ILONA-ZOOM

An infinitely adjustable beam from 13 to 48 degrees.



SPECIFICATION:

Dimensions	Ø 52.5
Height	33.2 mm
Fastening	socket
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
ILONA-ZOOM	Single lens	PMMA	clear		
ILONA-ZOOM-SUB	Sublens	PMMA	clear		

ORDERING INFORMATION:

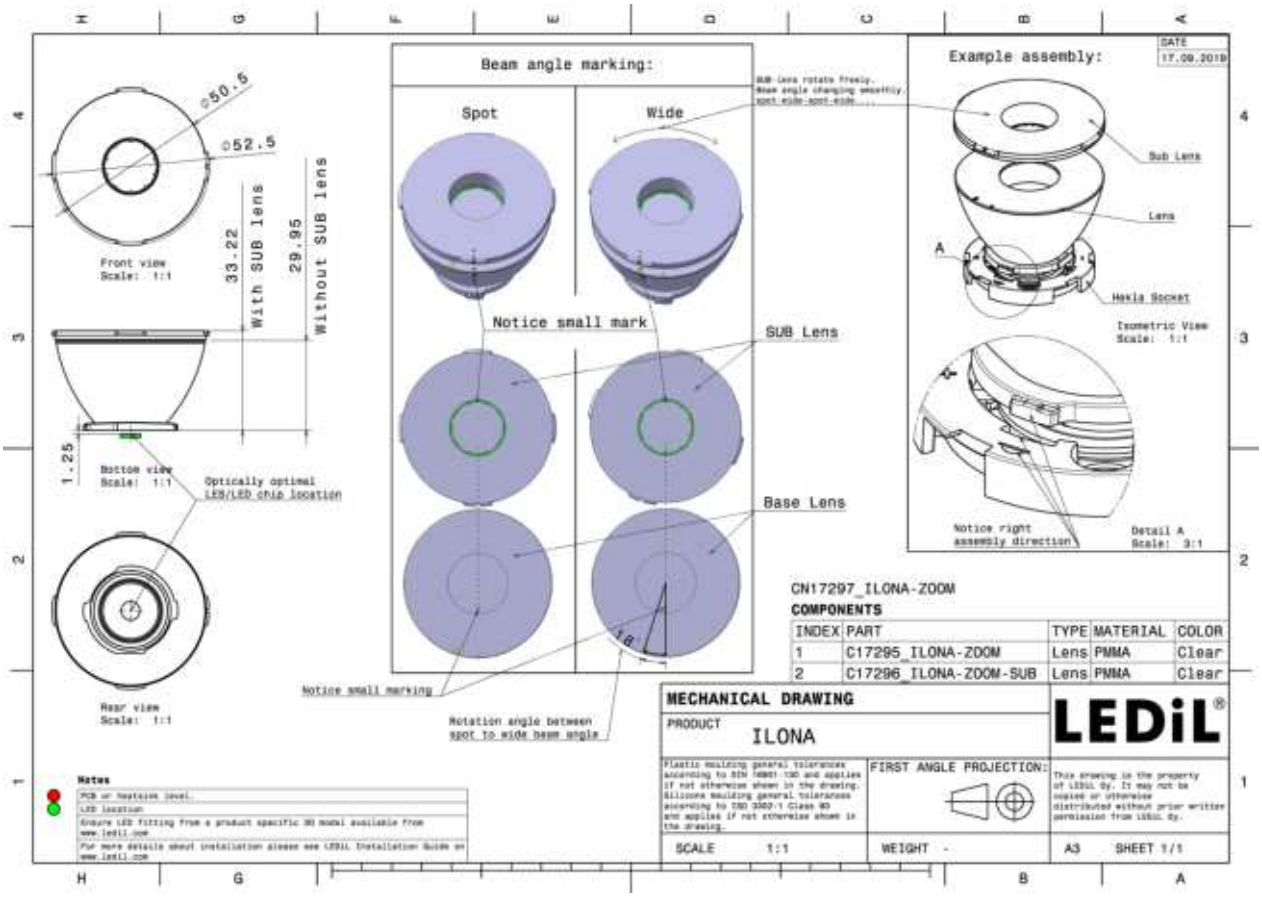
Quantities for one set:

Single lens	1
Sublens	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)
C17295_ILONA-ZOOM » Box size: 480 x 280 x 300 mm	Single lens	264	33	33	9.7
C17296_ILONA-ZOOM-SUB » Box size: 480 x 280 x 185 mm	Sublens	264	33	33	2.4

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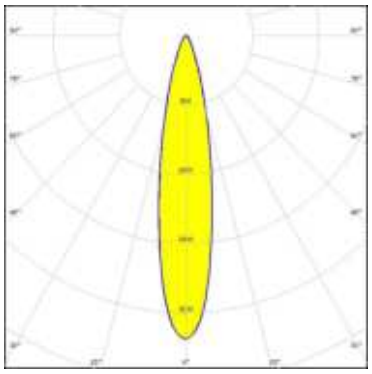
See also our general installation guide: www.ledil.com/installation_guide

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

OPTICAL RESULTS (MEASURED):

LED	V11 HD Gen 8
FWHM / FWTM	21.0 + 46.0° / 45.0 + 88.0°
Efficiency	78 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 633d Hekla	

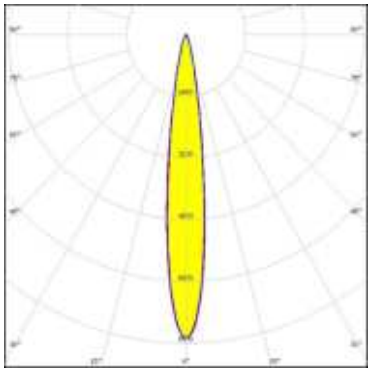




Light distribution files

LED	V6 HD Gen 7
FWHM / FWTM	14.0 + 48.0° / 30.0 + 84.0°
Efficiency	84 %
Peak intensity	7.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	

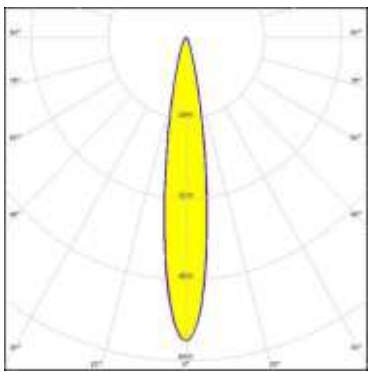




Light distribution files

LED	V8 Gen7
FWHM / FWTM	16.0 + 46.0° / 35.0 + 83.0°
Efficiency	85 %
Peak intensity	6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15253_HEKLA-SOCKET-A	





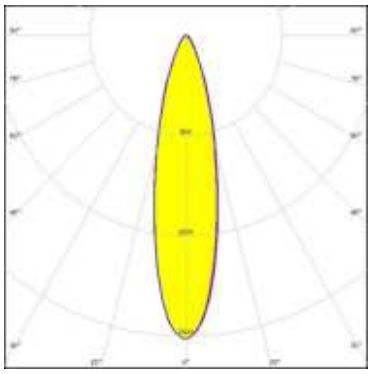
Light distribution files

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OPTICAL RESULTS (MEASURED):

LED	Vesta DTW 13mm (21W)
FWHM / FWTM	25.0 + 46.0° / 55.0 + 90.0°
Efficiency	77 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 491 Typ L8	

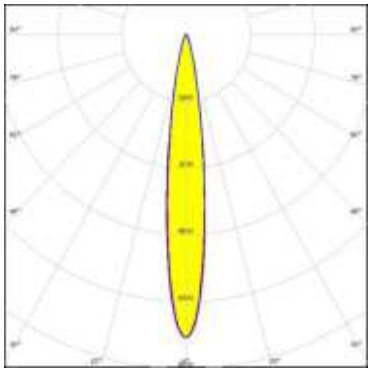




Light distribution files

LED	Vesta TW 6mm DP
FWHM / FWTM	15.0 + 48.0° / 32.0 + 84.0°
Efficiency	84 %
Peak intensity	7.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 504 Typ L8	

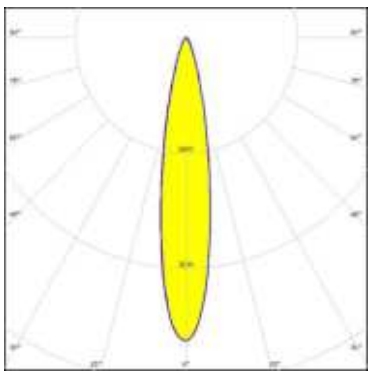




Light distribution files

LED	Vesta TW 9mm (9W) DP
FWHM / FWTM	19.0 + 46.0° / 42.0 + 86.0°
Efficiency	81 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 489 Typ L8	





Light distribution files

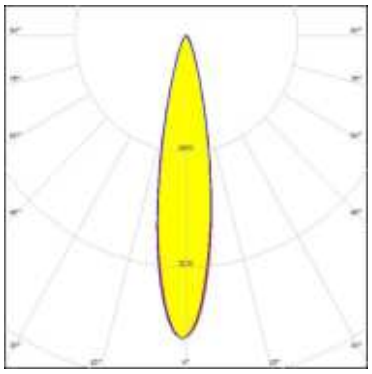
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OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU02x (LES10)
FWHM / FWTM	21.0 + 47.0° / 42.0 + 86.0°
Efficiency	85 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



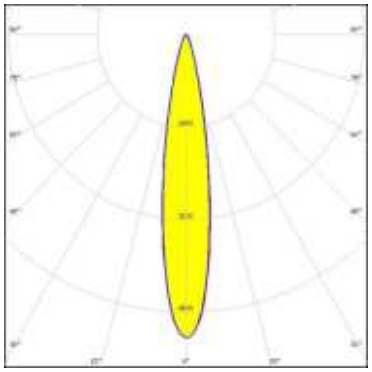


Light distribution files

CITIZEN

LED	CLU712/713
FWHM / FWTM	19.0 + 47.0° / 37.0 + 84.0°
Efficiency	85 %
Peak intensity	5.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



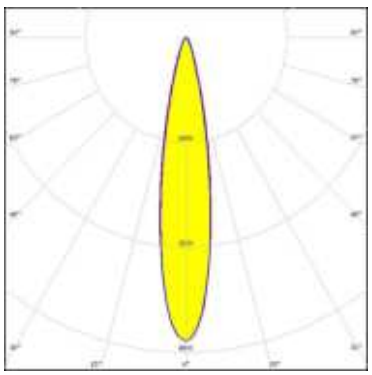


Light distribution files

CREE LEDs

LED	CMA1516
FWHM / FWTM	19.0 + 47.0° / 39.0 + 85.0°
Efficiency	85 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15256_HEKLA-SOCKET-D	





Light distribution files

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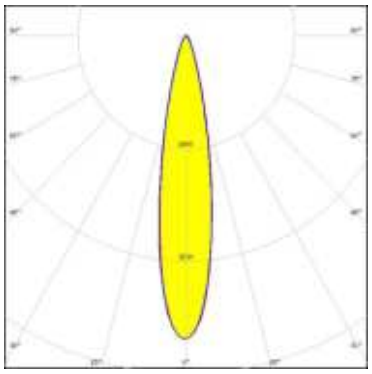
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CMT14xx
FWHM / FWTM	20.0 + 46.0° / 41.0 + 85.0°
Efficiency	85 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





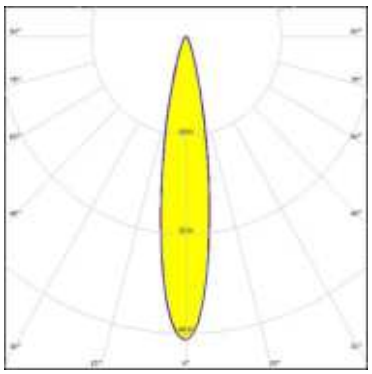
Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB M02 / M03 (Gen2)
FWHM / FWTM	19.0 + 47.0° / 39.0 + 85.0°
Efficiency	86 %
Peak intensity	4.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15256_HEKLA-SOCKET-D





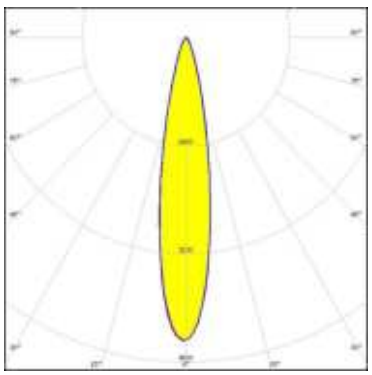
Light distribution files

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	20.0 + 46.0° / 41.0 + 85.0°
Efficiency	86 %
Peak intensity	4.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





Light distribution files

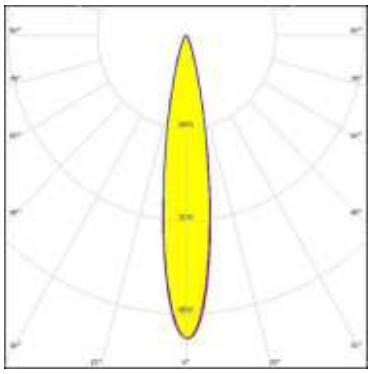
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OPTICAL RESULTS (MEASURED):

NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	19.0 + 47.0° / 38.0 + 84.0°
Efficiency	85 %
Peak intensity	5.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15858_HEKLA-SOCKET-H	



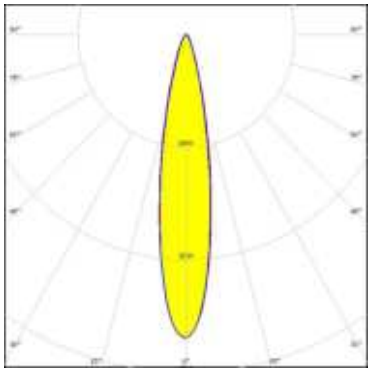


Light distribution files

SAMSUNG

LED	LC003D / LC006D / LC009D / LC013D
FWHM / FWTM	20.0 + 47.0° / 42.0 + 85.0°
Efficiency	85 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



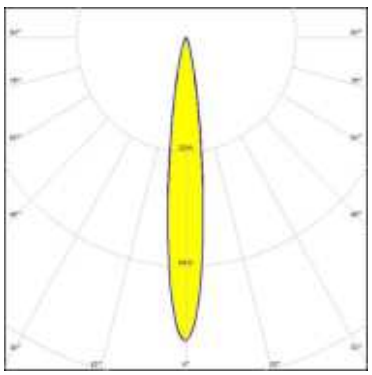


Light distribution files

SAMSUNG

LED	LC010C G2
FWHM / FWTM	14.0 + 48.0° / 30.0 + 84.0°
Efficiency	88 %
Peak intensity	8.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	





Light distribution files

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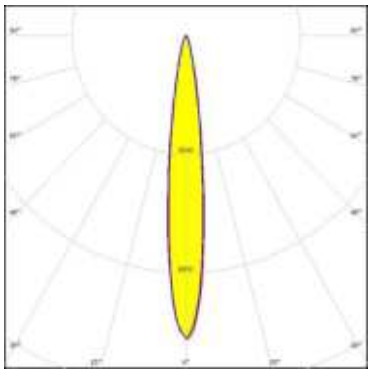
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	MJT COB LES 6
FWHM / FWTM	14.0 + 48.0° / 30.0 + 85.0°
Efficiency	84 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F17435_HEKLA-G2-C





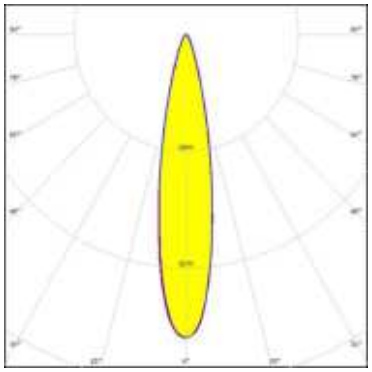
Light distribution files

SEOUL SEMICONDUCTOR

LED	MJT COB LES 9.8
FWHM / FWTM	21.0 + 47.0° / 43.0 + 86.0°
Efficiency	86 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





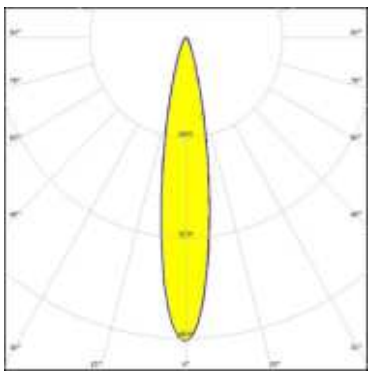
Light distribution files

XICATO

LED	XOB09 Gen1
FWHM / FWTM	19.0 + 47.0° / 40.0 + 85.0°
Efficiency	86 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C



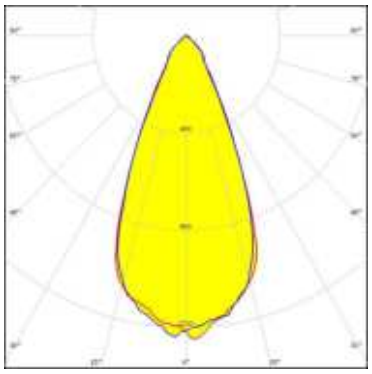


Light distribution files

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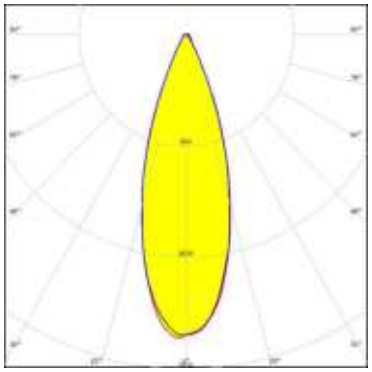
OPTICAL RESULTS (SIMULATED):

LED	V4 HD Gen 7
FWHM / FWTM	12.0 + 46.0° / 25.0 + 76.0°
Efficiency	82 %
Peak intensity	12.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15253_HEKLA-SOCKET-A	



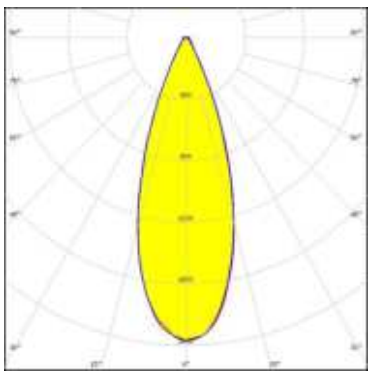
Light distribution files

LED	V6 HD Gen 7
FWHM / FWTM	14.0 + 47.0° / 30.0 + 81.0°
Efficiency	88 %
Peak intensity	8.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



Light distribution files

LED	V9 HD Gen7
FWHM / FWTM	18.0 + 46.0° / 34.0 + 82.0°
Efficiency	88 %
Peak intensity	6.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



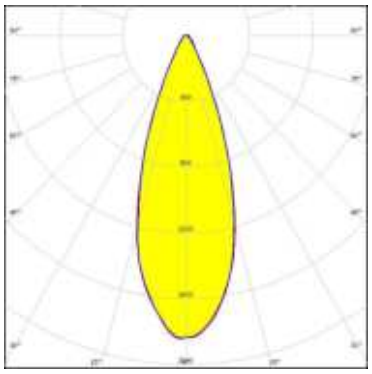
Light distribution files

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OPTICAL RESULTS (SIMULATED):

bridgelux

LED	Vesta DTW 9mm (4W/6W/12W)
FWHM / FWTM	18.0 + 46.0° / 36.0 + 84.0°
Efficiency	86 %
Peak intensity	5.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	

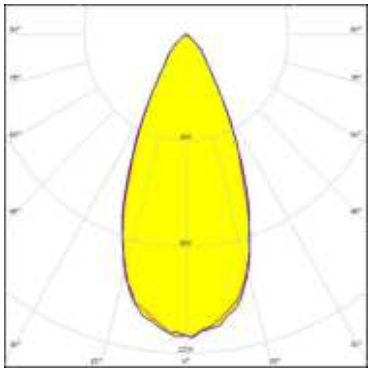


Bender Wirth: 490 Typ L8

Light distribution files

CITIZEN

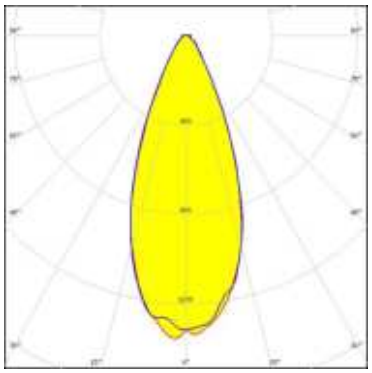
LED	CLU02x (LES10)
FWHM / FWTM	20.0 + 46.0° / 37.0 + 80.0°
Efficiency	78 %
Peak intensity	4.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



Light distribution files

CITIZEN

LED	CLU03x
FWHM / FWTM	25.0 + 46.0° / 51.0 + 92.0°
Efficiency	85 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



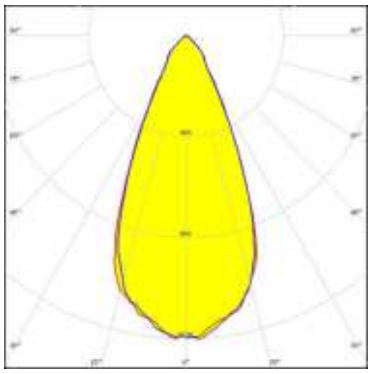
Light distribution files

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OPTICAL RESULTS (SIMULATED):

CITIZEN

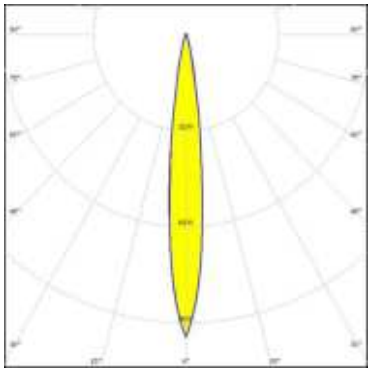
LED	CLU700/701/702/703
FWHM / FWTM	13.0 + 47.0° / 27.0 + 78.0°
Efficiency	82 %
Peak intensity	10 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



Light distribution files

CITIZEN

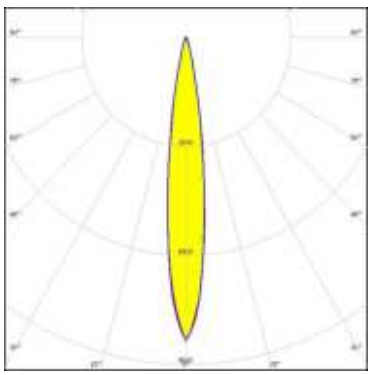
LED	CLU7A2/7A3
FWHM / FWTM	13.0 + 48.0° / 26.0 + 83.0°
Efficiency	88 %
Peak intensity	10.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



Light distribution files

CREE LEDs

LED	CMA1306
FWHM / FWTM	14.0 + 48.0° / 30.0 + 82.0°
Efficiency	89 %
Peak intensity	8.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17439_HEKLA-G2-J	



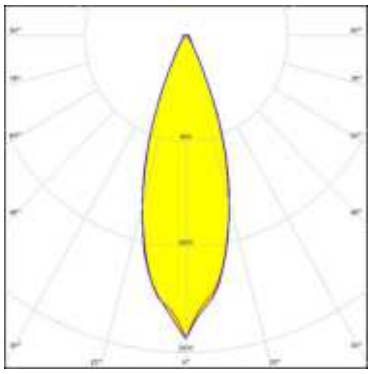
Light distribution files

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OPTICAL RESULTS (SIMULATED):

CREE LEDs

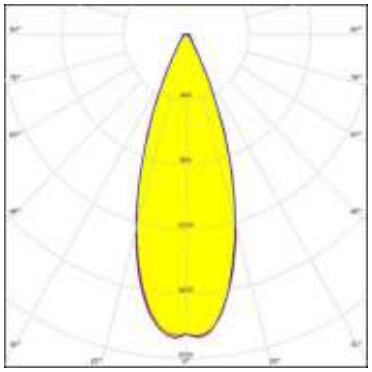
LED	CXA/B 13xx
FWHM / FWTM	14.0 + 47.0° / 28.0 + 80.0°
Efficiency	90 %
Peak intensity	9.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15956_HEKLA-SOCKET-J	



Light distribution files

CREE LEDs

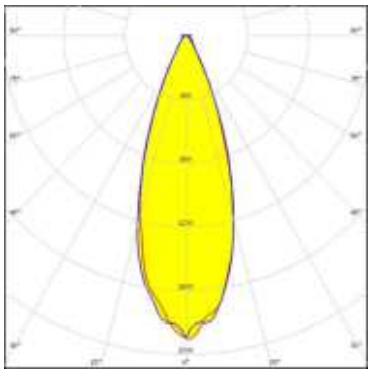
LED	CXA/B 15xx
FWHM / FWTM	18.0 + 46.0° / 36.0 + 81.0°
Efficiency	89 %
Peak intensity	5.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15256_HEKLA-SOCKET-D	



Light distribution files

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	20.0 + 44.0° / 37.0 + 80.0°
Efficiency	87 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17437_HEKLA-G2-H	



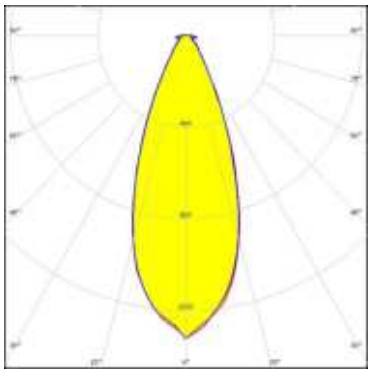
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM / FWTM	24.0 + 46.0° / 50.0 + 95.0°
Efficiency	85 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	

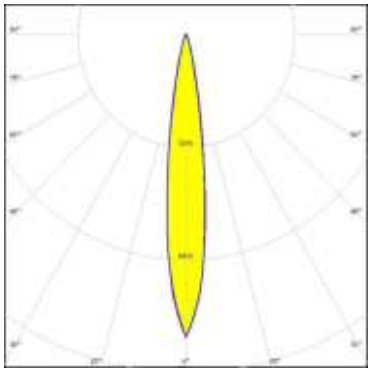


Bender Wirth: 437 Typ L8

Light distribution files

LUMINUS

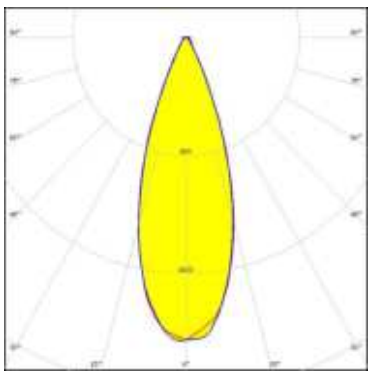
LED	CxM-6 (13.5x13.5)
FWHM / FWTM	14.0 + 46.0° / 30.0 + 81.0°
Efficiency	90 %
Peak intensity	8.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17435_HEKLA-G2-C	



Light distribution files

NICHIA

LED	COB S-Type (LES 7)
FWHM / FWTM	16.0 + 48.0° / 30.0 + 80.0°
Efficiency	89 %
Peak intensity	7.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15848_HEKLA-SOCKET-G	



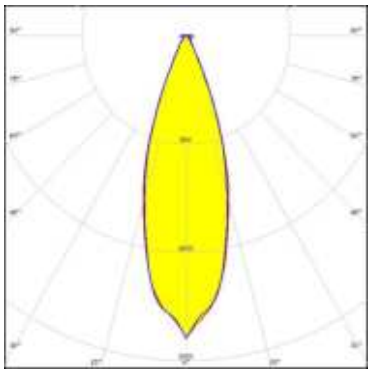
Light distribution files

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OPTICAL RESULTS (SIMULATED):

NICHIA

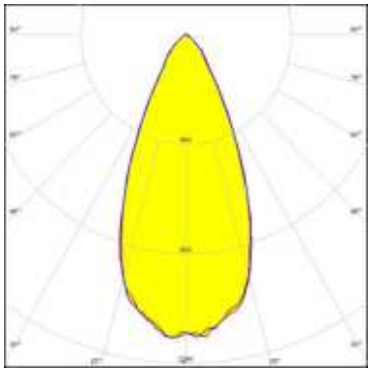
LED	NCSxE17A
FWHM / FWTM	13.0 + 47.0° / 27.0 + 75.0°
Efficiency	88 %
Peak intensity	10 cd/lm
LEDs/each optic	7
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

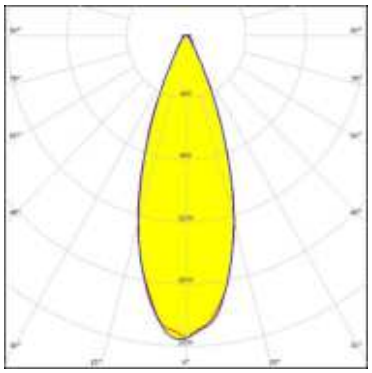
LED	LC003D / LC006D / LC009D / LC013D
FWHM / FWTM	19.0 + 46.0° / 37.0 + 79.0°
Efficiency	77 %
Peak intensity	5.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



Light distribution files

SAMSUNG

LED	LC010T (Tunable White)
FWHM / FWTM	18.0 + 46.0° / 34.0 + 83.0°
Efficiency	88 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	



Light distribution files

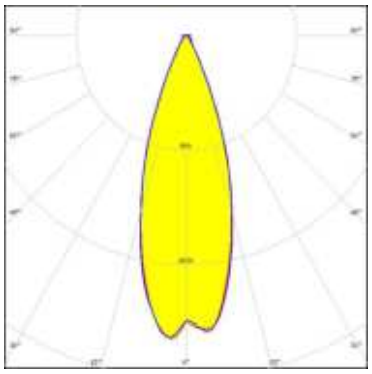
Bender Wirth: 501 Typ L8

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OPTICAL RESULTS (SIMULATED):

SAMSUNG

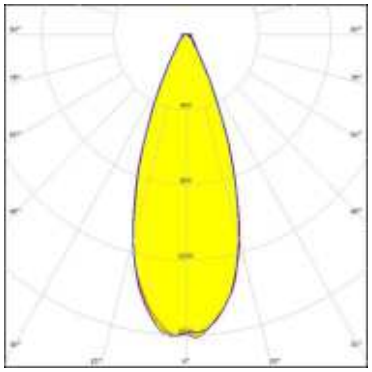
LED	LC020C
FWHM / FWTM	14.0 + 46.0° / 28.0 + 77.0°
Efficiency	88 %
Peak intensity	9.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17438_HEKLA-G2-I	



Light distribution files

SAMSUNG

LED	LC020T (Tunable white)
FWHM / FWTM	22.0 + 46.0° / 42.0 + 85.0°
Efficiency	86 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	

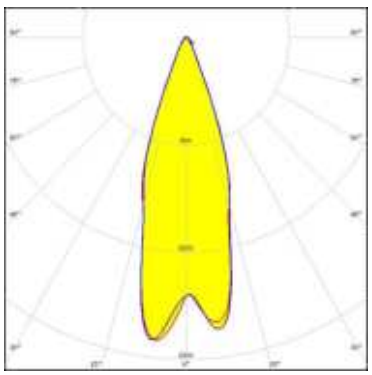


Bender Wirth: 501 Typ L8

Light distribution files

TRIDONIC

LED	SLE G7 LES13
FWHM / FWTM	12.0 + 45.0° / 21.0 + 71.0°
Efficiency	88 %
Peak intensity	16.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17438_HEKLA-G2-I	



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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