RONDA-ZT45

Double asymmetric beam for wall-washing and aisle lighting with holder A compatible with 3rd party connectors from TE, Bender+Wirth and IDEAL

SPECIFICATION:

Dimensions	Ø 69.9
Height	15 mm
Fastening	socket
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
F15159_RONDA-ZT45	Single lens	PMMA	clear		
F15155_RONDA-HLD-A	Holder	PC	white		

ORDERING INFORMATION:

Quantities for one set:

Single lens	1
Holder	1

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

Component		Qty in box	MOQ	MPQ	Box weight (kg)
F15159_RONDA-ZT45 » Box size: 480 x 280 x 300 mm	Single lens	420	120	30	6.5
F15155_RONDA-HLD-A » Box size: 480 x 280 x 300 mm	Holder	420	120	30	4.4

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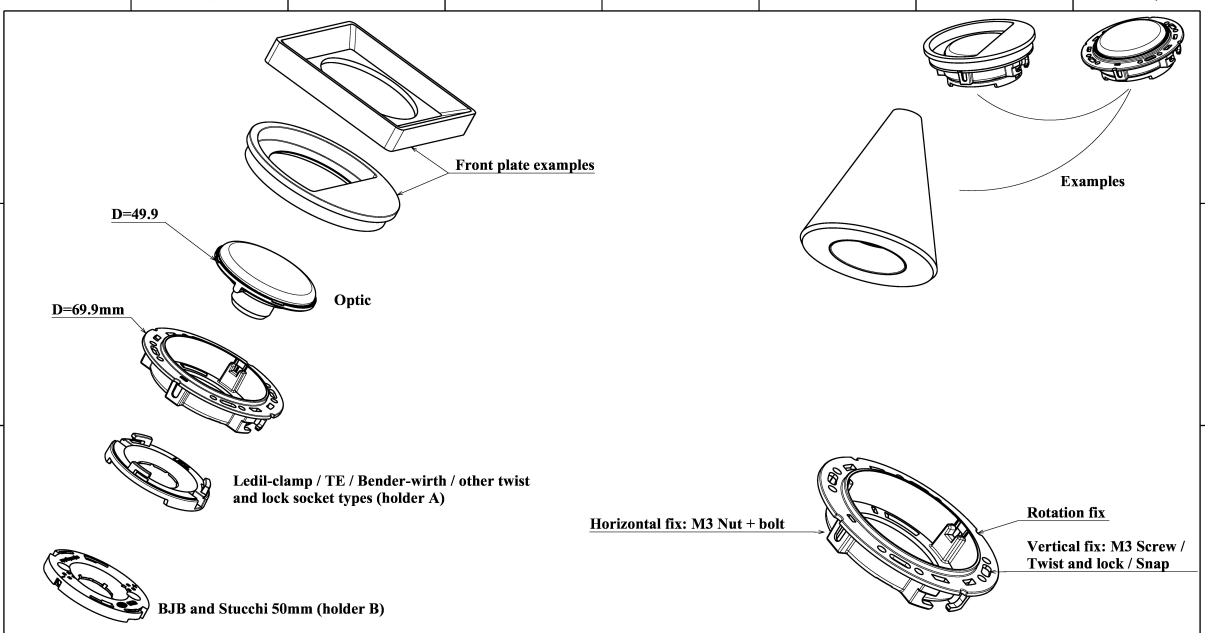

LES size up to ~14mm, see compatibility www.ledil.com

See more details on page 2 and 3

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

THIRD ANGLE PROJECTION:

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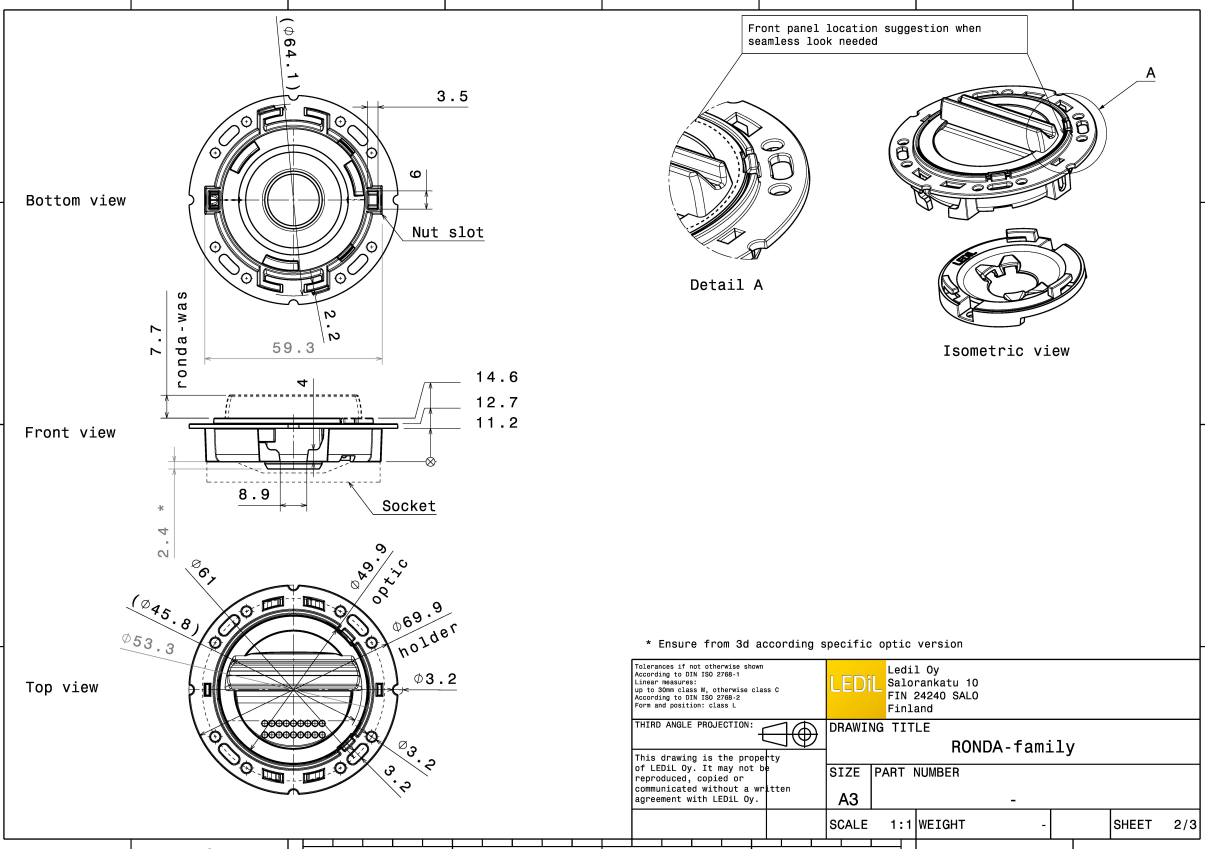
Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE: RONDA-family

SIZE: A3 | PART NUMBER: - | SCALE: 1:1 | WEIGHT: - | SHEET: 1/3



* Ensure from 3d according specific optic version

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

THIRD ANGLE PROJECTION:

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Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE: RONDA-family

SIZE: A3 | PART NUMBER: - | SCALE: 1:1 | WEIGHT: - | SHEET: 2/3

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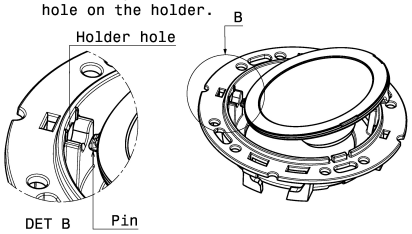
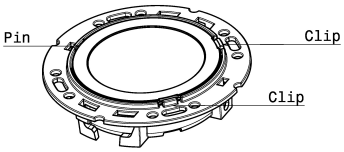
OPTIC/HOLDER ASSEMBLY

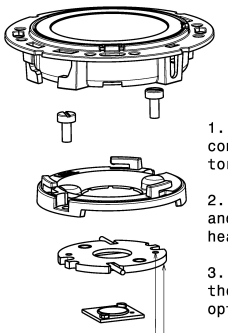
1. Place pin on the side of the lens into relative hole on the holder.



2. Press the lens under clips on the holder, ensuring both clips are fixed.



TYPICAL CONNECTOR ASSEMBLY (including solderless BENDER WIRTH as example)



1. Ensure correct relation of clamp and connector before screwing. Recommended torque 0.6Nm.

2. Assemble LED, BENDER&WIRTH connector and C13658_CLAMP-VERO13-18 clamp on heatsink with M3 screw.

3. Attach optic by aligning the holes in the holder with hooks and turning the optic holder clockwise until it locks.

Bender&Wirth model 4xx Typ L1

Align clamp positioning pin with holes in the connector.

Tolerances if not otherwise shown According to DIN ISO 2768-1 Linear measures: up to 30mm class M, otherwise class C According to DIN ISO 2768-2 Form and position: class L	LEDiL	Ledil Oy Salorankatu 10 FIN 24240 SALO Finland
THIRD ANGLE PROJECTION:	DRAWING TITLE	RONDA-family
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.	SIZE A3	PART NUMBER -
	SCALE 1:1	WEIGHT - / SHEET 3/3

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

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OPTICAL RESULTS (MEASURED):

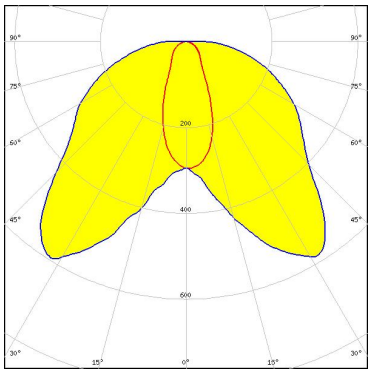
bridgelux

LED	V10 Gen7
FWHM / FWTM	Asymmetric
Efficiency	88 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 486 Typ L1



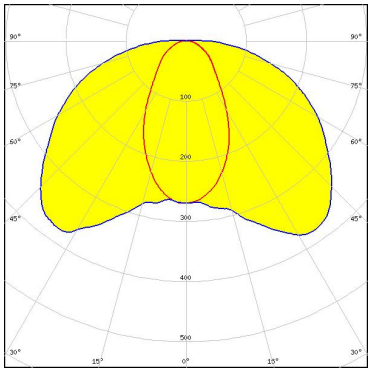
Light distribution files

bridgelux

LED	V13 Gen7
FWHM / FWTM	Asymmetric
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



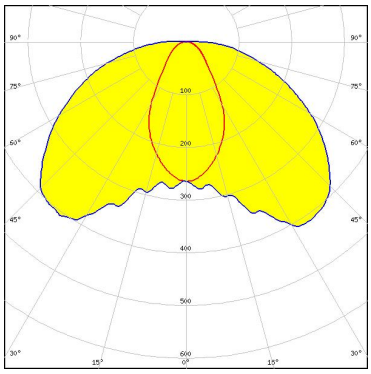
Light distribution files

bridgelux

LED	Vero SE 13
FWHM / FWTM	Asymmetric
Efficiency	88 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16402_CLAMP-VEROSE-13-18



Light distribution files

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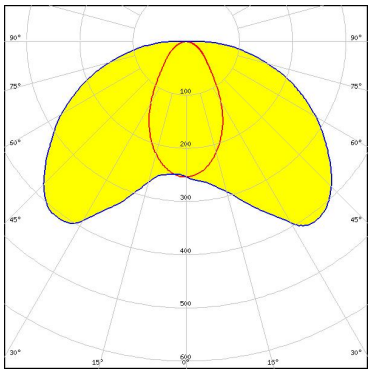
OPTICAL RESULTS (MEASURED):

bridgelux

LED	VERO13
FWHM / FWTM	Asymmetric
Efficiency	89 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C13658_CLAMP-VERO13-18

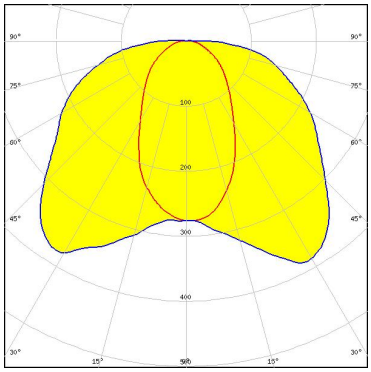


Light distribution files

CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	Asymmetric
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
IDEAL: 50-2103CT + 50-2100AN

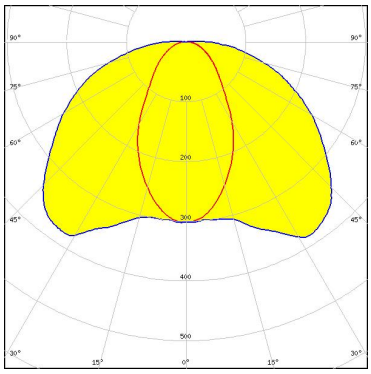


Light distribution files

CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	Asymmetric
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C16791_CLAMP-Z45-A
TE Connectivity: 2325807-3



Light distribution files

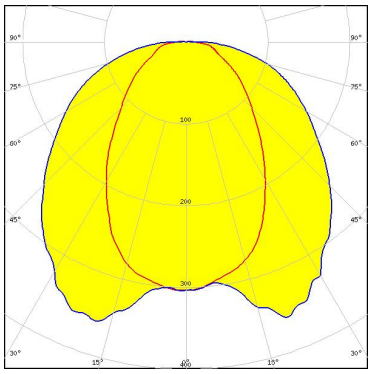
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLL04x/CLU04x
FWHM / FWTM	Asymmetric
Efficiency	84 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
IDEAL: 50-2204-CT + 50-2100AN

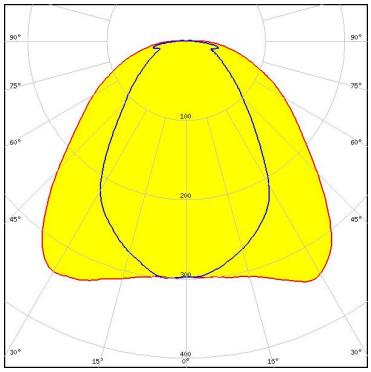


Light distribution files

CITIZEN

LED	CLU730/731/733
FWHM / FWTM	Asymmetric
Efficiency	85 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
IDEAL: 50-2204-CT + 50-2100AN

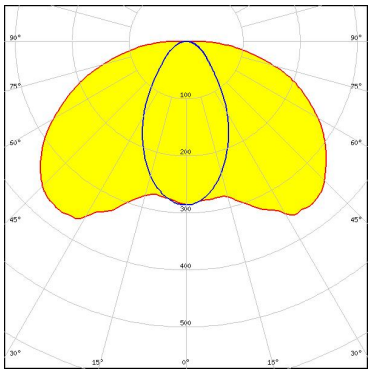


Light distribution files

CREE LEDs

LED	CMA1840
FWHM / FWTM	Asymmetric
Efficiency	89 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14123_CLAMP-CXA15-18



Light distribution files

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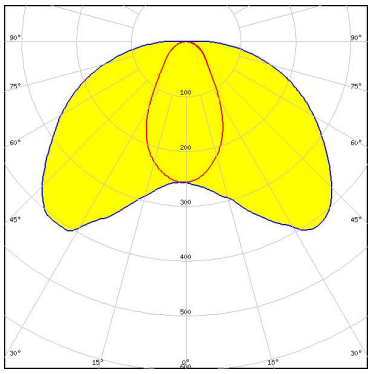
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	Asymmetric
Efficiency	87 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



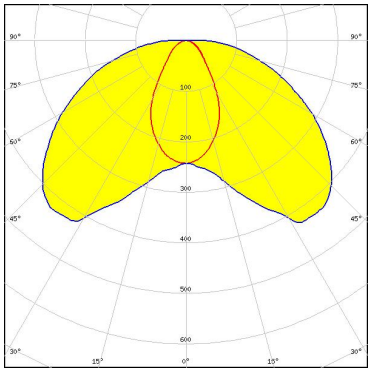
Light distribution files

CREE LEDs

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	Asymmetric
Efficiency	90 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C14123_CLAMP-CXA15-18



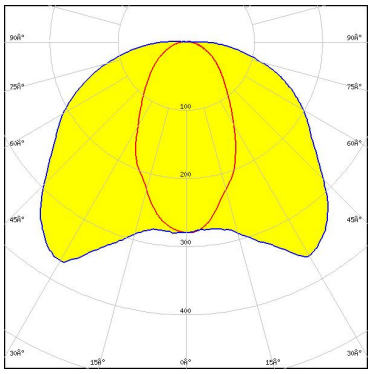
Light distribution files

inventronics

LED	PrevaLED Core G7 L15 H1
FWHM / FWTM	Asymmetric
Efficiency	78 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16685_CLAMP-PRV-A



Light distribution files

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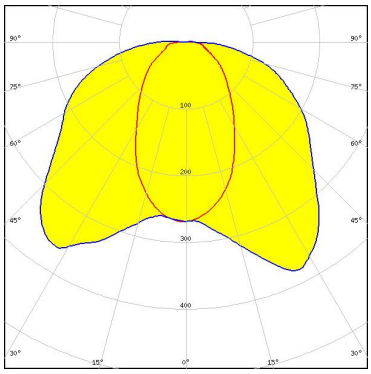
OPTICAL RESULTS (MEASURED):

NICHIA

LED	COB J-Type
FWHM / FWTM	Asymmetric
Efficiency	83 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
IDEAL: 50-2103NC + 50-2100AN

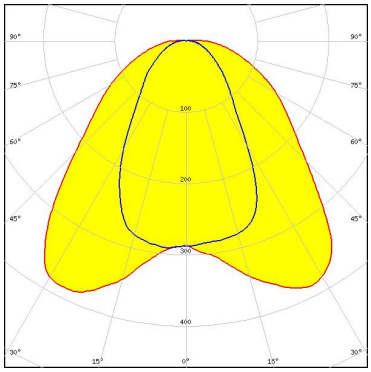


Light distribution files

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	Asymmetric
Efficiency	84 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White

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

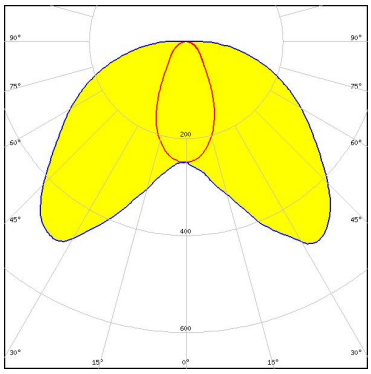


Light distribution files

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	Asymmetric
Efficiency	87 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

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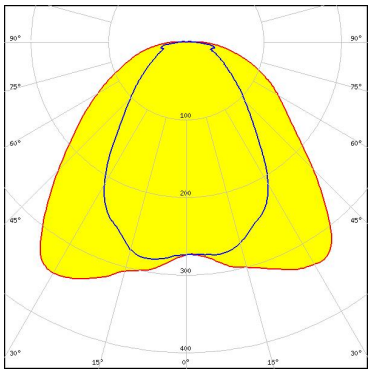
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	Asymmetric
Efficiency	84 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
IDEAL: 50-2103CT + 50-2100AN

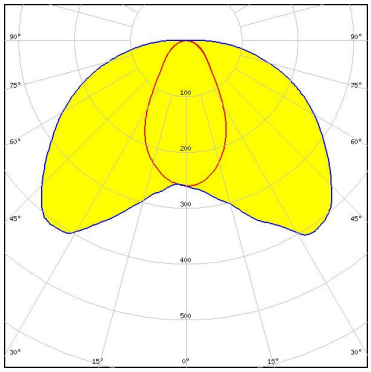


Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	Asymmetric
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1

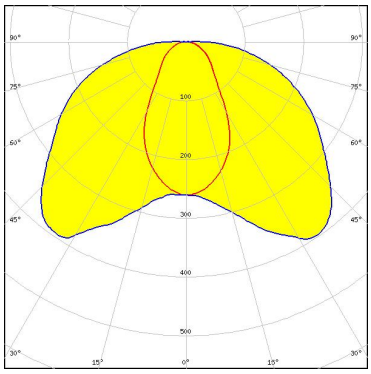


Light distribution files

PHILIPS

LED	Fortimo SLM L13 + SLM holder
FWHM / FWTM	Asymmetric
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

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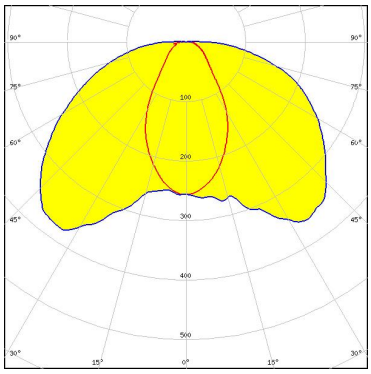
OPTICAL RESULTS (MEASURED):

PHILIPS

LED	Fortimo SLM L13 CoB
FWHM / FWTM	Asymmetric
Efficiency	83 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



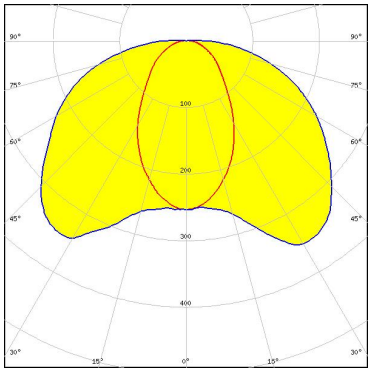
Light distribution files

PHILIPS

LED	Fortimo SLM L15 + SLM holder
FWHM / FWTM	Asymmetric
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



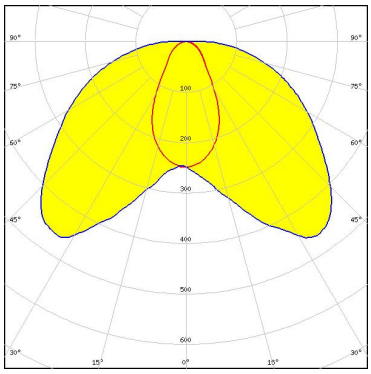
Light distribution files

SAMSUNG

LED	LC040C
FWHM / FWTM	Asymmetric
Efficiency	88 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

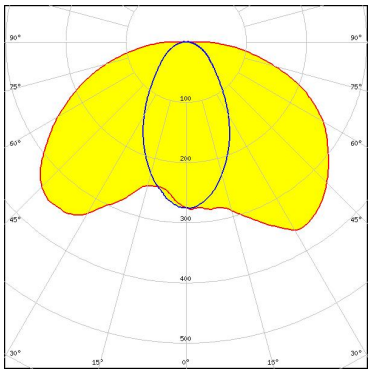
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	AC Zhaga COB
FWHM / FWTM	Asymmetric
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
Optosource: SEHSMJD-A

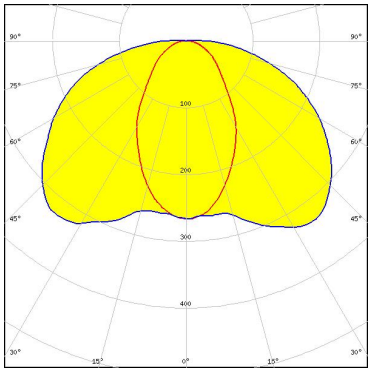


Light distribution files

SEOUL SEMICONDUCTOR

LED	MJT COB LES 14.5
FWHM / FWTM	Asymmetric
Efficiency	81 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1

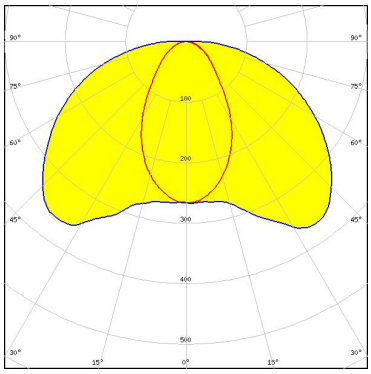


Light distribution files

LIGHTING SOLUTIONS

LED	WU-M-484
FWHM / FWTM	Asymmetric
Efficiency	85 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



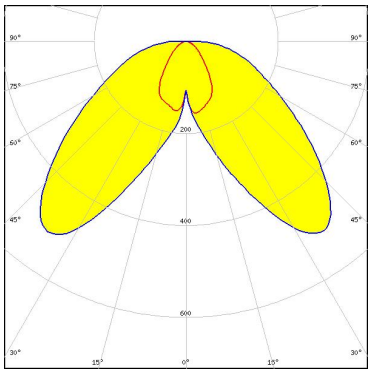
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

bridgelux

LED	V10 Gen6
FWHM / FWTM	Asymmetric
Efficiency	86 %
LEDs/each optic	1
Light colour/type	White
Required components:	
C13658_CLAMP-VERO13-18	

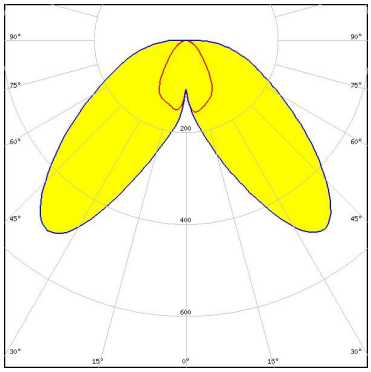


Bender Wirth: 455 Typ L1

Light distribution files

bridgelux

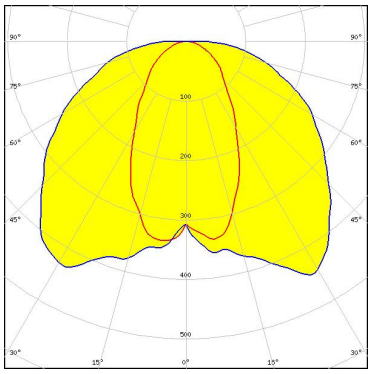
LED	V10 Gen6
FWHM / FWTM	Asymmetric
Efficiency	86 %
LEDs/each optic	1
Light colour/type	White
Required components:	
C14123_CLAMP-CXA15-18	



Light distribution files

bridgelux

LED	V13 Gen7
FWHM / FWTM	Asymmetric
Efficiency	90 %
LEDs/each optic	1
Light colour/type	White
Required components:	



IDEAL: 50-2103CT + 50-2100AN

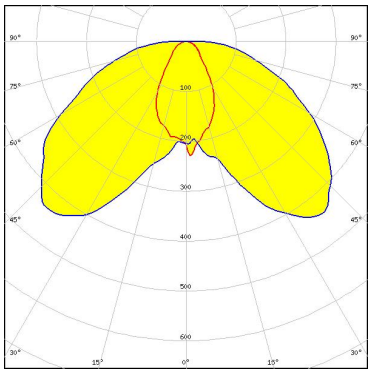
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

bridgelux

LED	V13 Gen7
FWHM / FWTM	Asymmetric
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13658_CLAMP-VERO13-18	

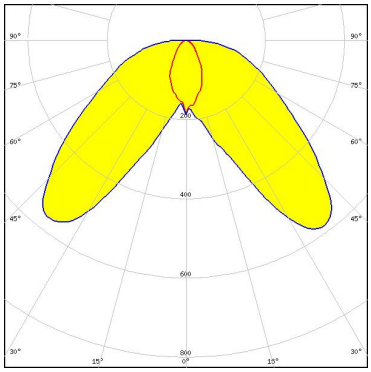


Bender Wirth: 477 Typ L1

Light distribution files

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	Asymmetric
Efficiency	86 %
LEDs/each optic	1
Light colour/type	White
Required components:	
C13658_CLAMP-VERO13-18	

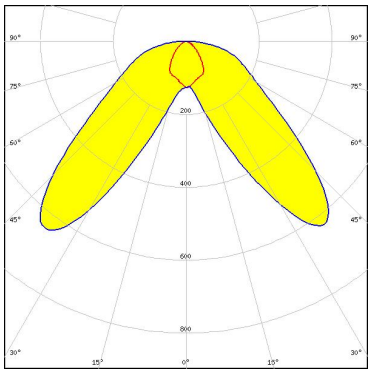


Bender Wirth: 434 Typ L1

Light distribution files

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	Asymmetric
Efficiency	87 %
LEDs/each optic	1
Light colour/type	White
Required components:	
C13658_CLAMP-VERO13-18	



Bender Wirth: 434 Typ L1

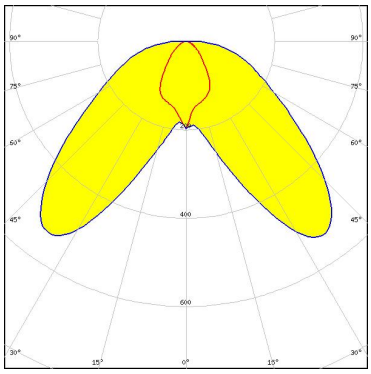
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CITIZEN

LED	CLU710/711
FWHM / FWTM	Asymmetric
Efficiency	87 %
LEDs/each optic	1
Light colour/type	White
Required components:	
C13658_CLAMP-VERO13-18	

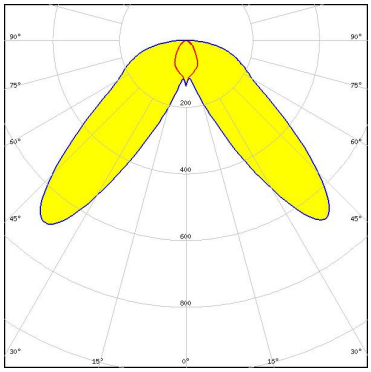


Bender Wirth: 470 Typ L1

Light distribution files

CREE LEDs

LED	CXA/B 13xx
FWHM / FWTM	Asymmetric
Efficiency	88 %
LEDs/each optic	1
Light colour/type	White
Required components:	
C13658_CLAMP-VERO13-18	



Bender Wirth: 448 Typ L1

Light distribution files

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	42.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	
C14123_CLAMP-CXA15-18	

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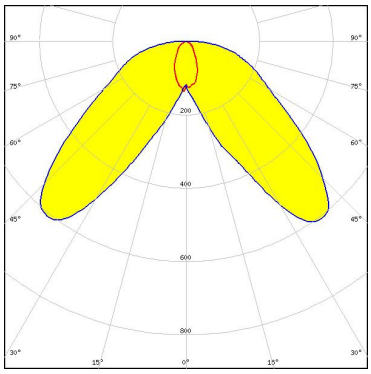
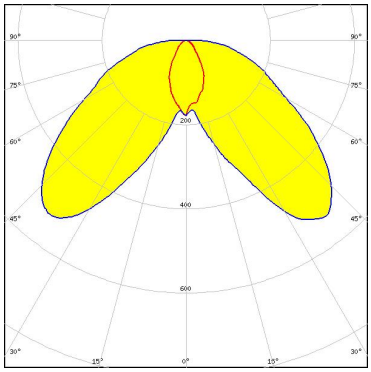
OPTICAL RESULTS (SIMULATED):

LED	CXA/B 15xx
FWHM / FWTM	Asymmetric
Efficiency	87 %
LEDs/each optic	1
Light colour/type	White
Required components:	
C14123_CLAMP-CXA15-18	



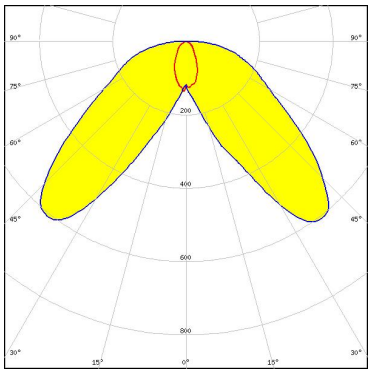
Light distribution files

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	Asymmetric
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	
TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1	



Light distribution files

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	Asymmetric
Efficiency	87 %
LEDs/each optic	1
Light colour/type	White
Required components:	
C14123_CLAMP-CXA15-18	



Light distribution files

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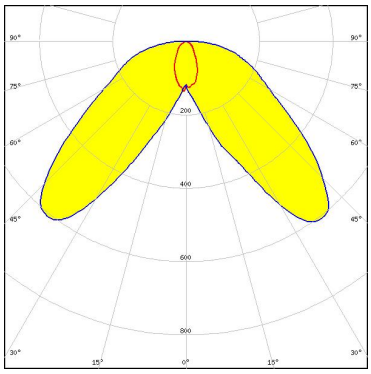
OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	CXA/B 1830
FWHM / FWTM	Asymmetric
Efficiency	85 %
LEDs/each optic	1
Light colour/type	White
Required components:	
C14123_CLAMP-CXA15-18	

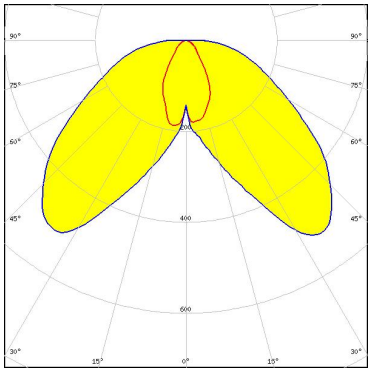


Light distribution files

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	Asymmetric
Efficiency	86 %
LEDs/each optic	1
Light colour/type	White
Required components:	

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

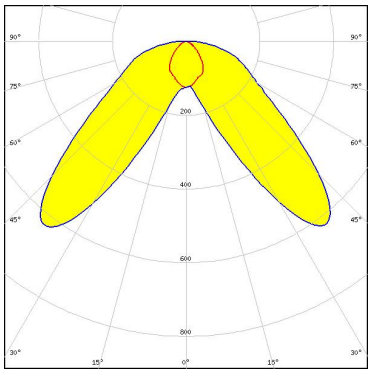


Light distribution files

LUMILEDS

LED	LUXEON CoB 1202s
FWHM / FWTM	Asymmetric
Efficiency	87 %
LEDs/each optic	1
Light colour/type	White
Required components:	
C13658_CLAMP-VERO13-18	

Bender Wirth: 452 Typ L1



Light distribution files

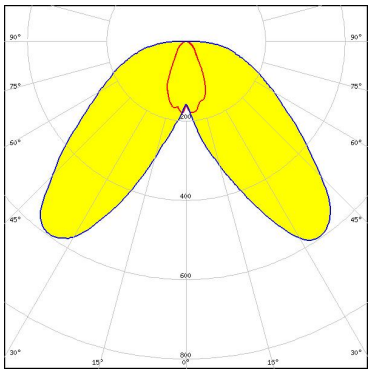
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	Asymmetric
Efficiency	85 %
LEDs/each optic	1
Light colour/type	White
Required components:	

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

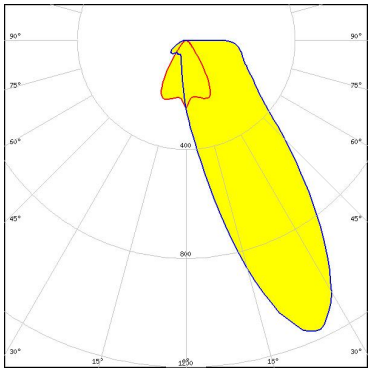


Light distribution files

NICHIA

LED	NSCxL036A
FWHM / FWTM	Asymmetric
Efficiency	87 %
LEDs/each optic	1
Light colour/type	White
Required components:	

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

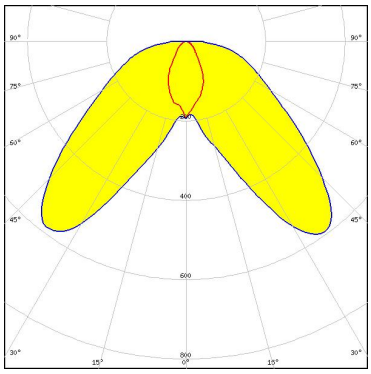


Light distribution files

SHARP

LED	Mini Zenigata (GW6BM)
FWHM / FWTM	Asymmetric
Efficiency	86 %
LEDs/each optic	1
Light colour/type	White
Required components:	
C13658_CLAMP-VERO13-18	

Bender Wirth: 452 Typ L1



Light distribution files

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GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

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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