ILONA-W

~35° wide beam



SPECIFICATION:

Dimensions	Ø 49.8 mm
Height	29.7 mm
Fastening	socket
ROHS compliant	yes

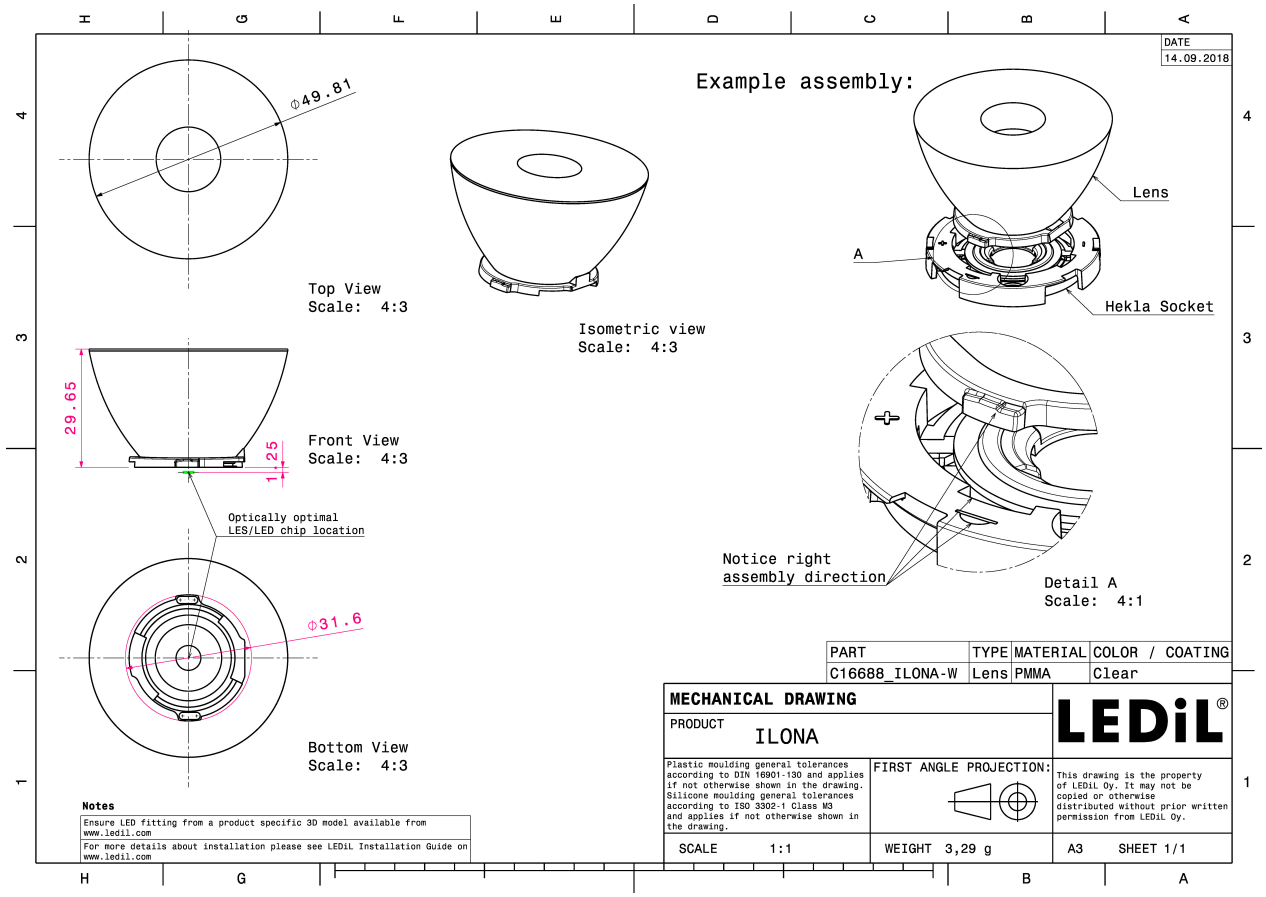
MATERIALS:

Component	Type	Material	Colour	Finish	Length
ILONA-W	Single lens	PMMA	clear		49.8

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16688_ILONA-W » Box size: 480 x 280 x 300 mm	264	99	33	10.1

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

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

OPTICAL RESULTS (MEASURED):

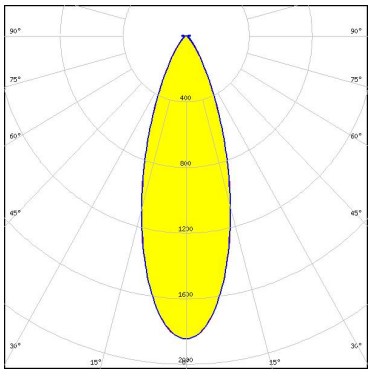
bridgelux

LED	V11 HD Gen 8
FWHM / FWTM	35.0° / 67.0°
Efficiency	91 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

Bender Wirth: 633d Hekla





Light distribution files

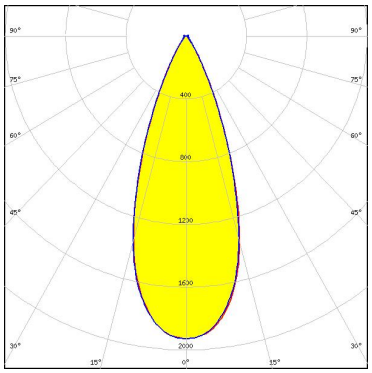
bridgelux

LED	V6 HD Gen 7
FWHM / FWTM	39.0° / 62.0°
Efficiency	93 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15255_HEKLA-SOCKET-C





Light distribution files

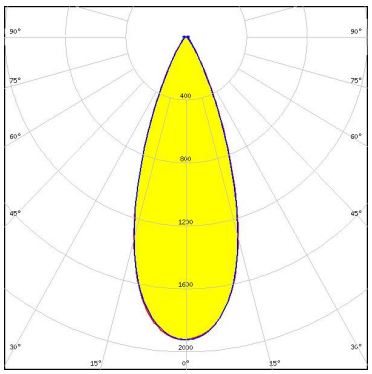
bridgelux

LED	V6 HD Gen 7
FWHM / FWTM	38.0° / 62.0°
Efficiency	93 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

Bender Wirth: 634c Hekla





Light distribution files

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

OPTICAL RESULTS (MEASURED):

bridgelux

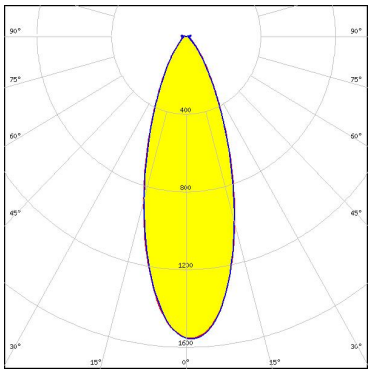
LED	Vesta DTW 13mm (21W)
FWHM / FWTM	35.0° / 72.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 491 Typ L8





Light distribution files

bridgelux

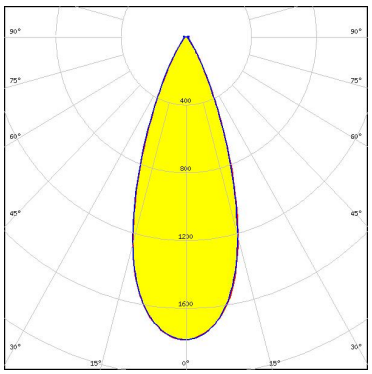
LED	Vesta TW 6mm DP
FWHM / FWTM	39.0° / 63.0°
Efficiency	88 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 504 Typ L8





Light distribution files

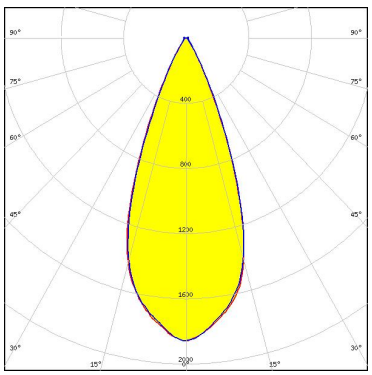
CITIZEN

LED	CLU7B2
FWHM / FWTM	41.0° / 61.0°
Efficiency	92 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15255_HEKLA-SOCKET-C





Light distribution files

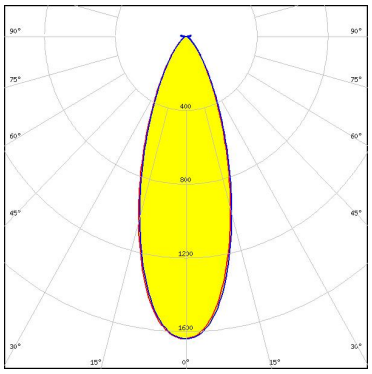
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CX Plus CoB L08 (Gen2)
FWHM / FWTM	36.0° / 72.0°
Efficiency	90 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 637a Hekla	



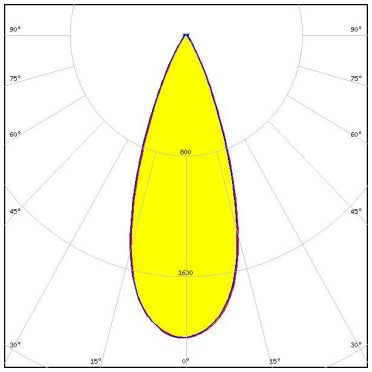


Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB - HD S01H4
FWHM / FWTM	39.0° / 61.0°
Efficiency	93 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 634c Hekla	



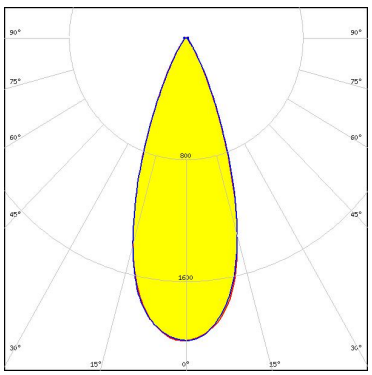


Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB - HD S02H6
FWHM / FWTM	38.0° / 61.0°
Efficiency	93 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 634c Hekla	





Light distribution files

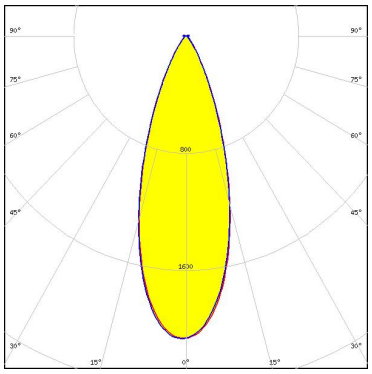
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CX Plus CoB - HD S04H9
FWHM / FWTM	35.0° / 63.0°
Efficiency	92 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 634c Hekla	



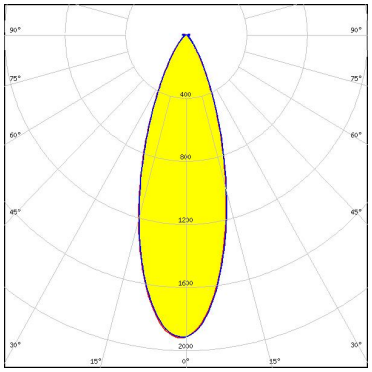


Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB L04 / L05 (Gen2)
FWHM / FWTM	34.0° / 66.0°
Efficiency	92 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 637a Hekla	



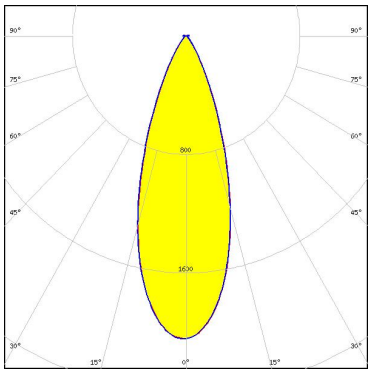


Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB M02 / M03 (Gen2)
FWHM / FWTM	35.0° / 63.0°
Efficiency	92 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 641a Hekla	





Light distribution files

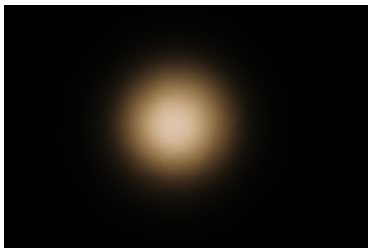
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

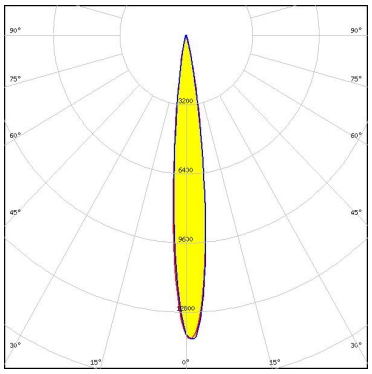
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CX Plus CoB S01 (Gen2)
FWHM / FWTM	12.0° / 23.0°
Efficiency	94 %
Peak intensity	14.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
Bender Wirth: 634c Hekla



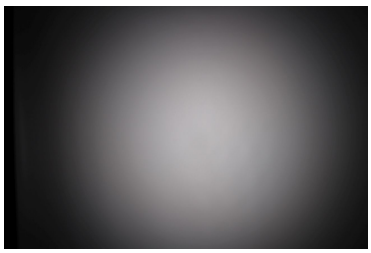


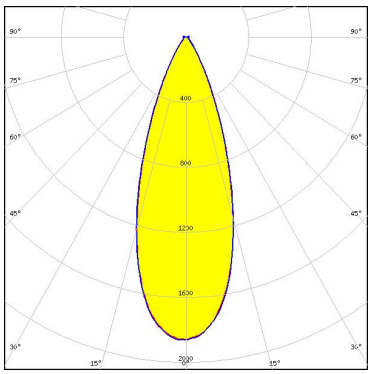
Light distribution files

LUMILEDS

LED	LUXEON Fusion 21-up (20x24)
FWHM / FWTM	37.0° / 64.0°
Efficiency	91 %
Peak intensity	1.9 cd/lm
LEDs/each optic	21
Light colour/type	White

Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 442 Typ L8





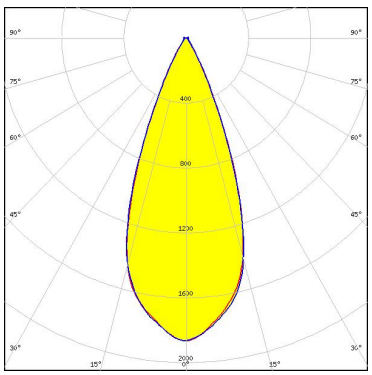
Light distribution files

LUMINUS

LED	CXM-3
FWHM / FWTM	41.0° / 61.0°
Efficiency	93 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





Light distribution files

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

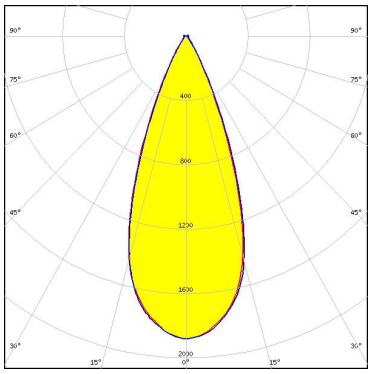
OPTICAL RESULTS (MEASURED):

LUMINUS

LED	CXM-4
FWHM / FWTM	41.0° / 62.0°
Efficiency	94 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





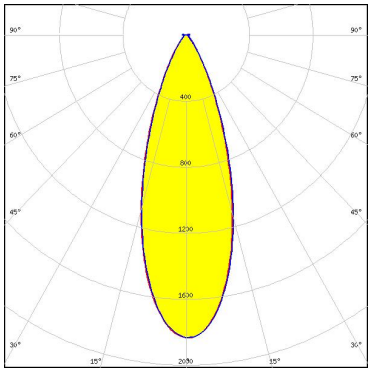
Light distribution files

SAMSUNG

LED	LC010T (Tunable White)
FWHM / FWTM	35.0° / 65.0°
Efficiency	90 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 501 Typ L8





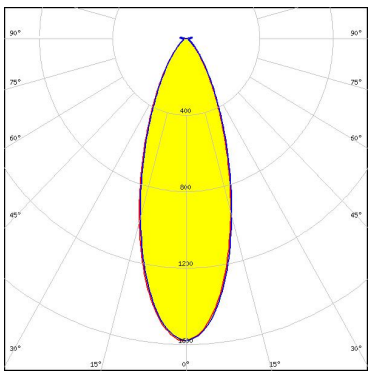
Light distribution files

SEOUL SEMICONDUCTOR

LED	MJT COB LES 14.5
FWHM / FWTM	36.0° / 74.0°
Efficiency	90 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F17438_HEKLA-G2-I





Light distribution files

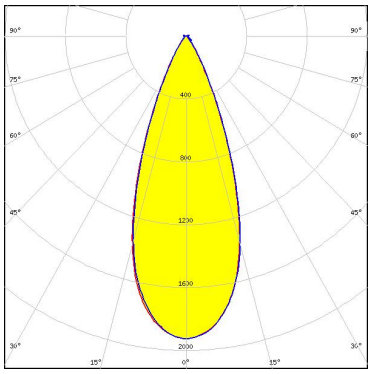
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	MJT COB LES 6
FWHM / FWTM	39.0° / 63.0°
Efficiency	94 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17435_HEKLA-G2-C	



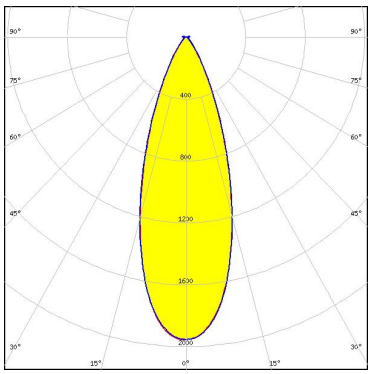


Light distribution files

SEOUL SEMICONDUCTOR

LED	MJT COB LES 9.8
FWHM / FWTM	35.0° / 65.0°
Efficiency	93 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17435_HEKLA-G2-C	



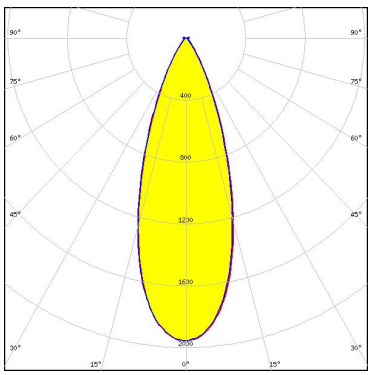


Light distribution files

TRIDONIC

LED	SLE G7 LES09
FWHM / FWTM	36.0° / 64.0°
Efficiency	92 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	





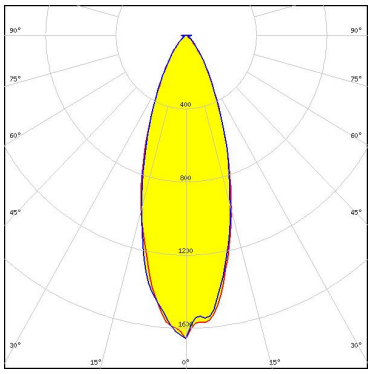
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

bridgelux

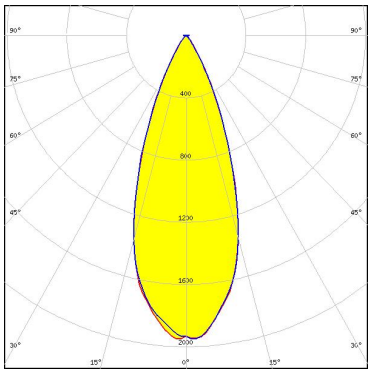
LED	V13 Gen 8-9
FWHM / FWTM	36.0° / 72.0°
Efficiency	85 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



Light distribution files

bridgelux

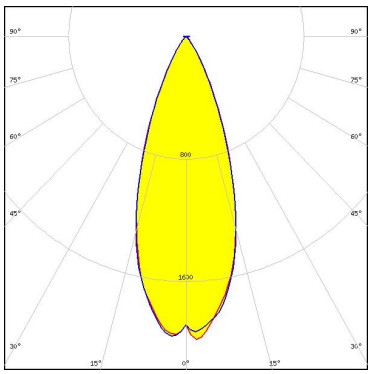
LED	V4 HD Gen 7
FWHM / FWTM	38.0° / 64.0°
Efficiency	91 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15253_HEKLA-SOCKET-A	



Light distribution files

bridgelux

LED	V6 HD Gen 7
FWHM / FWTM	38.0° / 64.0°
Efficiency	90 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



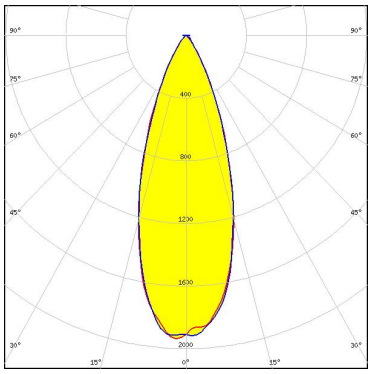
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

bridgelux

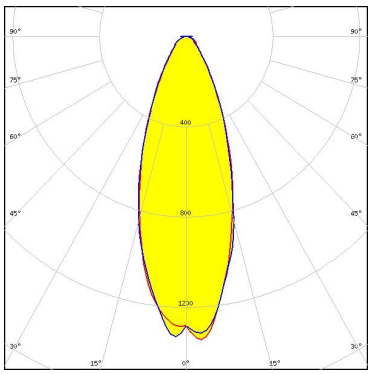
LED	V9 HD Gen7
FWHM / FWTM	36.0° / 64.0°
Efficiency	89 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



Light distribution files

bridgelux

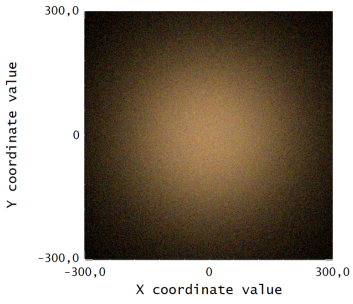
LED	Vero SE 13
FWHM / FWTM	37.0° / 78.0°
Efficiency	85 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	

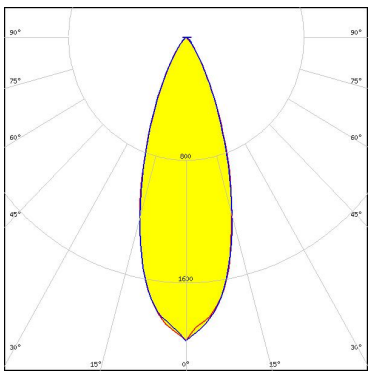


Light distribution files

bridgelux

LED	VERO10
FWHM / FWTM	36.0° / 64.0°
Efficiency	90 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15616_HEKLA-SOCKET-F	





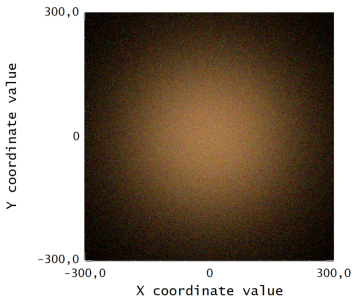
Light distribution files

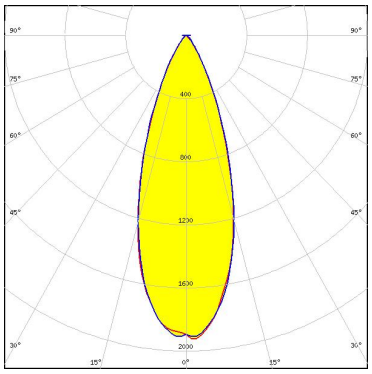
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

bridgelux

LED	Vesta DTW 9mm (4W/6W/12W)
FWHM / FWTM	36.0° / 64.0°
Efficiency	90 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	



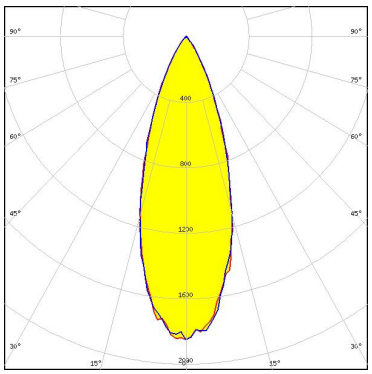


Bender Wirth: 490 Typ L8

Light distribution files

CITIZEN

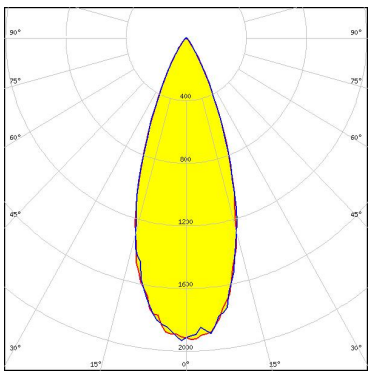
LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	35.0° / 64.0°
Efficiency	79 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



Light distribution files

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	38.0° / 63.0°
Efficiency	84 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



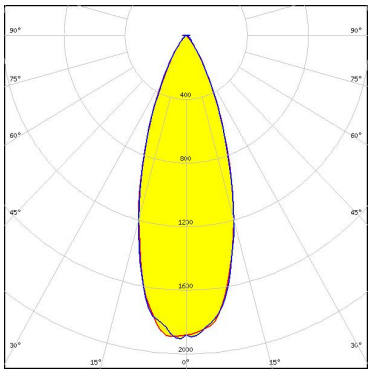
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CITIZEN

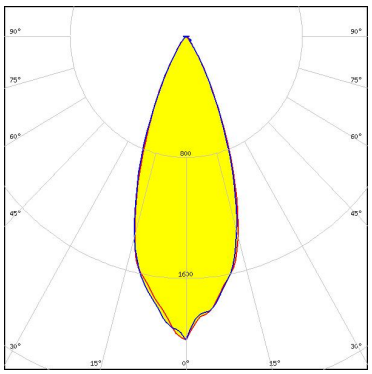
LED	CLU712/713
FWHM / FWTM	36.0° / 66.0°
Efficiency	90 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17438_HEKLA-G2-I	



Light distribution files

CREE LEDs

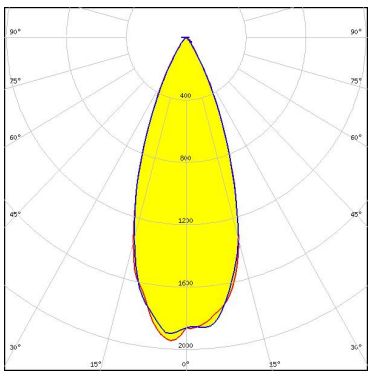
LED	CHA0304
FWHM / FWTM	38.0° / 62.0°
Efficiency	91 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17435_HEKLA-G2-C	



Light distribution files

CREE LEDs

LED	CHA0410
FWHM / FWTM	38.0° / 63.0°
Efficiency	91 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17435_HEKLA-G2-C	



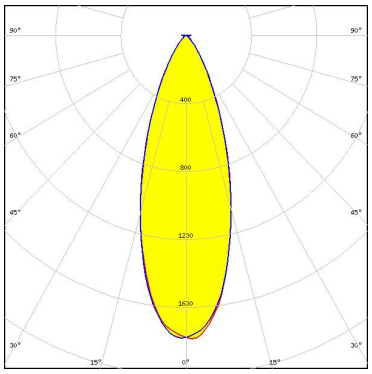
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

CREE LEDs

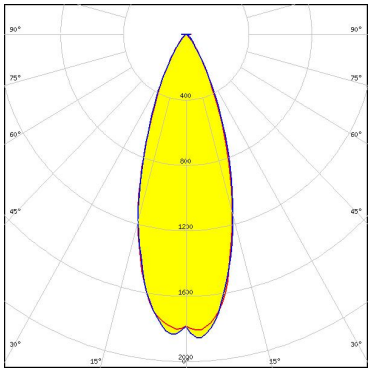
LED	CMA1825
FWHM / FWTM	35.0° / 68.0°
Efficiency	87 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15254_HEKLA-SOCKET-B	



Light distribution files

LUMILEDS

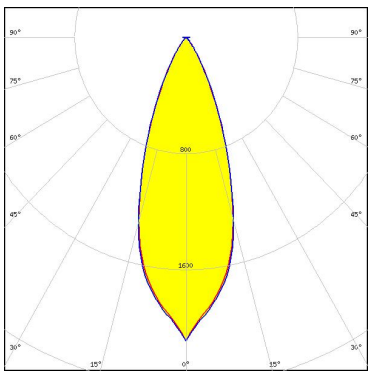
LED	LUXEON CoB 1202/1203
FWHM / FWTM	36.0° / 66.0°
Efficiency	88 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17437_HEKLA-G2-H	



Light distribution files

LUMILEDS

LED	LUXEON CoB 1202s
FWHM / FWTM	36.0° / 64.0°
Efficiency	91 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



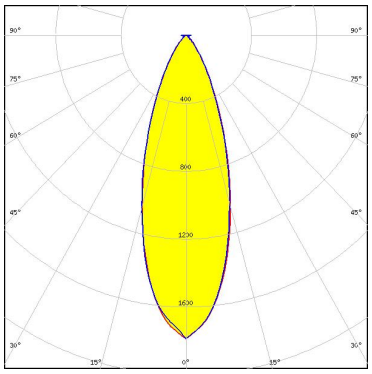
Light distribution files

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	35.0° / 69.0°
Efficiency	87 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



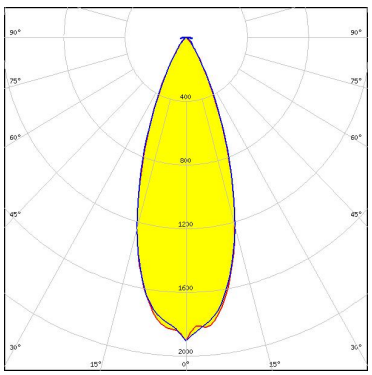
Light distribution files

LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	32.0° / 62.0°
Efficiency	88 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

NICHIA

LED	COB S-Type (LES 7)
FWHM / FWTM	36.0° / 64.0°
Efficiency	90 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15848_HEKLA-SOCKET-G	



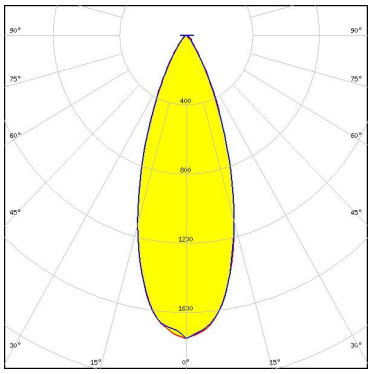
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

NICHIA

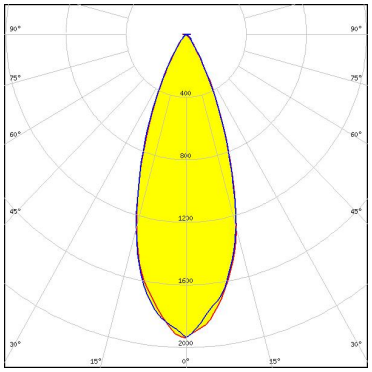
LED	NFSWE11A
FWHM / FWTM	36.0° / 65.0°
Efficiency	83 %
Peak intensity	1.8 cd/lm
LEDs/each optic	30
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	



Light distribution files

OSRAM
Opto Semiconductors

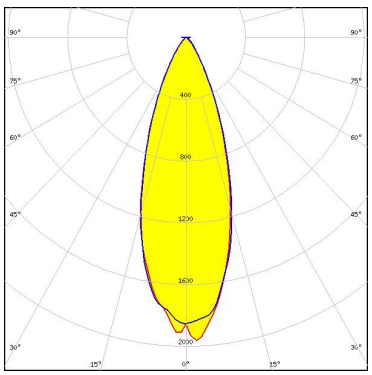
LED	Duris S8
FWHM / FWTM	38.0° / 64.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15848_HEKLA-SOCKET-G	



Light distribution files

PHILIPS

LED	Fortimo SLM L09 CoB
FWHM / FWTM	35.0° / 66.0°
Efficiency	89 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17437_HEKLA-G2-H	



Light distribution files

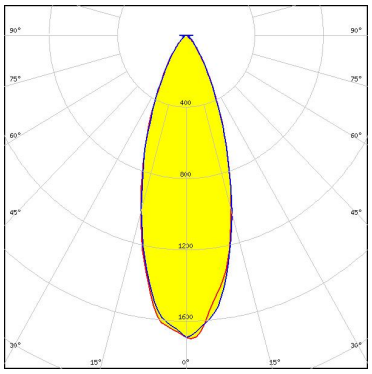
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

PHILIPS

LED	Fortimo SLM L13 CoB
FWHM / FWTM	35.0° / 70.0°
Efficiency	86 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 632a Hekla XL

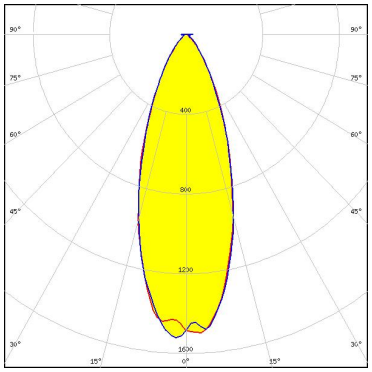


Light distribution files

PHILIPS

LED	Fortimo SLM L15 CoB
FWHM / FWTM	37.0° / 74.0°
Efficiency	85 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 632a Hekla XL

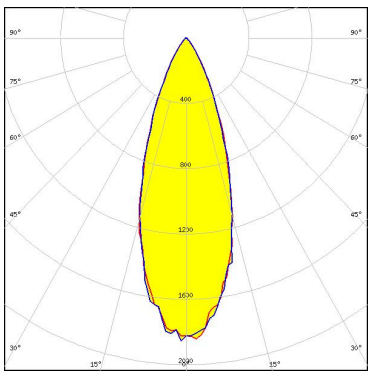


Light distribution files

SAMSUNG

LED	LC003D / LC006D / LC009D / LC013D
FWHM / FWTM	35.0° / 64.0°
Efficiency	80 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

F15255_HEKLA-SOCKET-C



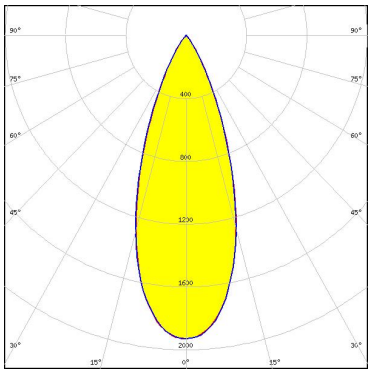
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

SAMSUNG

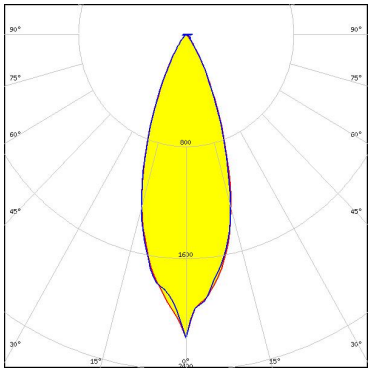
LED	LC010C
FWHM / FWTM	38.0° / 64.0°
Efficiency	87 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15848_HEKLA-SOCKET-G	



Light distribution files

SAMSUNG

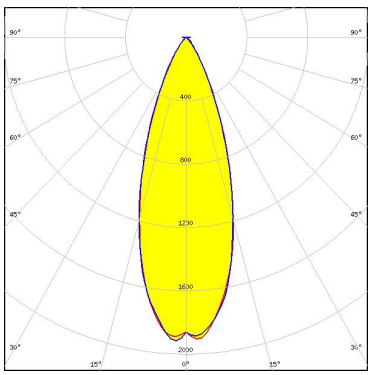
LED	LC020C
FWHM / FWTM	34.0° / 62.0°
Efficiency	90 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17438_HEKLA-G2-I	



Light distribution files

XICATO

LED	XOB 9.8 mm
FWHM / FWTM	36.0° / 65.0°
Efficiency	88 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17435_HEKLA-G2-C	



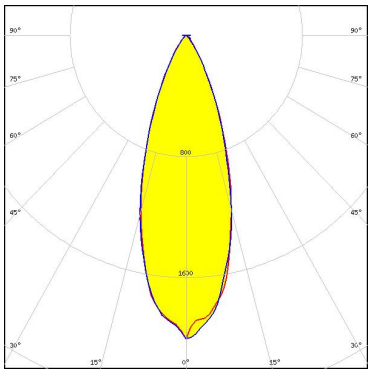
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

XICATO

LED	XTM - 9mm LES
FWHM / FWTM	35.0° / 64.0°
Efficiency	89 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C15743_XTM-ADAPTER-50-B	



Light distribution files

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

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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

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.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy
Joensuunkatu 13
FI-24240 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

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