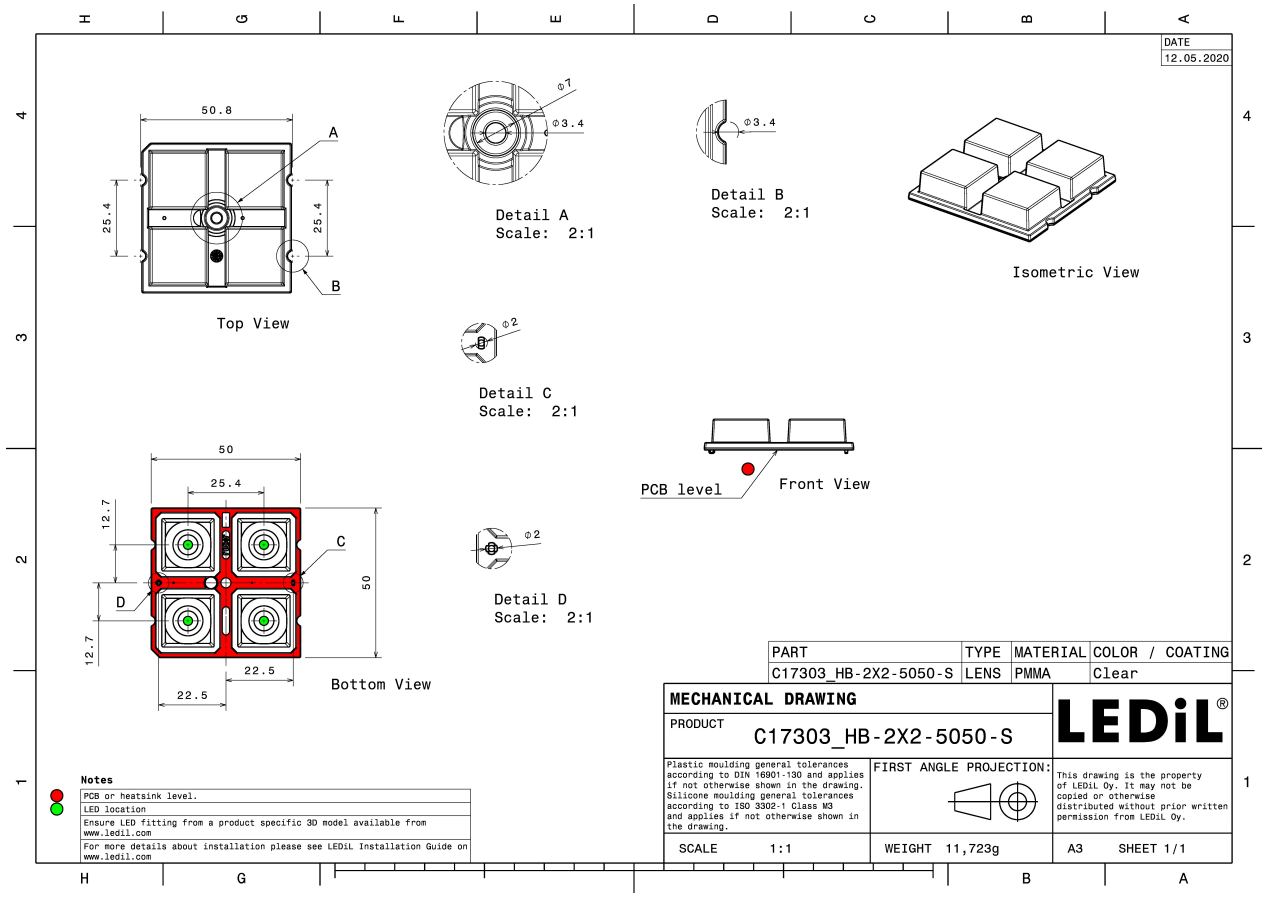

See also our general installation guide: www.ledil.com/installation_guide

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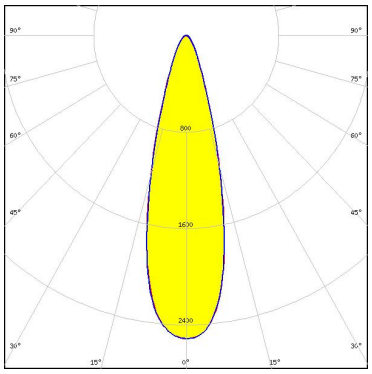
OPTICAL RESULTS (MEASURED):

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/type	White
Required components:	



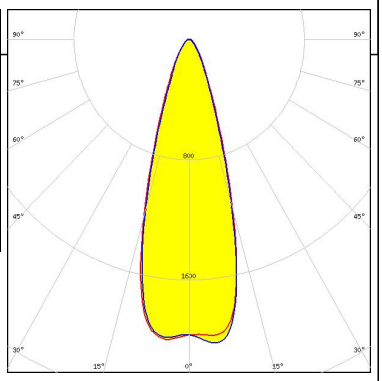


Light distribution files

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/type	White
Required components:	

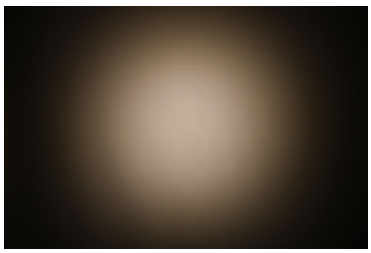


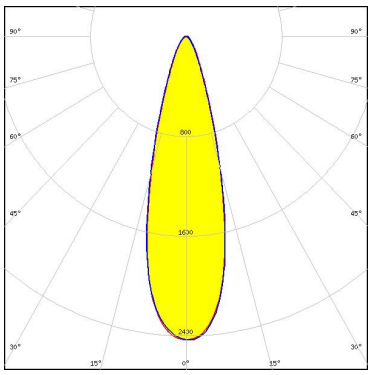


Light distribution files

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/type	White
Required components:	





Light distribution files

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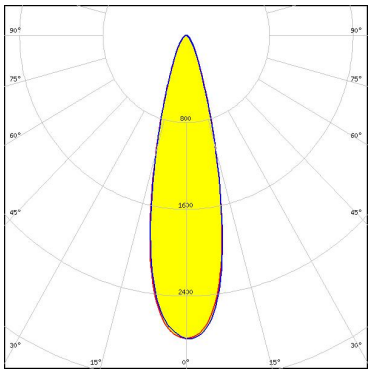
OPTICAL RESULTS (MEASURED):

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/type	White
Required components:	





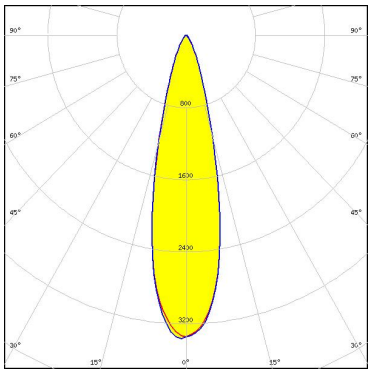
Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

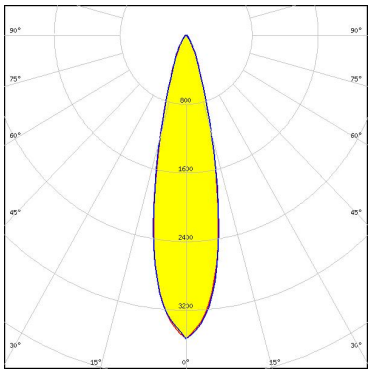
CREE LEDs

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/type	White
Required components:	



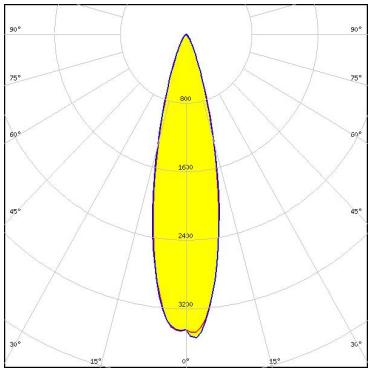
CREE LEDs

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/type	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/type	RGBW
Required components:	



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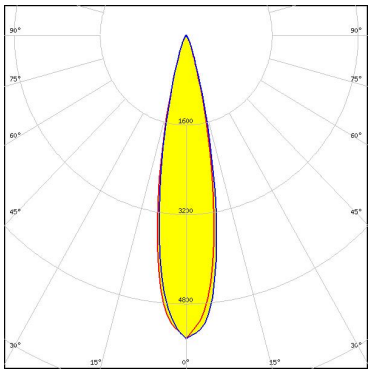
OPTICAL RESULTS (SIMULATED):

CREE LEDs

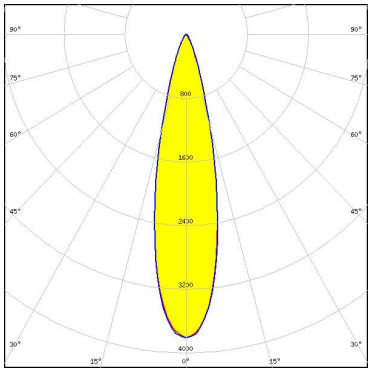
LED	XP-G2
FWHM / FWTM	21.0° / 38.0°
Efficiency	96 %
Peak intensity	5.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



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/type	White
Required components:	

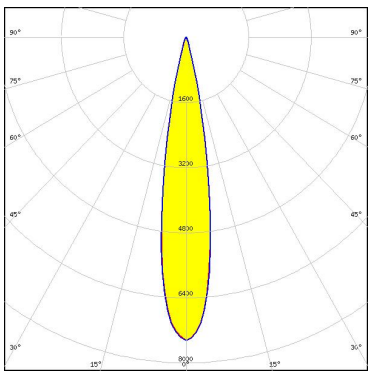
Protective plate, glass



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/type	White
Required components:	

Protective plate, glass



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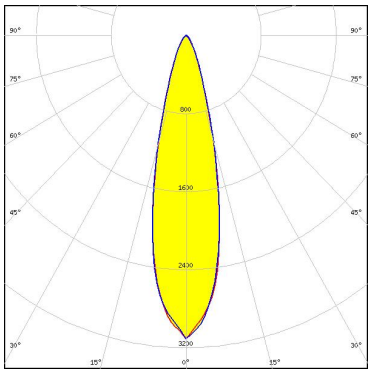
OPTICAL RESULTS (SIMULATED):

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/type	White
Required components:	

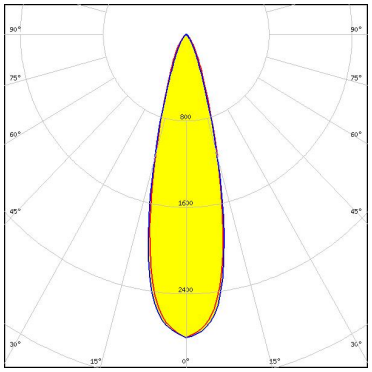
Protective plate, glass



LUMILEDS

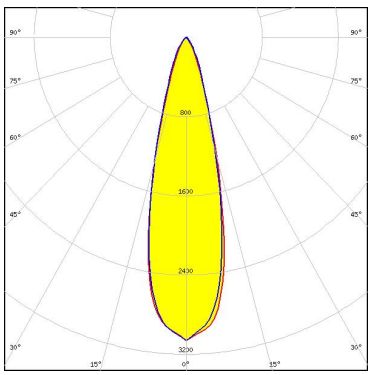
LED	LUXEON 5050 Round LES
FWHM / FWTM	28.0° / 52.0°
Efficiency	83 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



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/type	White
Required components:	



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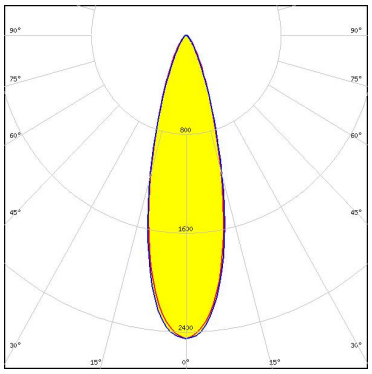
OPTICAL RESULTS (SIMULATED):

LUMILEDS

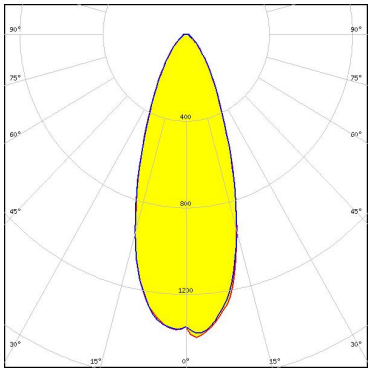
LED	LUXEON 5050 Square LES
FWHM / FWTM	28.0° / 57.0°
Efficiency	87 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



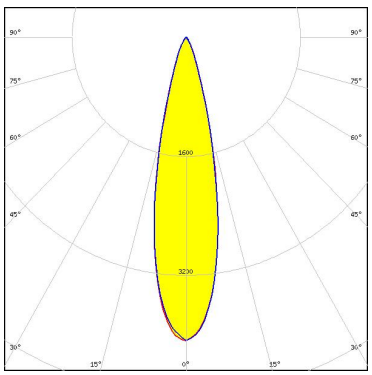
LUMILEDS

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



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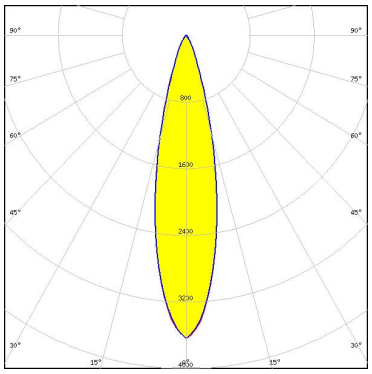
OPTICAL RESULTS (SIMULATED):

LUMILEDS

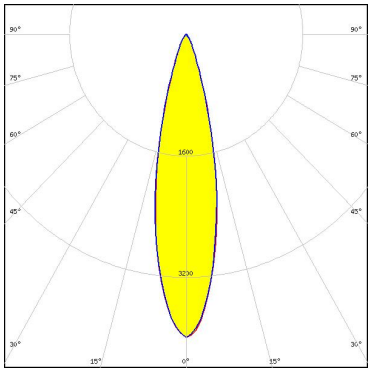
LED	LUXEON HL2X-D
FWHM / FWTM	24.0° / 46.0°
Efficiency	88 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



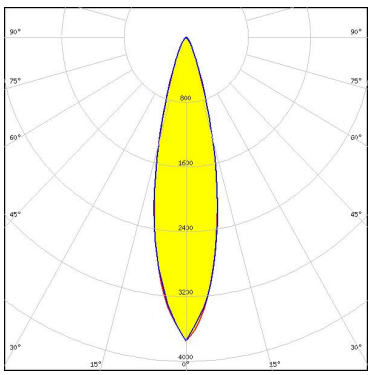
LUMILEDS

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



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/type	White
Required components:	



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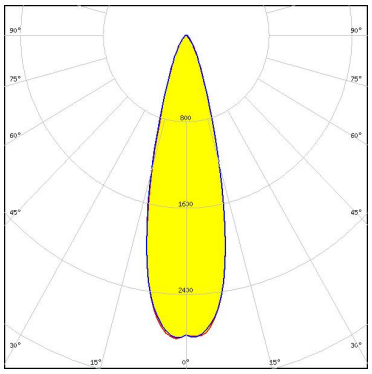
OPTICAL RESULTS (SIMULATED):

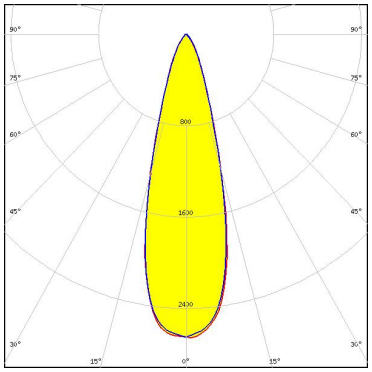
NICHIA

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



NICHIA

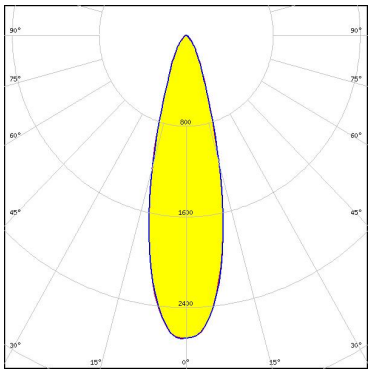
LED	NFMW48xA
FWHM / FWTM	29.0° / 55.0°
Efficiency	90 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



OSRAM
Opto Semiconductors

LED	DURIS E 5050 (GW J9LHS1.4M)
FWHM / FWTM	28.0° / 56.0°
Efficiency	88 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	

Protective plate, glass



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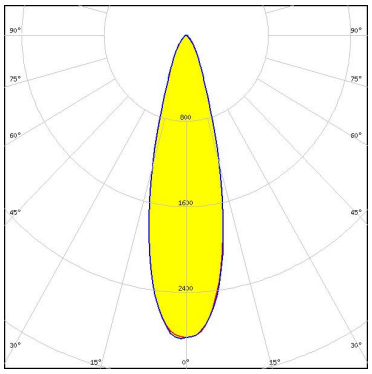
OPTICAL RESULTS (SIMULATED):

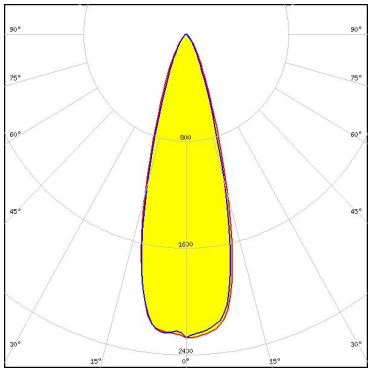
OSRAM
Opto Semiconductors

LED	DURIS E 5050 (GW J9LHS1.4M)
FWHM / FWTM	28.0° / 56.0°
Efficiency	93 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	



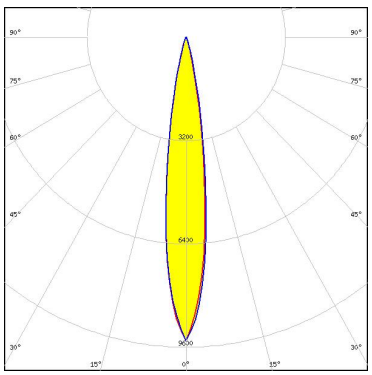
OSRAM
Opto Semiconductors

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



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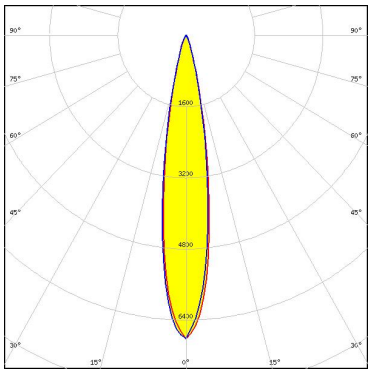
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

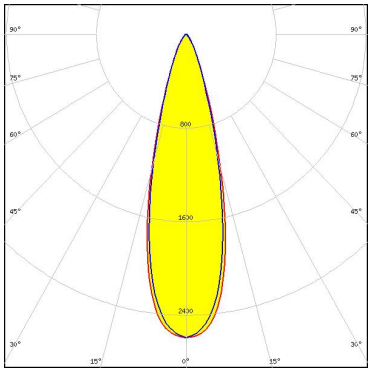
LED	OSCONIQ P 3737 Flat
FWHM / FWTM	18.0° / 34.0°
Efficiency	95 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



OSRAM
Opto Semiconductors

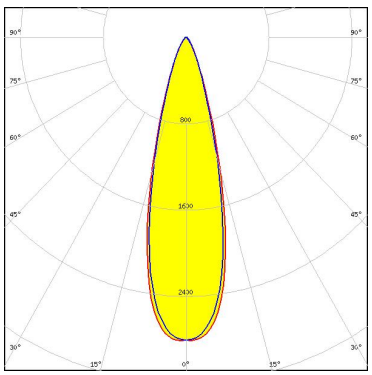
LED	OSCONIQ S 5050
FWHM / FWTM	28.0° / 52.0°
Efficiency	85 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



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/type	White
Required components:	



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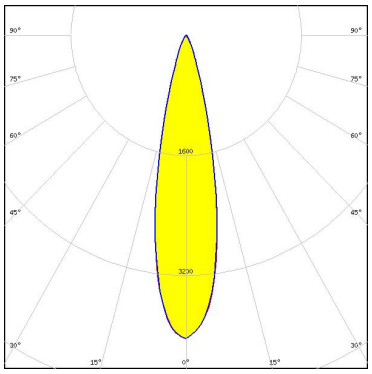
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

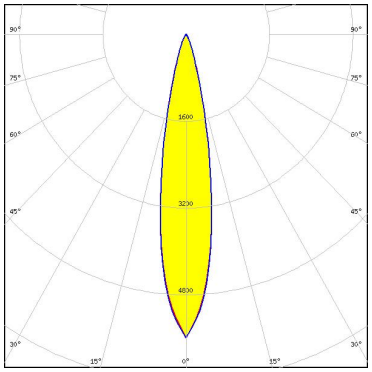
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	24.0° / 42.0°
Efficiency	87 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



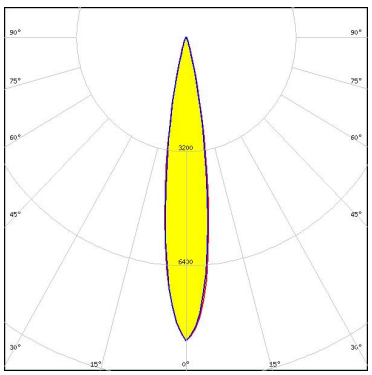
OSRAM
Opto Semiconductors

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/type	White
Required components:	



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/type	White
Required components:	



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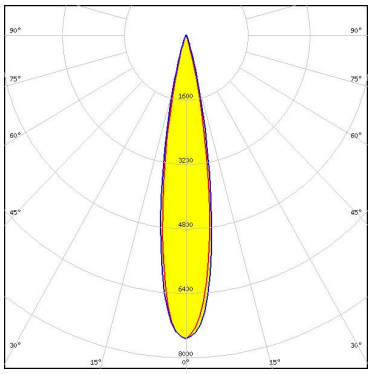
OPTICAL RESULTS (SIMULATED):

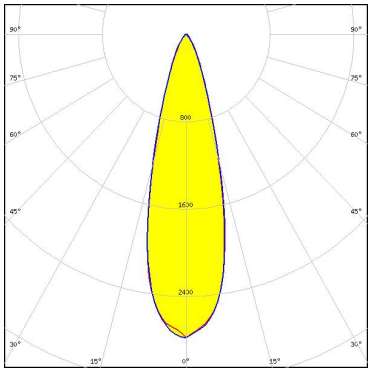
OSRAM
Opto Semiconductors

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/type	White
Required components:	



SAMSUNG

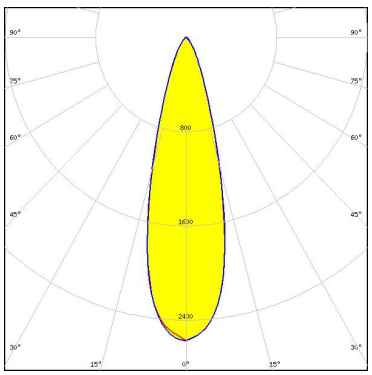
LED	LH502C
FWHM / FWTM	28.0° / 54.0°
Efficiency	92 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



SAMSUNG

LED	LH502C
FWHM / FWTM	28.0° / 54.0°
Efficiency	85 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

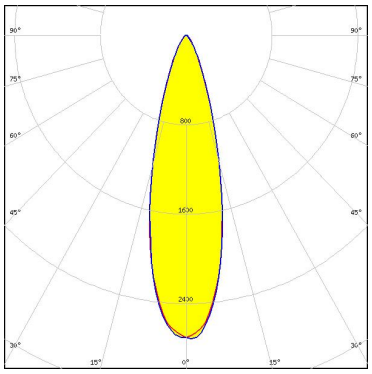


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

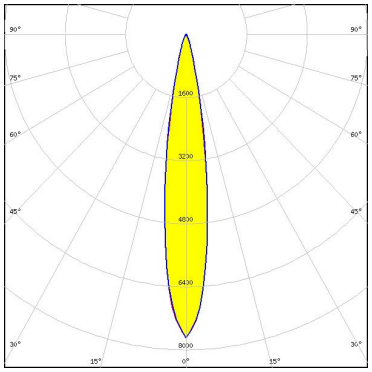
SAMSUNG

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



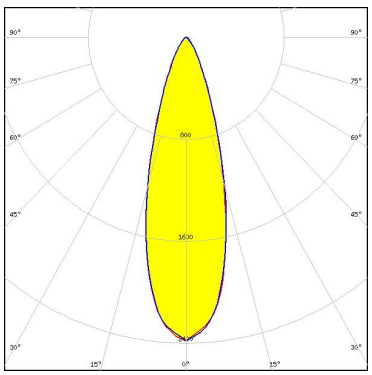
SAMSUNG

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



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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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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