RONDA-WW

~60° wide beam with holder A compatible with 3rd party connectors from TE, Bender+Wirth and IDEAL

SPECIFICATION:

Dimensions	Ø 69.9 mm
Height	14.6 mm
Fastening	socket
ROHS compliant	yes ⓘ

MATERIALS:

Component	Type	Material	Colour	Finish
F15282_RONDA-WW	Single lens	PMMA	clear	
F15155_RONDA-HLD-A	Holder	PC	white	

ORDERING INFORMATION:

Quantities for one set:

Single lens	1
Holder	1

Component		Qty in box	MOQ	MPQ	Box weight (kg)
F15282_RONDA-WW	Single lens	420	120	30	7.2
» Box size: 480 x 280 x 300 mm					
F15155_RONDA-HLD-A	Holder	420	120	30	4.4
» Box size: 480 x 280 x 300 mm					

LEDiL®

Front plate examples

Examples

D=49.9 — Optic

D=69.9mm

Ledil-clamp / TE / Bender-wirth / other twist
and lock socket types (holder A)

Horizontal fix: M3 Nut + bolt

Rotation fix

Vertical fix: M3 Screw /
Twist and lock / Snap

BJB and Stucchi 50mm (holder B)

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	Ledil Oy Salorankatu 10 FIN 24240 SALO Finland		
THIRD ANGLE PROJECTION:	DRAWING TITLE RONDA-family		
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	SCALE 1:1	WEIGHT -	SHEET 1/3

Bottom view

(⌀64.1)

3.5

6

Nut slot

7.7 ronda-was

2.2

59.3

Front panel location suggestion when
seamless look needed

Detail A

A

Isometric view

Front view

14.6
12.7
11.2

4

8.9

2.4 *

Socket

Top view

(⌀45.8)

⌀53.3

⌀61

⌀49.9 optic

⌀69.9 holder

⌀3.2

⌀3.2

3.2

* 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	Ledil Oy Salorankatu 10 FIN 24240 SALO Finland		
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	SCALE 1:1	WEIGHT -	SHEET 2/3

OPTIC/HOLDER ASSEMBLY

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

Holder hole

B

DET B   Pin

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

Pin   Clip

Clip

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 Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

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DRAWING TITLE
RONDA-family

SIZE: A3   PART NUMBER: -

SCALE 1:1   WEIGHT -   SHEET 3/3

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

OPTICAL RESULTS (MEASURED):

bridgelux

LED	V10 Gen7
FWHM / FWTM	47.0° / 74.0°
Efficiency	%
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 486 Typ L1

bridgelux
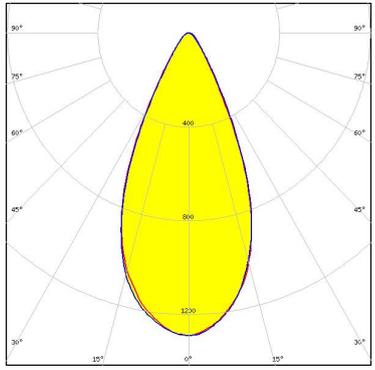
LED	V13 Gen7
FWHM / FWTM	64.0° / 105.0°
Efficiency	82 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

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

bridgelux
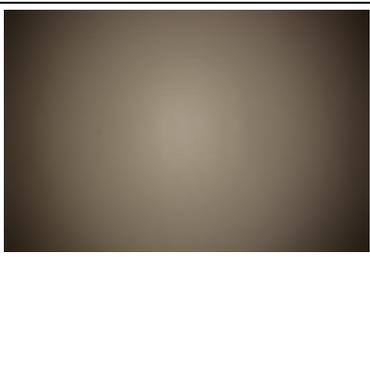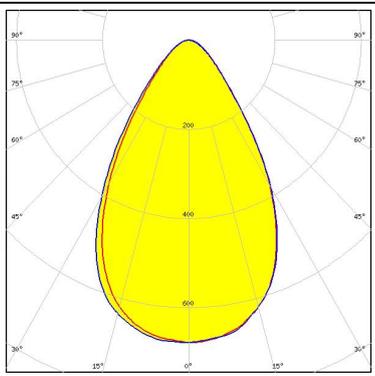
LED	Vero SE 13
FWHM / FWTM	65.0° / 100.0°
Efficiency	90 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C16402_CLAMP-VEROSE-13-18

bridgelux
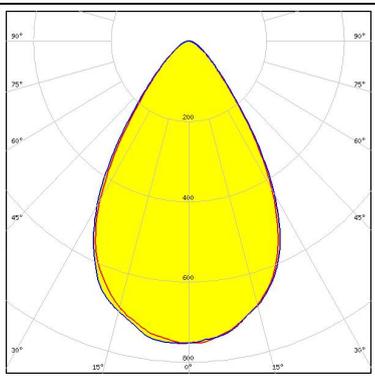
LED	VERO13
FWHM / FWTM	66.0° / 103.0°
Efficiency	88 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18
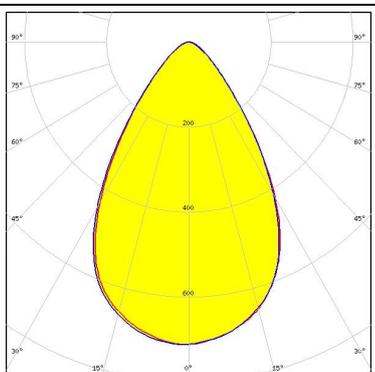
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	59.0° / 110.0°
Efficiency	81 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
IDEAL: 50-2103CT + 50-2100AN	
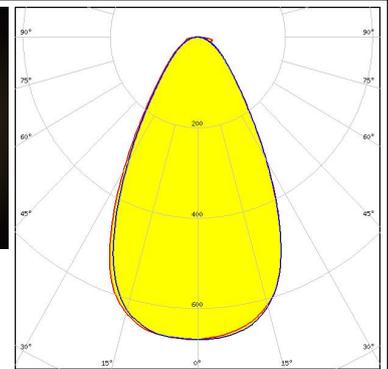
CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	63.0° / 105.0°
Efficiency	87 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16791_CLAMP-Z45-A	
TE Connectivity: 2325807-3	
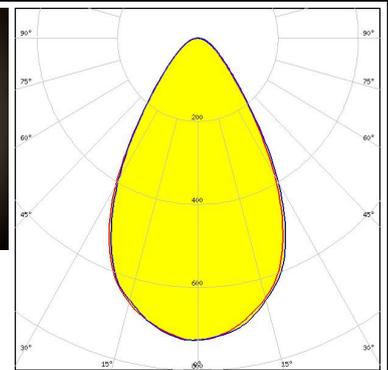
CITIZEN

LED	CLL04x/CLU04x
FWHM / FWTM	66.0° / 130.0°
Efficiency	81 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
IDEAL: 50-2204-CT + 50-2100AN	
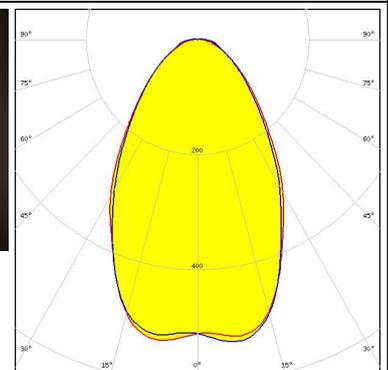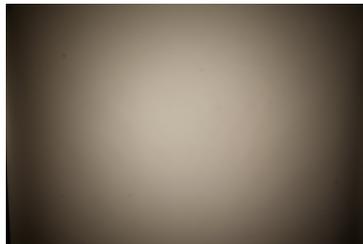
CITIZEN

LED	CLU730/731/733
FWHM / FWTM	58.0° / 103.0°
Efficiency	83 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
IDEAL: 50-2204-CT + 50-2100AN	

OPTICAL RESULTS (MEASURED):

CREE ⇌ LED

LED	CMA1840
FWHM / FWTM	69.0° / 112.0°
Efficiency	89 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C14123_CLAMP-CXA15-18
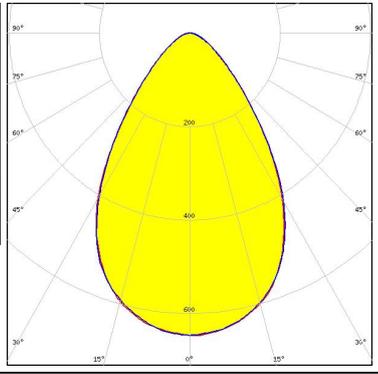
CREE ⇌ LED

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	66.0° / 100.0°
Efficiency	93 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C14123_CLAMP-CXA15-18
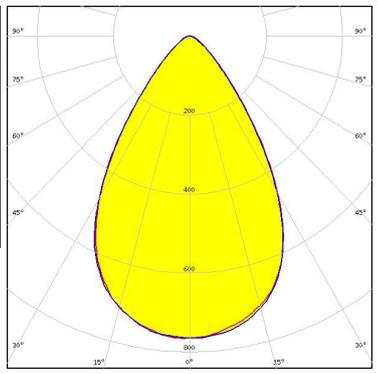
CREE ⇌ LED

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	62.0° / 97.0°
Efficiency	88 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

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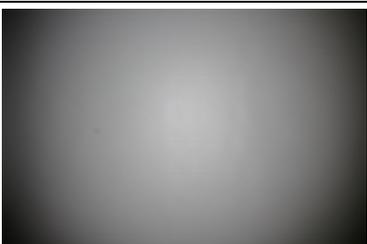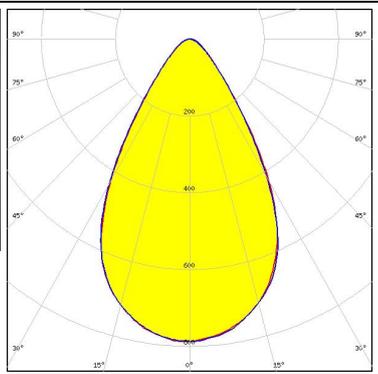
NICHIA

LED	COB J-Type
FWHM / FWTM	60.0° / 113.0°
Efficiency	81 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

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

OPTICAL RESULTS (MEASURED):

NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	50.0° / 81.0°
Efficiency	85 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
IDEAL: 50-2100NC + 50-2100AN	
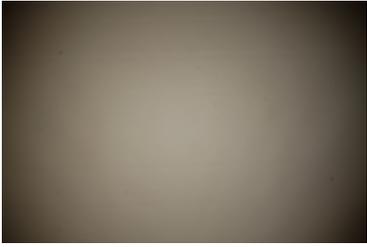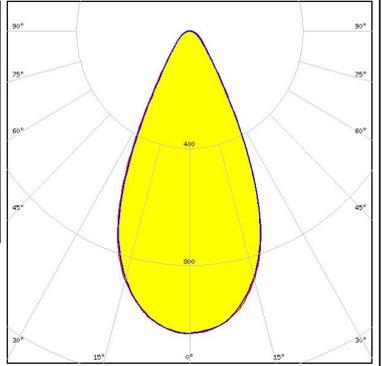
NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	57.0° / 87.0°
Efficiency	88 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1	
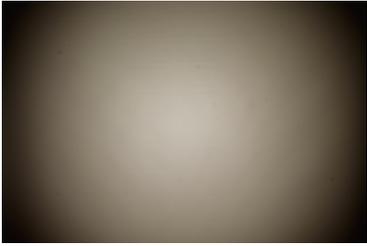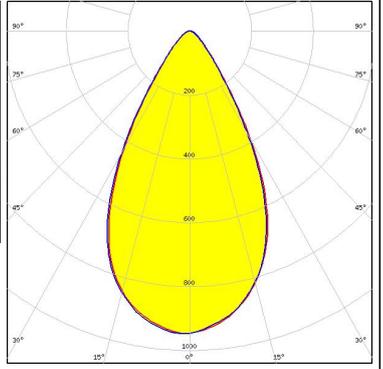
OSRAM

LED	PrevaLED Core G7 L15 H1
FWHM / FWTM	65.0° / 111.0°
Efficiency	86 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16685_CLAMP-PRV-A	
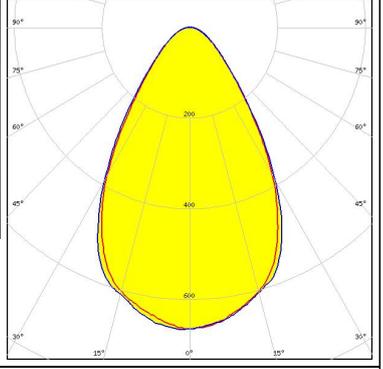
OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	58.0° / 97.0°
Efficiency	85 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
IDEAL: 50-2103CT + 50-2100AN	
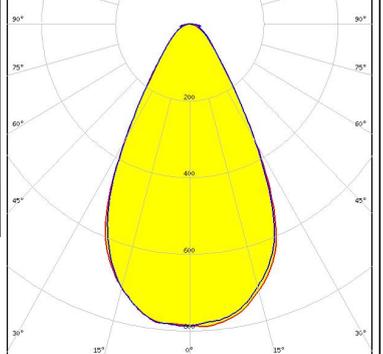
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	63.0° / 99.0°
Efficiency	84 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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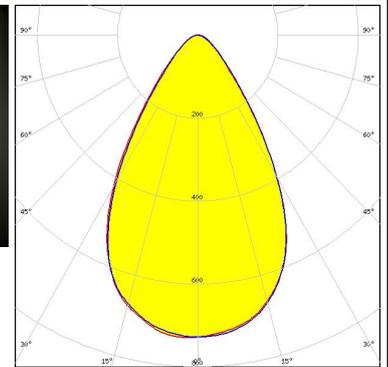
PHILIPS

LED	Fortimo SLM L13 + SLM holder
FWHM / FWTM	61.0° / 101.0°
Efficiency	82 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1
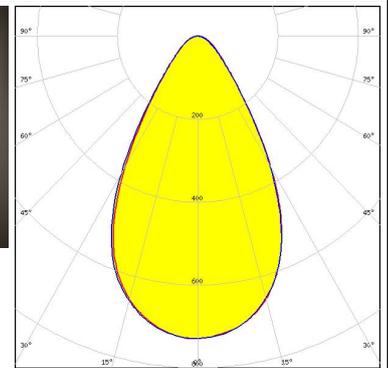
PHILIPS

LED	Fortimo SLM L13 CoB
FWHM / FWTM	66.0 + ° / 103.0°
Efficiency	85 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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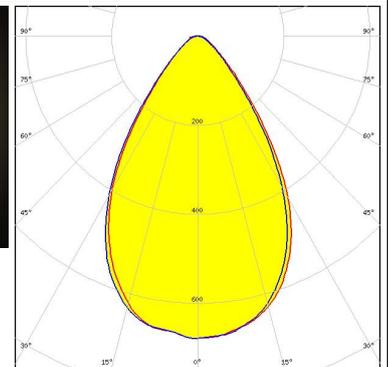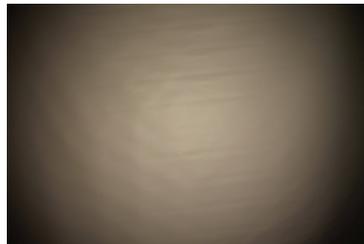
PHILIPS

LED	Fortimo SLM L15 + SLM holder
FWHM / FWTM	66.0° / 114.0°
Efficiency	83 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1
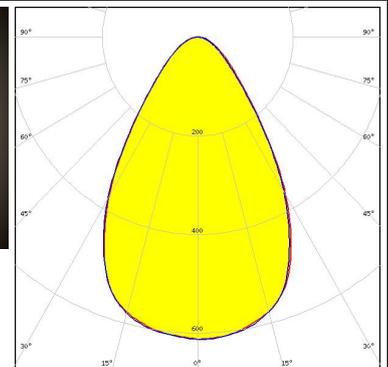
OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LC040C
FWHM / FWTM	60.0° / 93.0°
Efficiency	86 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

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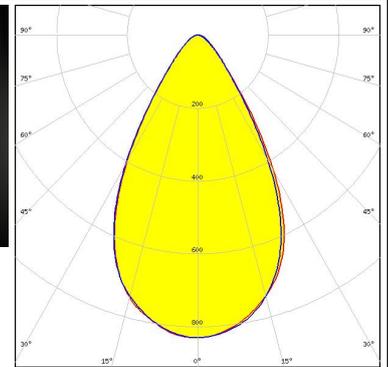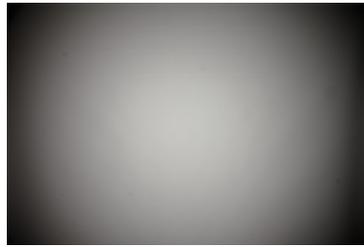
SEOUL SEMICONDUCTOR

LED	AC Zhaga COB
FWHM / FWTM	67.0° / 113.0°
Efficiency	84 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
Optosource: SEHSMJD-A
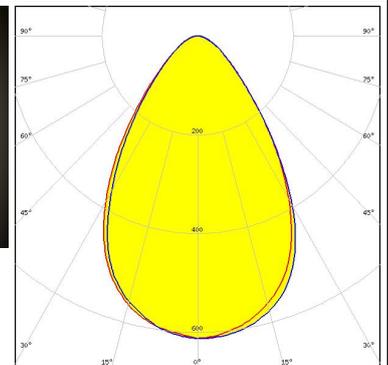
SEOUL SEMICONDUCTOR

LED	MJT COB LES 14.5
FWHM / FWTM	69.0° / 113.0°
Efficiency	80 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

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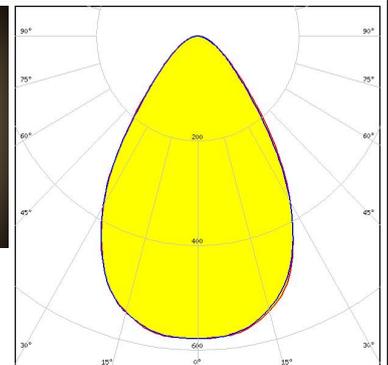
VS LIGHTING SOLUTIONS

LED	WU-M-484
FWHM / FWTM	69.0° / 112.0°
Efficiency	83 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1
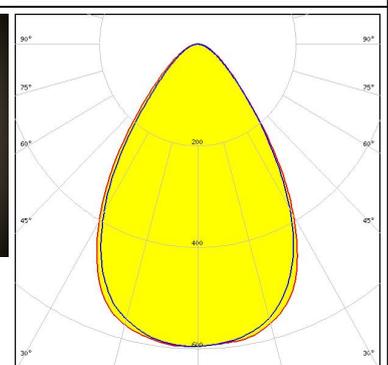
OPTICAL RESULTS (SIMULATED):

bridgelux

|	
LED	V10 Gen6
FWHM / FWTM	60.0°
Efficiency	88 %
LEDs/each optic	1
Light colour	White

Required components:

C14123_CLAMP-CXA15-18
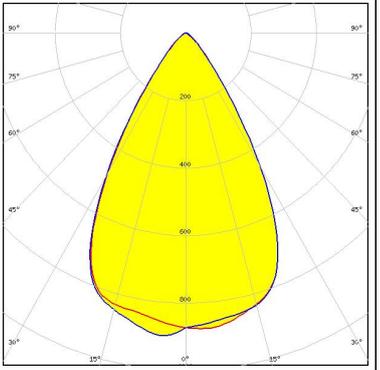
bridgelux

LED	V13 Gen7
FWHM / FWTM	60.0° / 94.0°
Efficiency	88 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 477 Typ L1
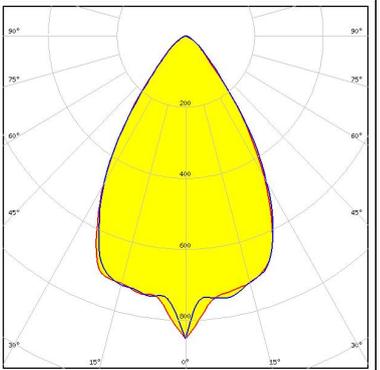
bridgelux

LED	V13 Gen7
FWHM / FWTM	59.0° / 128.0°
Efficiency	89 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

IDEAL: 50-2103CT + 50-2100AN
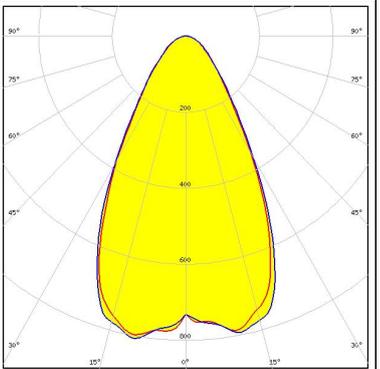
CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	60.0°
Efficiency	88 %
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 434 Typ L1

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OPTICAL RESULTS (SIMULATED):

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	60.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	White

Required components:

   C13658_CLAMP-VERO13-18

   Bender Wirth: 434 Typ L1
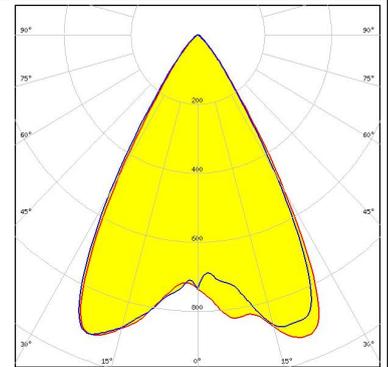
CITIZEN

LED	CLU710/711
FWHM / FWTM	60.0°
Efficiency	88 %
LEDs/each optic	1
Light colour	White

Required components:

   C13658_CLAMP-VERO13-18

   Bender Wirth: 470 Typ L1

CREE⇔LED

LED	CXA/B 13xx
FWHM / FWTM	62.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	White

Required components:

   C13658_CLAMP-VERO13-18

   Bender Wirth: 448 Typ L1
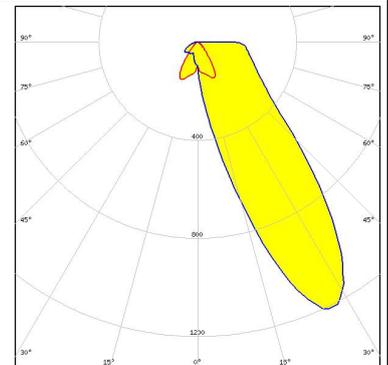
CREE⇔LED

LED	CXA/B 15xx
FWHM / FWTM	62.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	White

Required components:

   C14123_CLAMP-CXA15-18

OPTICAL RESULTS (SIMULATED):

CREE⇔LED

LED	CXA/B 15xx
FWHM / FWTM	62.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 441 Typ L1	
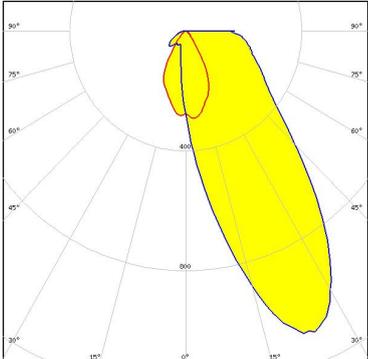
CREE⇔LED

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	63.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 437 Typ L1	
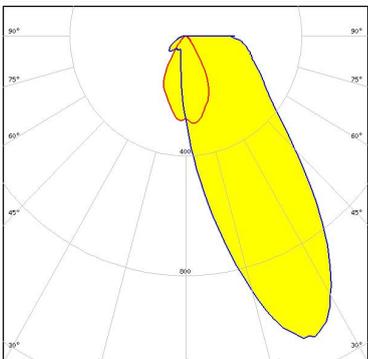
CREE⇔LED

LED	CXA/B 1830
FWHM / FWTM	62.0°
Efficiency	87 %
LEDs/each optic	1
Light colour	White
Required components:	
C14123_CLAMP-CXA15-18	
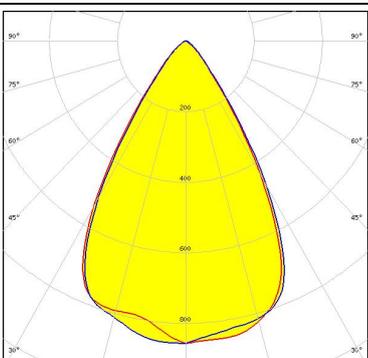
LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	56.0° / 82.0 + 80.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1	

OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON CoB 1202s
FWHM / FWTM	60.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 452 Typ L1	
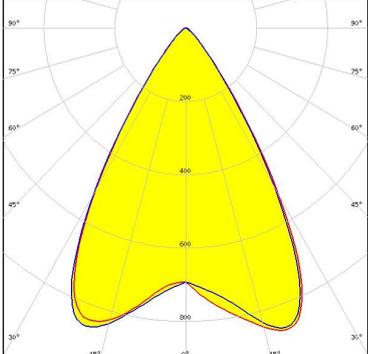
NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	56.0° / 80.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1	
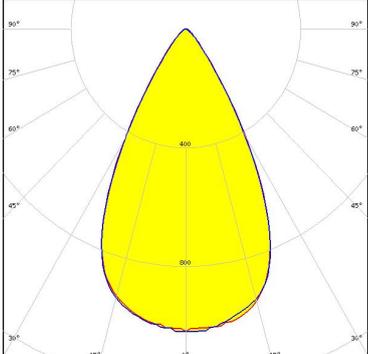
NICHIA

LED	NSCxL036A
FWHM / FWTM	56.0° / 74.0 + 77.0°
Efficiency	88 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1	
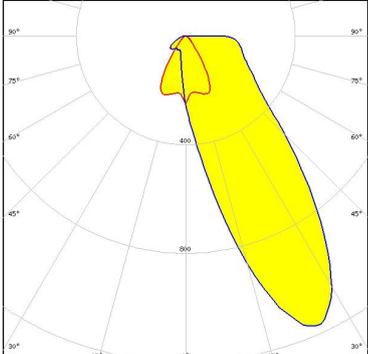
OSRAM
Opto Semiconductors

LED	Duris S10
FWHM / FWTM	66.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	
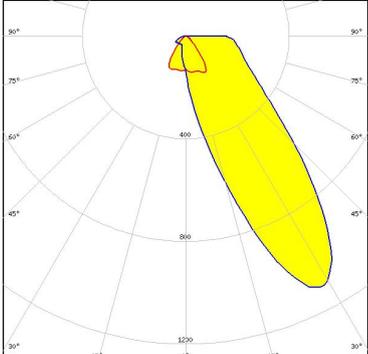
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM / FWTM	63.0°
Efficiency	84 %
LEDs/each optic	1
Light colour	White

Required components:
  C14123_CLAMP-CXA15-18
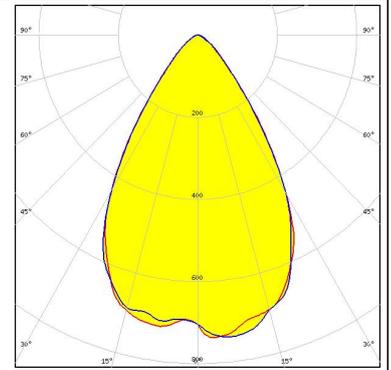
SHARP

LED	Mini Zenigata (GW6BM)
FWHM / FWTM	62.0°
Efficiency	88 %
LEDs/each optic	1
Light colour	White

Required components:
  C13658_CLAMP-VERO13-18
  Bender Wirth: 452 Typ L1
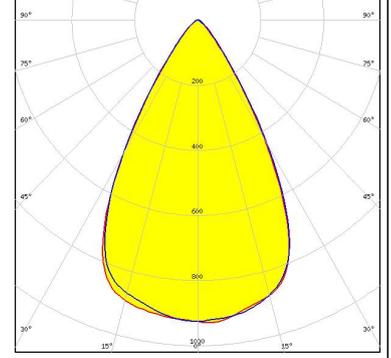
GENERAL INFORMATION:

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

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

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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

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