

WINNIE-O

~60° + 20° oval beam. Holder with 35 mm screw hole distance according to Zhaga standard. Compatible with Bender+Wirth 4xx Typ L5 connector.

SPECIFICATION:

Dimensions	Ø 49.8 mm
Height	19.3 mm
Fastening	screw
ROHS compliant	yes ⓘ



MATERIALS:

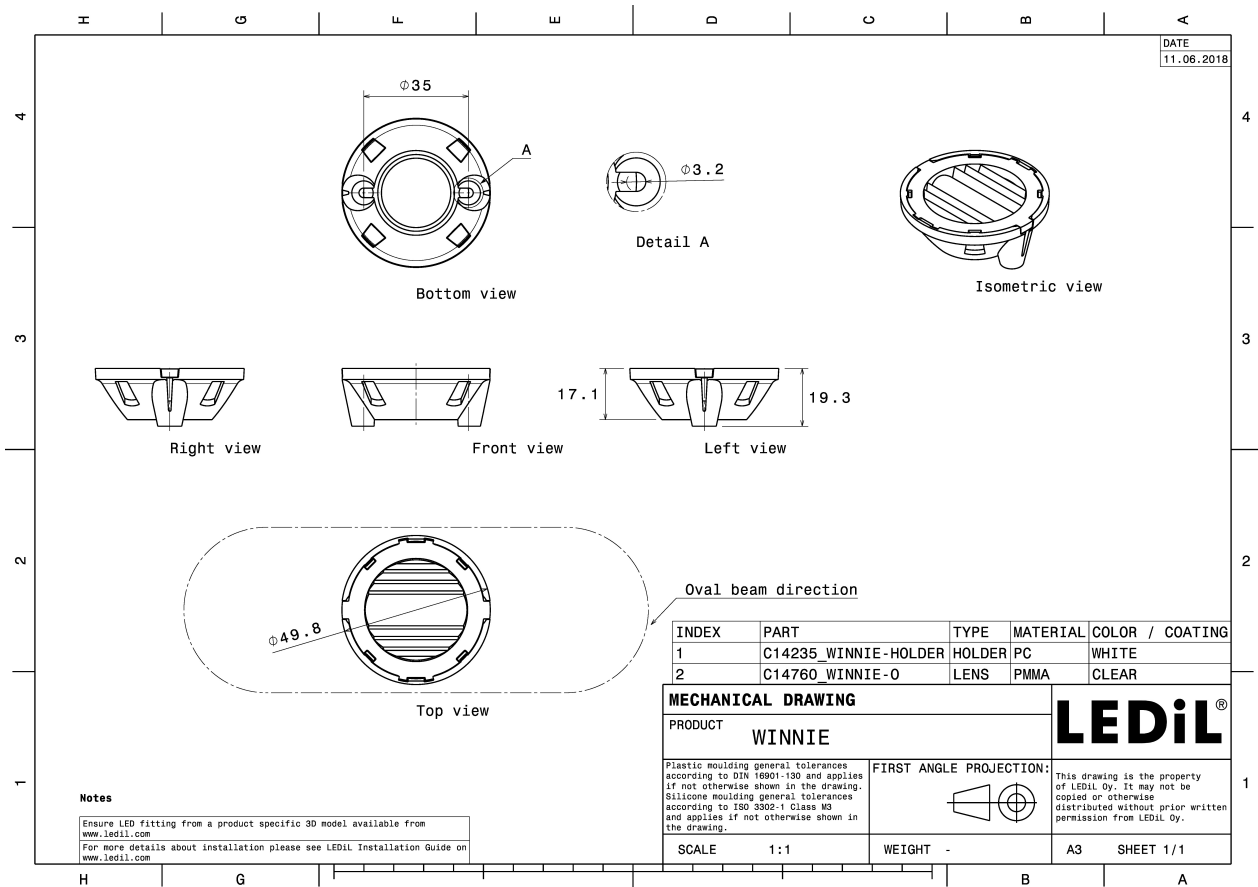
Component	Type	Material	Colour	Finish	Length
C14760_WINNIE-O	Single lens	PMMA	clear		49.6
C14235_WINNIE-HOLDER	Holder	PC	white		49.8

ORDERING INFORMATION:

Quantities for one set:

Single lens	1
Holder	1

Component		Qty in box	MOQ	MPQ	Box weight (kg)
C14760_WINNIE-O	Single lens	364	84	28	7.0
» Box size: 480 x 280 x 300 mm					
C14235_WINNIE-HOLDER	Holder	1820	84	28	7.2
» Box size: 480 x 280 x 300 mm					

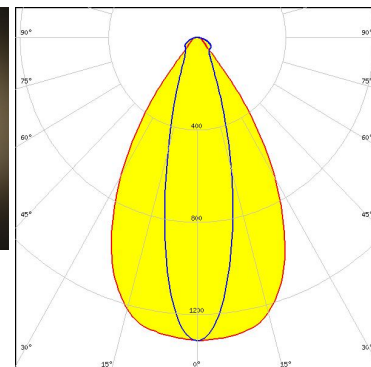
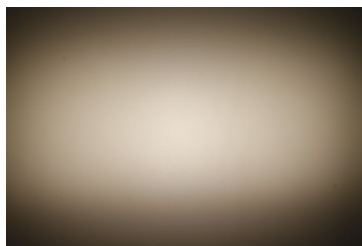


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



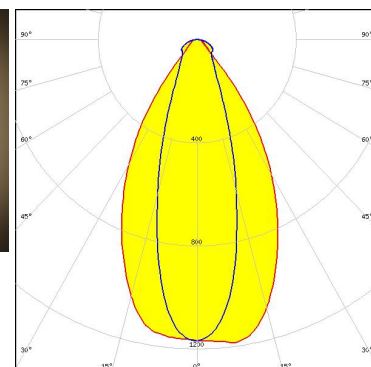
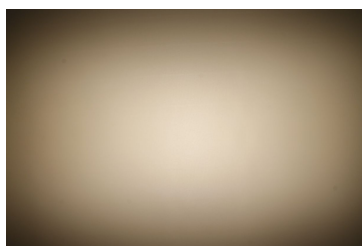
LED V13 Gen6
FWHM / FWTM 62.0 + 27.0° / 85.0 + 60.0°
Efficiency 88 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



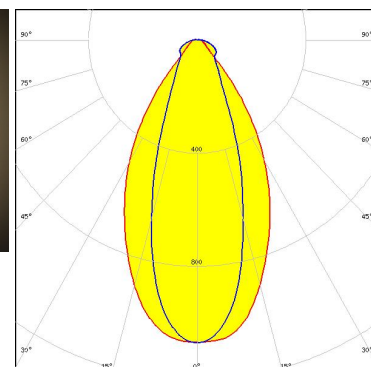
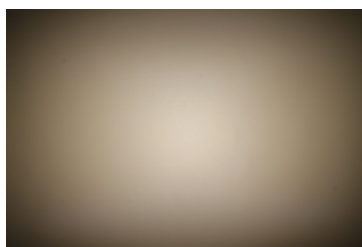
LED V15 Gen6
FWHM / FWTM 59.0 + 31.0° / 87.0 + 71.0°
Efficiency 89 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED V18 Gen6
FWHM / FWTM 57.0 + 35.0° / 89.0 + 80.0°
Efficiency 89 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

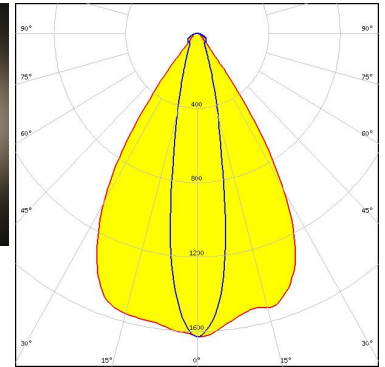
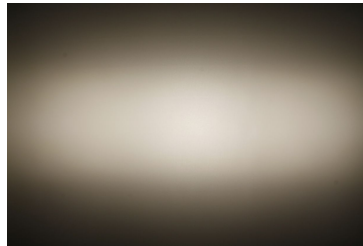


Light distribution files

OPTICAL RESULTS (MEASURED):

bridgelux

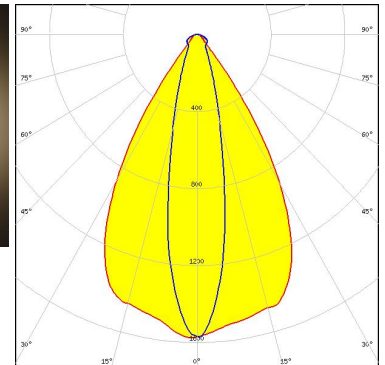
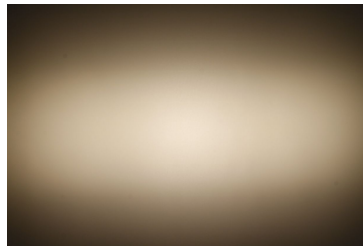
LED V8 Gen6
FWHM / FWTM 65.0 + 21.0° / 81.0 + 47.0°
Efficiency 89 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

CITIZEN

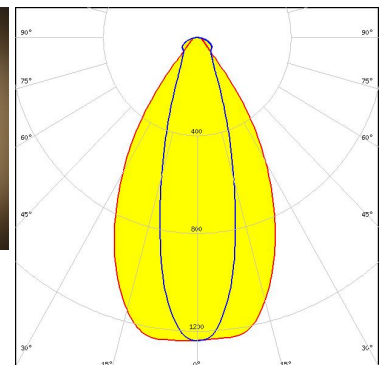
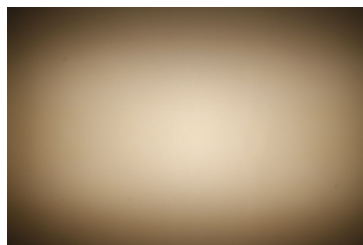
LED CLL02x/CLU02x (LES10)
FWHM / FWTM 63.0 + 22.0° / 82.0 + 52.0°
Efficiency 90 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
Bender Wirth: 434 Typ L5



Light distribution files

CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 59.0 + 29.0° / 85.0 + 66.0°
Efficiency 90 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
Bender Wirth: 433 Typ L5

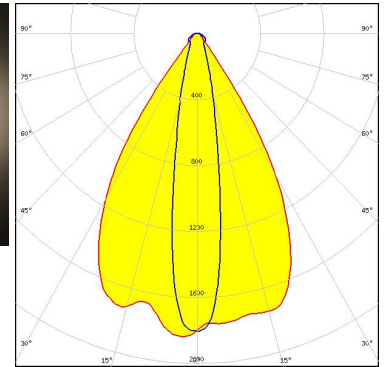
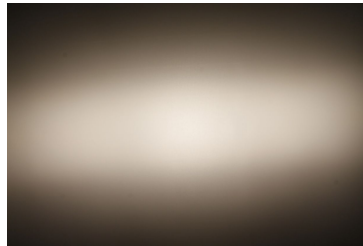


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

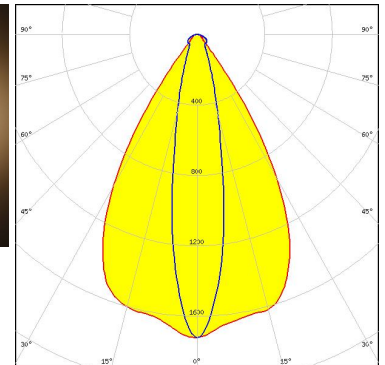
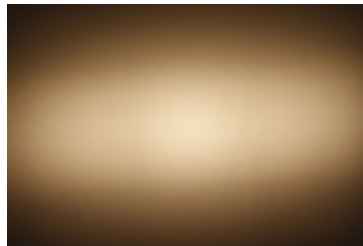
LED CLU700/701/702/703
FWHM / FWTM 64.0 + 18.0° / 79.0 + 43.0°
Efficiency 91 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

CITIZEN

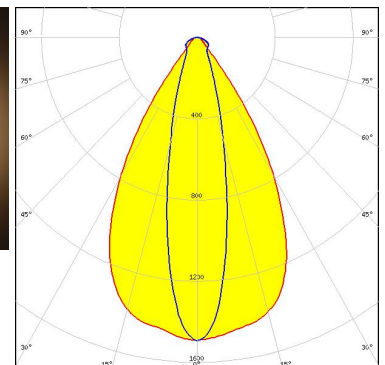
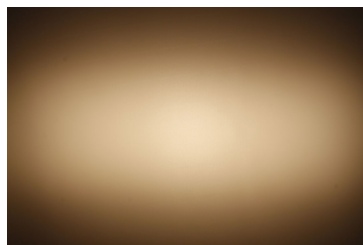
LED CLU710/711
FWHM / FWTM 63.0 + 20.0° / 81.0 + 48.0°
Efficiency 91 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
Bender Wirth: 470 Typ L5



Light distribution files

CITIZEN

LED CLU720/721/723
FWHM / FWTM 61.0 + 23.0° / 83.0 + 55.0°
Efficiency 90 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
Bender Wirth: 433 Typ L5

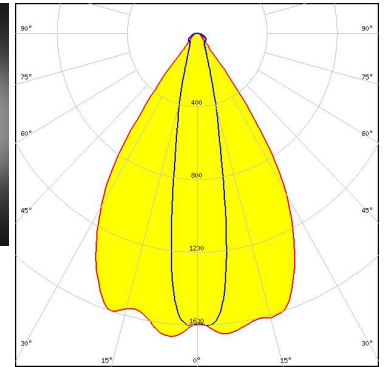
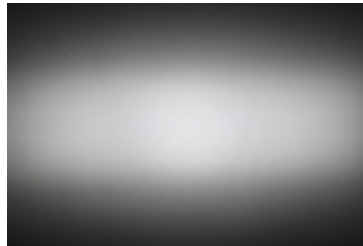


Light distribution files

OPTICAL RESULTS (MEASURED):



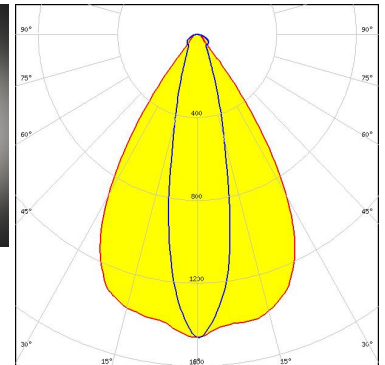
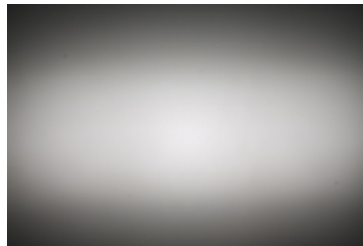
LED CXA/B 13xx
FWHM / FWTM 66.0 + 20.0° / 81.0 + 45.0°
Efficiency 90 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



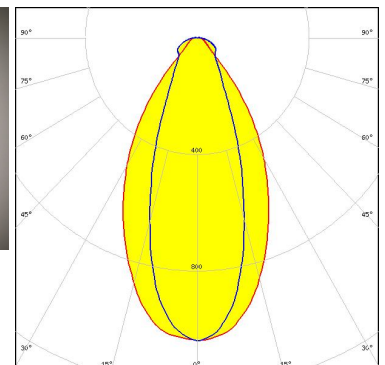
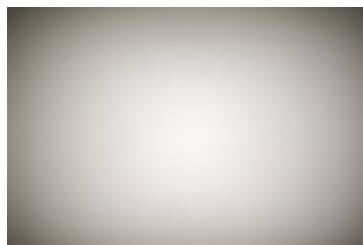
LED CXA/B 15xx
FWHM / FWTM 65.0 + 23.0° / 83.0 + 52.0°
Efficiency 89 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED CXA/B 25xx
FWHM / FWTM 57.0 + 37.0° / 91.0 + 83.0°
Efficiency 89 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

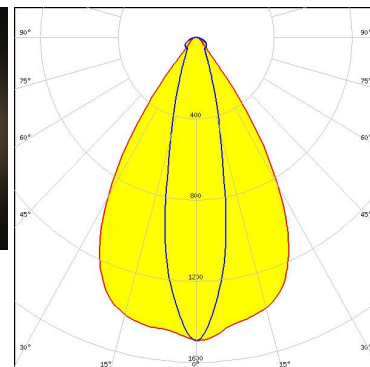
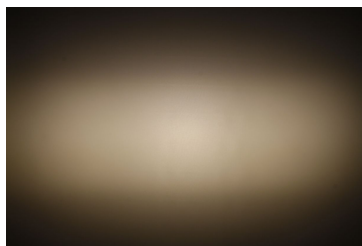


Light distribution files

OPTICAL RESULTS (MEASURED):



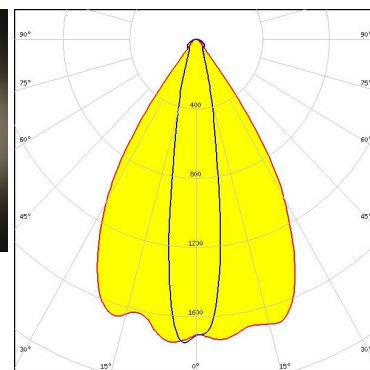
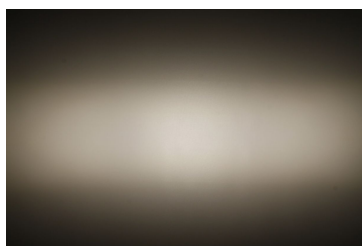
LED LUXEON CoB 1202/1203
FWHM / FWTM 64.0 + 23.0° / 82.0 + 53.0°
Efficiency 89 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



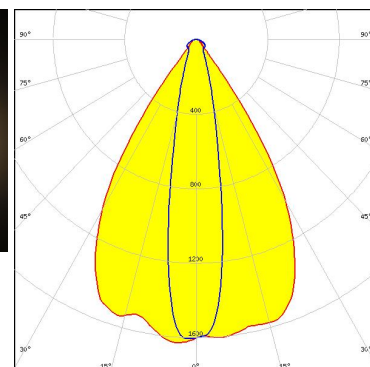
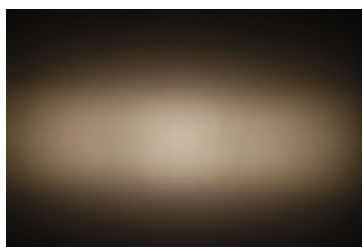
LED LUXEON CoB 1202s
FWHM / FWTM 65.0 + 19.0° / 80.0 + 43.0°
Efficiency 90 %
Peak intensity 1800 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON CoB Compact
FWHM / FWTM 65.0 + 20.0° / 81.0 + 46.0°
Efficiency 88 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

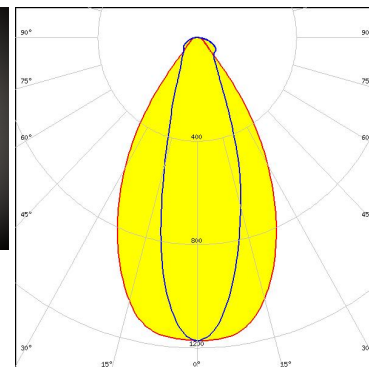
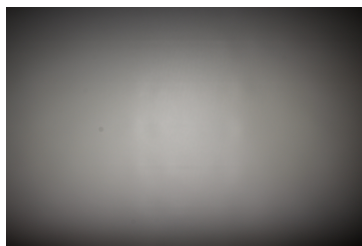


Light distribution files

OPTICAL RESULTS (MEASURED):



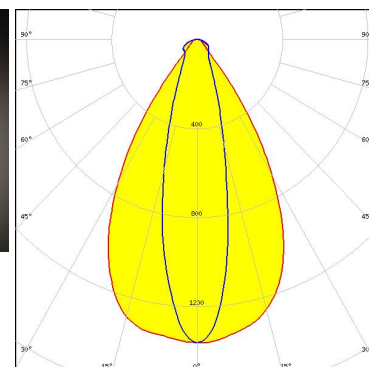
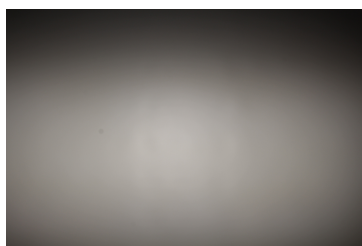
LED COB J-Type
FWHM / FWTM 59.0 + 31.0° / 86.0 + 71.0°
Efficiency 89 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



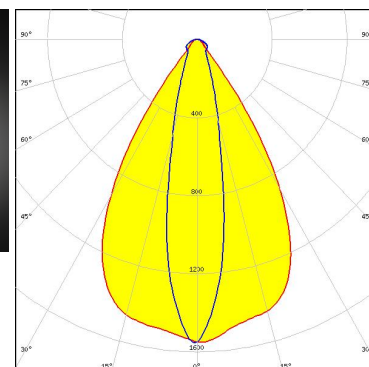
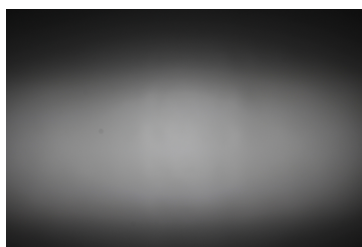
LED COB L-Type (LES 11)
FWHM / FWTM 62.0 + 25.0° / 83.0 + 59.0°
Efficiency 89 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED COB L-Type (LES 11)
FWHM / FWTM 64.0 + 22.0° / 82.0 + 51.0°
Efficiency 90 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

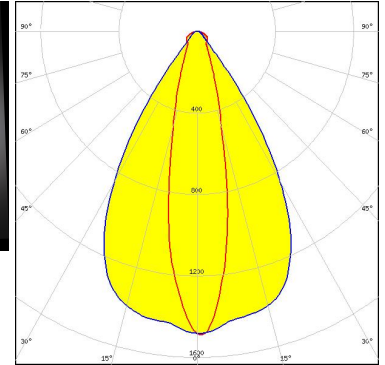


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

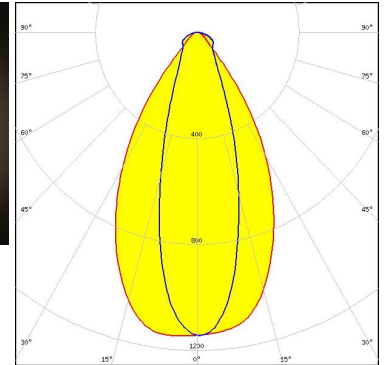
LED LC003D / LC006D / LC009D / LC013D
FWHM / FWTM 63.0 + 23.0° / 82.0 + 53.0°
Efficiency 87 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

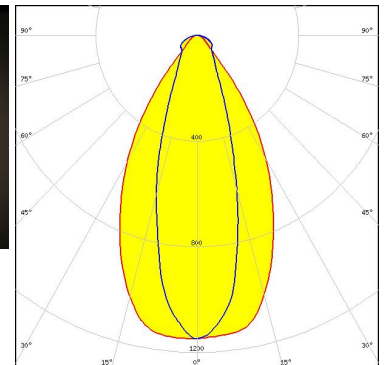
LED LC016D / LC019D / LC026D / LC033D
FWHM / FWTM 59.0 + 31.0° / 87.0 + 71.0°
Efficiency 85 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED MJT COB LES 14.5
FWHM / FWTM 58.0 + 32.0° / 86.0 + 73.0°
Efficiency 86 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
Bender Wirth: 433 Typ L5

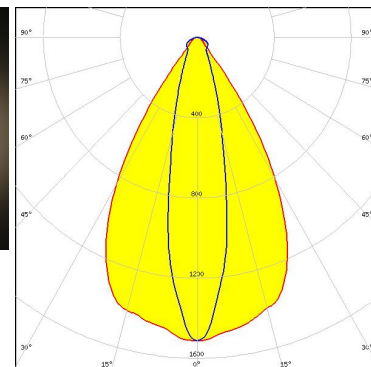
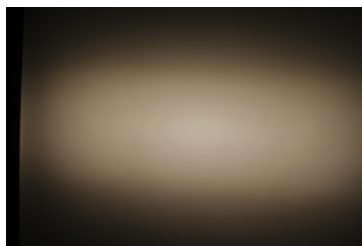


Light distribution files

OPTICAL RESULTS (MEASURED):



LED MJT COB LES 9.8
 FWHM / FWTM 62.0 + 23.0° / 82.0 + 53.0°
 Efficiency 89 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 434 Typ L5

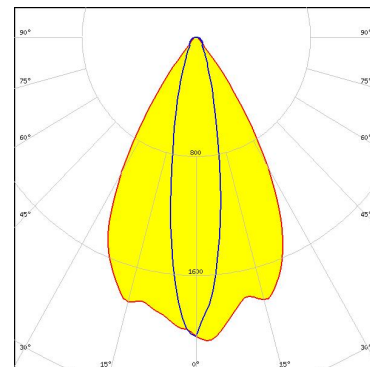


Light distribution files

OPTICAL RESULTS (SIMULATED):



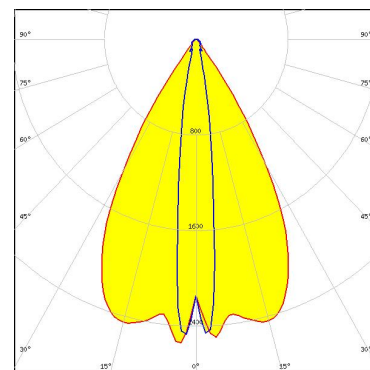
LED VERO10
FWHM / FWTM 60.0 + 20.0° / 80.0 + 48.0°
Efficiency 100 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



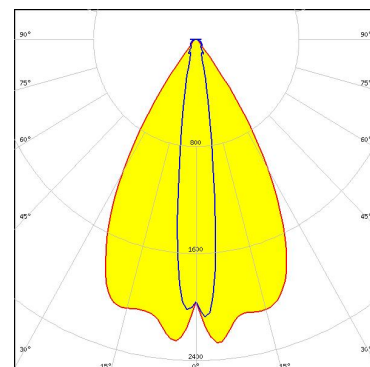
LED XP-E2
FWHM / FWTM 60.0 + 14.0° / 75.0 + 29.0°
Efficiency 93 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G3
FWHM / FWTM 60.0 + 15.0° / 76.0 + 32.0°
Efficiency 91 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

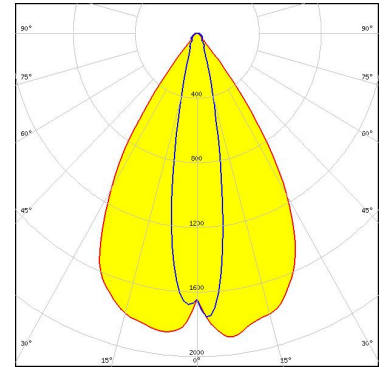


Light distribution files

OPTICAL RESULTS (SIMULATED):



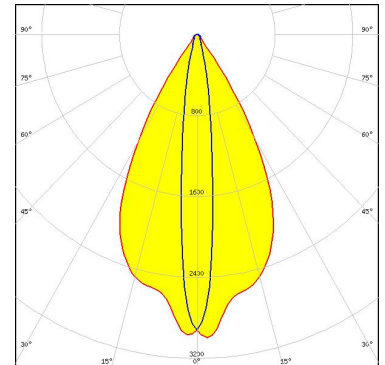
LED LUXEON M/MX
FWHM / FWTM 20.0 + 64.0° / 41.0 + 81.0°
Efficiency 92 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



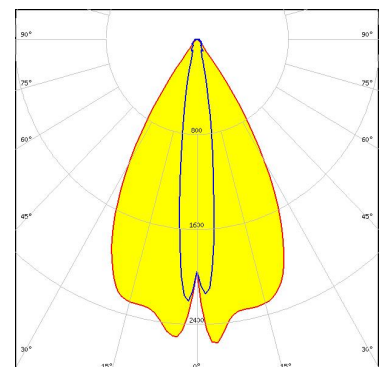
LED SBT-90
FWHM / FWTM 56.0 + 12.0° / 74.0 + 32.0°
Efficiency 93 %
Peak intensity 3 cd/lm
LEDs/each optic 1
Light colour/type Red
Required components:



Light distribution files



LED OSLO Square CSSRM2/CSSRM3
FWHM / FWTM 58.0 + 14.0° / 76.0 + 30.0°
Efficiency 91 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

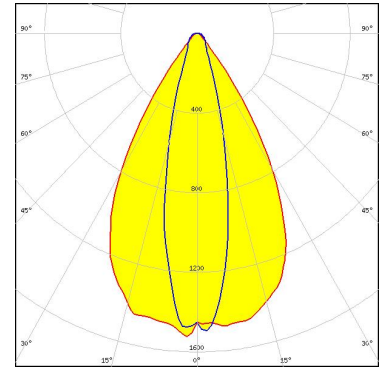


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

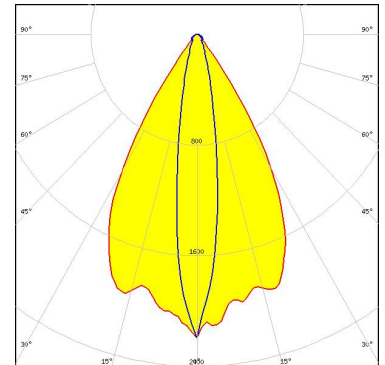
LED Soleriq S9
FWHM / FWTM 61.0 + 24.0° / 83.0 + 51.0°
Efficiency 88 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LC010C
FWHM / FWTM 56.0 + 16.0° / 78.0 + 40.0°
Efficiency 92 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

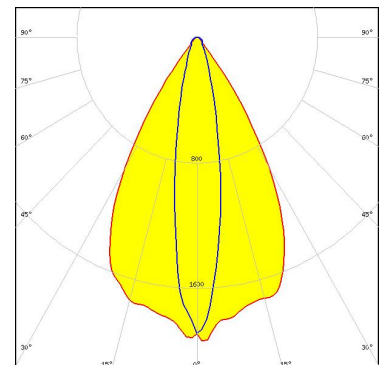


Bender Wirth: 479 Typ L5

Light distribution files

SAMSUNG

LED LC020C
FWHM / FWTM 60.0 + 18.0° / 79.0 + 44.0°
Efficiency 89 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Bender Wirth: 479 Typ L5

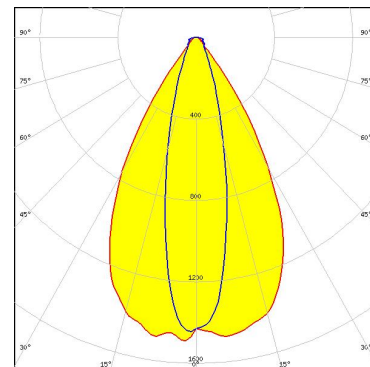
Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LC040C
FWHM / FWTM	60.0 + 24.0° / 82.0 + 55.0°
Efficiency	87 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 479 Typ L5



Light distribution files

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 reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

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LEDiL Oy

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Shenzhen 518057
P.R.CHINA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Poznan, Poland
Hong Kong, China

Distribution Partners

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where_to_buy](http://www.ledil.com/where_to_buy)