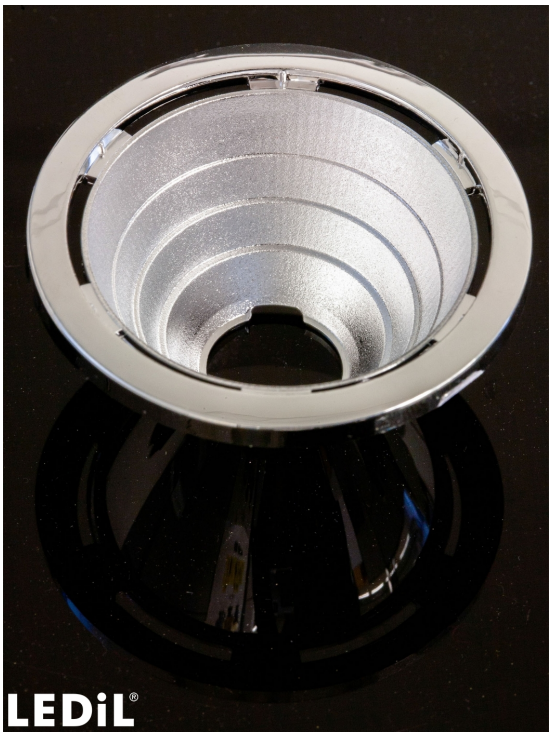
MIRELLA-50-M

~30° medium beam



SPECIFICATION:

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

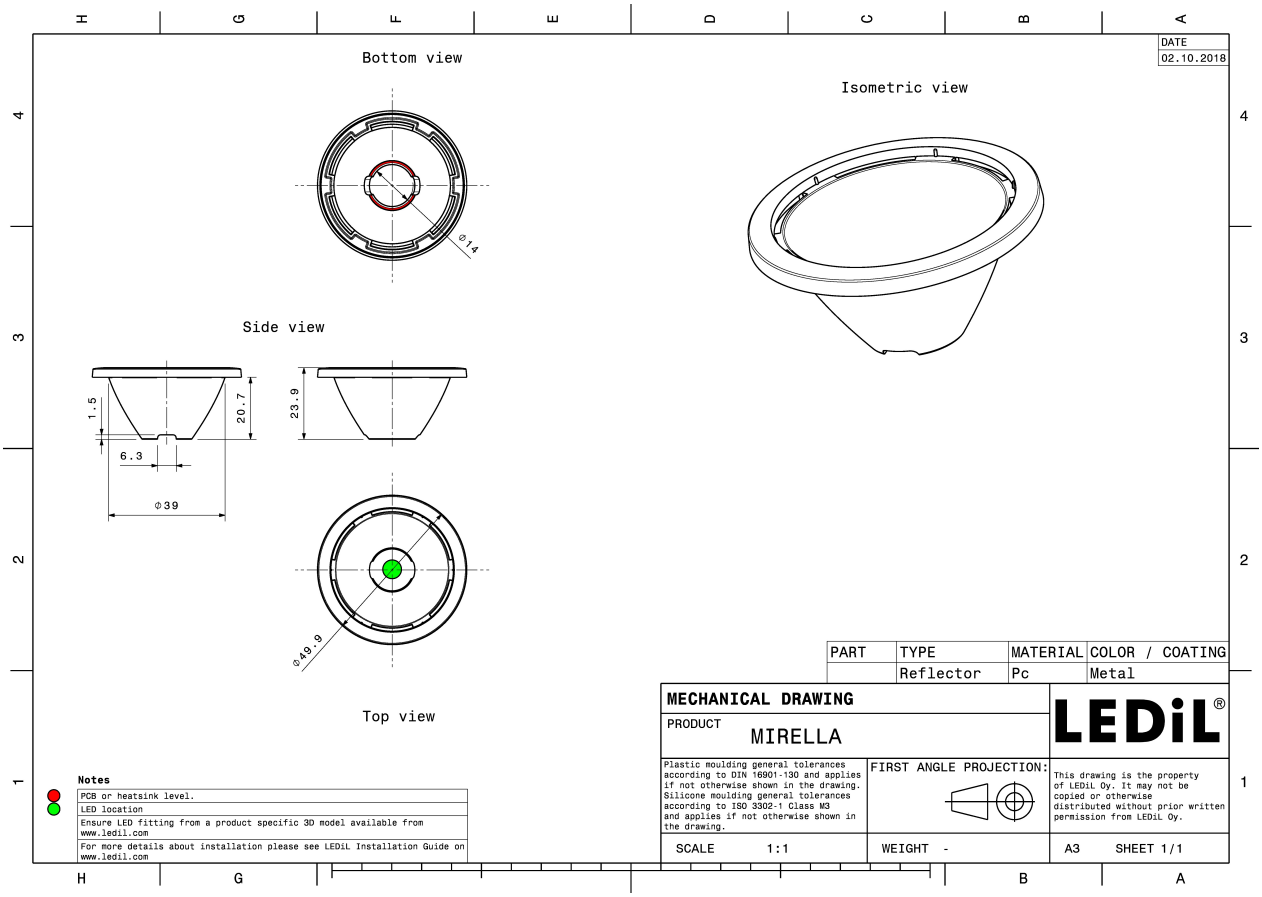
MATERIALS:

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

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12477_MIRELLA-50-M » Box size: 480 x 280 x 300 mm	336	112	28	2.8

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



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

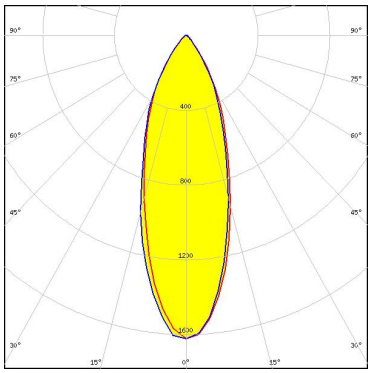
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

bridgelux

LED	BXRA LS
FWHM / FWTM	35.0° / 73.0°
Efficiency	83 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12479_MIRELLA-DL



bridgelux

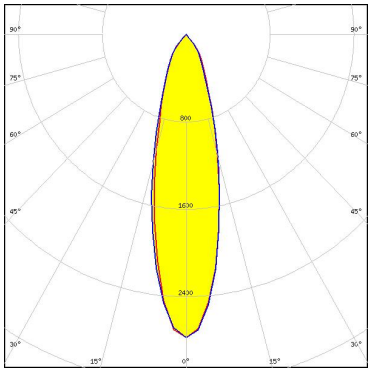
LED	BXRA LS
FWHM / FWTM	27.0° / 69.0°
Efficiency	84 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL

bridgelux

LED	BXRA LS
FWHM / FWTM	27.0° / 64.0°
Efficiency	89 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



CITIZEN

LED	CLL01x
FWHM / FWTM	35.0° / 76.0°
Efficiency	83 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL

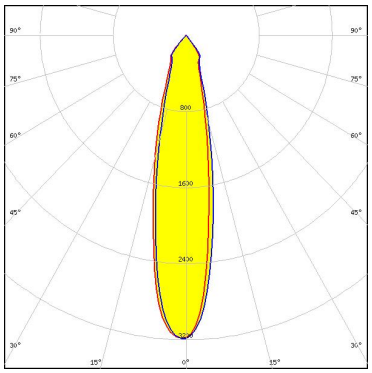
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLL01x
FWHM / FWTM	29.0° / 77.0°
Efficiency	%
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



CITIZEN

LED	CLL01x
FWHM / FWTM	39.0° / 77.0°
Efficiency	%
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	30.0° / 71.0°
Efficiency	84 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

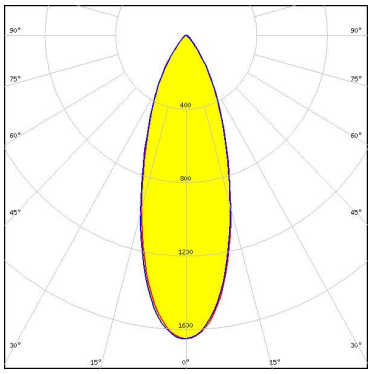
C13333_MIRELLA-CL

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	35.0° / 73.0°
Efficiency	82 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL



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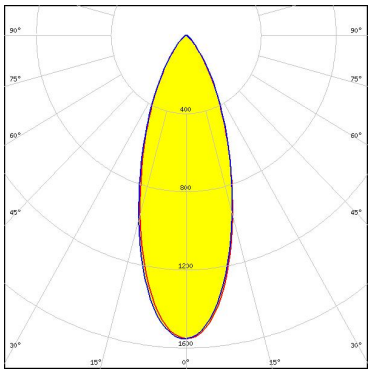
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	37.0° / 75.0°
Efficiency	82 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

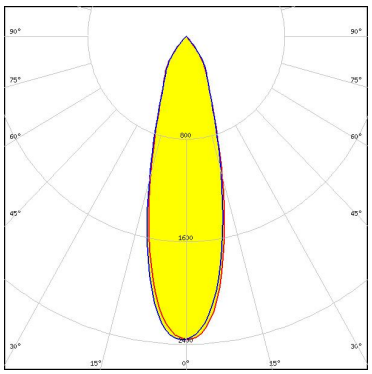
C13723_MIRELLA-RZL



CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	30.0° / 71.0°
Efficiency	88 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

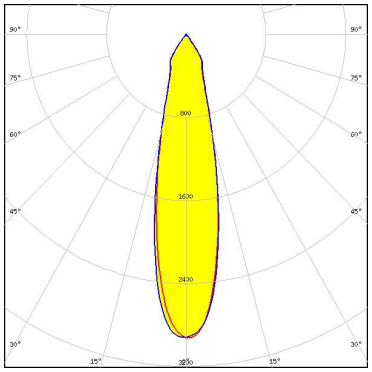


CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	24.0° / 64.0°
Efficiency	83 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13333_MIRELLA-CL

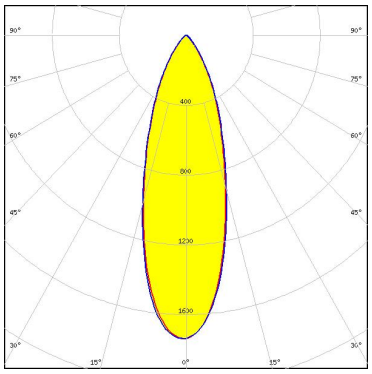


CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	33.0° / 70.0°
Efficiency	82 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13723_MIRELLA-RZL



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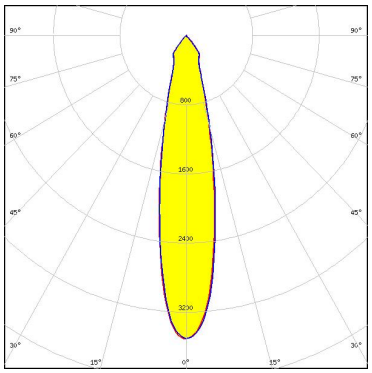
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	22.0° / 51.0°
Efficiency	90 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

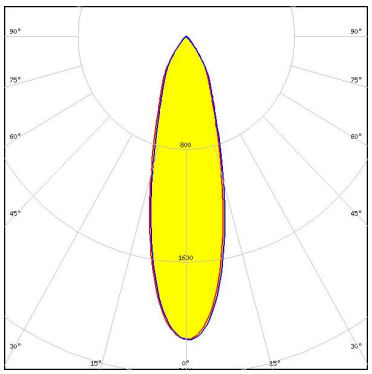


CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	29.0° / 69.0°
Efficiency	84 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL

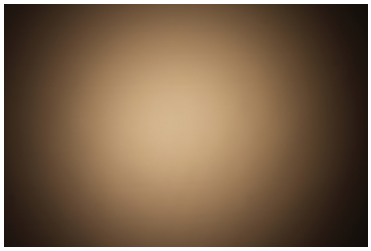


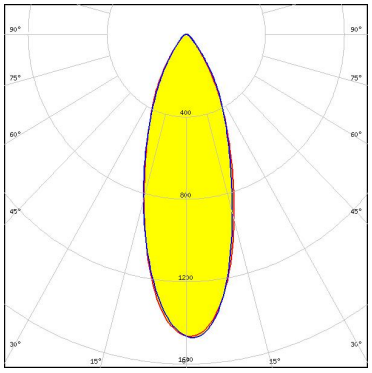
CITIZEN

LED	CLU710/711
FWHM / FWTM	35.0° / 74.0°
Efficiency	81 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL

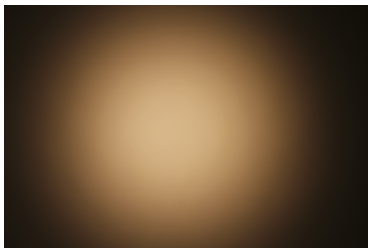


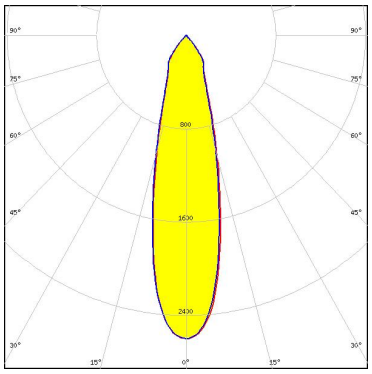


CITIZEN

LED	CLU710/711
FWHM / FWTM	26.0° / 70.0°
Efficiency	90 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:





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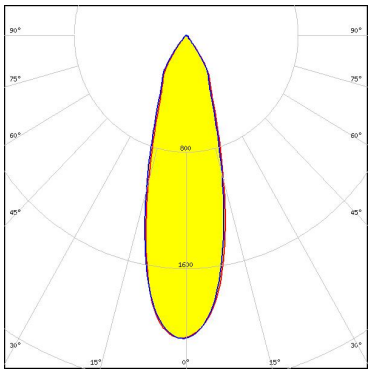
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU710/711
FWHM / FWTM	30.0° / 70.0°
Efficiency	85 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13333_MIRELLA-CL

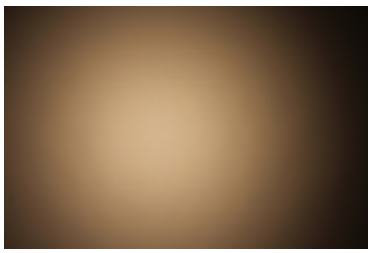


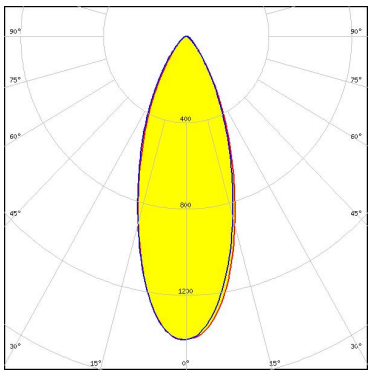
CITIZEN

LED	CLU710/711
FWHM / FWTM	38.0° / 76.0°
Efficiency	83 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13723_MIRELLA-RZL

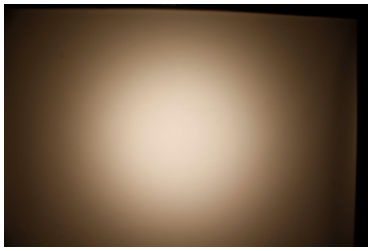


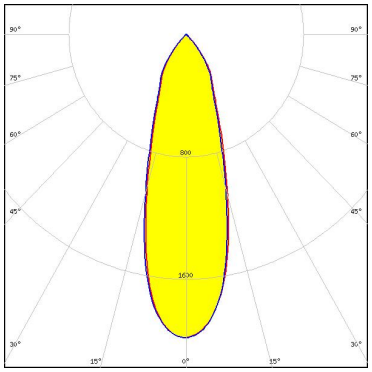


CITIZEN

LED	CLU720/721/723
FWHM / FWTM	31.0° / 75.0°
Efficiency	90 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



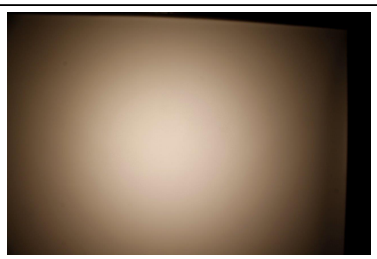


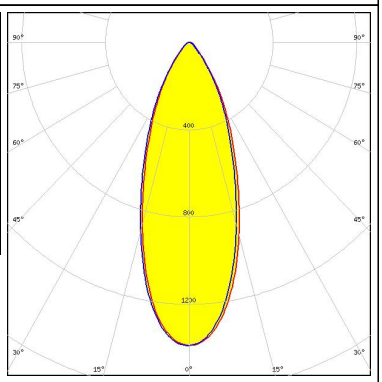
CITIZEN

LED	CLU720/721/723
FWHM / FWTM	38.0° / 76.0°
Efficiency	82 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL





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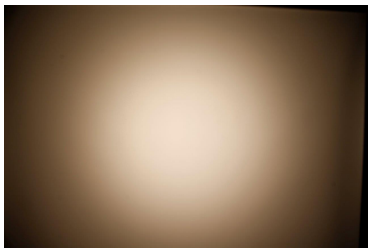
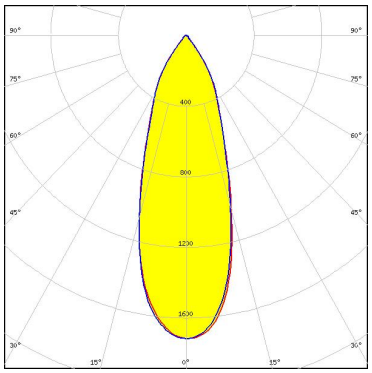
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU720/721/723
FWHM / FWTM	35.0° / 73.0°
Efficiency	85 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL

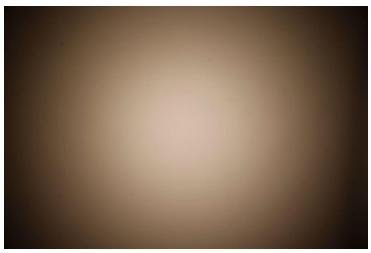


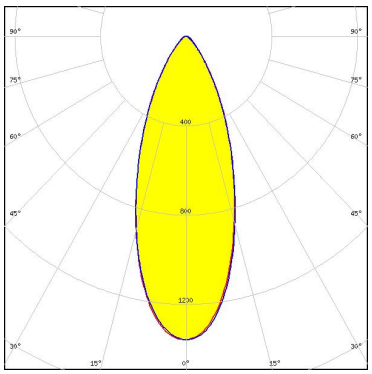


CITIZEN

LED	CLU720/721/723
FWHM / FWTM	39.0° / 77.0°
Efficiency	83 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13723_MIRELLA-RZL





CREE LEDs

LED	CXA/B 13xx
FWHM / FWTM	23.0° / 68.0°
Efficiency	81 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL

CREE LEDs

LED	CXA/B 13xx
FWHM / FWTM	20.0° / 55.0°
Efficiency	85 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

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OPTICAL RESULTS (MEASURED):

CREE LEDs

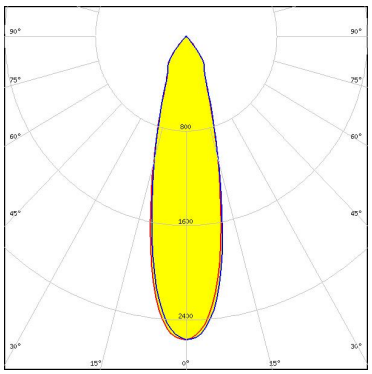
LED	CXA/B 13xx
FWHM / FWTM	26.0° / 67.0°
Efficiency	80 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12479_MIRELLA-DL

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	28.0° / 72.0°
Efficiency	92 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

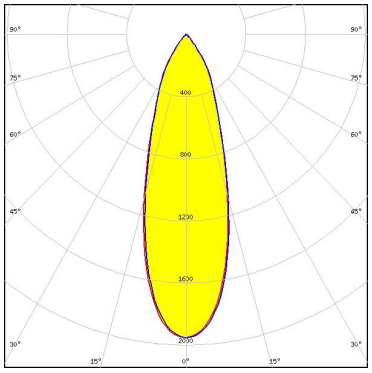
Required components:



CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	34.0° / 72.0°
Efficiency	89 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12479_MIRELLA-DL



CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	30.0° / 71.0°
Efficiency	83 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL

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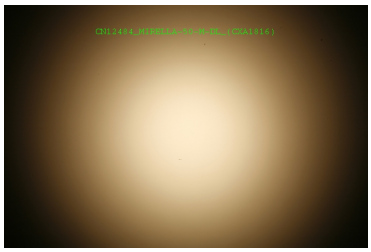
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	39.0° / 76.0°
Efficiency	83 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12479_MIRELLA-DL



CREE LEDs

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	37.0° / 76.0°
Efficiency	82 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL

CREE LEDs

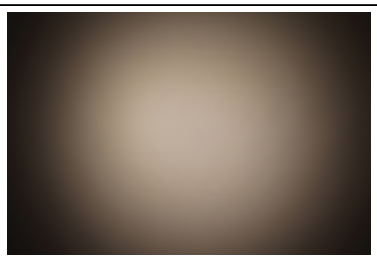
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	34.0° / 78.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

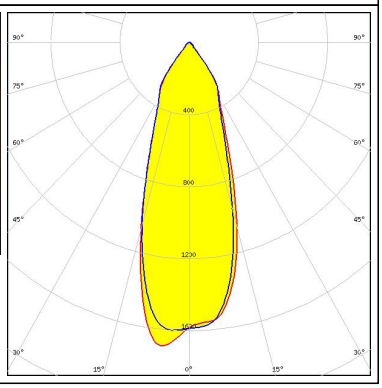
Required components:

CREE LEDs

LED	MHD-E/G
FWHM / FWTM	35.0° / 76.0°
Efficiency	88 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL





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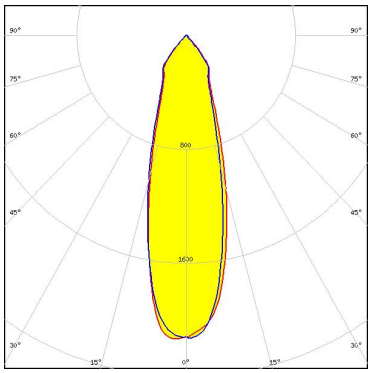
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	MHD-E/G
FWHM / FWTM	30.0° / 79.0°
Efficiency	93 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

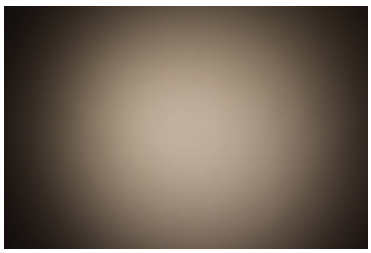


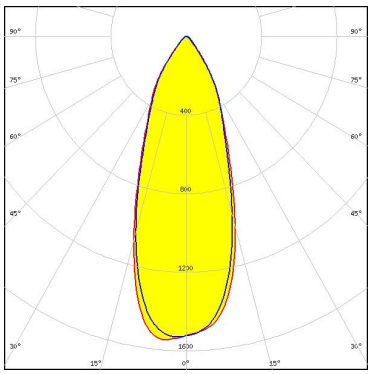
CREE LEDs

LED	MHD-E/G
FWHM / FWTM	37.0° / 76.0°
Efficiency	88 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL

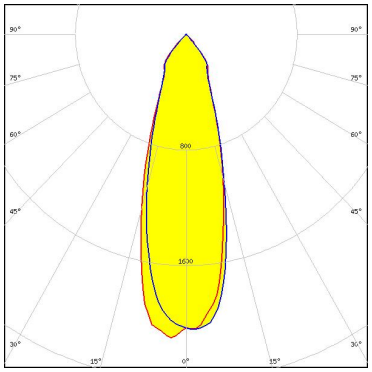




CREE LEDs

LED	MT-G
FWHM / FWTM	31.0° / 78.5°
Efficiency	91 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

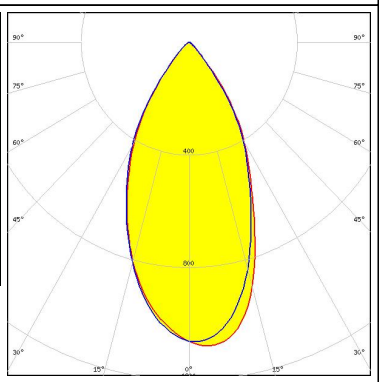


CREE LEDs

LED	MT-G2
FWHM / FWTM	38.0° / 77.0°
Efficiency	83 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL

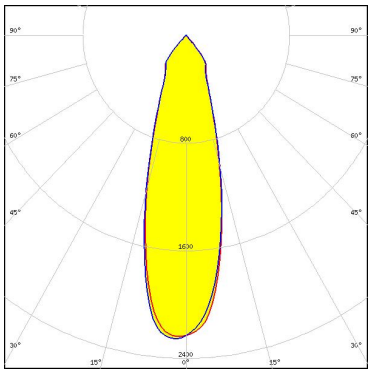


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	MT-G2
FWHM / FWTM	30.0° / 78.0°
Efficiency	90 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

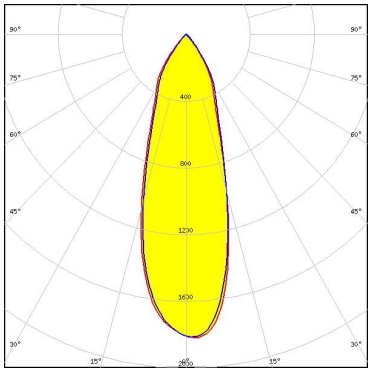


CREE LEDs

LED	MT-G2
FWHM / FWTM	35.0° / 77.0°
Efficiency	85 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13333_MIRELLA-CL	

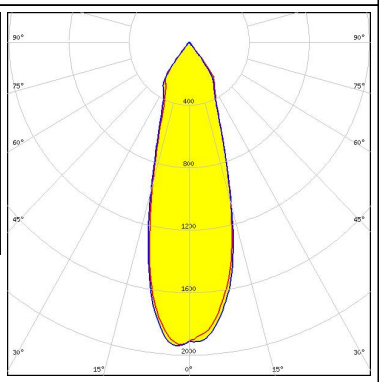
CREE LEDs

LED	XHP50
FWHM / FWTM	33.0° / 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	XHP50
FWHM / FWTM	31.0° / 75.0°
Efficiency	86 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13333_MIRELLA-CL	



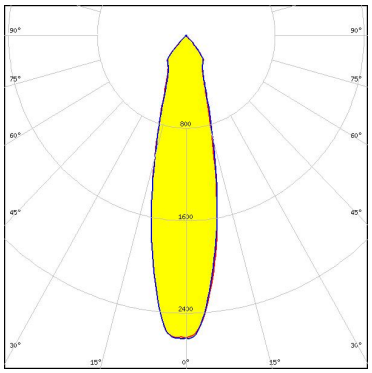
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XHP50
FWHM / FWTM	25.0° / 76.0°
Efficiency	91 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

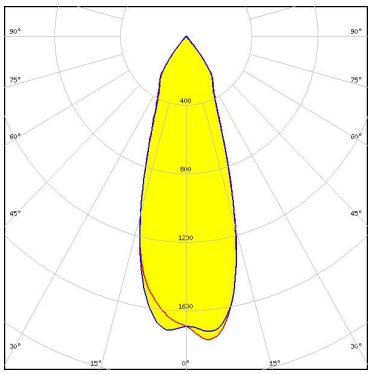


CREE LEDs

LED	XHP70
FWHM / FWTM	35.0° / 76.0°
Efficiency	86 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

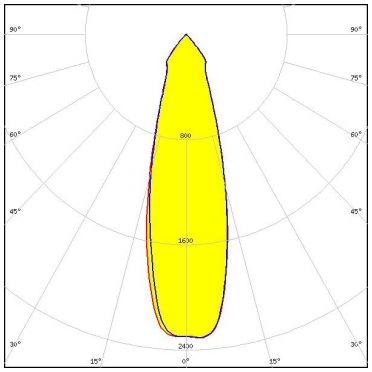
C13333_MIRELLA-CL



CREE LEDs

LED	XHP70
FWHM / FWTM	30.0° / 77.0°
Efficiency	91 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

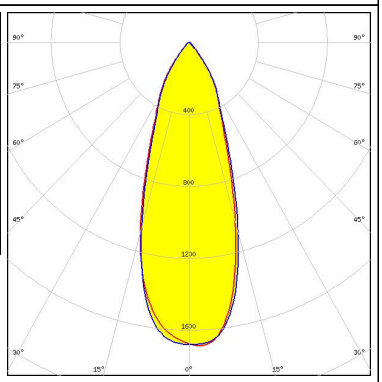


CREE LEDs

LED	XHP70
FWHM / FWTM	36.0° / 74.0°
Efficiency	87 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL



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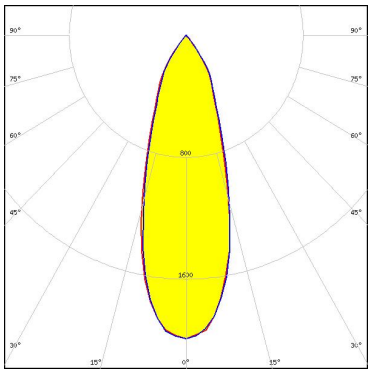
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	33.0° / 72.0°
Efficiency	85 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

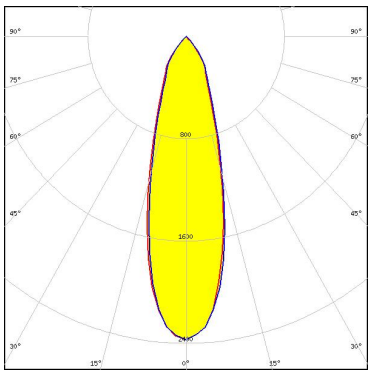
C13333_MIRELLA-CL



LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	29.0° / 72.0°
Efficiency	89 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

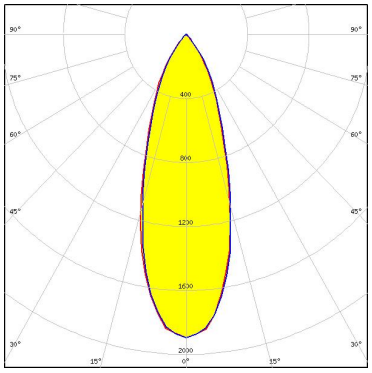


LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	35.0° / 71.0°
Efficiency	85 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL



LUMILEDS

LED	LUXEON S1000
FWHM / FWTM	22.0° / 64.0°
Efficiency	83 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13333_MIRELLA-CL

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OPTICAL RESULTS (MEASURED):

LUMILEDS

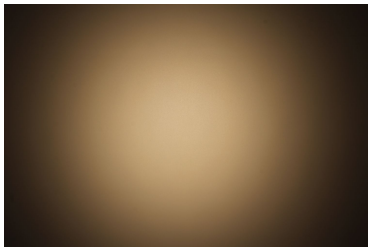
LED	LUXEON S1000
FWHM / FWTM	22.0° / 66.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	

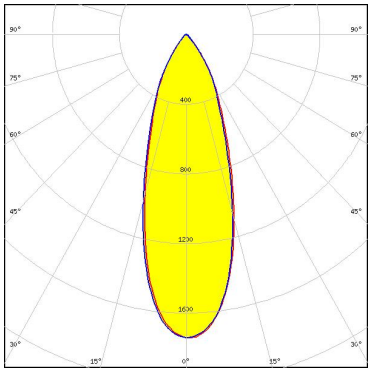
LUMILEDS

LED	LUXEON S1000
FWHM / FWTM	28.0° / 68.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	
C12479_MIRELLA-DL	

LUMINUS

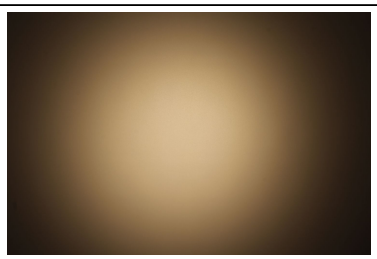
LED	CxM-9 (13.5x13.5)
FWHM / FWTM	34.0° / 72.0°
Efficiency	85 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C12479_MIRELLA-DL	

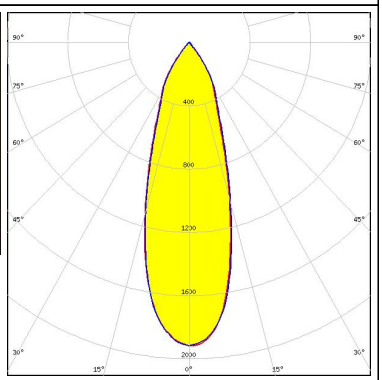




LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	33.0° / 72.0°
Efficiency	85 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13333_MIRELLA-CL	





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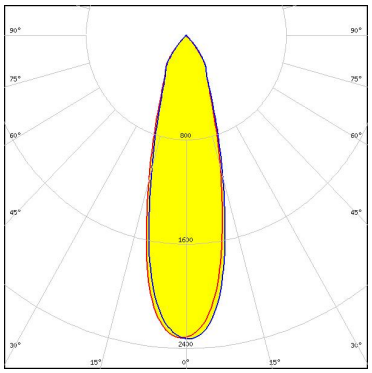
OPTICAL RESULTS (MEASURED):

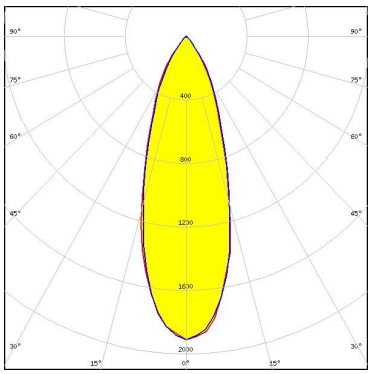
LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	29.0° / 73.0°
Efficiency	90 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



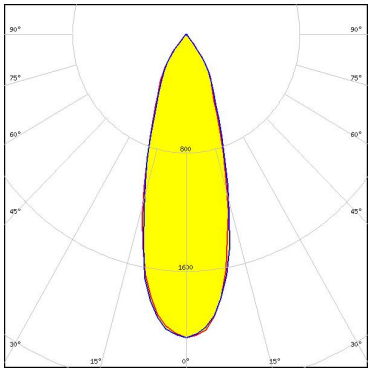
NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	34.0° / 71.0°
Efficiency	84 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C12479_MIRELLA-DL	



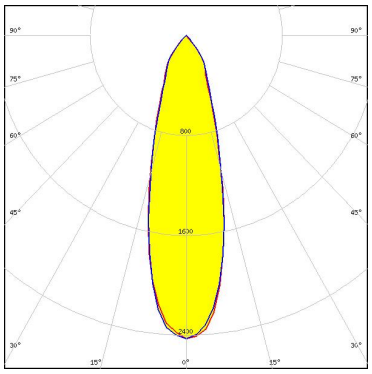
NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	33.0° / 71.0°
Efficiency	86 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13333_MIRELLA-CL	



NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	29.0° / 72.0°
Efficiency	90 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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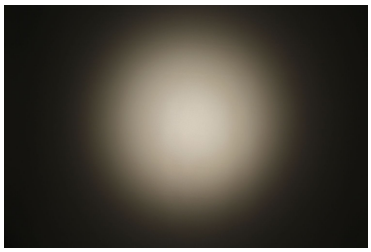
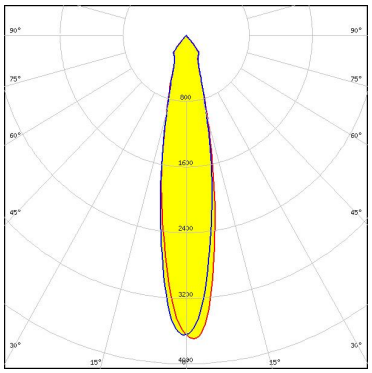
OPTICAL RESULTS (MEASURED):

NICHIA

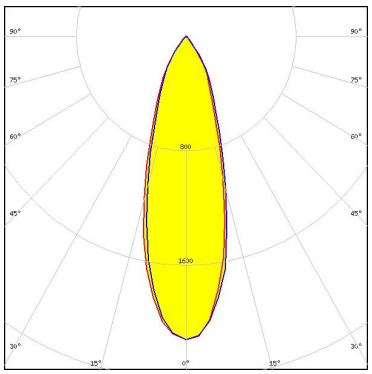
LED	NFMW48xA
FWHM / FWTM	21.0° / 53.0°
Efficiency	82 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





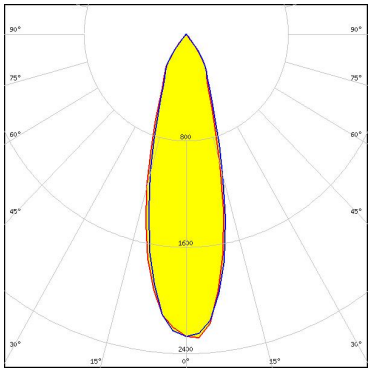
NICHIA

LED	NSCxL036A
FWHM / FWTM	32.0° / 70.0°
Efficiency	85 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C12479_MIRELLA-DL	



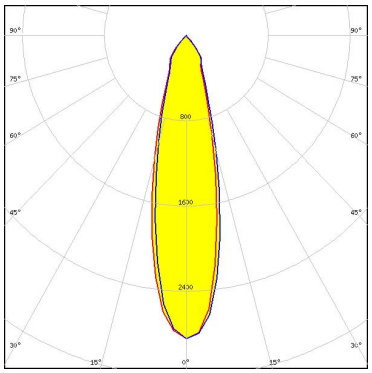
NICHIA

LED	NSCxL036A
FWHM / FWTM	30.0° / 70.0°
Efficiency	85 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13333_MIRELLA-CL	



NICHIA

LED	NSCxL036A
FWHM / FWTM	26.0° / 64.0°
Efficiency	88 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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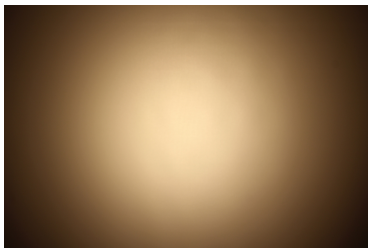
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Duris S10
FWHM / FWTM	32.0° / 72.0°
Efficiency	81 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12479_MIRELLA-DL



OSRAM
Opto Semiconductors

LED	Duris S10
FWHM / FWTM	29.0° / 71.0°
Efficiency	83 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL

OSRAM
Opto Semiconductors

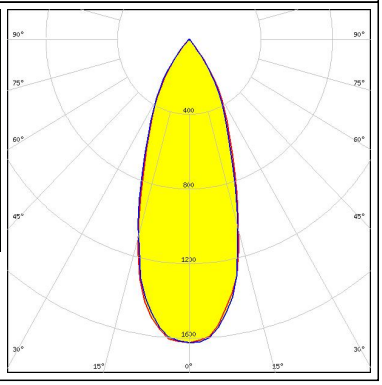
LED	Duris S10
FWHM / FWTM	24.0° / 63.0°
Efficiency	88 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM / FWTM	38.0° / 74.0°
Efficiency	82 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL



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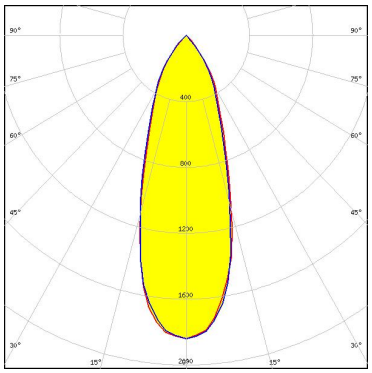
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM / FWTM	35.0° / 76.0°
Efficiency	87 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

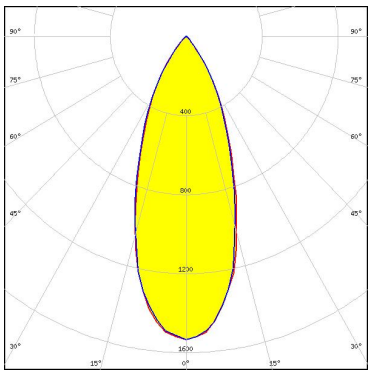


OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM / FWTM	39.0° / 75.0°
Efficiency	81 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

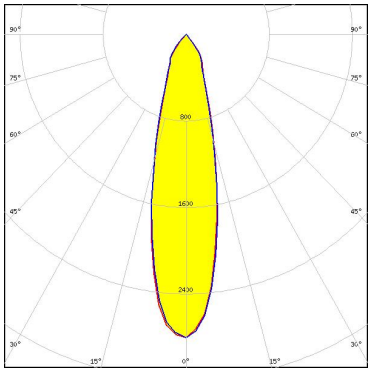
C12479_MIRELLA-DL



SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM / FWTM	26.0° / 66.0°
Efficiency	87 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

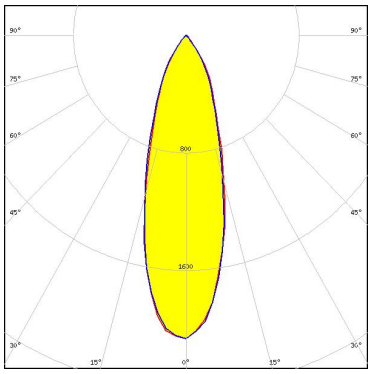


SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM / FWTM	32.0° / 70.0°
Efficiency	83 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12479_MIRELLA-DL



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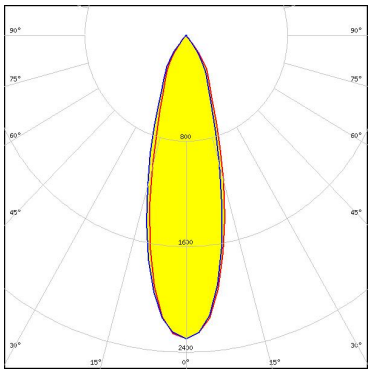
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM / FWTM	30.0° / 69.0°
Efficiency	82 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

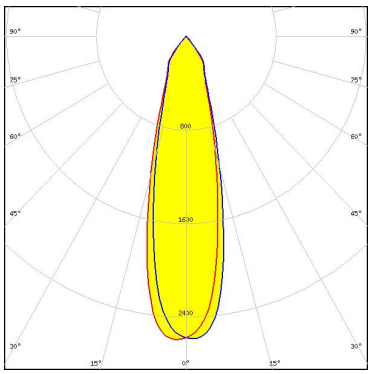
Required components:
C13333_MIRELLA-CL



SHARP

LED	Mini Zenigata (GW5BM)
FWHM / FWTM	29.0° / 71.0°
Efficiency	90 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

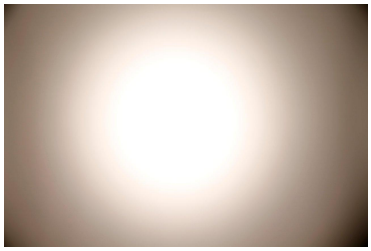
Required components:

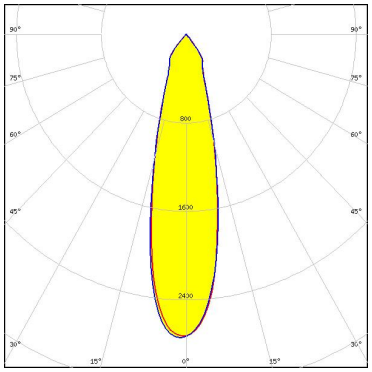


SHARP

LED	Mini Zenigata (GW6BM)
FWHM / FWTM	25.0° / 73.0°
Efficiency	90 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

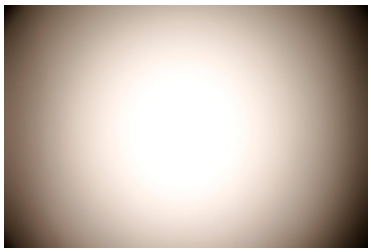


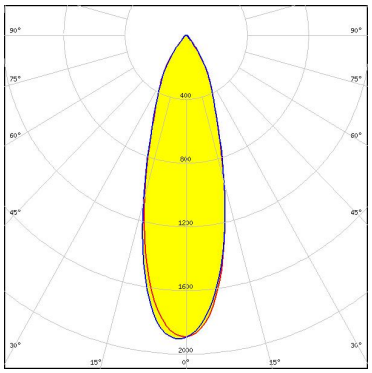


SHARP

LED	Mini Zenigata (GW6BM)
FWHM / FWTM	30.0° / 70.0°
Efficiency	83 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12479_MIRELLA-DL





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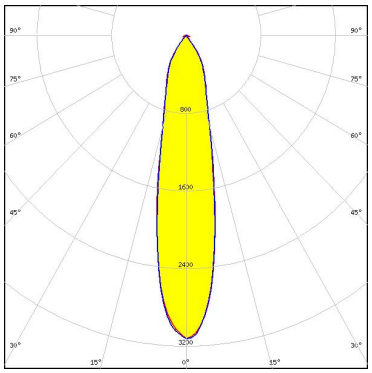
OPTICAL RESULTS (SIMULATED):

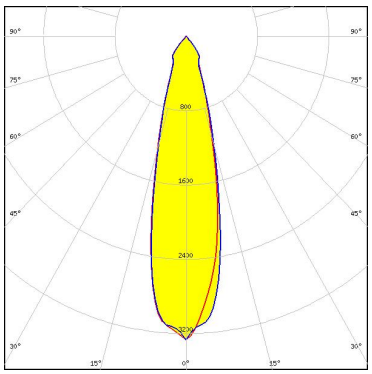
bridgelux

LED	Vero SE 10
FWHM / FWTM	22.0° / 64.0°
Efficiency	91 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



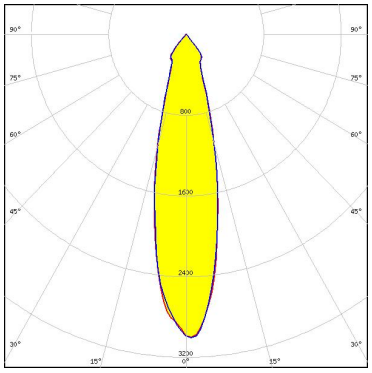
LUMILEDS

LED	LUXEON 7070
FWHM / FWTM	26.0° / 52.0°
Efficiency	96 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



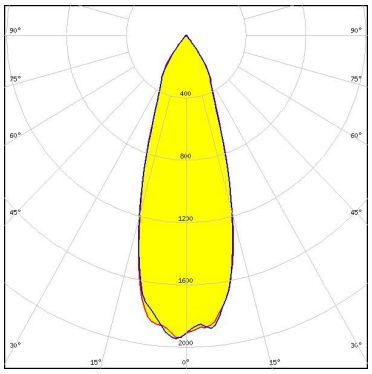
OSRAM
Opto Semiconductors

LED	OSCONIQ P 7070
FWHM / FWTM	25.0° / 59.0°
Efficiency	91 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	Soleriq S9
FWHM / FWTM	34.0° / 71.0°
Efficiency	87 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13333_MIRELLA-CL	



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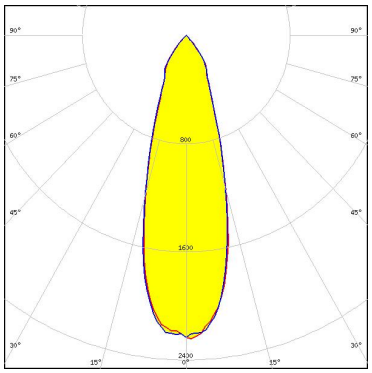
OPTICAL RESULTS (SIMULATED):

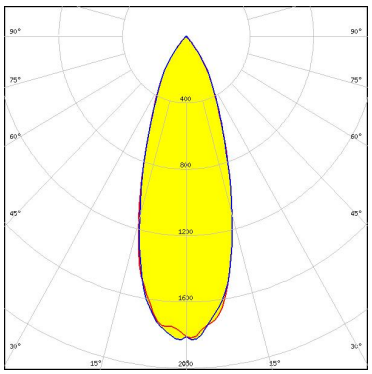
OSRAM
Opto Semiconductors

LED	Soleriq S9
FWHM / FWTM	31.0° / 73.0°
Efficiency	91 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	Soleriq S9
FWHM / FWTM	35.0° / 71.0°
Efficiency	85 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C12479_MIRELLA-DL	



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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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

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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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.

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