MIRELLA-50-M-PIN

~30° medium beam

SPECIFICATION:

Dimensions	Ø 49.9 mm
Height	23.9 mm
Fastening	pin
ROHS compliant	yes

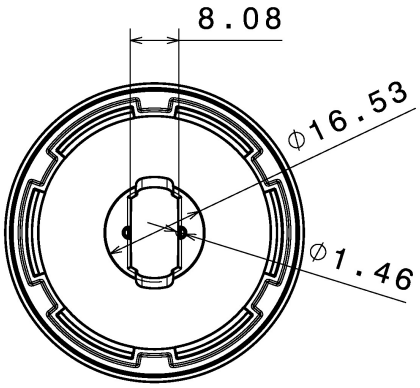
MATERIALS:

Component	Type	Material	Colour	Finish	Coating
MIRELLA-50-M-PIN	Reflector	PC	metal		lacquer

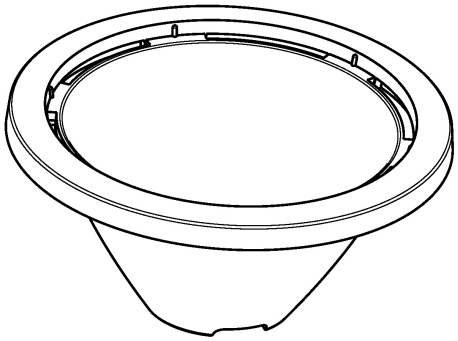
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12481_MIRELLA-50-M-PIN » Box size: 480 x 280 x 300 mm	336	112	28	3.1

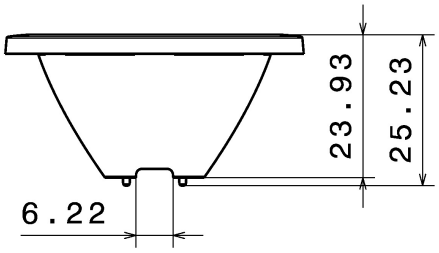
DATE
21.02.2019



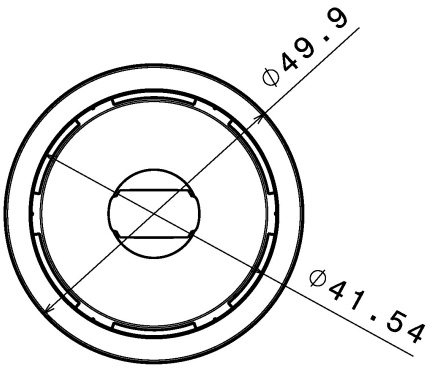
Bottom view



Isometric view
Scale: 3:2



Front view



Top view

PART	TYPE	MATERIAL	COLOR / COATING
C12481_MIRELLA-50-M-PIN		PC	metal

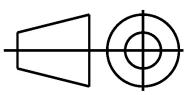
MECHANICAL DRAWING

PRODUCT MIRELLA

LEDiL®

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:



SCALE 1:1 | WEIGHT - | A4 SHEET 1/1

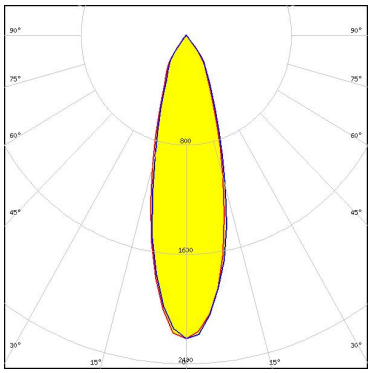
See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

bridgelux

LED	SM4
FWHM / FWTM	29.0° / 68.0°
Efficiency	80 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

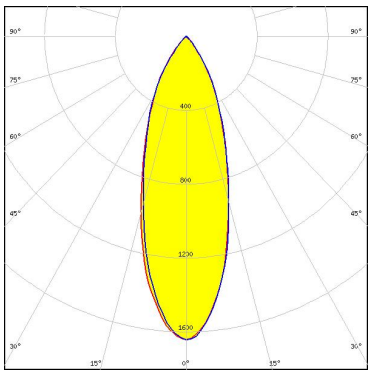
Required components:
C13333_MIRELLA-CL



bridgelux

LED	SM4
FWHM / FWTM	35.0° / 73.0°
Efficiency	78 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12479_MIRELLA-DL



CREE LEDs

LED	MHB-A/B
FWHM / FWTM	34.0° / 78.0°
Efficiency	83 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL

CREE LEDs

LED	MHB-A/B
FWHM / FWTM	28.0° / 80.0°
Efficiency	88 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

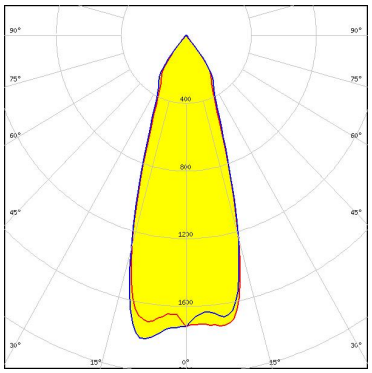
Required components:

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	MHB-A/B
FWHM / FWTM	35.0° / 76.0°
Efficiency	83 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

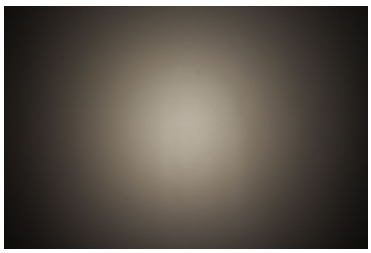
Required components:
C12479_MIRELLA-DL

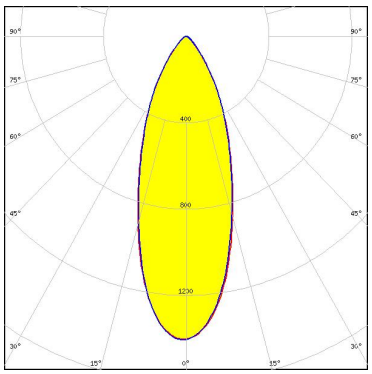


CREE LEDs

LED	XHP50
FWHM / FWTM	37.0° / 78.0°
Efficiency	83 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13723_MIRELLA-RZL

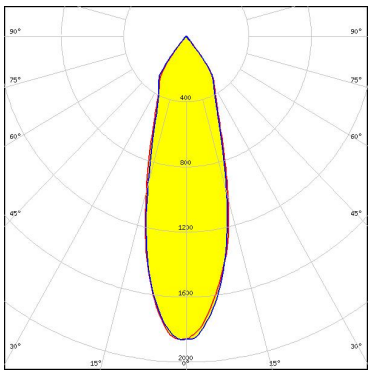




CREE LEDs

LED	XHP50
FWHM / FWTM	32.0° / 76.0°
Efficiency	85 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

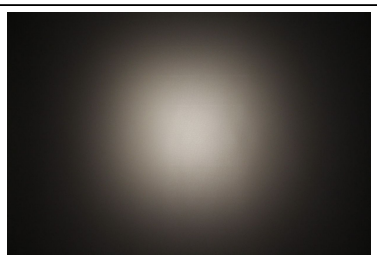
Required components:
C13333_MIRELLA-CL

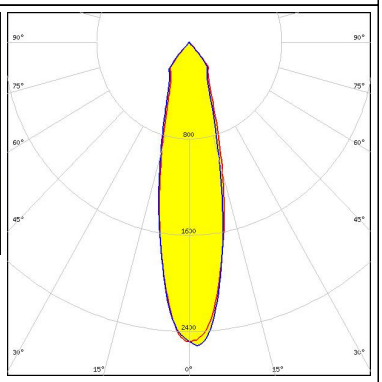


CREE LEDs

LED	XHP50
FWHM / FWTM	25.0° / 77.0°
Efficiency	90 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



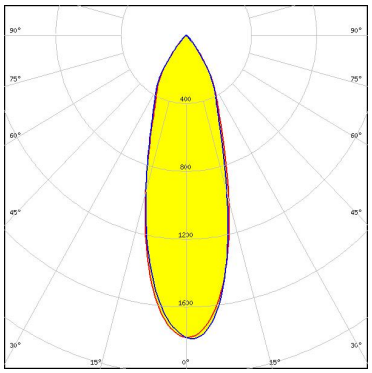


OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XHP50
FWHM / FWTM	32.0° / 74.0°
Efficiency	86 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

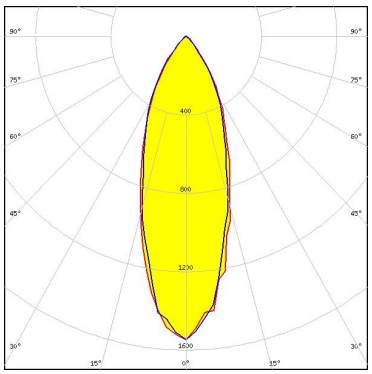
Required components:
C12479_MIRELLA-DL



CREE LEDs

LED	XM-L
FWHM / FWTM	35.0° / 76.0°
Efficiency	80 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

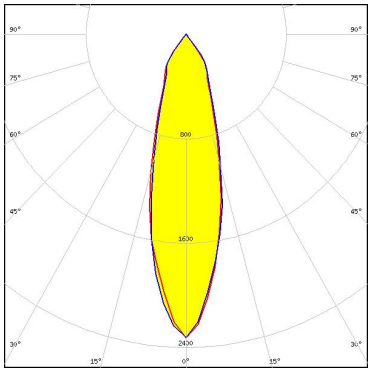
Required components:
C12479_MIRELLA-DL



CREE LEDs

LED	XM-L
FWHM / FWTM	28.0° / 72.0°
Efficiency	84 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

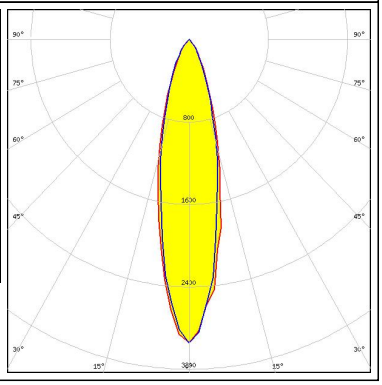
Required components:
C13333_MIRELLA-CL



CREE LEDs

LED	XM-L
FWHM / FWTM	24.0° / 56.0°
Efficiency	89 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

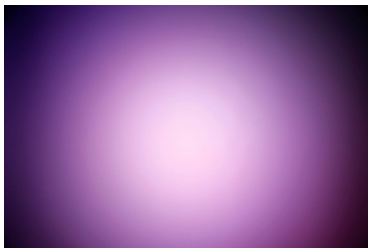


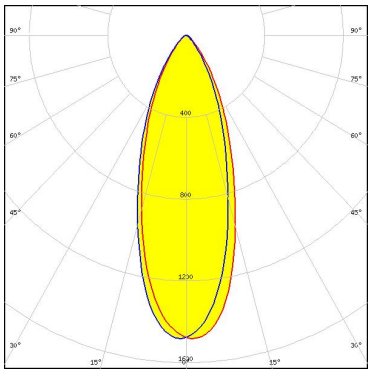
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XM-L RGBW (XMLCTW)
FWHM / FWTM	37.0° / 76.0°
Efficiency	83 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13723_MIRELLA-RZL

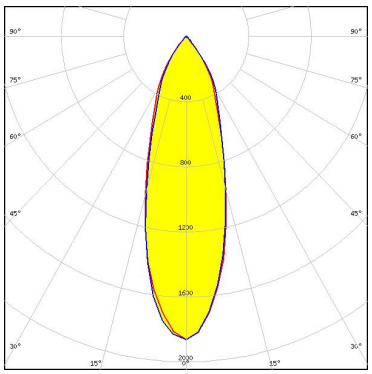




CREE LEDs

LED	XM-L2
FWHM / FWTM	33.0° / 74.0°
Efficiency	82 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

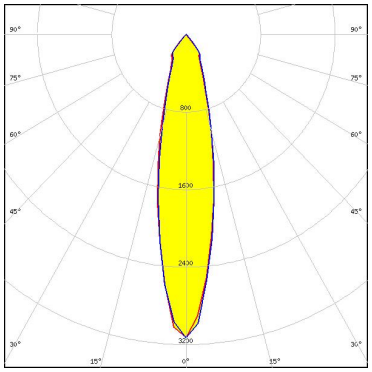
Required components:
C12479_MIRELLA-DL



CREE LEDs

LED	XM-L2
FWHM / FWTM	22.0° / 58.0°
Efficiency	91 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White

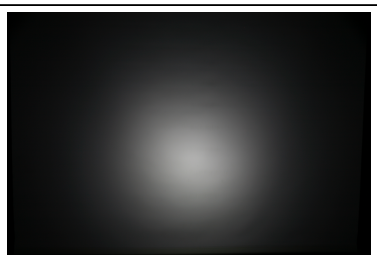
Required components:

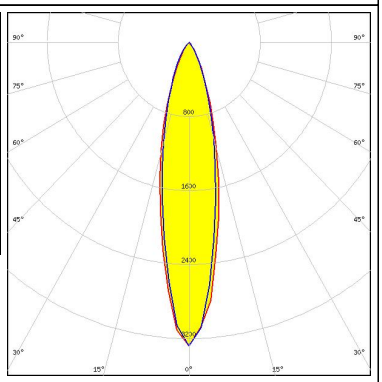


CREE LEDs

LED	XP-G
FWHM / FWTM	24.0° / 53.0°
Efficiency	86 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



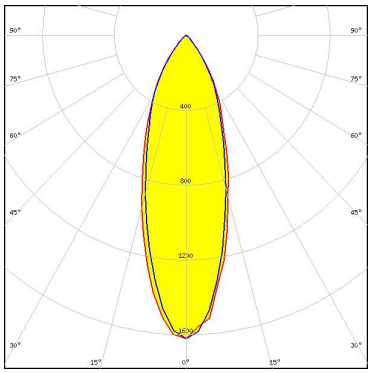


OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-G
FWHM / FWTM	34.0° / 74.0°
Efficiency	81 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

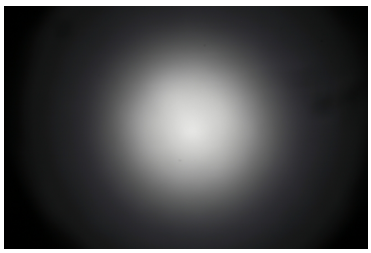
Required components:
C12479_MIRELLA-DL

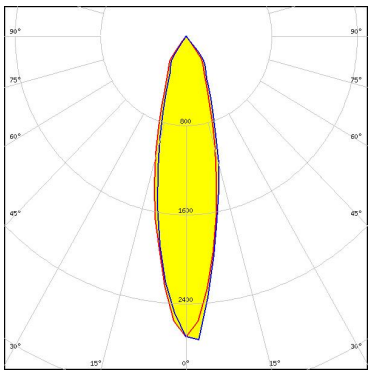


CREE LEDs

LED	XP-G
FWHM / FWTM	24.0° / 68.0°
Efficiency	83 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL





CREE LEDs

LED	XP-G2
FWHM / FWTM	30.0° / 74.0°
Efficiency	83 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12479_MIRELLA-DL

CREE LEDs

LED	XP-G2
FWHM / FWTM	22.0° / 76.0°
Efficiency	88 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White

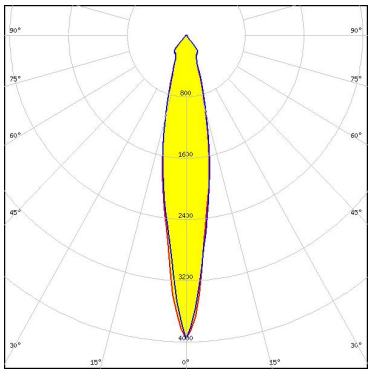
Required components:

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-L HI
FWHM / FWTM	17.0° / 48.0°
Efficiency	88 %
Peak intensity	4.5 cd/lm
LEDs/each optic	1
Light colour	White

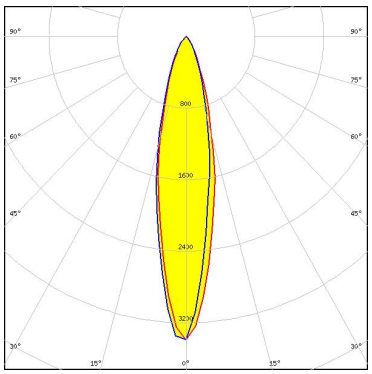
Required components:



CREE LEDs

LED	XT-E
FWHM / FWTM	23.0° / 51.0°
Efficiency	85 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

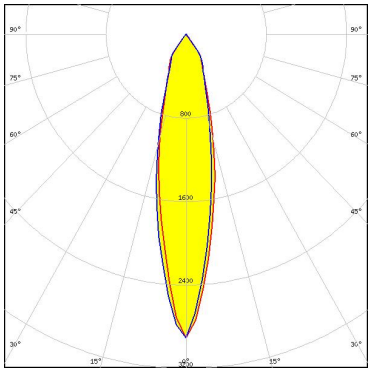


CREE LEDs

LED	XT-E
FWHM / FWTM	22.0° / 64.0°
Efficiency	81 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13333_MIRELLA-CL

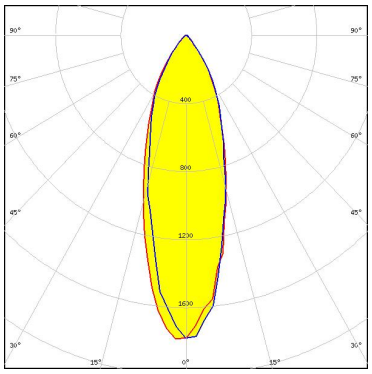


CREE LEDs

LED	XT-E
FWHM / FWTM	32.0° / 73.0°
Efficiency	78 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL

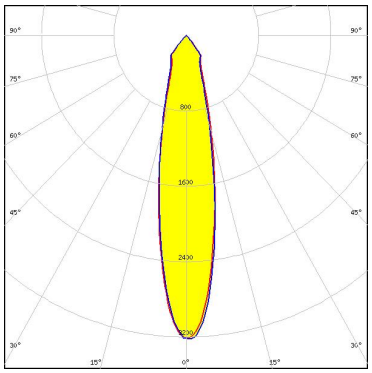


OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	22.0° / 59.0°
Efficiency	90 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

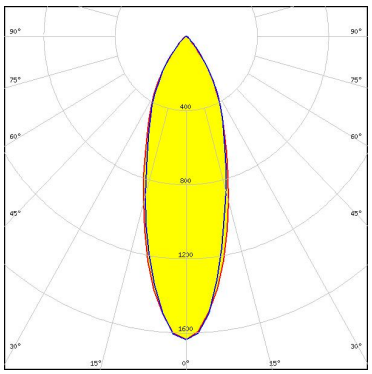


LUMILEDS

LED	LUXEON A
FWHM / FWTM	34.0° / 75.0°
Efficiency	80 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

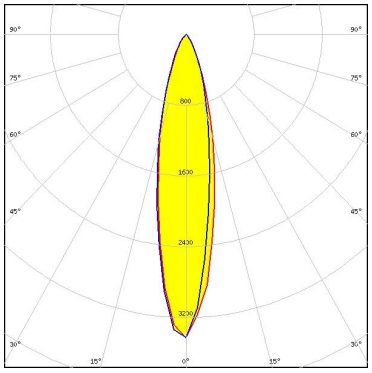
C12479_MIRELLA-DL



LUMILEDS

LED	LUXEON A
FWHM / FWTM	22.0° / 52.0°
Efficiency	87 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

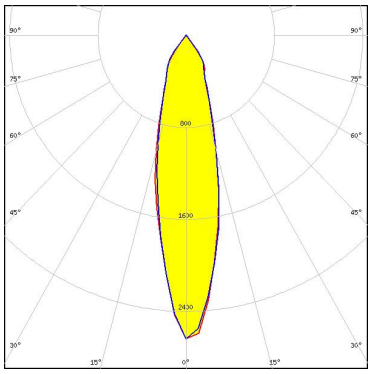


LUMILEDS

LED	LUXEON A
FWHM / FWTM	24.0° / 69.0°
Efficiency	84 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13333_MIRELLA-CL

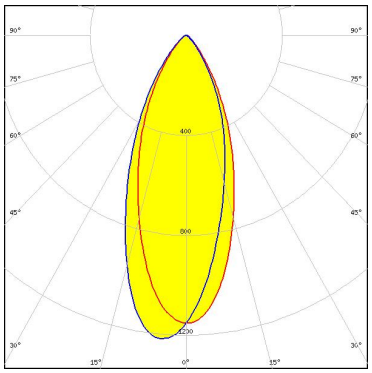


OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON C
FWHM / FWTM	39.0° / 79.0°
Efficiency	74 %
Peak intensity	1.2 cd/lm
LEDs/each optic	4
Light colour	RGBW

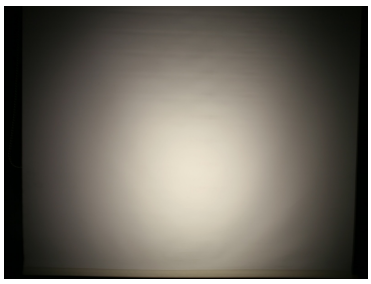
Required components:
C13723_MIRELLA-RZL

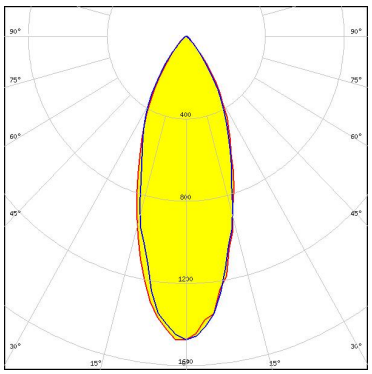


LUMILEDS

LED	LUXEON M/MX
FWHM / FWTM	38.0° / 78.0°
Efficiency	81 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12479_MIRELLA-DL

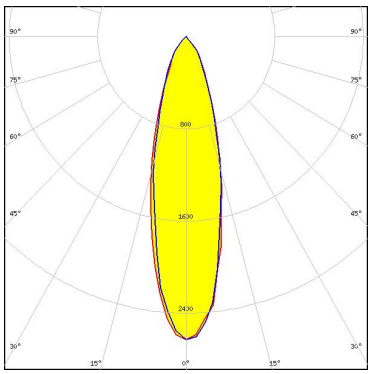




LUMILEDS

LED	LUXEON M/MX
FWHM / FWTM	24.0° / 63.0°
Efficiency	87 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

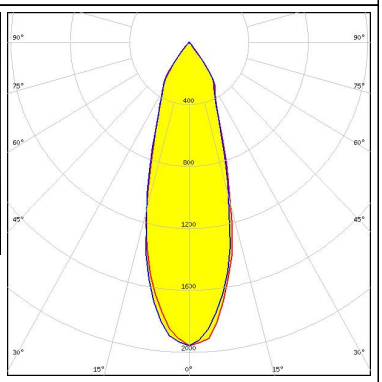
Required components:



LUMILEDS

LED	LUXEON M/MX
FWHM / FWTM	33.0° / 74.0°
Efficiency	84 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL

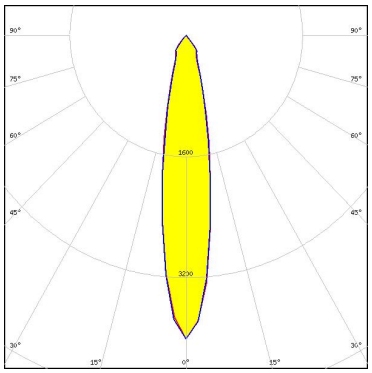


OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON MZ
FWHM / FWTM	20.0° / 47.0°
Efficiency	88 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

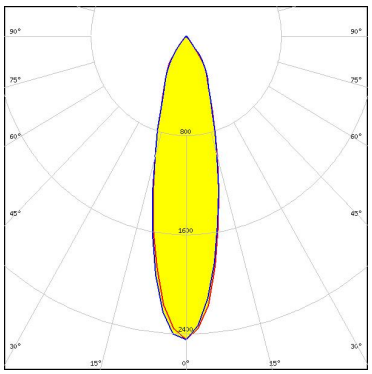


LUMILEDS

LED	LUXEON MZ
FWHM / FWTM	27.0° / 69.0°
Efficiency	84 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL

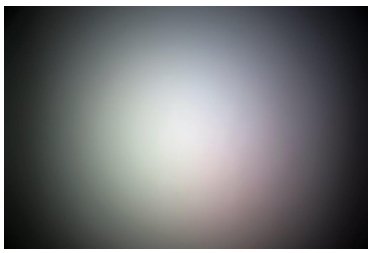


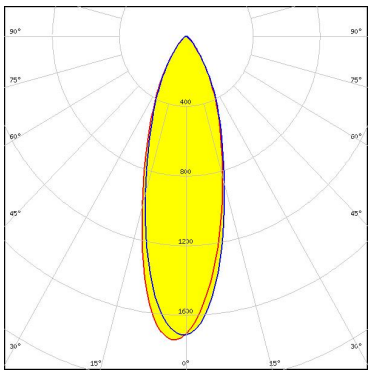
LUMILEDS

LED	LUXEON Z
FWHM / FWTM	31.0° / 71.0°
Efficiency	83 %
Peak intensity	1.7 cd/lm
LEDs/each optic	4
Light colour	RGBW

Required components:

C13723_MIRELLA-RZL



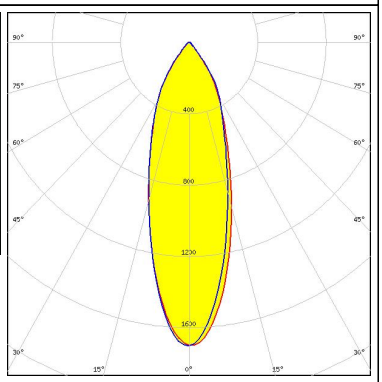


NICHIA

LED	NS9x383
FWHM / FWTM	32.0° / 74.0°
Efficiency	83 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL

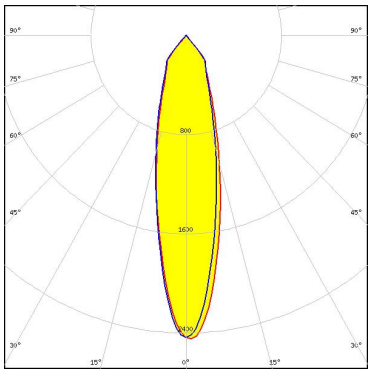


OPTICAL RESULTS (MEASURED):

NICHIA

LED	NS9x383
FWHM / FWTM	24.0° / 78.0°
Efficiency	88 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

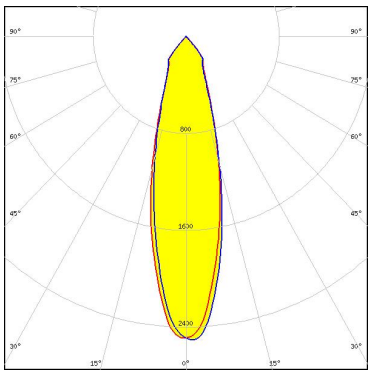
Required components:



NICHIA

LED	NV4x144A
FWHM / FWTM	27.0° / 73.0°
Efficiency	89 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

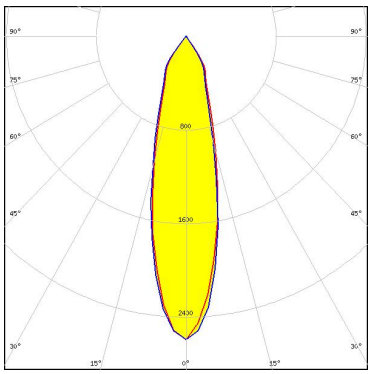


OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	26.0° / 70.0°
Efficiency	84 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13333_MIRELLA-CL

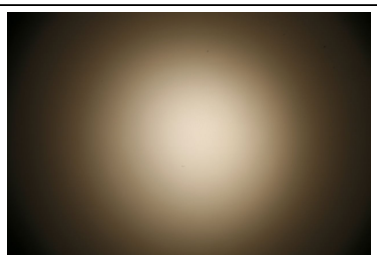


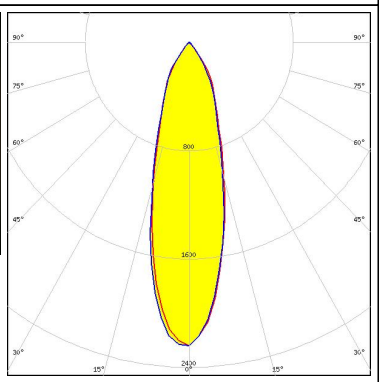
OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	28.0° / 69.0°
Efficiency	84 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL



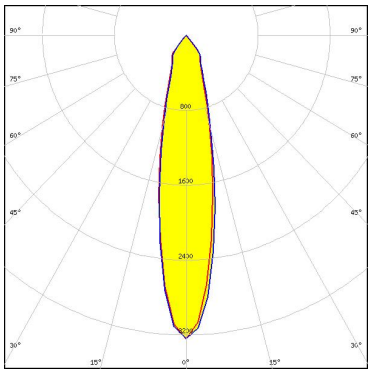


OPTICAL RESULTS (MEASURED):

OSRAM Opto Semiconductors

LED	Duris S8
FWHM / FWTM	22.0° / 58.0°
Efficiency	88 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

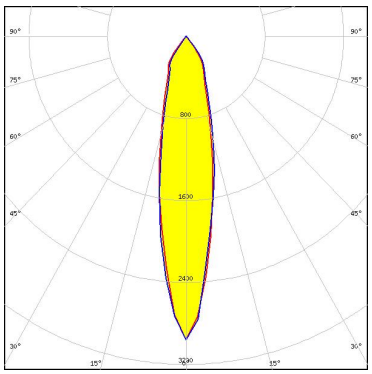


OSRAM Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	22.0° / 67.0°
Efficiency	83 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

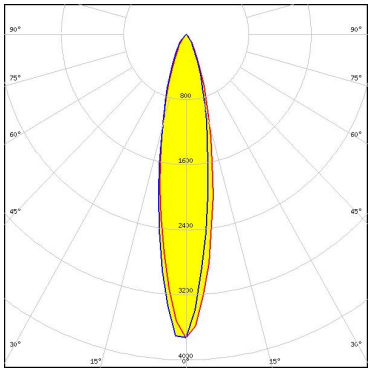
C13333_MIRELLA-CL



OSRAM Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	22.0° / 49.0°
Efficiency	84 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

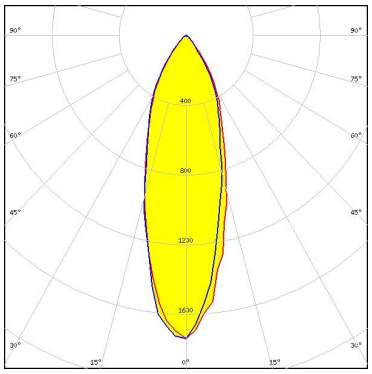


OSRAM Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	32.0° / 75.0°
Efficiency	79 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL

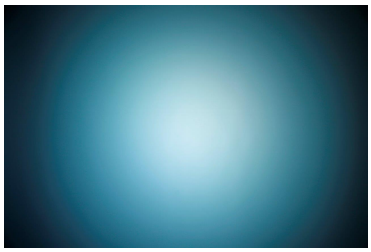


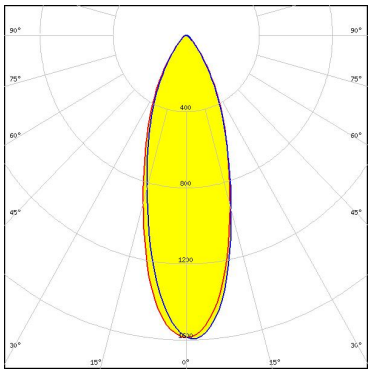
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Ostar-SMT RGB
FWHM / FWTM	34.0° / 74.0°
Efficiency	83 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13723_MIRELLA-RZL

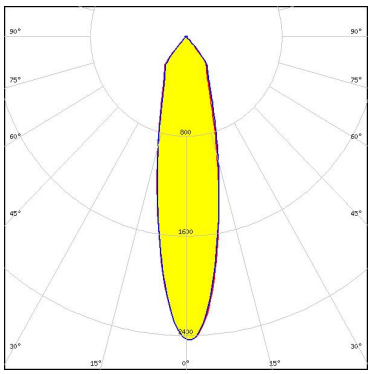




SAMSUNG

LED	LH508A
FWHM / FWTM	24.0° / 78.0°
Efficiency	88 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



SEOUL SEMICONDUCTOR

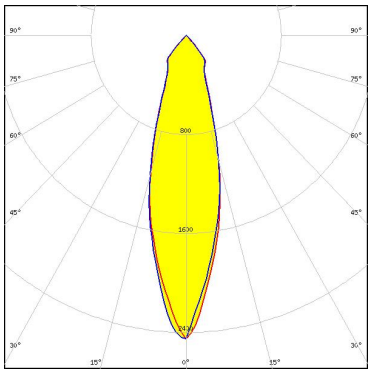
LED	F50360 (RGB)
FWHM / FWTM	33.0° / 76.0°
Efficiency	82 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13723_MIRELLA-RZL

OPTICAL RESULTS (SIMULATED):

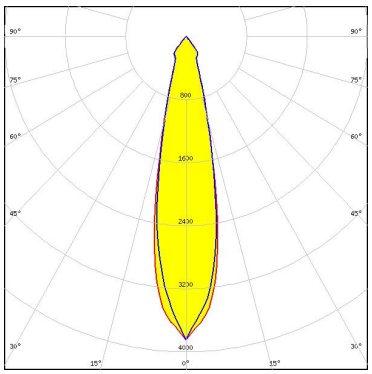
CREE LEDs

LED	XHP35 HD
FWHM / FWTM	28.0° / 77.0°
Efficiency	92 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



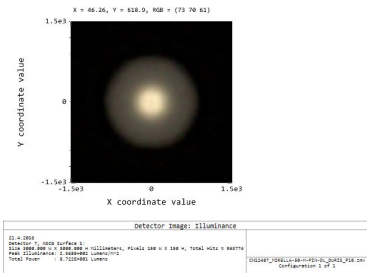
LUMILEDS

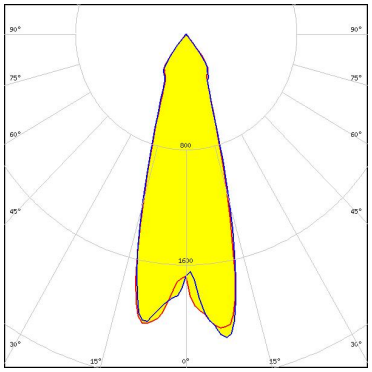
LED	LUXEON 5258
FWHM / FWTM	23.0° / 45.0°
Efficiency	91 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

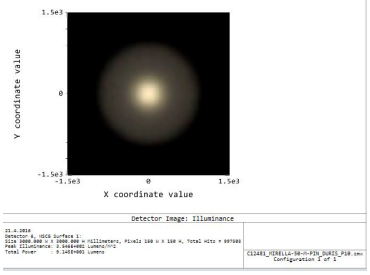
LED	OSCONIQ P 7070
FWHM / FWTM	31.0° / 72.0°
Efficiency	88 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C12479_MIRELLA-DL	

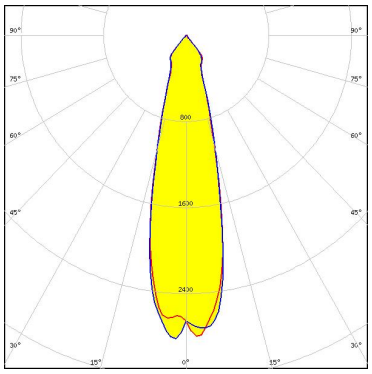




OSRAM
Opto Semiconductors

LED	OSCONIQ P 7070
FWHM / FWTM	26.0° / 63.0°
Efficiency	91 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

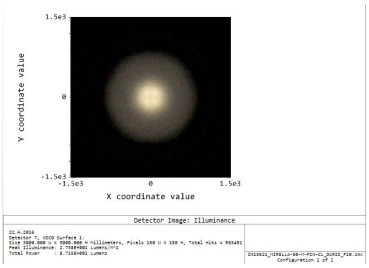


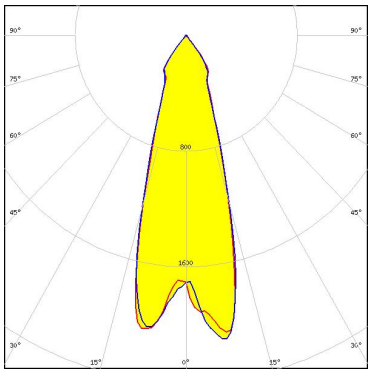


OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

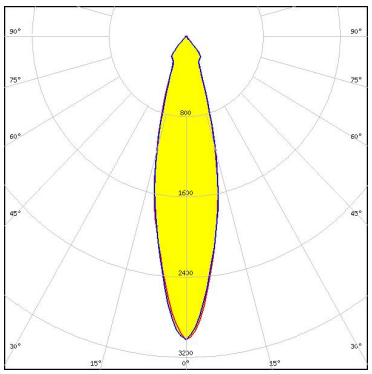
LED	OSCONIQ P 7070
FWHM / FWTM	29.0° / 70.0°
Efficiency	87 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13333_MIRELLA-CL	





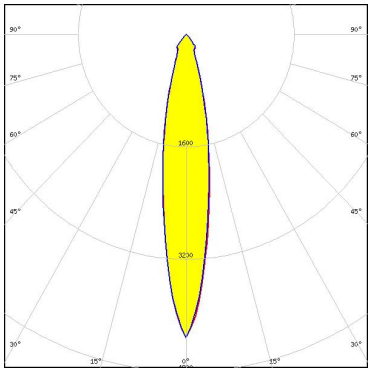
SAMSUNG

LED	LH351D
FWHM / FWTM	26.0° / 54.0°
Efficiency	90 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	19.0° / 44.0°
Efficiency	89 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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
Salo, Finland
Hong Kong, China

Distribution Partners
www.ledil.com/
where_to_buy