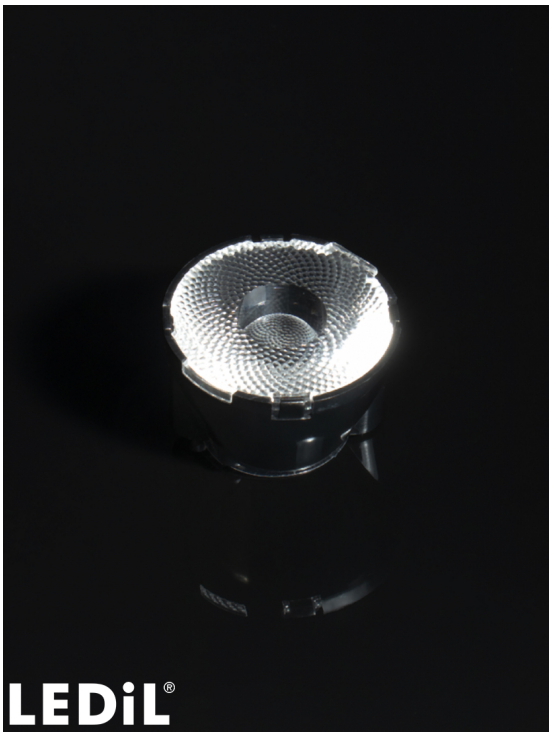
GABRIELLA-MIDI-M

~25° spot beam with holder and installation tape



SPECIFICATION:

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

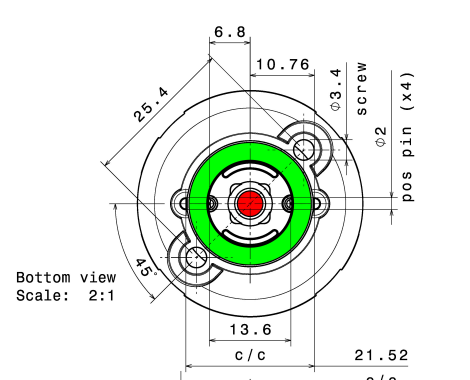
MATERIALS:

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

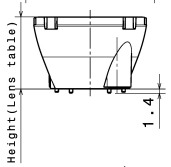
ORDERING INFORMATION:

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

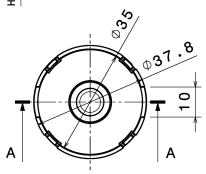
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.



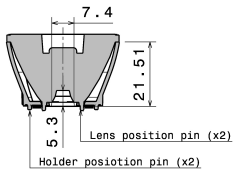
Bottom view
Scale: 2:1



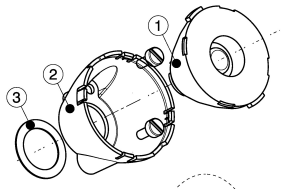
Front view
Scale: 1:1

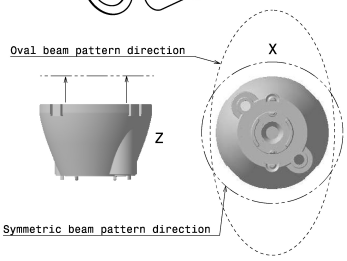


Top view
Scale: 1:1



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

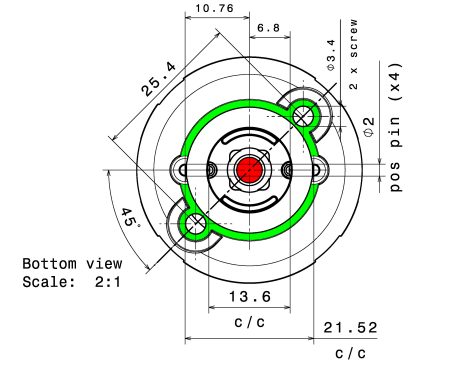
PRODUCT
GABRIELLA-MIDI

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

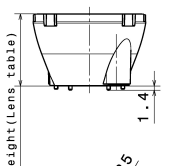
FIRST ANGLE PROJECTION:

This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

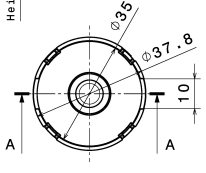
SCALE 1:1 | SIZE A3 | SHEET 1/4



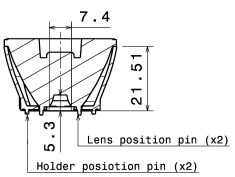
Bottom view
Scale: 2:1



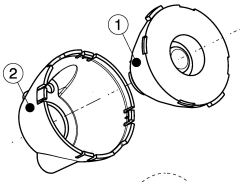
Front view
Scale: 1:1

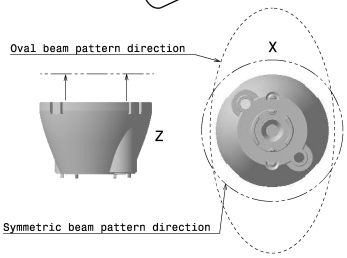


Top view
Scale: 1:1



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

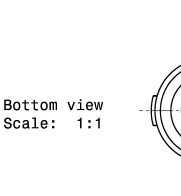
Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

FIRST ANGLE PROJECTION:

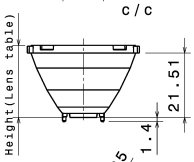
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

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

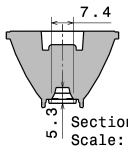
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.



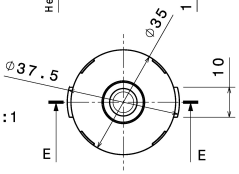
Bottom view
Scale: 1:1



Front view
Scale: 1:1



Section view E-E
Scale: 1:1



Top view
Scale: 1:1



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

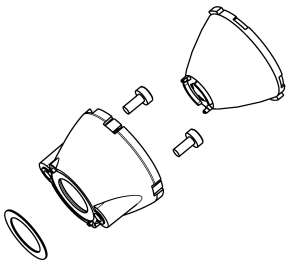
PRODUCT
GABRIELLA-MIDI

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:

This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

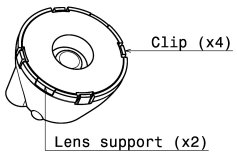
SCALE 1:1 | SIZE A3 | SHEET 2/4



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:

This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

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

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

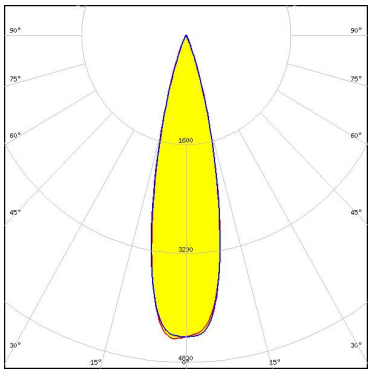
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

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:	



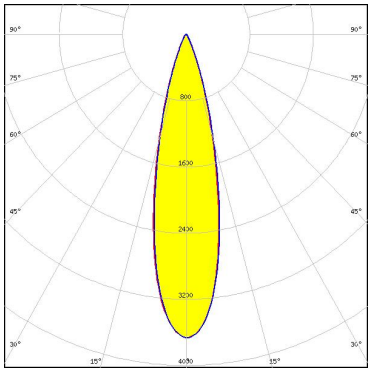


Light distribution files

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:	



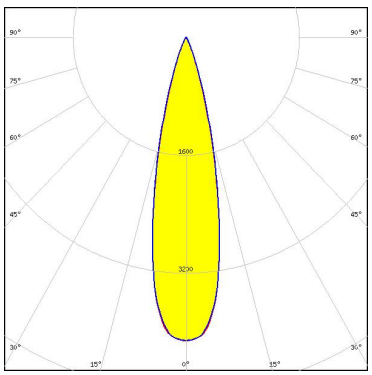


Light distribution files

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

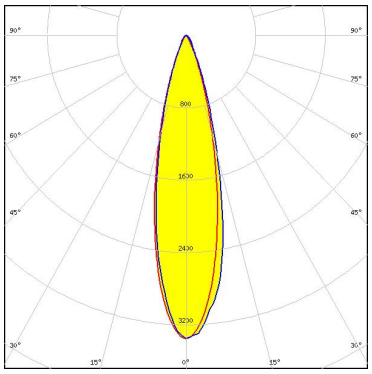
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

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:	



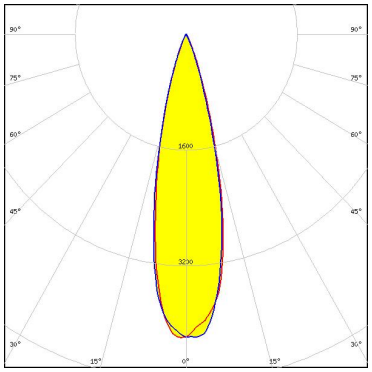


Light distribution files

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:	

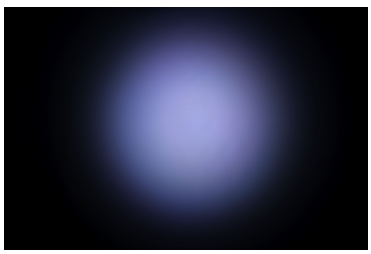


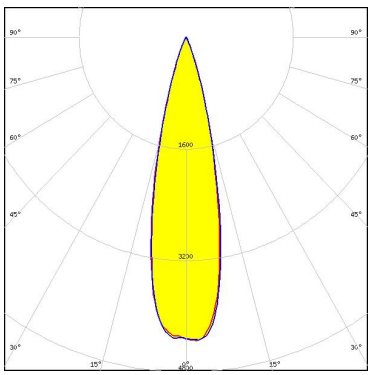


Light distribution files

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:	





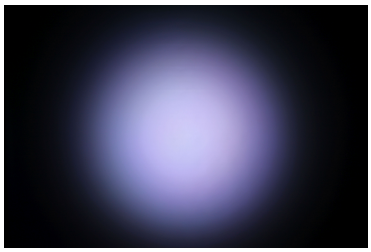
Light distribution files

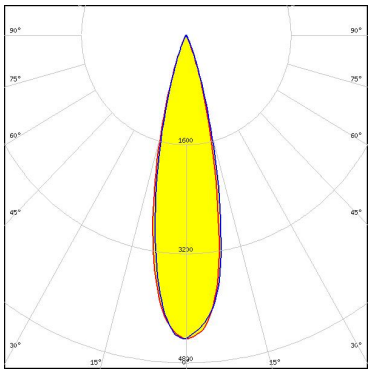
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

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:	

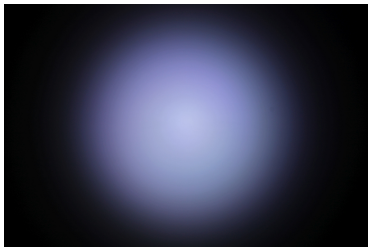


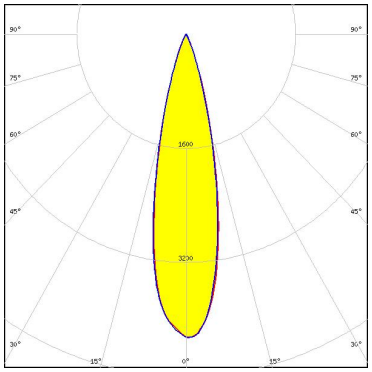


Light distribution files

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:	





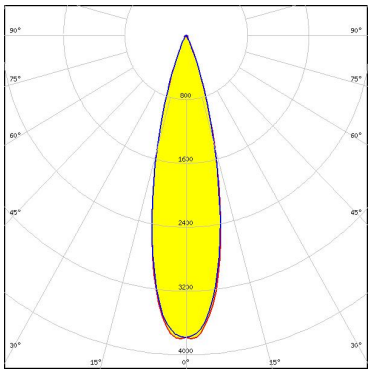
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CREE LEDs

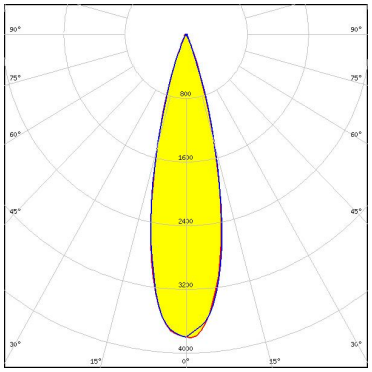
LED	J Series 5050 Round LES
FWHM / FWTM	26.0° / 44.0°
Efficiency	88 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

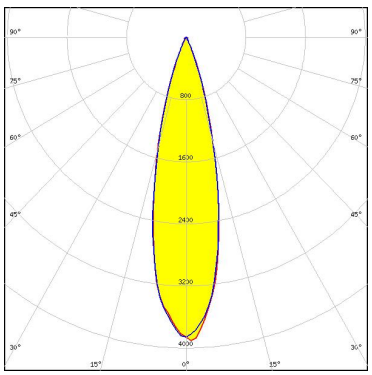
LED	XHP35.2 HD
FWHM / FWTM	26.0° / 44.0°
Efficiency	85 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



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:	



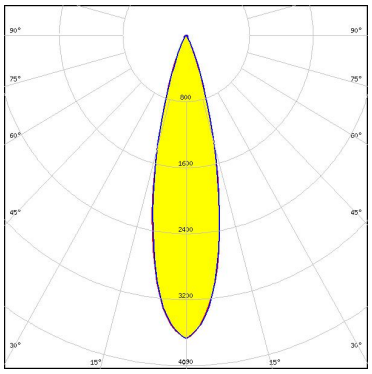
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CREE LEDs

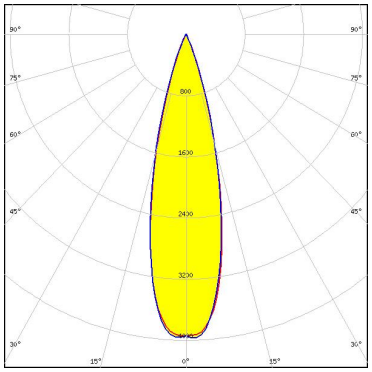
LED	XHP70.3 HI
FWHM / FWTM	26.0° / 46.0°
Efficiency	87 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

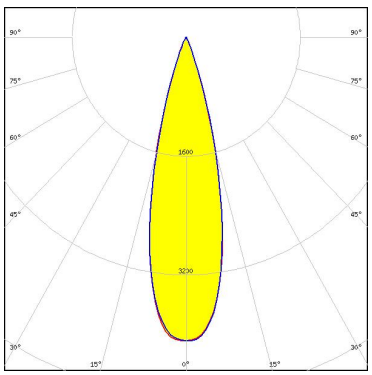
LED	XM-L RGBW (XMLCTW)
FWHM / FWTM	26.0° / 44.0°
Efficiency	88 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



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:	



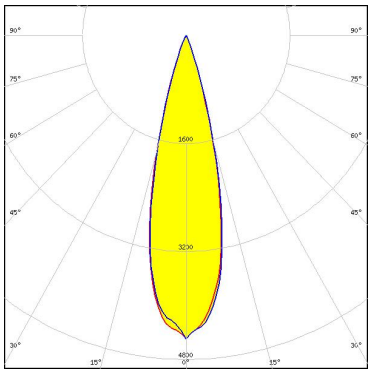
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CREE LEDs

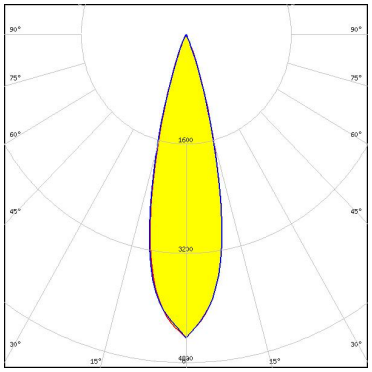
LED	XP-E2
FWHM / FWTM	26.0° / 41.0°
Efficiency	90 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour/type	Amber
Required components:	



Light distribution files

CREE LEDs

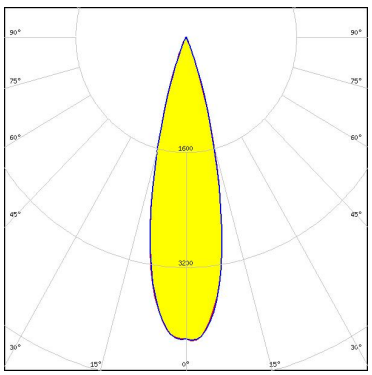
LED	XP-G2
FWHM / FWTM	26.0° / 42.0°
Efficiency	89 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



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

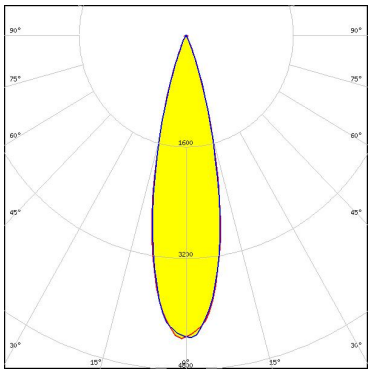
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

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:	

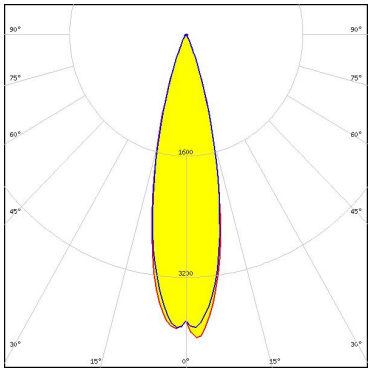




Light distribution files

LUMILEDS

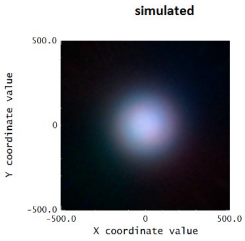
LED	LUXEON 5050 Round LES
FWHM / FWTM	26.0° / 44.0°
Efficiency	89 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

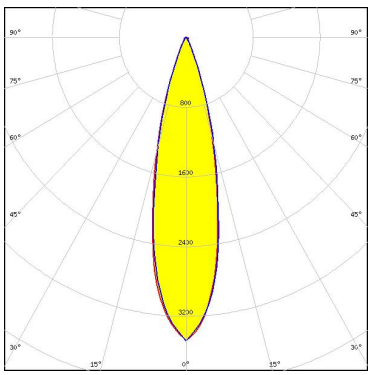


Light distribution files

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:	





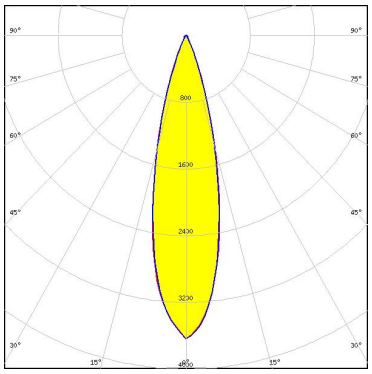
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

LUMILEDS

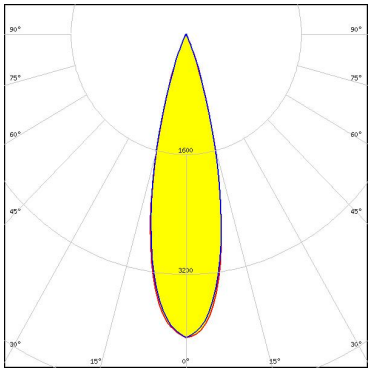
LED	LUXEON M/MX
FWHM / FWTM	25.0° / 46.0°
Efficiency	86 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



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:	

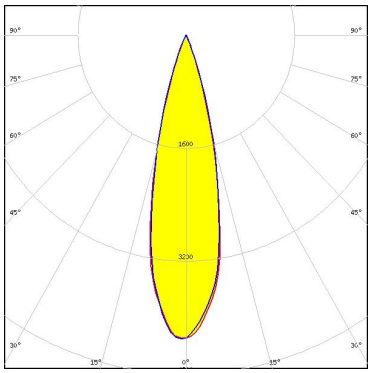


Light distribution files

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:	





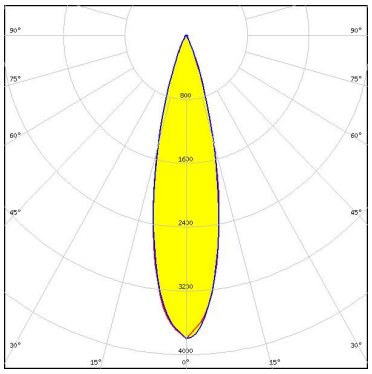
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

NICHIA

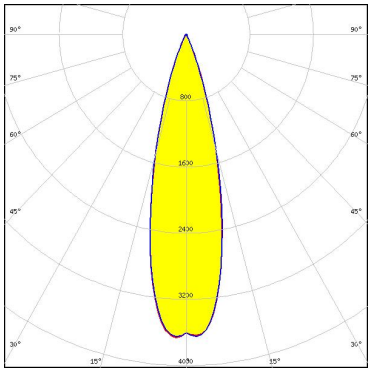
LED	NV4x144A
FWHM / FWTM	26.0° / 44.0°
Efficiency	86 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

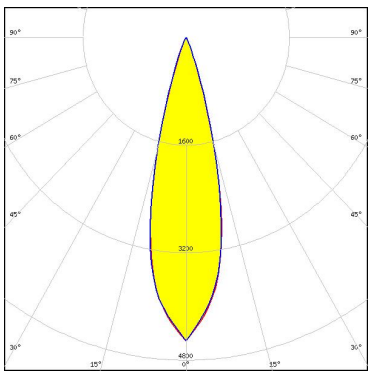
LED	Duris S8
FWHM / FWTM	27.0° / 45.0°
Efficiency	87 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



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:	



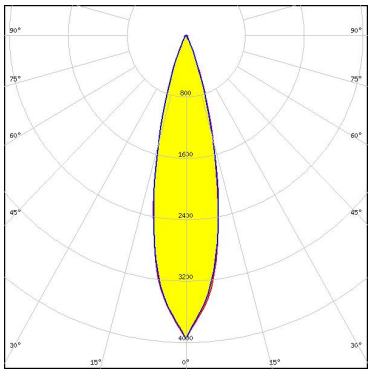
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

SAMSUNG

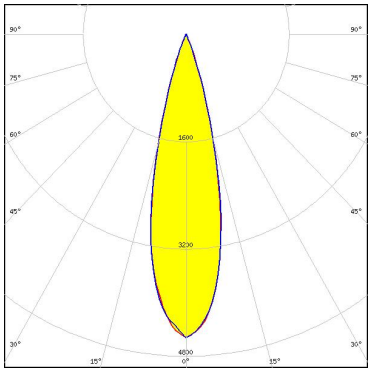
LED	LH502D
FWHM / FWTM	25.0° / 44.0°
Efficiency	88 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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

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

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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy
Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.
228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.
405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support
www.ledil.com/
where_to_buy

Shipping locations
Poznan, Poland
Hong Kong, China

Distribution Partners
www.ledil.com/
where_to_buy

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