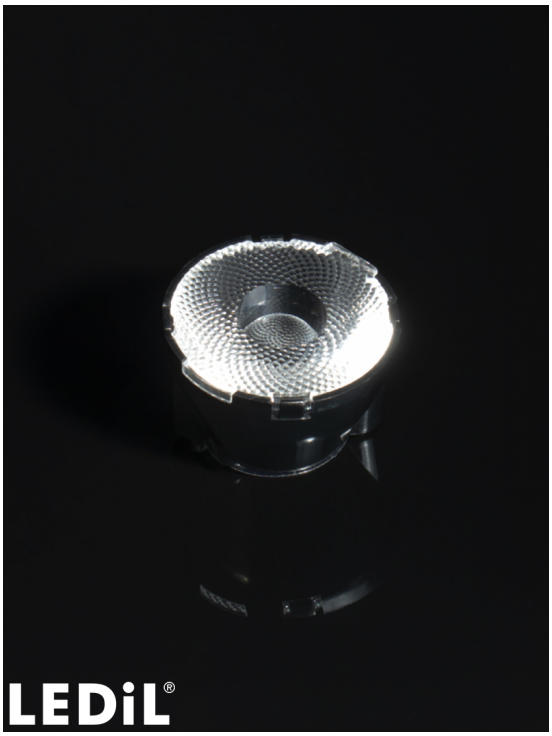
GABRIELLA-MIDI-M

~25° spot beam with holder and installation tape



SPECIFICATION:

Dimensions	Ø 37.8 mm
Height	24.1 mm
Fastening	tape, pin
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Length
GABRIELLA-MIDI-M	Single lens	PMMA	clear		37.5
GABRIELLA-MIDI-HLD	Assembly	PC	black		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA16203_GABRIELLA-MIDI-M » Box size: 476 x 273 x 292 mm	500	100	50	11.5

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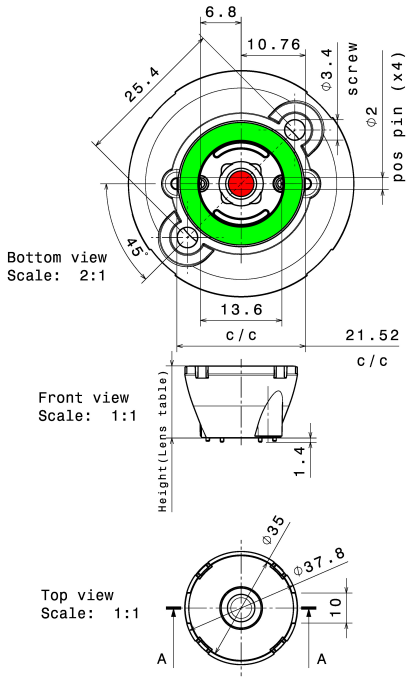
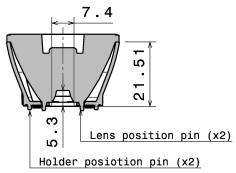
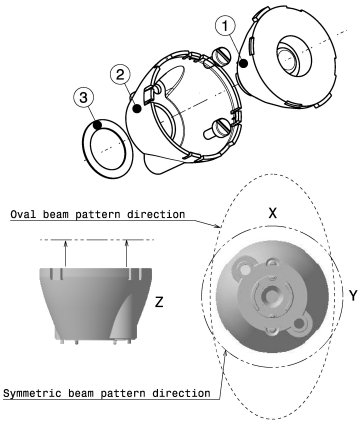




Section view A-A
Scale: 1:1



Lens table

ASSEMBLY CODE	Lens	Height
CA16202_GABRIELLA-MIDI-S	C16193_GABRIELLA-MIDI-S	24.08mm
CA16203_GABRIELLA-MIDI-M	C16194_GABRIELLA-MIDI-M	24.08mm
CA16204_GABRIELLA-MIDI-W	C16195_GABRIELLA-MIDI-W	24.17mm
CA16205_GABRIELLA-MIDI-O	C16196_GABRIELLA-MIDI-O	24.29mm

ASSEMBLY COMPONENTS

INDEX	PRODUCT	TYPE	MATERIAL	COLOUR/COATING
1	GABRIELLA-MIDI-Lens (See assembly table)	LENS	PMMA	CLEAR
2	C16192_GABRIELLA-MIDI-HLD	HOLDER	PC	BLACK
3	C16306_GABRIELLA-MIDI-TAPE	TAPE	PU	BLACK

Notes

- PCB or Heat Sink level
- Led location see marking.
- Ensure LED fitting, see our web site and/or 3D model for part detail.
- See more information on page 2,3,4
- Optional parts can be shown in drawing.

MECHANICAL DRAWING

PRODUCT
GABRIELLA-MIDI

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

FIRST ANGLE PROJECTION:

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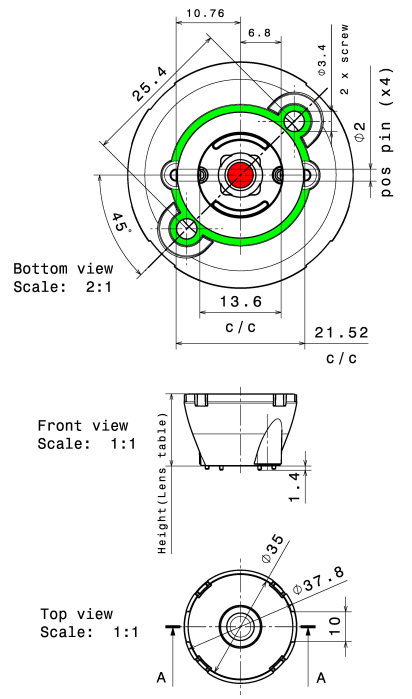
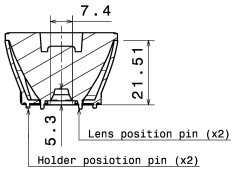
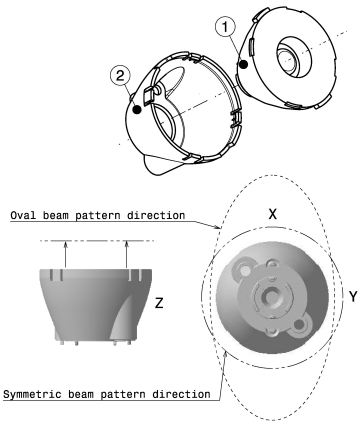
SCALE 1:1 | SIZE A3 | SHEET 1/4





Section view A-A
Scale: 1:1



Lens table

ASSEMBLY CODE	Lens	Height
CN16208_GABRIELLA-MIDI-S	C16193_GABRIELLA-MIDI-S	24.08mm
CN16209_GABRIELLA-MIDI-M	C16194_GABRIELLA-MIDI-M	24.08mm
CN16210_GABRIELLA-MIDI-W	C16195_GABRIELLA-MIDI-W	24.17mm
CN16211_GABRIELLA-MIDI-O	C16196_GABRIELLA-MIDI-O	24.29mm

ASSEMBLY COMPONENTS

INDEX	PRODUCT	TYPE	MATERIAL	COLOUR/COATING
1	GABRIELLA-MIDI-Lens (See lens table)	LENS	PMMA	CLEAR
2	C16192_GABRIELLA-MIDI-HLD	HOLDER	PC	BLACK

Notes

- PCB or Heat Sink level
- Led location see marking.
- Ensure LED fitting, see our web site and/or 3D model for part detail.

MECHANICAL DRAWING

PRODUCT
GABRIELLA-MIDI

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

FIRST ANGLE PROJECTION:

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SCALE 1:1 | SIZE A3 | SHEET 3/4

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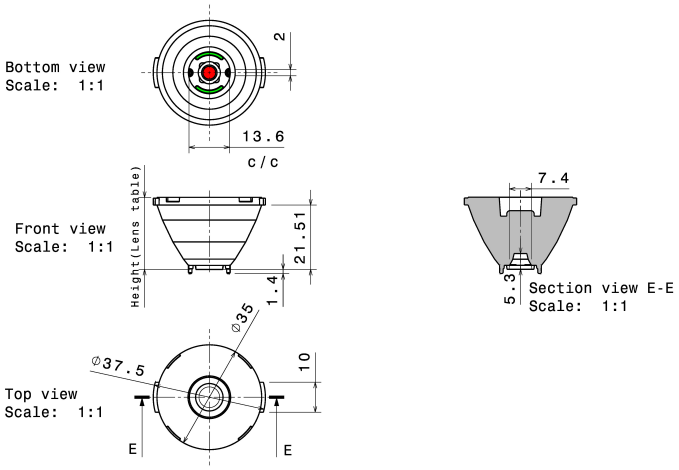

Isometric view
Scale: 1:1

Lens table	
Lens	Height
C16193_GABRIELLA-MIDI-S	24.08mm
C16194_GABRIELLA-MIDI-M	24.08mm
C16195_GABRIELLA-MIDI-W	24.17mm
C16196_GABRIELLA-MIDI-O	24.29mm

COMPONENTS

INDEX	PRODUCT	TYPE	MATERIAL	COLOUR/COATING
1	GABRIELLA-MIDI-Lens (See assembly table)	LENS	PMMA	CLEAR

Notes

PCB or Heat Sink level
Led location see marking.
Ensure LED fitting, see our web site and/or 3D model for part detail.

MECHANICAL DRAWING

PRODUCT
GABRIELLA-MIDI

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

FIRST ANGLE PROJECTION:

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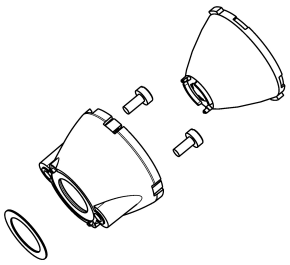
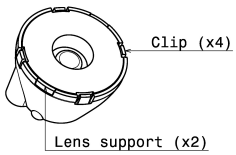
SCALE 1:1 | SIZE A3 | SHEET 2/4



1. Place holder on PCB using the holder location pins as guide elements. Holder is fixed either by with on-board PU-tape or M3 screw with max 0.6Nm torgue.

2. Place lens support features into relative holes in the holder, please note that the location pins on the lens goes through the PCB.

3.Press optic until 4 clips each locked.



MECHANICAL DRAWING

PRODUCT
GABRIELLA-MIDI

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

FIRST ANGLE PROJECTION:

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SCALE 1:1 | SIZE A3 | SHEET 4/4

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

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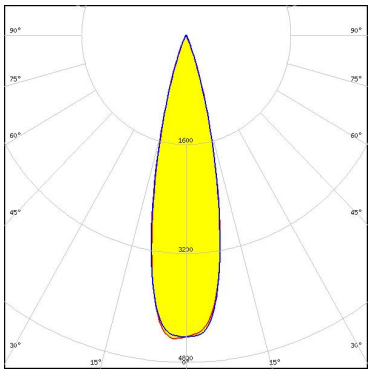
OPTICAL RESULTS (MEASURED):

CREE LEDs

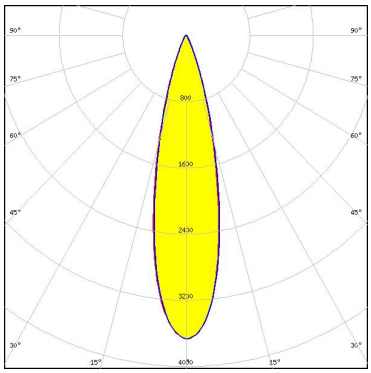
LED	XHP35 HI
FWHM / FWTM	25.0° / 41.0°
Efficiency	89 %
Peak intensity	4.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

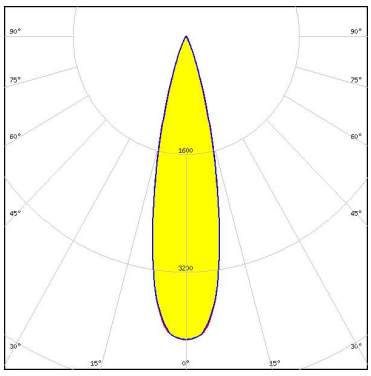
LED	XHP50.2
FWHM / FWTM	25.0° / 45.0°
Efficiency	85 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XM-L RGBW (XMLDCL HI)
FWHM / FWTM	25.0° / 42.0°
Efficiency	87 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	



Light distribution files

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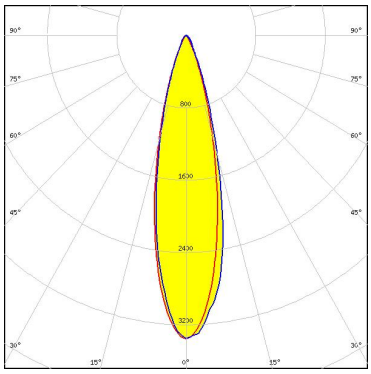
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

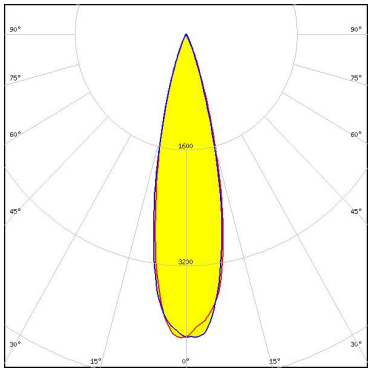
LED	OSLON Pure 1414
FWHM / FWTM	25.0° / 48.0°
Efficiency	85 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

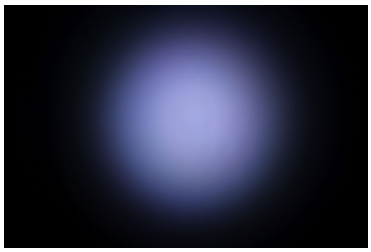
LED	OSTAR Stage (S2WP)
FWHM / FWTM	25.0° / 42.0°
Efficiency	88 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

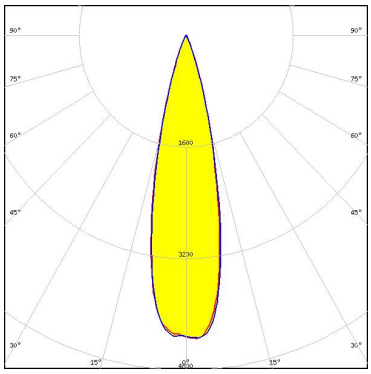


Light distribution files

SEOUL SEMICONDUCTOR

LED	SPF05F0A
FWHM / FWTM	25.0° / 41.0°
Efficiency	88 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	





Light distribution files

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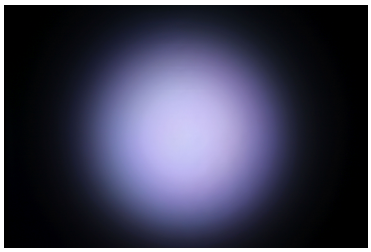
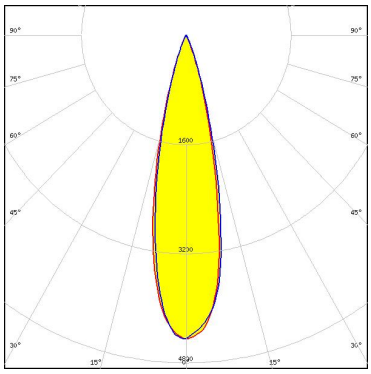
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	SPF05F0B
FWHM / FWTM	25.0° / 42.0°
Efficiency	88 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	

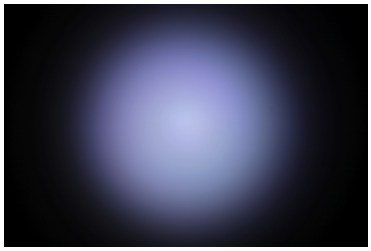


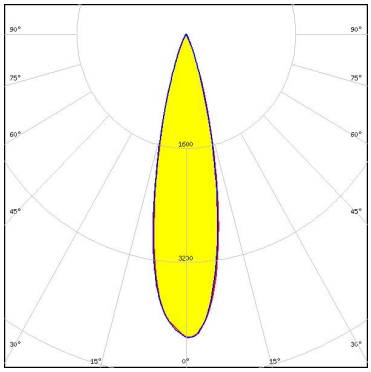


Light distribution files

SEOUL SEMICONDUCTOR

LED	SPF05F0C
FWHM / FWTM	24.0° / 42.0°
Efficiency	87 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	





Light distribution files

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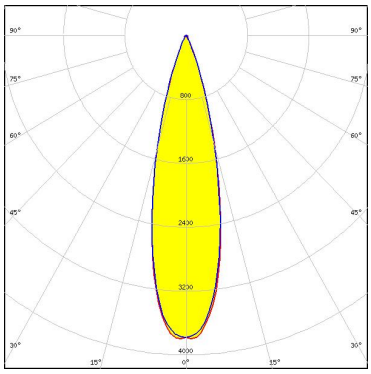
OPTICAL RESULTS (SIMULATED):

CREE LEDs

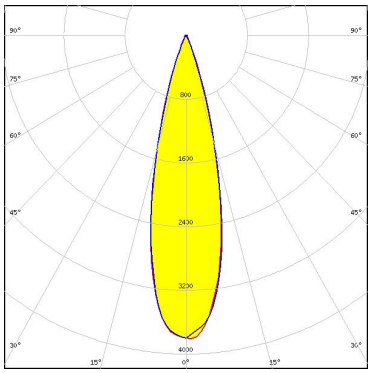
LED	J Series 5050 Round LES
FWHM / FWTM	26.0° / 44.0°
Efficiency	88 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

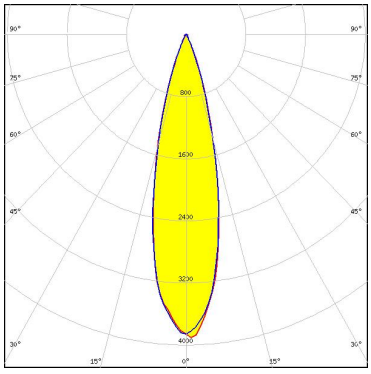
LED	XHP35.2 HD
FWHM / FWTM	26.0° / 44.0°
Efficiency	85 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XHP50
FWHM / FWTM	26.0° / 44.0°
Efficiency	87 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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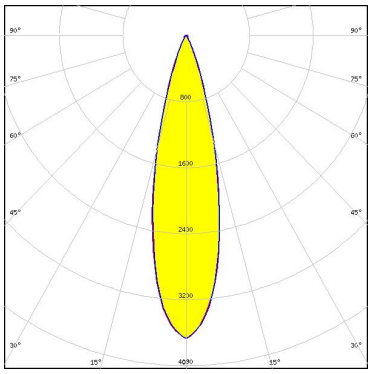
OPTICAL RESULTS (SIMULATED):

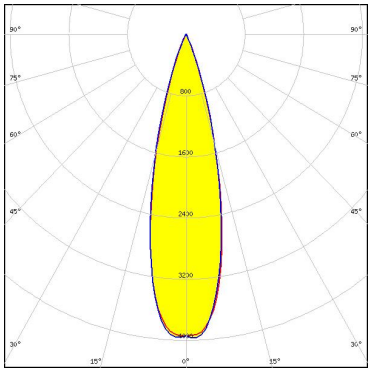
CREE LEDs

LED	XHP70.3 HI
FWHM / FWTM	26.0° / 46.0°
Efficiency	87 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



CREE LEDs

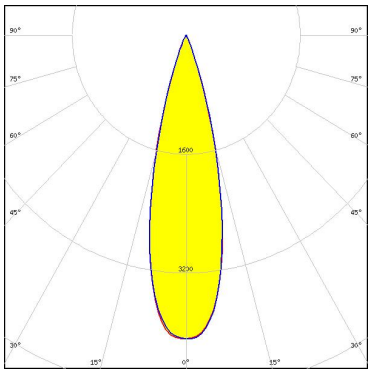
LED	XM-L RGBW (XMLCTW)
FWHM / FWTM	26.0° / 44.0°
Efficiency	88 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XM-L2
FWHM / FWTM	27.0° / 43.0°
Efficiency	88 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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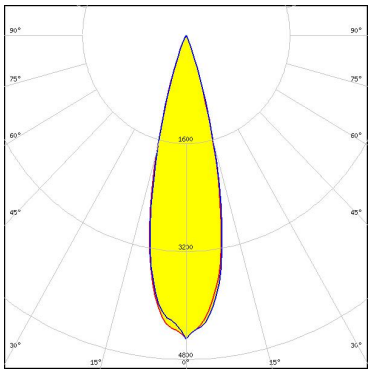
OPTICAL RESULTS (SIMULATED):

CREE LEDs

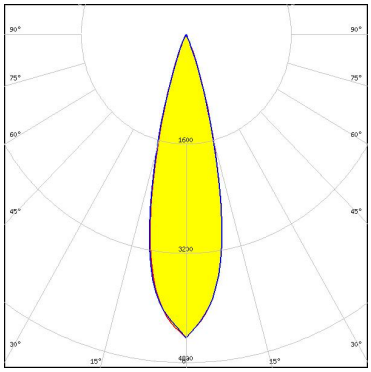
LED	XP-E2
FWHM / FWTM	26.0° / 41.0°
Efficiency	90 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour/type	Amber
Required components:	



Light distribution files

CREE LEDs

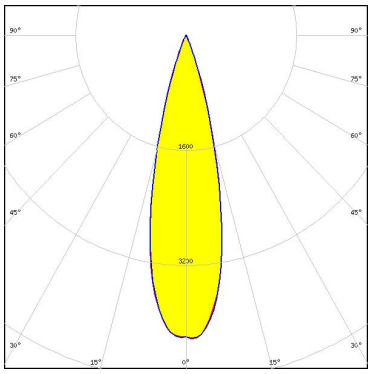
LED	XP-G2
FWHM / FWTM	26.0° / 42.0°
Efficiency	89 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-G2 HE
FWHM / FWTM	26.0° / 42.0°
Efficiency	88 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



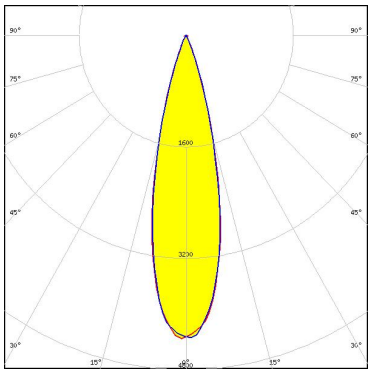
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

LED ENGIN

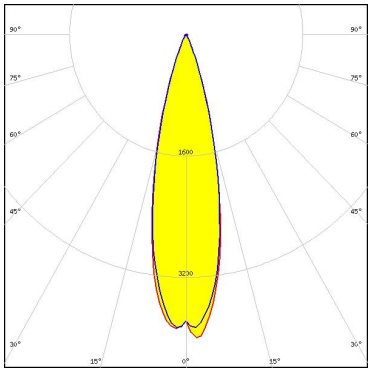
LED	LZ7 Plus (LZ7-04M2PD)
FWHM / FWTM	25.0° / 42.0°
Efficiency	90 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

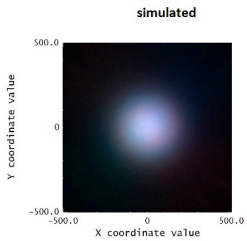
LED	LUXEON 5050 Round LES
FWHM / FWTM	26.0° / 44.0°
Efficiency	89 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

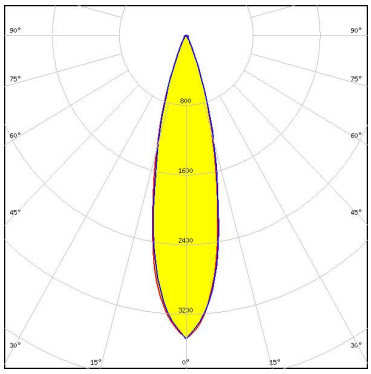


Light distribution files

LUMILEDS

LED	LUXEON C
FWHM / FWTM	24.0 + °
Efficiency	83 %
Peak intensity	3.5 cd/lm
LEDs/each optic	4
Light colour/type	RGBW
Required components:	





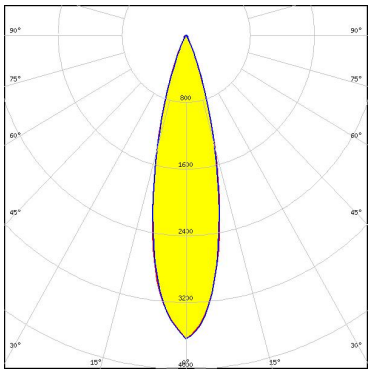
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

LUMILEDS

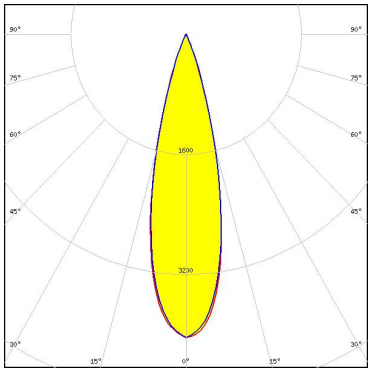
LED	LUXEON M/MX
FWHM / FWTM	25.0° / 46.0°
Efficiency	86 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

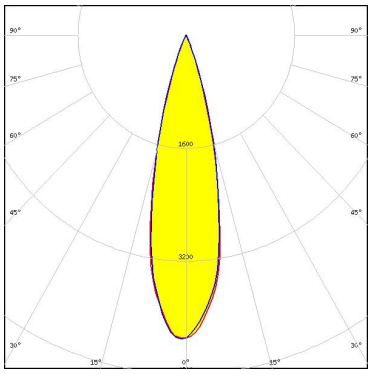
LED	LUXEON MZ
FWHM / FWTM	26.0° / 43.0°
Efficiency	88 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON Rubix
FWHM / FWTM	26.0° / 42.0°
Efficiency	89 %
Peak intensity	4.3 cd/lm
LEDs/each optic	4
Light colour/type	RGBW
Required components:	



Light distribution files

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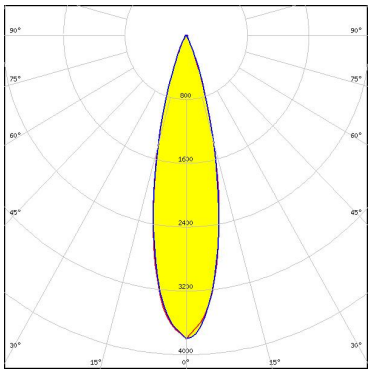
OPTICAL RESULTS (SIMULATED):

NICHIA

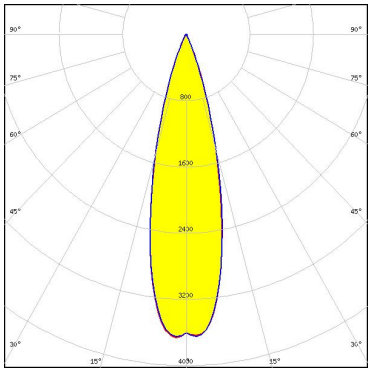
LED	NV4x144A
FWHM / FWTM	26.0° / 44.0°
Efficiency	86 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

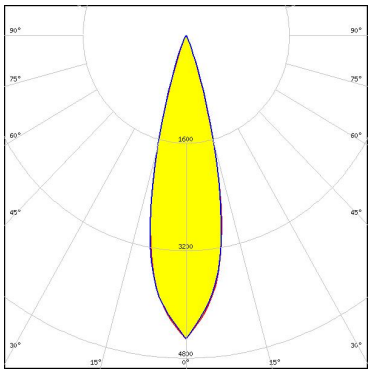
LED	Duris S8
FWHM / FWTM	27.0° / 45.0°
Efficiency	87 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	26.0° / 41.0°
Efficiency	89 %
Peak intensity	4.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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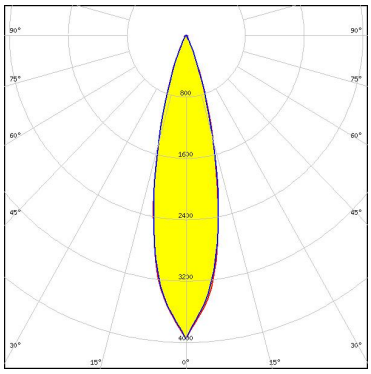
OPTICAL RESULTS (SIMULATED):

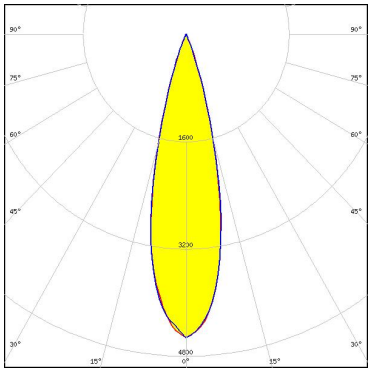
SAMSUNG

LED	LH502D
FWHM / FWTM	25.0° / 44.0°
Efficiency	88 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



SAMSUNG

LED	LM28xB Series
FWHM / FWTM	26.0° / 42.0°
Efficiency	90 %
Peak intensity	4.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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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:

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