MIRELLA-50-S-PF

~15° spot beam



SPECIFICATION:

Dimensions	Ø 49.9
Height	24 mm
Fastening	socket
ROHS compliant	yes

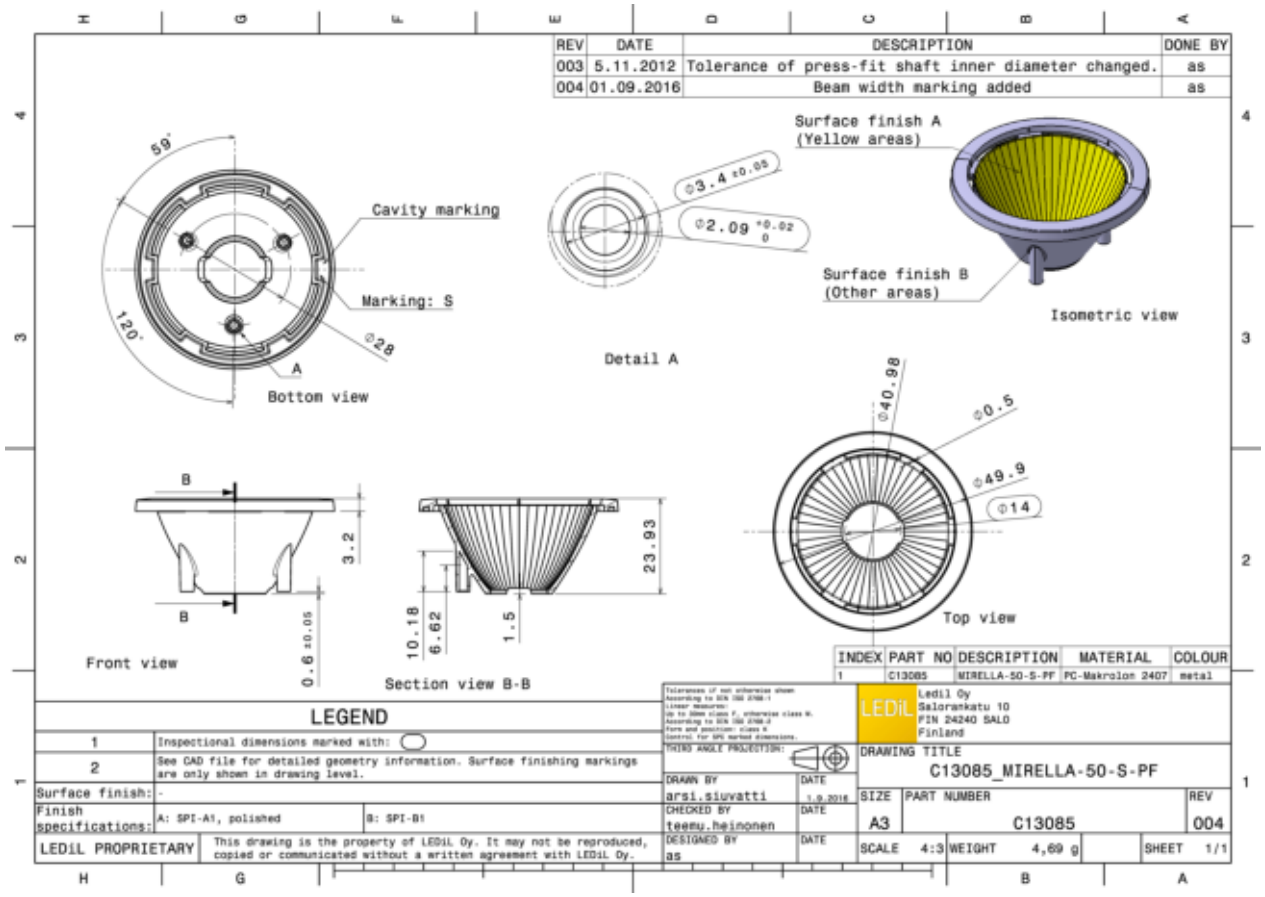
MATERIALS:

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

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13085_MIRELLA-50-S-PF » Box size: 480 x 280 x 300 mm	336	112	28	3.0

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

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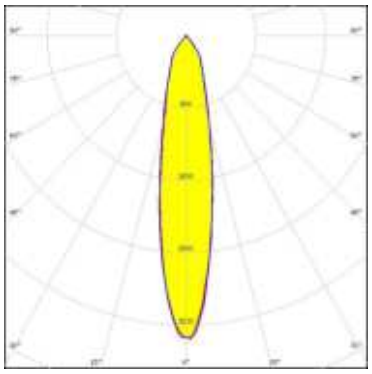
OPTICAL RESULTS (MEASURED):

LED	V10 Gen7
FWHM / FWTM	21.0° / 61.0°
Efficiency	91 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- Bender Wirth: 486 Typ L1



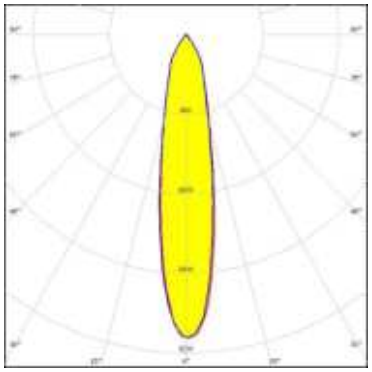


Light distribution files

LED	V10 Gen7
FWHM / FWTM	21.0° / 61.0°
Efficiency	81 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C13333_MIRELLA-CL



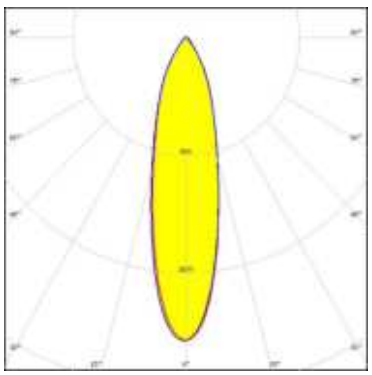


Light distribution files

LED	V10 Gen7
FWHM / FWTM	26.0° / 66.0°
Efficiency	79 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C12479_MIRELLA-DL





Light distribution files

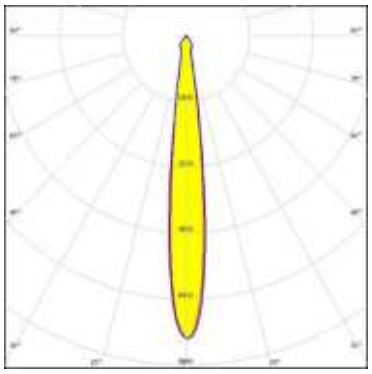
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LED	V6 Gen6
FWHM / FWTM	13.0° / 26.0°
Efficiency	84 %
Peak intensity	7.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13761_PF-SOCKET-CXA15
- C13333_MIRELLA-CL





Light distribution files

LED	V6 Gen6
FWHM / FWTM	18.0° / 52.0°
Efficiency	73 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C12479_MIRELLA-DL
- Bender Wirth: 460 Typ L1

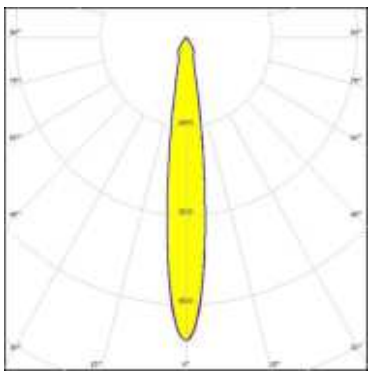


Light distribution files

LED	V6 Gen6
FWHM / FWTM	15.0° / 33.0°
Efficiency	84 %
Peak intensity	5.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13761_PF-SOCKET-CXA15
- C12479_MIRELLA-DL





Light distribution files

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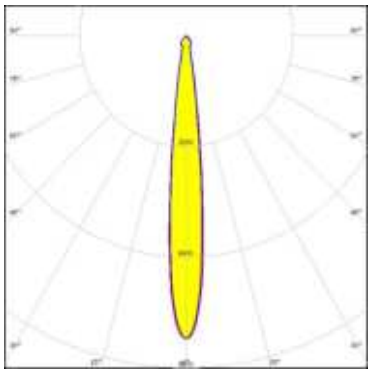
OPTICAL RESULTS (MEASURED):

LED	V6 Gen6
FWHM / FWTM	12.0° / 25.0°
Efficiency	90 %
Peak intensity	8.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13761_PF-SOCKET-CXA15



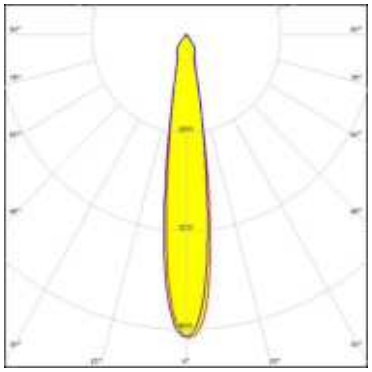


Light distribution files

LED	V8 Gen6
FWHM / FWTM	16.0° / 36.0°
Efficiency	84 %
Peak intensity	4.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13761_PF-SOCKET-CXA15
C13333_MIRELLA-CL





Light distribution files

LED	V8 Gen6
FWHM / FWTM	20.0° / 62.0°
Efficiency	71 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13709_PF-SOCKET-VERO13-18
C12479_MIRELLA-DL
Bender Wirth: 460 Typ L1



Light distribution files

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

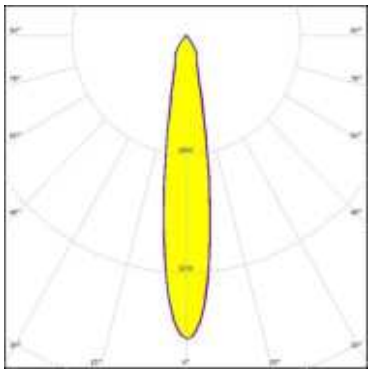
OPTICAL RESULTS (MEASURED):

LED	V8 Gen6
FWHM / FWTM	18.0° / 44.0°
Efficiency	85 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13761_PF-SOCKET-CXA15
C12479_MIRELLA-DL





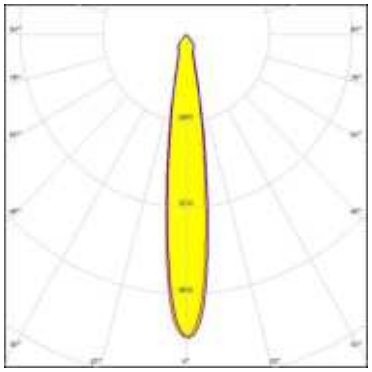
Light distribution files

LED	V8 Gen6
FWHM / FWTM	15.0° / 34.0°
Efficiency	90 %
Peak intensity	5.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13761_PF-SOCKET-CXA15





Light distribution files

LED	VERO10
FWHM / FWTM	23.0° / 63.0°
Efficiency	83 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13708_PF-SOCKET-VERO10
C13333_MIRELLA-CL

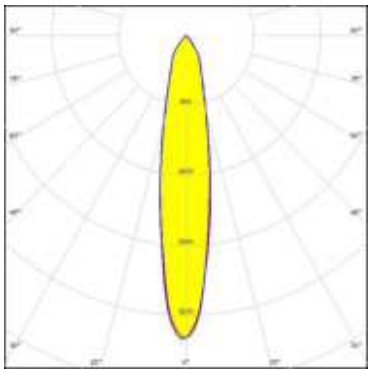
Light distribution files

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

OPTICAL RESULTS (MEASURED):

LED	VERO10
FWHM / FWTM	20.0° / 57.0°
Efficiency	88 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13708_PF-SOCKET-VERO10	

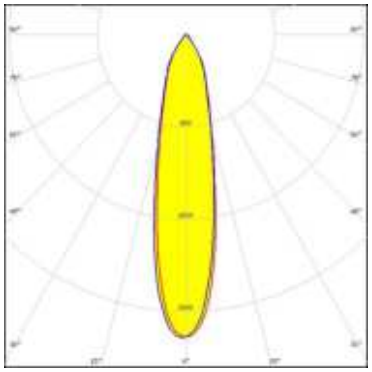




Light distribution files

LED	VERO10
FWHM / FWTM	23.0° / 63.0°
Efficiency	83 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13708_PF-SOCKET-VERO10	
C12479_MIRELLA-DL	

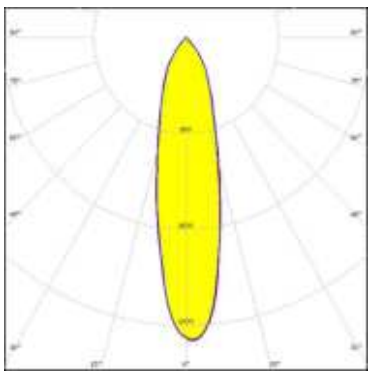




Light distribution files

LED	VERO13
FWHM / FWTM	25.0° / 69.0°
Efficiency	89 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	





Light distribution files

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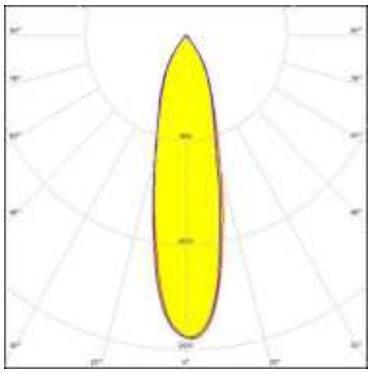
OPTICAL RESULTS (MEASURED):

LED	VERO13
FWHM / FWTM	26.0° / 67.0°
Efficiency	83 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
C13333_MIRELLA-CL	

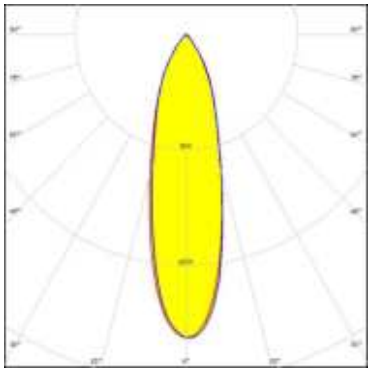




Light distribution files

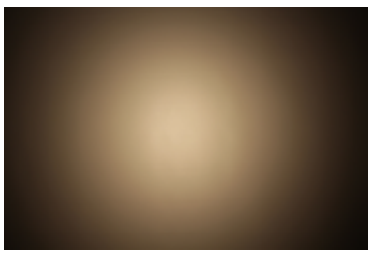
LED	VERO13
FWHM / FWTM	28.0° / 68.0°
Efficiency	84 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
C12479_MIRELLA-DL	

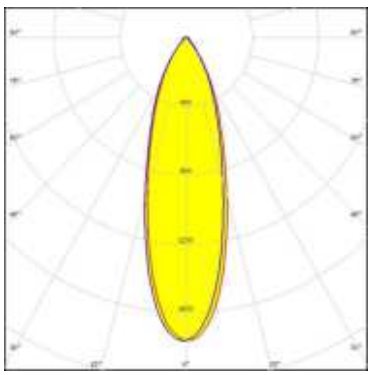




Light distribution files

LED	Xenio Point 13mm
FWHM / FWTM	31.0° / 70.0°
Efficiency	81 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
C12479_MIRELLA-DL	





Light distribution files

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OPTICAL RESULTS (MEASURED):

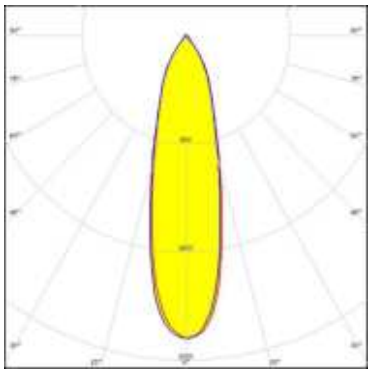
bridgelux

LED	Xenio Point 13mm
FWHM / FWTM	27.0° / 67.0°
Efficiency	83 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL





Light distribution files

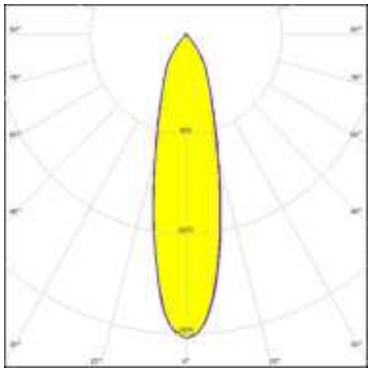
bridgelux

LED	Xenio Point 13mm
FWHM / FWTM	26.0° / 69.0°
Efficiency	87 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18





Light distribution files

CITIZEN

LED	CLL01x
FWHM / FWTM	13.0° / 27.0°
Efficiency	84 %
Peak intensity	7.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13083_PF-SOCKET
C13333_MIRELLA-CL



Light distribution files

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

OPTICAL RESULTS (MEASURED):

CITIZEN

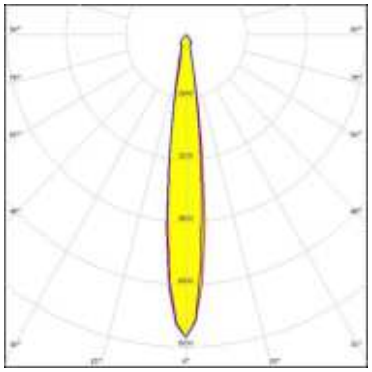
LED	CLL01x
FWHM / FWTM	15.0° / 32.0°
Efficiency	84 %
Peak intensity	5.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	
C12479_MIRELLA-DL	



Light distribution files

CITIZEN

LED	CLL01x
FWHM / FWTM	14.0° / 27.0°
Efficiency	88 %
Peak intensity	7.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	



Light distribution files

CITIZEN

LED	CLU02x (LES10)
FWHM / FWTM	18.0° / 43.0°
Efficiency	83 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	
C13333_MIRELLA-CL	



Light distribution files

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OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU02x (LES10)
FWHM / FWTM	25.0° / 64.0°
Efficiency	%
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13723_MIRELLA-RZL

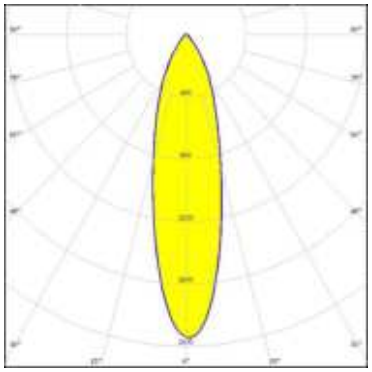


CITIZEN

LED	CLU02x (LES10)
FWHM / FWTM	27.0° / 67.0°
Efficiency	77 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C12479_MIRELLA-DL
- Bender Wirth: 434 Typ L1





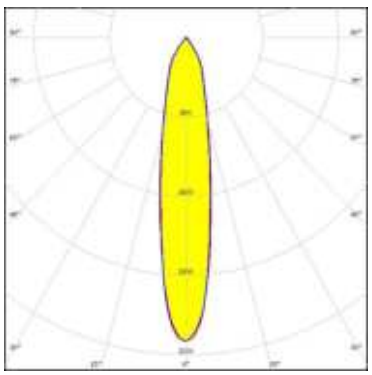
Light distribution files

CITIZEN

LED	CLU02x (LES10)
FWHM / FWTM	20.0° / 61.0°
Efficiency	80 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C13333_MIRELLA-CL
- Bender Wirth: 434 Typ L1





Light distribution files

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OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU02x (LES10)
FWHM / FWTM	20.0° / 54.0°
Efficiency	83 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	
C12479_MIRELLA-DL	

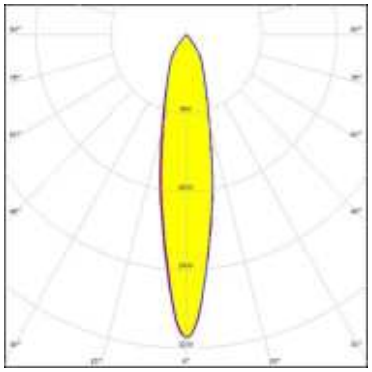


Light distribution files

CITIZEN

LED	CLU02x (LES10)
FWHM / FWTM	21.0° / 63.0°
Efficiency	84 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
Bender Wirth: 434 Typ L1	

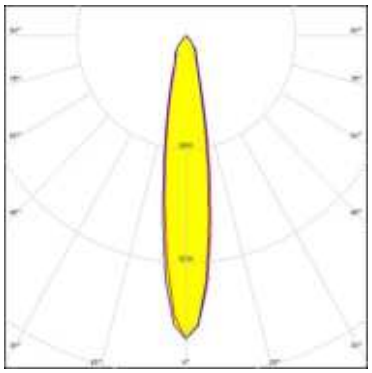




Light distribution files

CITIZEN

LED	CLU02x (LES10)
FWHM / FWTM	19.0° / 46.0°
Efficiency	87 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	



Light distribution files

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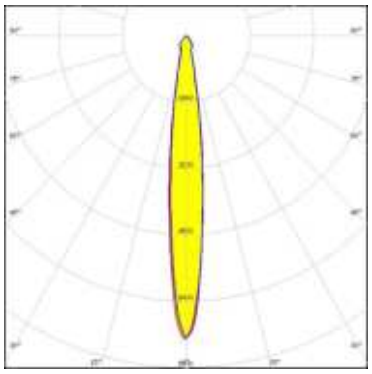
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	13.0° / 29.0°
Efficiency	89 %
Peak intensity	7.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET





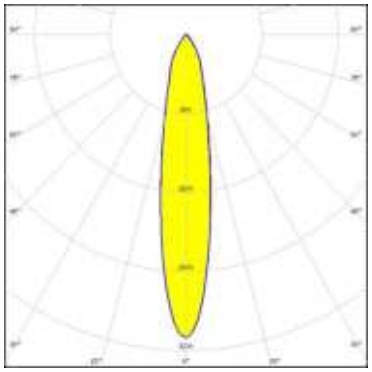
Light distribution files

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	20.0° / 58.0°
Efficiency	79 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C12479_MIRELLA-DL
- Bender Wirth: 434 Typ L1





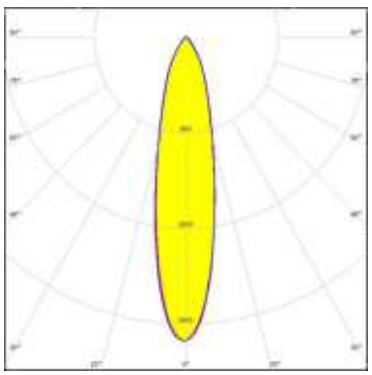
Light distribution files

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	23.0° / 61.0°
Efficiency	82 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13723_MIRELLA-RZL





Light distribution files

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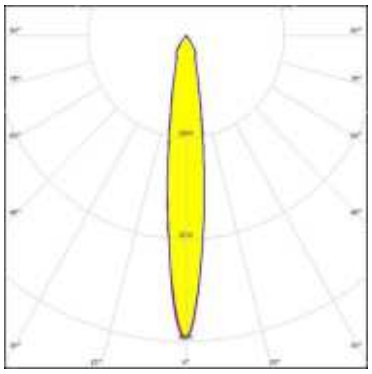
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	14.0° / 40.0°
Efficiency	79 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C13333_MIRELLA-CL
- Bender Wirth: 434 Typ L1





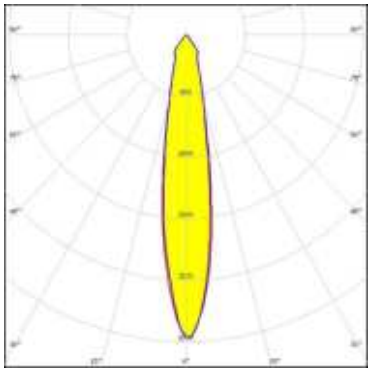
Light distribution files

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	19.0° / 47.0°
Efficiency	84 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- Bender Wirth: 434 Typ L1





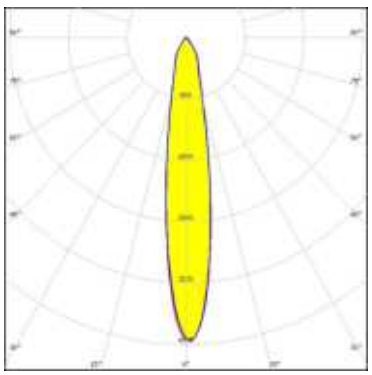
Light distribution files

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	17.0° / 47.0°
Efficiency	82 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C12479_MIRELLA-DL





Light distribution files

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

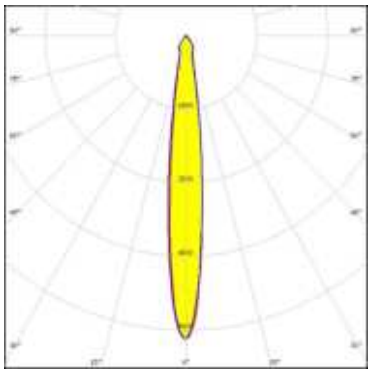
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	13.0° / 30.0°
Efficiency	83 %
Peak intensity	6.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13333_MIRELLA-CL





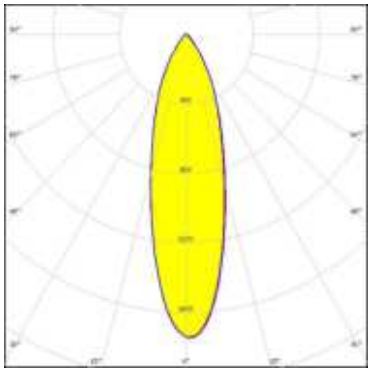
Light distribution files

CITIZEN

LED	CLU720/721/723
FWHM / FWTM	29.0° / 69.0°
Efficiency	75 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C12479_MIRELLA-DL
- Bender Wirth: 433 Typ L1



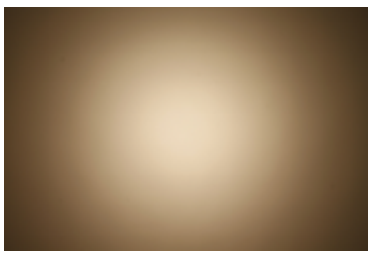


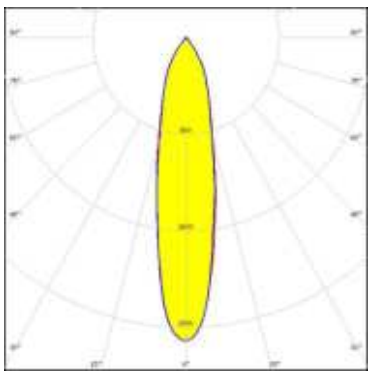
Light distribution files

CITIZEN

LED	CLU720/721/723
FWHM / FWTM	23.0° / 64.0°
Efficiency	77 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C13333_MIRELLA-CL
- Bender Wirth: 433 Typ L1





Light distribution files

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

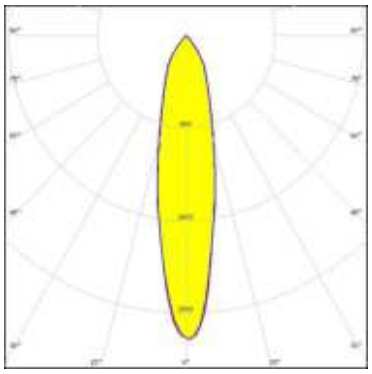
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU720/721/723
FWHM / FWTM	23.0° / 67.0°
Efficiency	82 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- Bender Wirth: 433 Typ L1





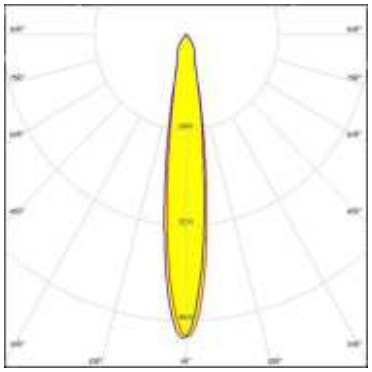
Light distribution files

CREE LEDs

LED	CXA/B 13xx
FWHM / FWTM	15.0° / 36.0°
Efficiency	81 %
Peak intensity	5.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13761_PF-SOCKET-CXA15
- C12479_MIRELLA-DL





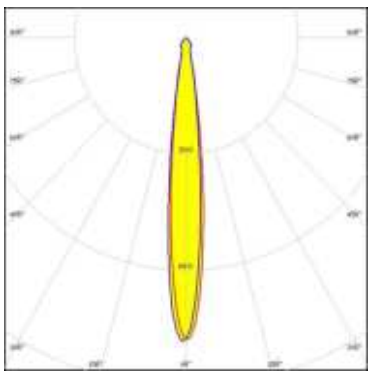
Light distribution files

CREE LEDs

LED	CXA/B 13xx
FWHM / FWTM	12.0° / 25.0°
Efficiency	87 %
Peak intensity	9.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13761_PF-SOCKET-CXA15





Light distribution files

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

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 13xx
FWHM / FWTM	12.0° / 25.0°
Efficiency	82 %
Peak intensity	8.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13761_PF-SOCKET-CXA15
- C13333_MIRELLA-CL



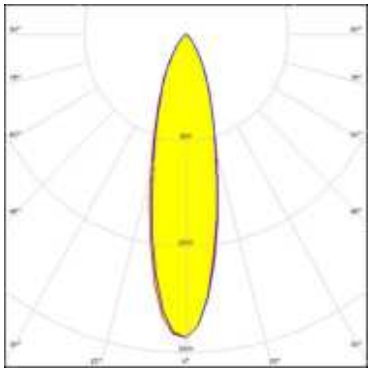
Light distribution files

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	27.0° / 65.0°
Efficiency	82 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13761_PF-SOCKET-CXA15
- C13723_MIRELLA-RZL





Light distribution files

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	19.0° / 47.0°
Efficiency	84 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13761_PF-SOCKET-CXA15
- C13333_MIRELLA-CL



Light distribution files

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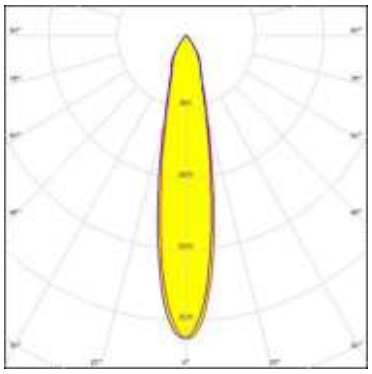
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	21.0° / 56.0°
Efficiency	87 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

- C13761_PF-SOCKET-CXA15
- C12479_MIRELLA-DL



Light distribution files

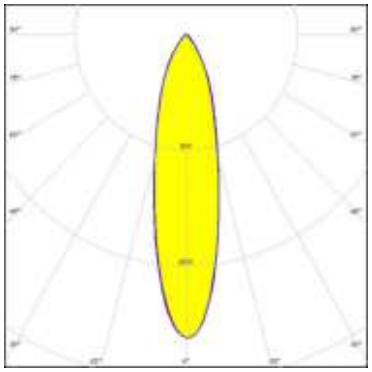
CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	26.0° / 66.0°
Efficiency	77 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

- C13709_PF-SOCKET-VERO13-18
- C12479_MIRELLA-DL
- Bender Wirth: 441 Typ L1





Light distribution files

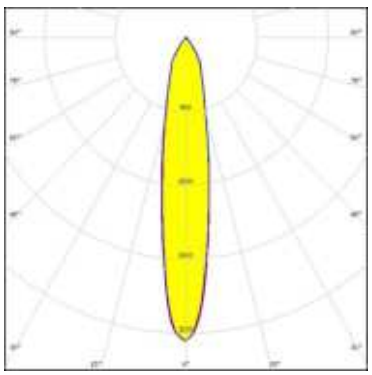
CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	19.0° / 59.0°
Efficiency	79 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

- C13709_PF-SOCKET-VERO13-18
- C13333_MIRELLA-CL
- Bender Wirth: 441 Typ L1





Light distribution files

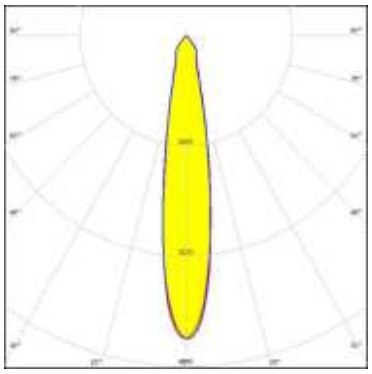
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	18.0° / 43.0°
Efficiency	91 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13761_PF-SOCKET-CXA15



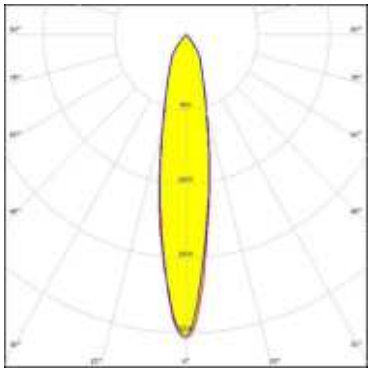
Light distribution files

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	20.0° / 60.0°
Efficiency	84 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 441 Typ L1





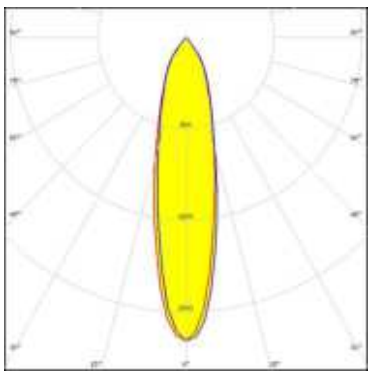
Light distribution files

CREE LEDs

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	25.0° / 68.0°
Efficiency	85 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14115_PF-SOCKET-CXA15-18





Light distribution files

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

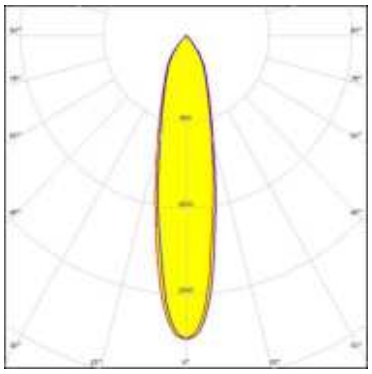
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	23.0° / 67.0°
Efficiency	89 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
IDEAL: 50-2101CR + 50-2100MR





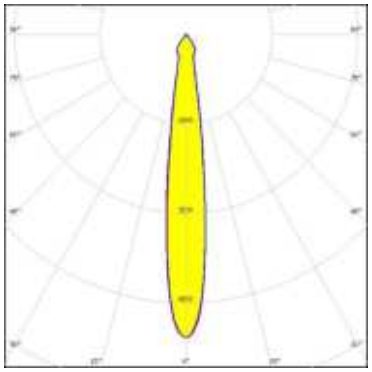
Light distribution files

CREE LEDs

LED	MHD-E/G
FWHM / FWTM	15.0° / 32.0°
Efficiency	87 %
Peak intensity	5.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13083_PF-SOCKET
C13333_MIRELLA-CL





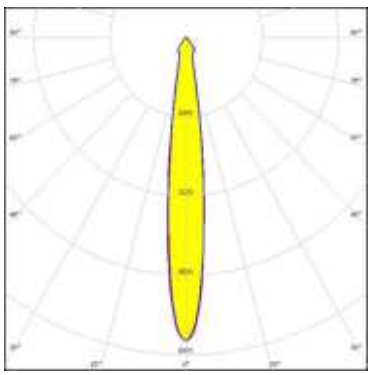
Light distribution files

CREE LEDs

LED	MHD-E/G
FWHM / FWTM	14.0° / 31.0°
Efficiency	93 %
Peak intensity	6.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13083_PF-SOCKET





Light distribution files

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

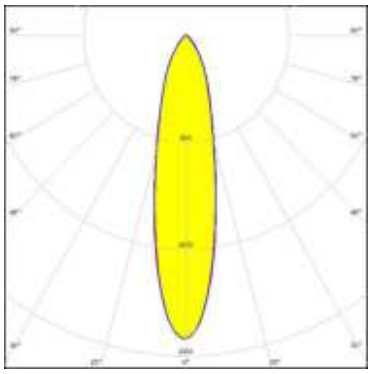
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	MHD-E/G
FWHM / FWTM	24.0° / 65.0°
Efficiency	84 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13723_MIRELLA-RZL





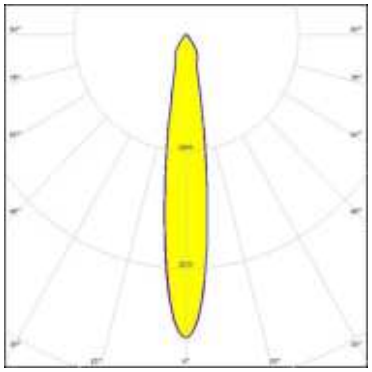
Light distribution files

CREE LEDs

LED	MHD-E/G
FWHM / FWTM	17.0° / 44.0°
Efficiency	87 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C12479_MIRELLA-DL





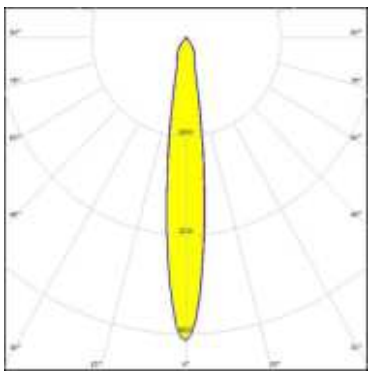
Light distribution files

CREE LEDs

LED	MK-R
FWHM / FWTM	15.0° / 37.0°
Efficiency	82 %
Peak intensity	4.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C12479_MIRELLA-DL





Light distribution files

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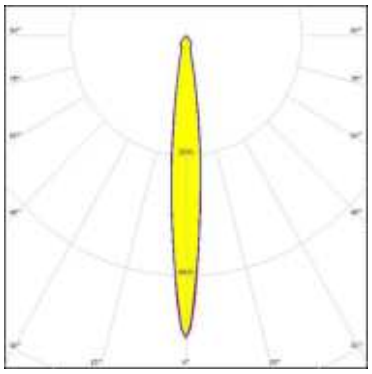
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	MK-R
FWHM / FWTM	12.0° / 27.0°
Efficiency	87 %
Peak intensity	8.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13083_PF-SOCKET





Light distribution files

CREE LEDs

LED	MT-G
FWHM / FWTM	19.0° / 46.0°
Efficiency	85 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13083_PF-SOCKET
C12479_MIRELLA-DL

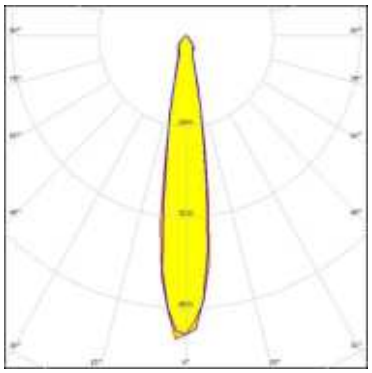


Light distribution files

CREE LEDs

LED	MT-G
FWHM / FWTM	17.0° / 34.0°
Efficiency	90 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13083_PF-SOCKET



Light distribution files

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

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	MT-G
FWHM / FWTM	18.0° / 34.0°
Efficiency	86 %
Peak intensity	5.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13333_MIRELLA-CL

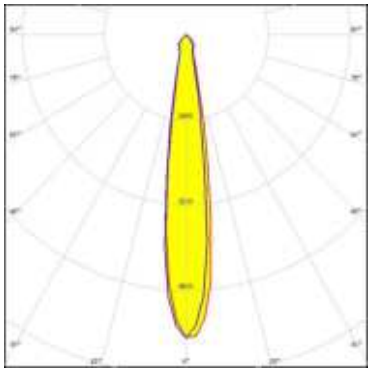


Light distribution files

CREE LEDs

LED	MT-G2
FWHM / FWTM	18.0° / 35.0°
Efficiency	88 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET



Light distribution files

CREE LEDs

LED	MT-G2
FWHM / FWTM	16.0° / 33.0°
Efficiency	84 %
Peak intensity	5.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13333_MIRELLA-CL



Light distribution files

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OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	MT-G2
FWHM / FWTM	18.0° / 43.0°
Efficiency	85 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C12479_MIRELLA-DL



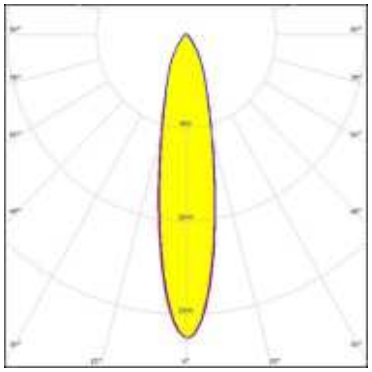
Light distribution files

CREE LEDs

LED	XHP50
FWHM / FWTM	22.0° / 60.0°
Efficiency	81 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13723_MIRELLA-RZL





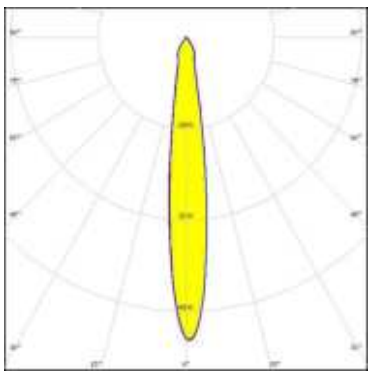
Light distribution files

CREE LEDs

LED	XHP50
FWHM / FWTM	15.0° / 34.0°
Efficiency	85 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C12479_MIRELLA-DL





Light distribution files

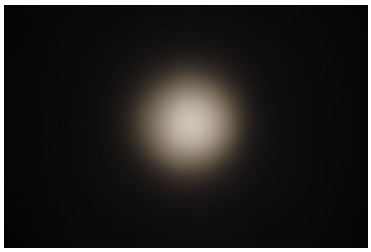
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

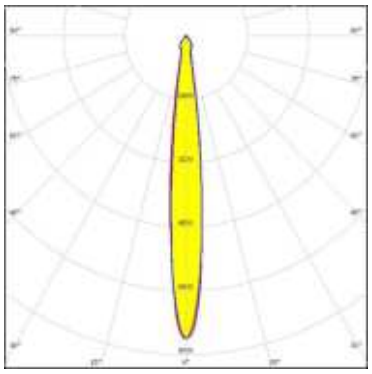
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XHP50
FWHM / FWTM	12.0° / 25.0°
Efficiency	84 %
Peak intensity	7.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13333_MIRELLA-CL





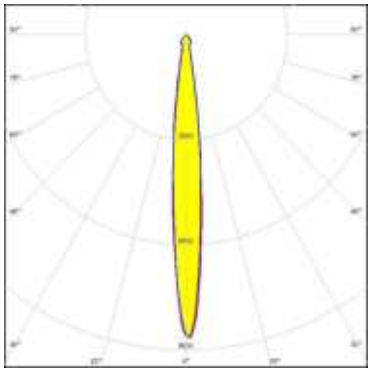
Light distribution files

CREE LEDs

LED	XHP50
FWHM / FWTM	11.0° / 23.0°
Efficiency	89 %
Peak intensity	9.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET





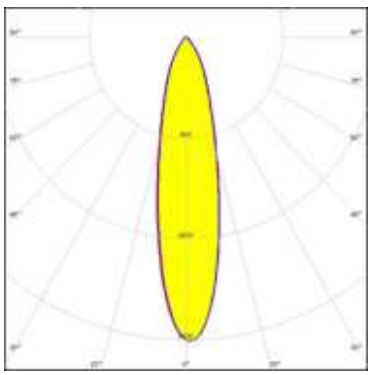
Light distribution files

CREE LEDs

LED	XHP70
FWHM / FWTM	24.0° / 62.0°
Efficiency	81 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13723_MIRELLA-RZL





Light distribution files

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

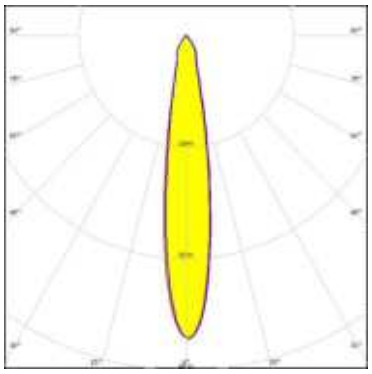
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XHP70
FWHM / FWTM	17.0° / 40.0°
Efficiency	84 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C12479_MIRELLA-DL





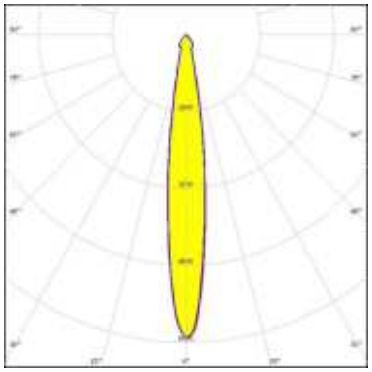
Light distribution files

CREE LEDs

LED	XHP70
FWHM / FWTM	15.0° / 31.0°
Efficiency	89 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET





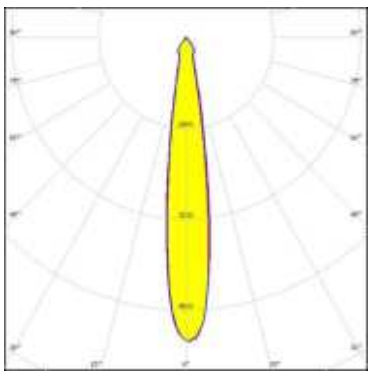
Light distribution files

CREE LEDs

LED	XHP70
FWHM / FWTM	16.0° / 32.0°
Efficiency	83 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13333_MIRELLA-CL





Light distribution files

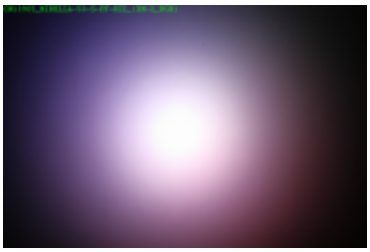
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

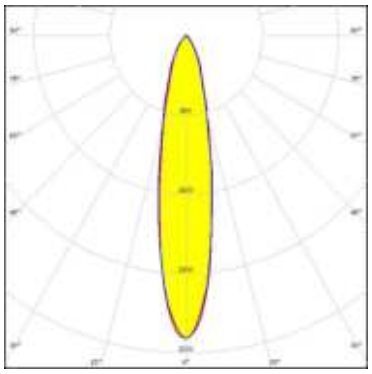
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XM-L RGBW (XMLCTW)
FWHM / FWTM	22.0° / 55.0°
Efficiency	80 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13723_MIRELLA-RZL



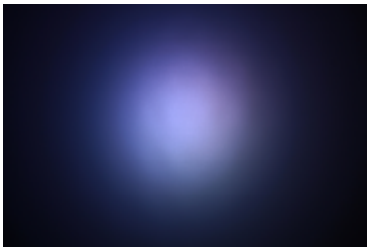


Light distribution files

CREE LEDs

LED	XQ-E HI
FWHM / FWTM	21.0° / 58.0°
Efficiency	86 %
Peak intensity	3.1 cd/lm
LEDs/each optic	4
Light colour/type	RGBW

Required components:
- C13083_PF-SOCKET
- C13723_MIRELLA-RZL



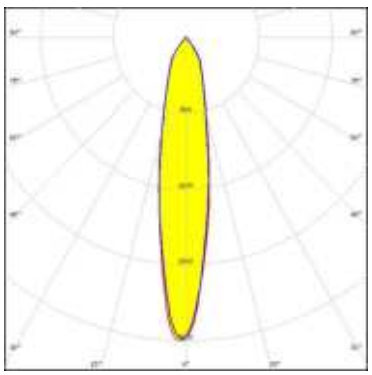
Light distribution files

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	20.0° / 61.0°
Efficiency	84 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- Bender Wirth: 438 Typ L1





Light distribution files

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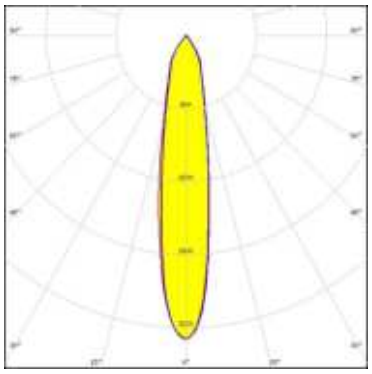
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	19.0° / 59.0°
Efficiency	82 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13333_MIRELLA-CL
- IDEAL: 50-2100NC +50-2100MR



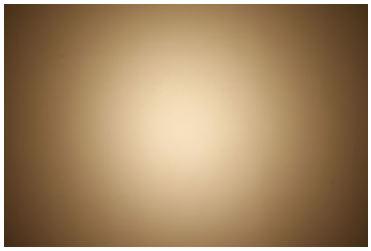


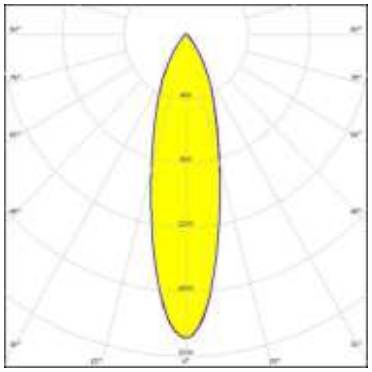
Light distribution files

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	27.0° / 67.0°
Efficiency	76 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C12479_MIRELLA-DL
- Bender Wirth: 438 Typ L1





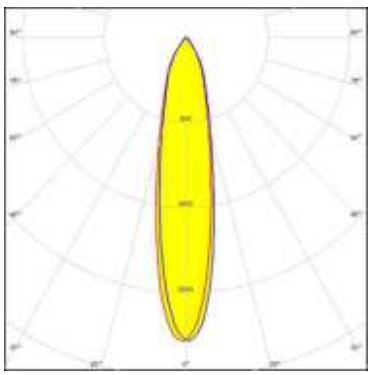
Light distribution files

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	22.0° / 61.0°
Efficiency	83 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C12479_MIRELLA-DL
- IDEAL: 50-2100NC +50-2100MR





Light distribution files

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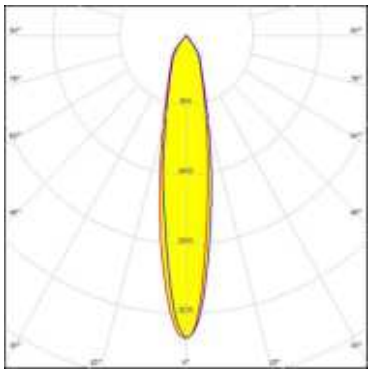
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	19.0° / 58.0°
Efficiency	88 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
IDEAL: 50-2100NC +50-2100MR



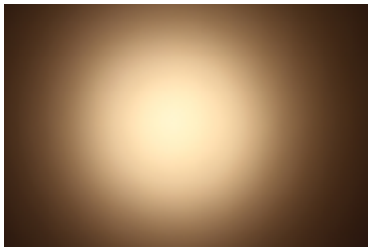


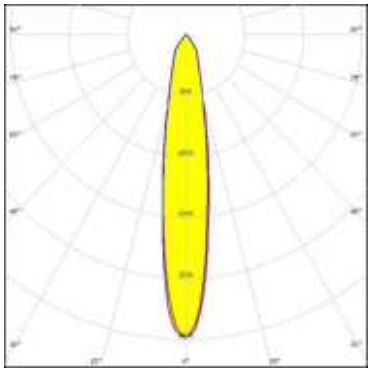
Light distribution files

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	19.0° / 50.0°
Efficiency	87 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14037_PF-NSX-SOCKET





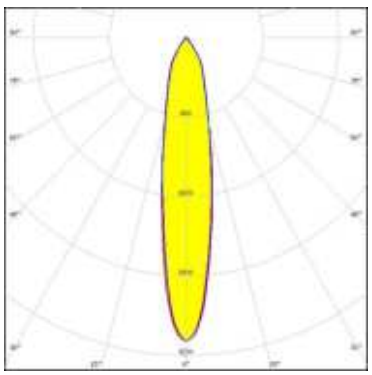
Light distribution files

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	20.0° / 61.0°
Efficiency	78 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL
Bender Wirth: 438 Typ L1





Light distribution files

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

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1202s
FWHM / FWTM	13.0° / 28.0°
Efficiency	84 %
Peak intensity	7.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13761_PF-SOCKET-CXA15
- C13333_MIRELLA-CL



Light distribution files

LUMILEDS

LED	LUXEON CoB 1202s
FWHM / FWTM	15.0° / 36.0°
Efficiency	84 %
Peak intensity	5.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13761_PF-SOCKET-CXA15
- C12479_MIRELLA-DL



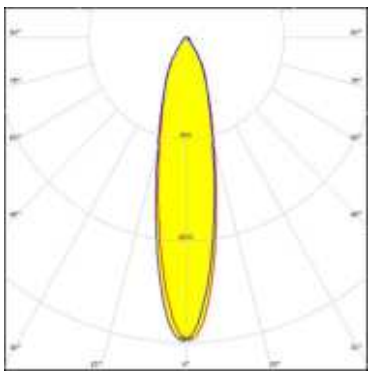
Light distribution files

LUMILEDS

LED	LUXEON CoB 1202s
FWHM / FWTM	23.0° / 63.0°
Efficiency	79 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C12479_MIRELLA-DL
- Bender Wirth: 452 Typ L1





Light distribution files

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

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1202s
FWHM / FWTM	13.0° / 30.0°
Efficiency	89 %
Peak intensity	7.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13761_PF-SOCKET-CXA15



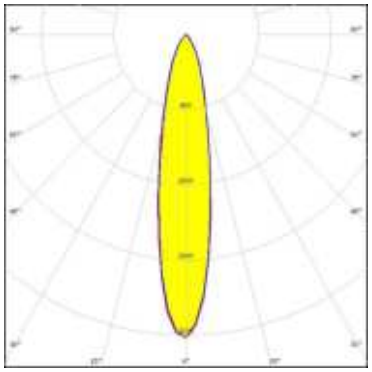
Light distribution files

LUMILEDS

LED	LUXEON Z
FWHM / FWTM	21.0° / 54.0°
Efficiency	78 %
Peak intensity	3.2 cd/lm
LEDs/each optic	4
Light colour/type	RGBW

Required components:
C13083_PF-SOCKET
C13723_MIRELLA-RZL





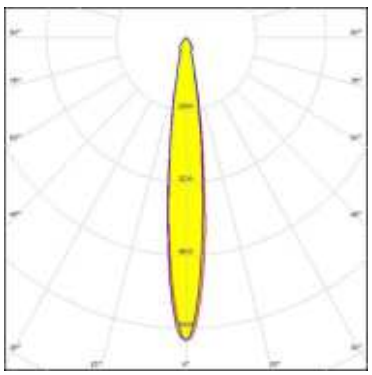
Light distribution files

LUMINUS

LED	CxM-6 (12x13)
FWHM / FWTM	14.0° / 32.0°
Efficiency	86 %
Peak intensity	6.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13083_PF-SOCKET





Light distribution files

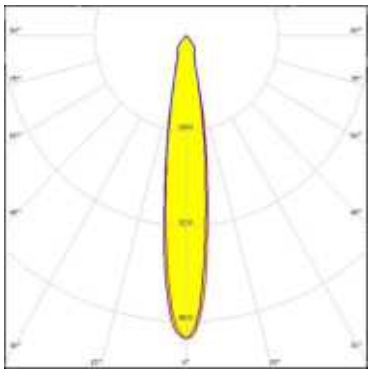
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMINUS

LED	CXM-7 (13x13)
FWHM / FWTM	17.0° / 38.0°
Efficiency	87 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	

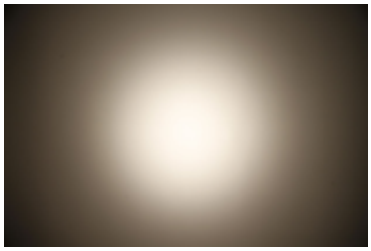


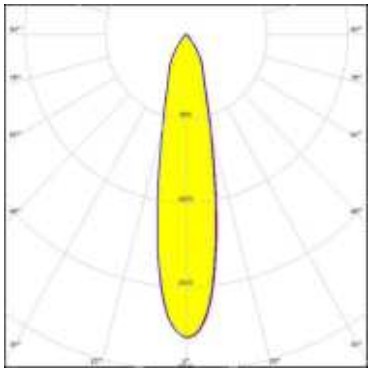


Light distribution files

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	23.0° / 61.0°
Efficiency	86 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	
C12479_MIRELLA-DL	



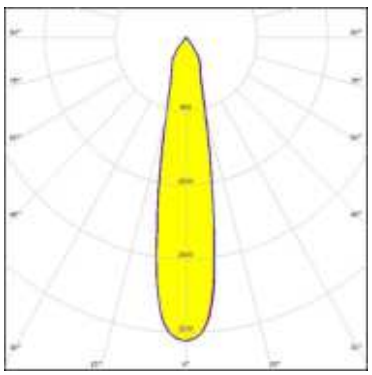


Light distribution files

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	21.0° / 58.0°
Efficiency	85 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	
C13333_MIRELLA-CL	





Light distribution files

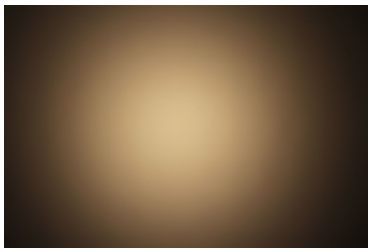
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

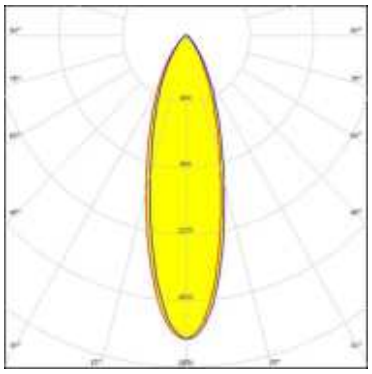
OPTICAL RESULTS (MEASURED):

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	30.0° / 70.0°
Efficiency	81 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13723_MIRELLA-RZL





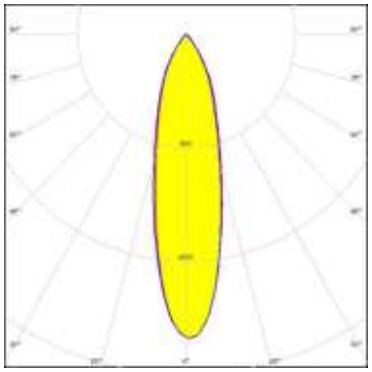
Light distribution files

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	26.0° / 67.0°
Efficiency	80 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C12479_MIRELLA-DL
- IDEAL: 50-2100NC +50-2100MR





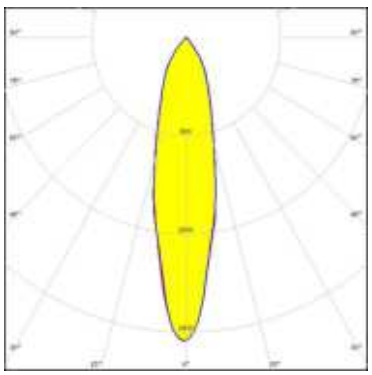
Light distribution files

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	25.0° / 68.0°
Efficiency	83 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- IDEAL: 50-2100NC +50-2100MR





Light distribution files

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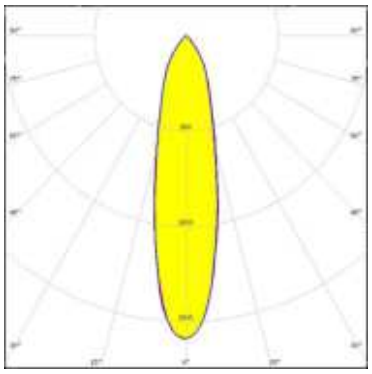
OPTICAL RESULTS (MEASURED):

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	25.0° / 68.0°
Efficiency	86 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C14037_PF-NSX-SOCKET





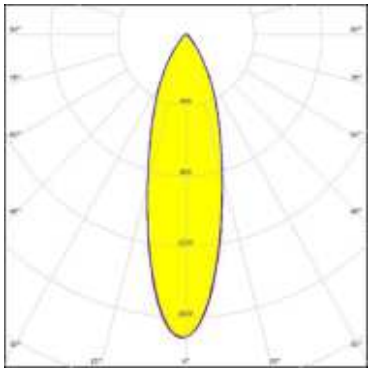
Light distribution files

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	30.0° / 70.0°
Efficiency	76 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C12479_MIRELLA-DL
- Bender Wirth: 438 Typ L1



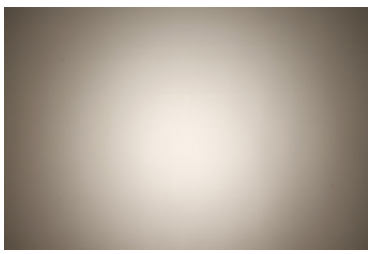


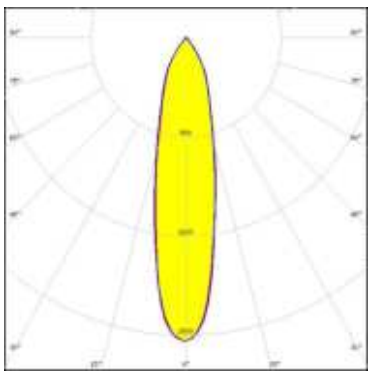
Light distribution files

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	24.0° / 65.0°
Efficiency	78 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C13333_MIRELLA-CL
- Bender Wirth: 438 Typ L1





Light distribution files

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OPTICAL RESULTS (MEASURED):

NICHIA

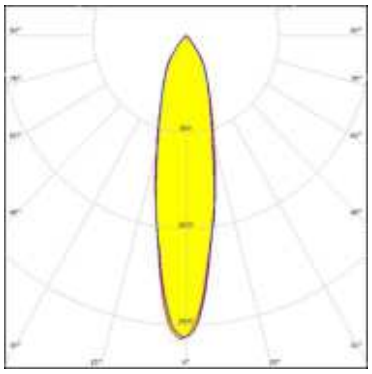
LED	COB L-Type (LES 11)
FWHM / FWTM	24.0° / 68.0°
Efficiency	81 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 438 Typ L1





Light distribution files

NICHIA

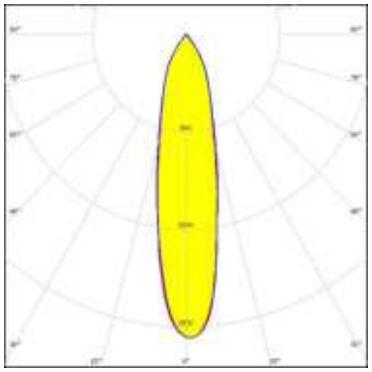
LED	COB L-Type (LES 11)
FWHM / FWTM	24.0° / 65.0°
Efficiency	81 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13333_MIRELLA-CL

IDEAL: 50-2100NC +50-2100MR





Light distribution files

NICHIA

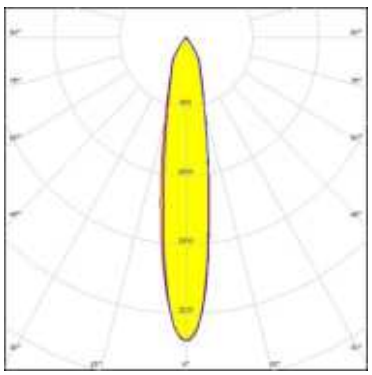
LED	COB L-Type (LES 9)
FWHM / FWTM	18.0° / 56.0°
Efficiency	83 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13333_MIRELLA-CL

IDEAL: 50-2100NC +50-2100MR





Light distribution files

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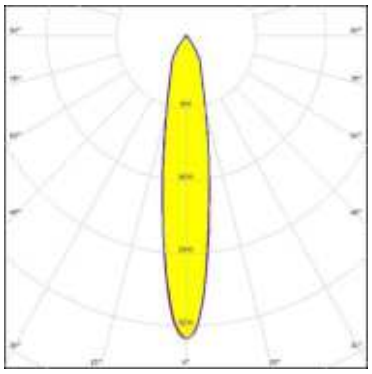
OPTICAL RESULTS (MEASURED):

NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	18.0° / 58.0°
Efficiency	80 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C13333_MIRELLA-CL
- Bender Wirth: 438 Typ L1





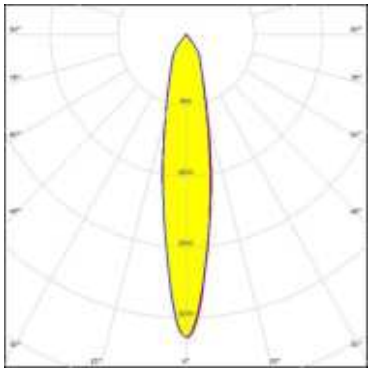
Light distribution files

NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	19.0° / 57.0°
Efficiency	85 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- Bender Wirth: 438 Typ L1





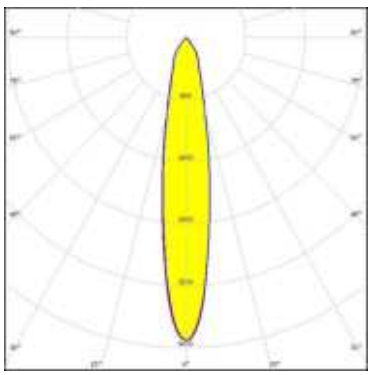
Light distribution files

NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	19.0° / 52.0°
Efficiency	88 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C14037_PF-NSX-SOCKET





Light distribution files

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

OPTICAL RESULTS (MEASURED):

NICHIA

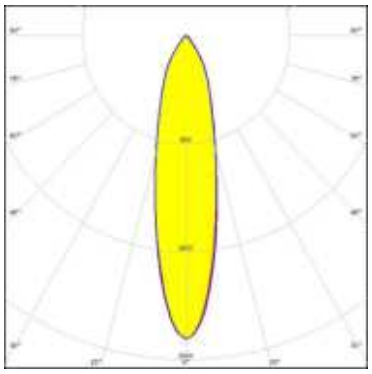
LED	COB L-Type (LES 9)
FWHM / FWTM	24.0° / 66.0°
Efficiency	78 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C12479_MIRELLA-DL

IDEAL: 50-2100NC +50-2100MR





Light distribution files

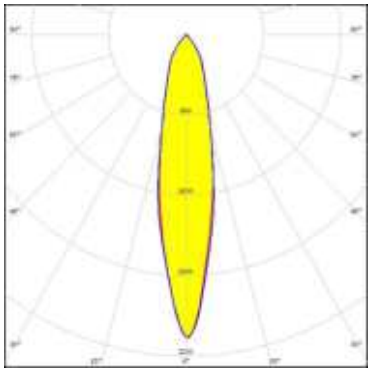
NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	22.0° / 64.0°
Efficiency	84 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

IDEAL: 50-2100NC +50-2100MR





Light distribution files

NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	27.0° / 67.0°
Efficiency	77 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

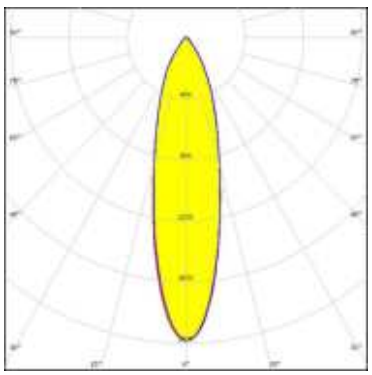
Required components:

C13709_PF-SOCKET-VERO13-18

C12479_MIRELLA-DL

Bender Wirth: 438 Typ L1





Light distribution files

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

OPTICAL RESULTS (MEASURED):

NICHIA

LED	NSCxL036A
FWHM / FWTM	16.0° / 38.0°
Efficiency	86 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C14037_PF-NSX-SOCKET

Light distribution files

OSRAM

LED	Duris S10
FWHM / FWTM	18.0° / 54.0°
Efficiency	80 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C12479_MIRELLA-DL



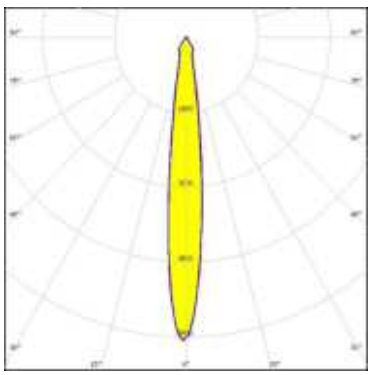
Light distribution files

OSRAM

LED	Duris S10
FWHM / FWTM	13.0° / 30.0°
Efficiency	81 %
Peak intensity	6.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13333_MIRELLA-CL





Light distribution files

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

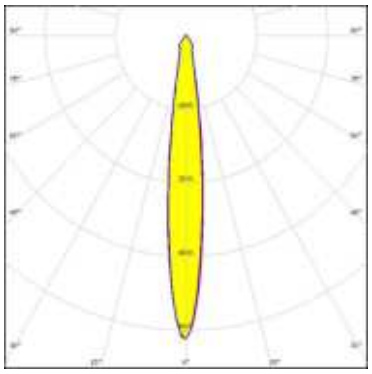
OPTICAL RESULTS (MEASURED):

OSRAM

LED	Duris S10
FWHM / FWTM	13.0° / 31.0°
Efficiency	87 %
Peak intensity	6.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13083_PF-SOCKET





Light distribution files

OSRAM

LED	Duris S10
FWHM / FWTM	22.0° / 61.0°
Efficiency	82 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13083_PF-SOCKET
C13723_MIRELLA-RZL



Light distribution files

OSRAM

LED	OSTAR Stage (S2WP)
FWHM / FWTM	21.0° / 58.0°
Efficiency	83 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13083_PF-SOCKET
C13723_MIRELLA-RZL



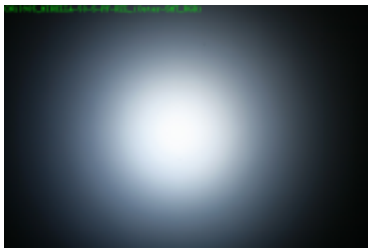
Light distribution files

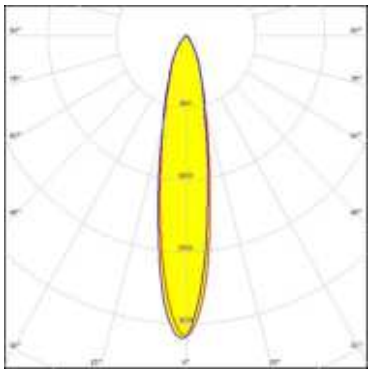
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

OSRAM

LED	Ostar-SMT RGB
FWHM / FWTM	20.0° / 55.0°
Efficiency	82 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	
C13723_MIRELLA-RZL	



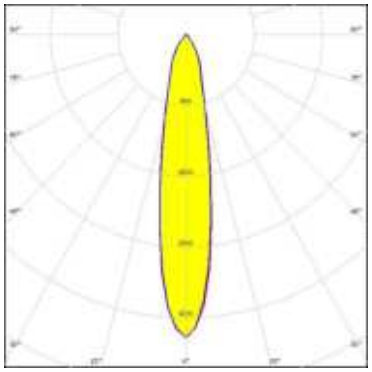


Light distribution files

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM / FWTM	21.0° / 56.0°
Efficiency	83 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	
C12479_MIRELLA-DL	



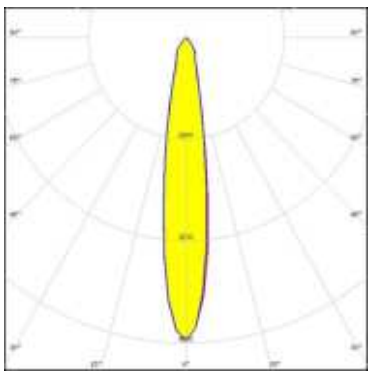


Light distribution files

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM / FWTM	18.0° / 42.0°
Efficiency	88 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	





Light distribution files

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

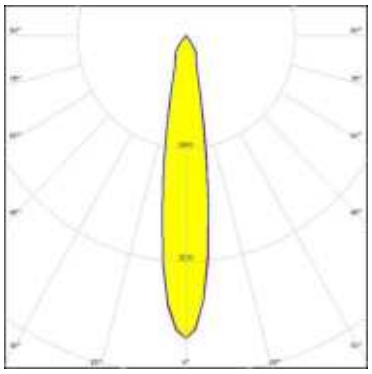
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM / FWTM	19.0° / 44.0°
Efficiency	83 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C13333_MIRELLA-CL



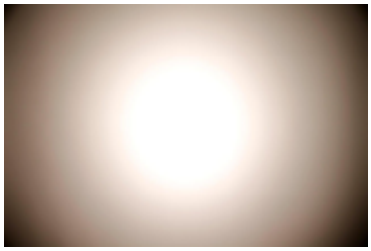


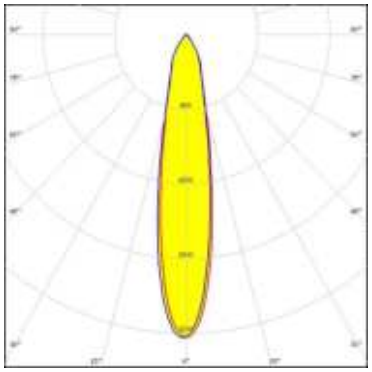
Light distribution files

SHARP

LED	Mini Zenigata (GW6BM)
FWHM / FWTM	20.0° / 56.0°
Efficiency	84 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET
- C12479_MIRELLA-DL



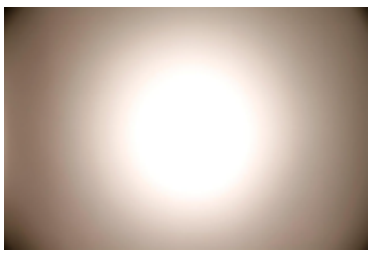


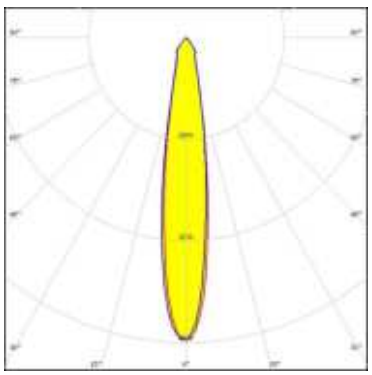
Light distribution files

SHARP

LED	Mini Zenigata (GW6BM)
FWHM / FWTM	17.0° / 41.0°
Efficiency	91 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C13083_PF-SOCKET





Light distribution files

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

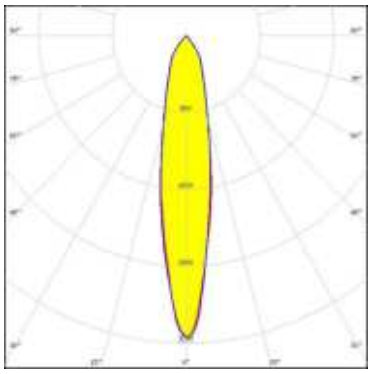
OPTICAL RESULTS (MEASURED):

XICATO

LED	XTM - 9mm LES
FWHM / FWTM	20.0° / 61.0°
Efficiency	82 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14636_XTM-PF-ADAPTER





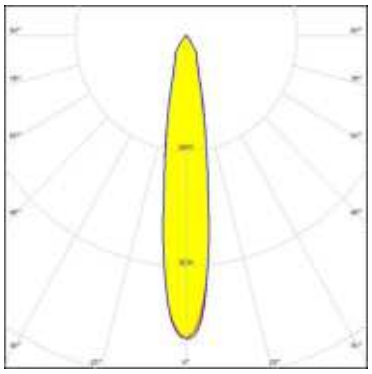
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CREE LEDs

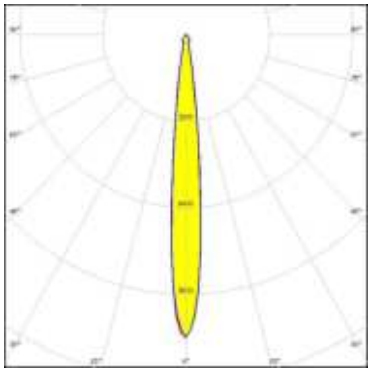
LED	CXA/B 15xx
FWHM / FWTM	18.0° / 46.0°
Efficiency	85 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C14115_PF-SOCKET-CXA15-18	
C13333_MIRELLA-CL	



Light distribution files

CREE LEDs

LED	XHP50.2
FWHM / FWTM	11.0° / 22.0°
Efficiency	90 %
Peak intensity	11.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON CoB Compact
FWHM / FWTM	13.0° / 30.0°
Efficiency	89 %
Peak intensity	7.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13761_PF-SOCKET-CXA15	

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 CoB Compact
FWHM / FWTM	15.0° / 36.0°
Efficiency	84 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13761_PF-SOCKET-CXA15
C12479_MIRELLA-DL

Light distribution files

LUMILEDS

LED	LUXEON CoB Compact
FWHM / FWTM	23.0° / 63.0°
Efficiency	79 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18
C12479_MIRELLA-DL

Light distribution files

Bender Wirth: 452 Typ L1

LUMILEDS

LED	LUXEON CoB Compact
FWHM / FWTM	13.0° / 28.0°
Efficiency	84 %
Peak intensity	7.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13761_PF-SOCKET-CXA15
C13333_MIRELLA-CL

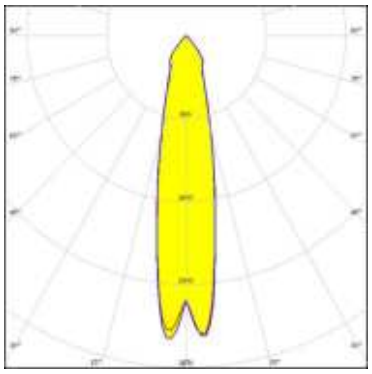
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

LUMILEDS

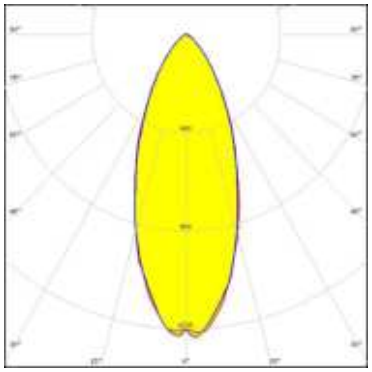
LED	LUXEON K4
FWHM / FWTM	24.0° / 72.0°
Efficiency	88 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13761_PF-SOCKET-CXA15	



Light distribution files

LUMILEDS

LED	LUXEON K4
FWHM / FWTM	42.0° / 87.0°
Efficiency	84 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13761_PF-SOCKET-CXA15	
C12479_MIRELLA-DL	



Light distribution files

LUMINUS

LED	CxM-14 (19x19)
FWHM / FWTM	33.0° / 72.0°
Efficiency	69 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
C12479_MIRELLA-DL	

Light distribution files

Bender Wirth: 433 Typ L1

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

OPTICAL RESULTS (SIMULATED):

LUMINUS

LED	CxM-14 (19x19)
FWHM / FWTM	31.0° / 70.0°
Efficiency	72 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL

Light distribution files

Bender Wirth: 433 Typ L1

LUMINUS

LED	CxM-14 (19x19)
FWHM / FWTM	29.0° / 72.0°
Efficiency	76 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18

Light distribution files

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	20.0° / 61.0°
Efficiency	80 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL

Light distribution files

Bender Wirth: 434 Typ L1

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

OPTICAL RESULTS (SIMULATED):

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	21.0° / 63.0°
Efficiency	84 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1

Light distribution files

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	27.0° / 67.0°
Efficiency	77 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18

C12479_MIRELLA-DL

Light distribution files

Bender Wirth: 434 Typ L1

NICHIA

LED	COB S-Type (LES 7)
FWHM / FWTM	23.0° / 63.0°
Efficiency	79 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18

C12479_MIRELLA-DL

Light distribution files

Bender Wirth: 452 Typ L1

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

OPTICAL RESULTS (SIMULATED):

NICHIA

LED	COB S-Type (LES 7)
FWHM / FWTM	19.0° / 49.0°
Efficiency	87 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	

Bender Wirth: 452 Typ L1

Light distribution files

NICHIA

LED	COB S-Type (LES 7)
FWHM / FWTM	15.0° / 41.0°
Efficiency	83 %
Peak intensity	4.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
C13333_MIRELLA-CL	

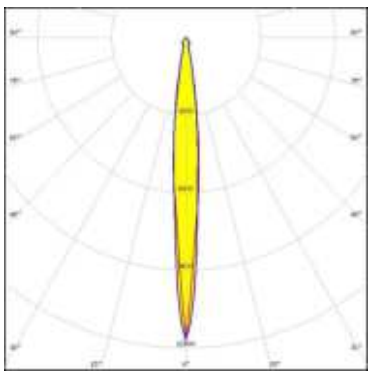
Light distribution files

Bender Wirth: 452 Typ L1

OSRAM

LED	Duris S8
FWHM / FWTM	9.5° / 24.0°
Efficiency	94 %
Peak intensity	12.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	





Light distribution files

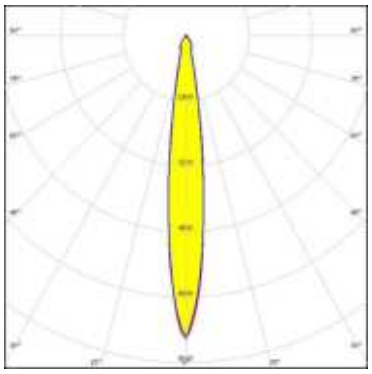
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

OSRAM

LED	Duris S8
FWHM / FWTM	14.0° / 29.0°
Efficiency	90 %
Peak intensity	7.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	
C12479_MIRELLA-DL	

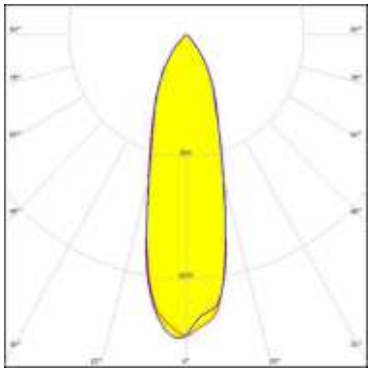




Light distribution files

OSRAM

LED	Soleriq S15
FWHM / FWTM	28.0° / 74.0°
Efficiency	85 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	

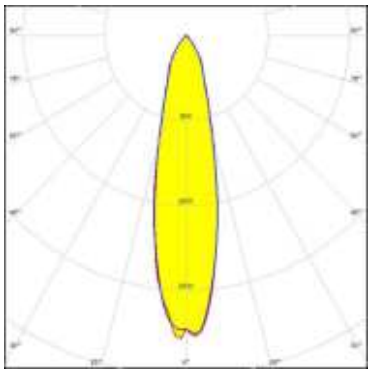


Bender Wirth: 433 Typ L1

Light distribution files

OSRAM

LED	Soleriq S9
FWHM / FWTM	24.0° / 61.0°
Efficiency	87 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	
C13333_MIRELLA-CL	



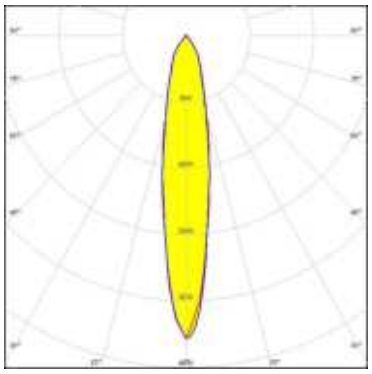
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

OSRAM

LED	Soleriq S9
FWHM / FWTM	19.0° / 56.0°
Efficiency	87 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	

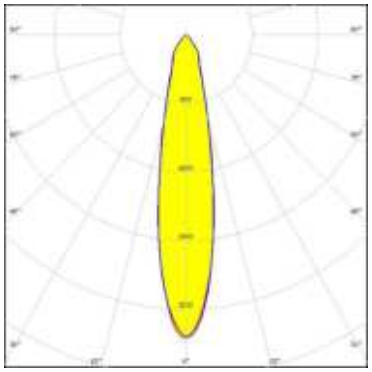


Bender Wirth: 434 Typ L1

Light distribution files

OSRAM

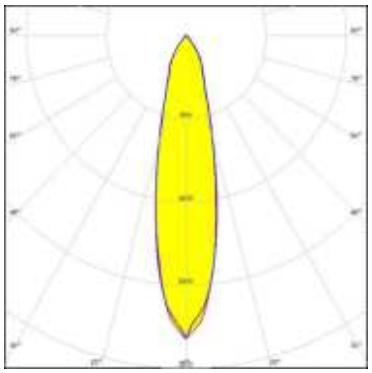
LED	Soleriq S9
FWHM / FWTM	21.0° / 54.0°
Efficiency	91 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	



Light distribution files

OSRAM

LED	Soleriq S9
FWHM / FWTM	24.0° / 61.0°
Efficiency	86 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13083_PF-SOCKET	
C12479_MIRELLA-DL	



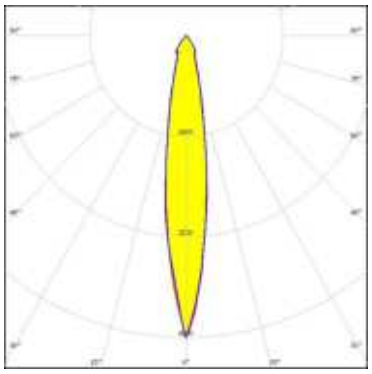
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LC010C
FWHM / FWTM	16.0° / 41.0°
Efficiency	87 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	

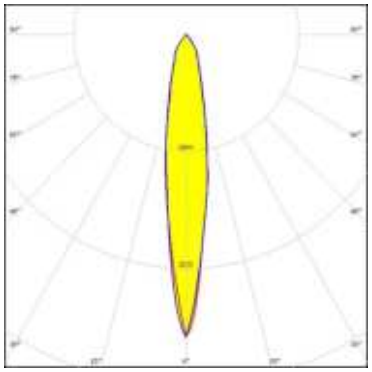


Bender Wirth: 479 Typ L1

Light distribution files

SAMSUNG

LED	LC020C
FWHM / FWTM	16.0° / 49.0°
Efficiency	86 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	

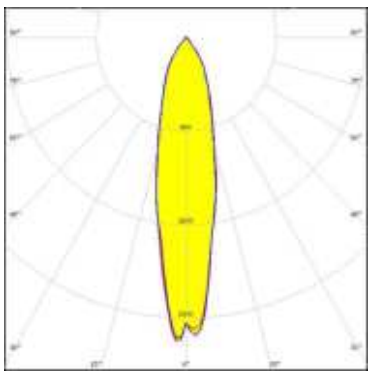


Bender Wirth: 479 Typ L1

Light distribution files

SAMSUNG

LED	LC040C
FWHM / FWTM	23.0° / 66.0°
Efficiency	84 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13709_PF-SOCKET-VERO13-18	



Bender Wirth: 480 Typ L1

Light distribution files

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

OPTICAL RESULTS (SIMULATED):

LED	ZC4/6
FWHM / FWTM	21.0° / 63.0°
Efficiency	84 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1

LED	ZC4/6
FWHM / FWTM	27.0° / 67.0°
Efficiency	77 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18

C12479_MIRELLA-DL

Bender Wirth: 434 Typ L1

LED	ZC4/6
FWHM / FWTM	20.0° / 61.0°
Efficiency	80 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13709_PF-SOCKET-VERO13-18

C13333_MIRELLA-CL

Bender Wirth: 434 Typ L1

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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.

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.

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LEDiL Oy
Joensuunkatu 7
FI-24100 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

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