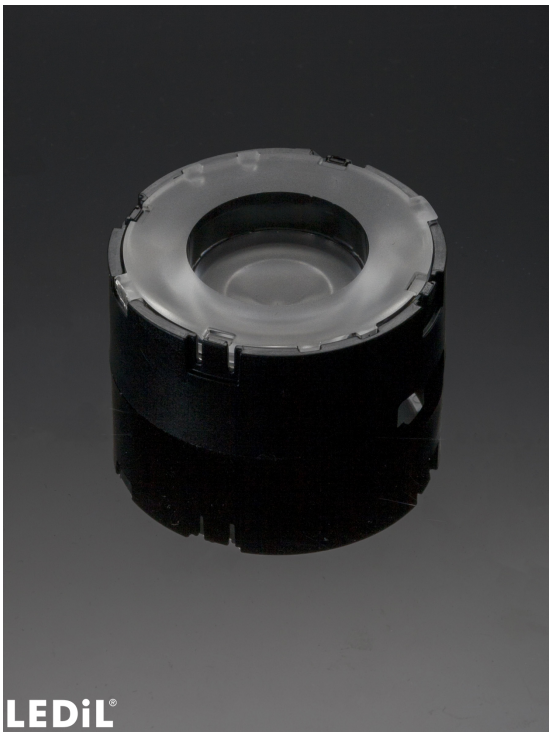
WINNIE-S-C

~20° spot beam with holder C compatible with LEDiL HEKLA



SPECIFICATION:

Dimensions	Ø 50.0 mm
Height	19.5 mm
Fastening	socket
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Length
C14232_WINNIE-S	Single lens	PMMA	clear		49.6
C15821_WINNIE-HLD-C	Holder	PC	black		50.0

ORDERING INFORMATION:

Quantities for one set:

Single lens	1
Holder	1

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

Component		Qty in box	MOQ	MPQ	Box weight (kg)
C14232_WINNIE-S » Box size: 480 x 280 x 300 mm	Single lens	364	84	28	7.0
C15821_WINNIE-HLD-C » Box size: 400 x 300 x 300 mm	Holder	420		28	4.1

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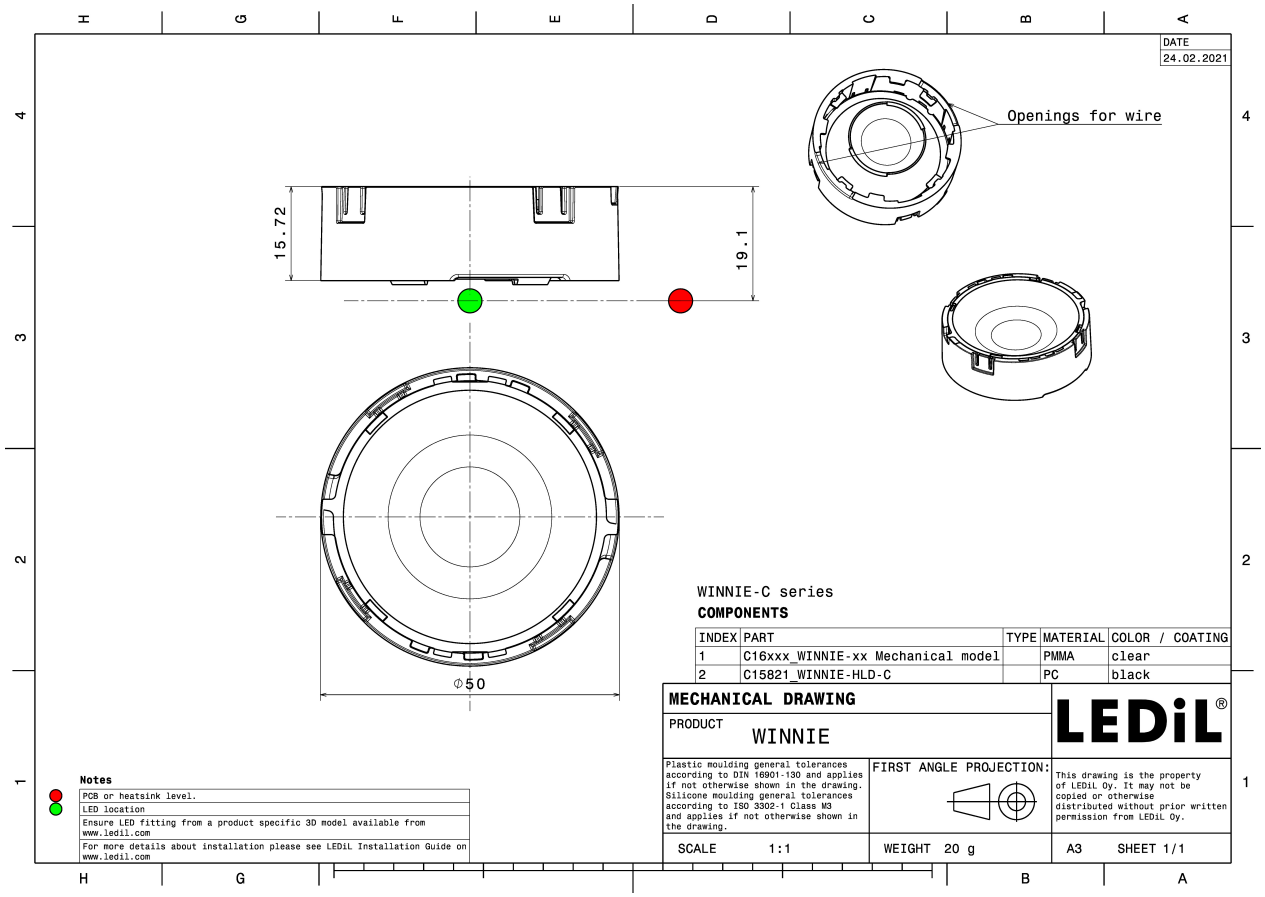


See also our general installation guide: www.ledil.com/installation_guide

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

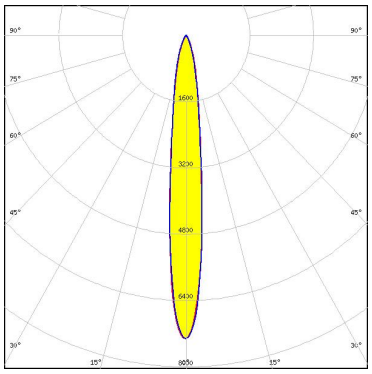
OPTICAL RESULTS (MEASURED):

bridgelux

LED	V4 HD Gen 7
FWHM / FWTM	13.0° / 34.0°
Efficiency	87 %
Peak intensity	7.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15253_HEKLA-SOCKET-A





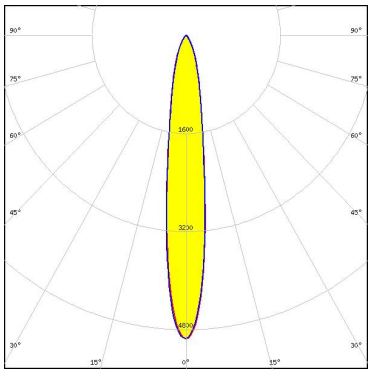
Light distribution files

bridgelux

LED	V6 Gen6
FWHM / FWTM	15.0° / 42.0°
Efficiency	84 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15253_HEKLA-SOCKET-A





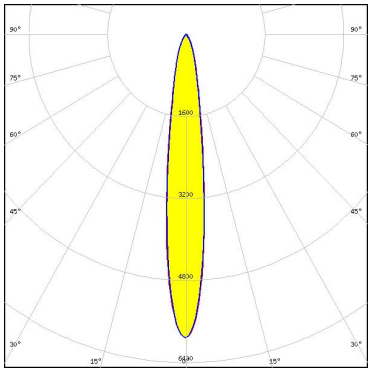
Light distribution files

bridgelux

LED	V6 HD Gen 7
FWHM / FWTM	15.0° / 37.0°
Efficiency	87 %
Peak intensity	5.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





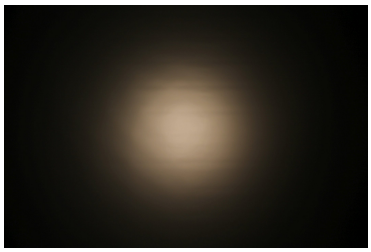
Light distribution files

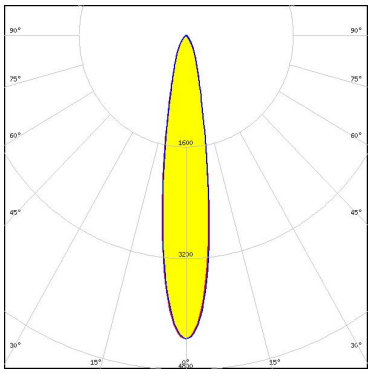
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

bridgelux

LED	V9 HD Gen7
FWHM / FWTM	18.0° / 43.0°
Efficiency	86 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



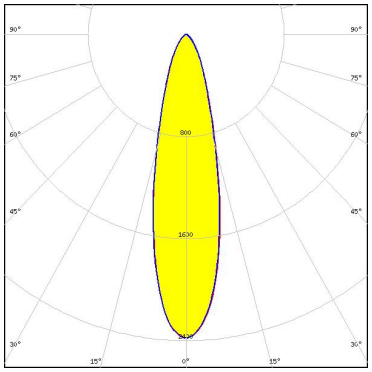


Light distribution files

bridgelux

LED	VERO13
FWHM / FWTM	26.0° / 59.0°
Efficiency	83 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	



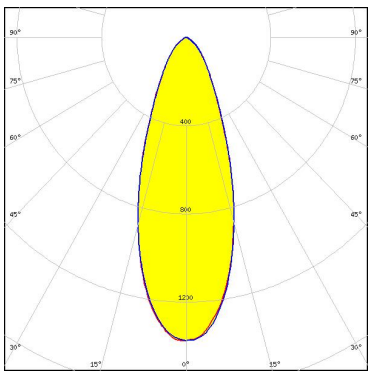


Light distribution files

bridgelux

LED	VERO18
FWHM / FWTM	37.0° / 79.0°
Efficiency	81 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	





Light distribution files

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

OPTICAL RESULTS (MEASURED):

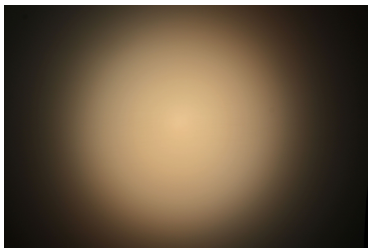
bridgelux

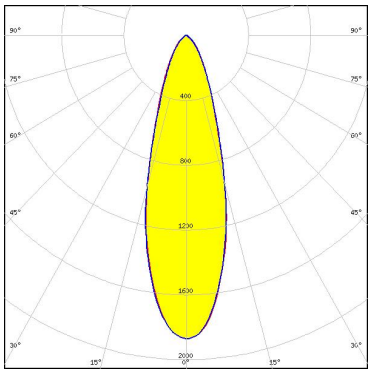
LED	Vesta DTW 13mm (21W)
FWHM / FWTM	31.0° / 66.0°
Efficiency	81 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 491 Typ L8





Light distribution files

bridgelux

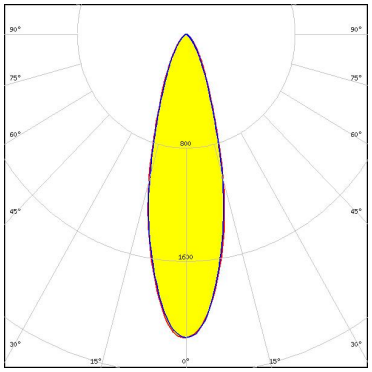
LED	Vesta TW 13mm (25W) CSP
FWHM / FWTM	29.0° / 62.0°
Efficiency	82 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 492 Typ L8





Light distribution files

bridgelux

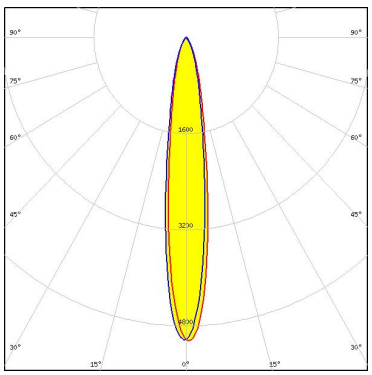
LED	Vesta TW 6mm DP
FWHM / FWTM	16.0° / 40.0°
Efficiency	82 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 504 Typ L8





Light distribution files

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

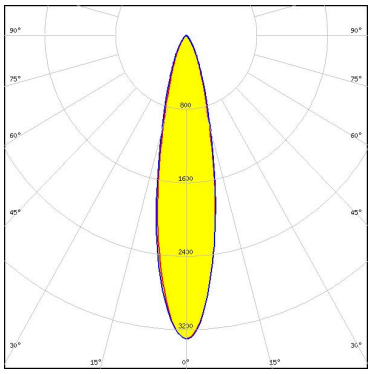
OPTICAL RESULTS (MEASURED):

bridgelux

LED	Vesta TW 9mm (12W) CSP
FWHM / FWTM	23.0° / 50.0°
Efficiency	84 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C16142_HEKLA-SOCKET-K





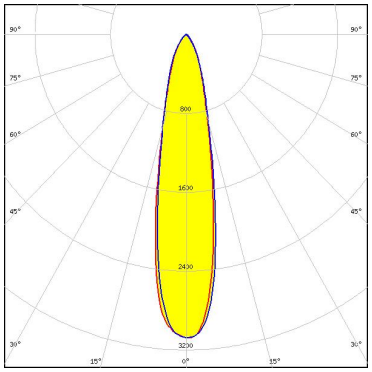
Light distribution files

CITIZEN

LED	CLC020 Series (Dim-To-Warm)
FWHM / FWTM	22.0° / 53.0°
Efficiency	83 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C16142_HEKLA-SOCKET-K





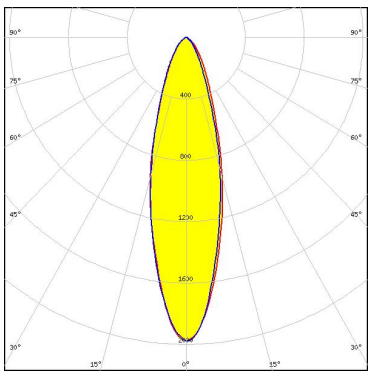
Light distribution files

CITIZEN

LED	CLC030 Series (Dim-To-Warm)
FWHM / FWTM	29.0° / 67.0°
Efficiency	80 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C16142_HEKLA-SOCKET-K





Light distribution files

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

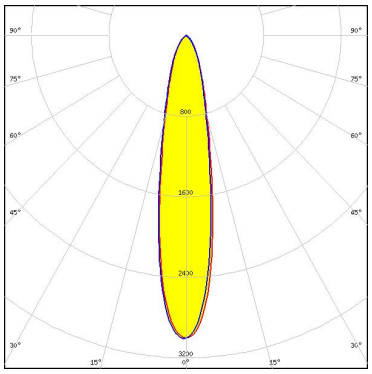
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	20.0° / 53.0°
Efficiency	81 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





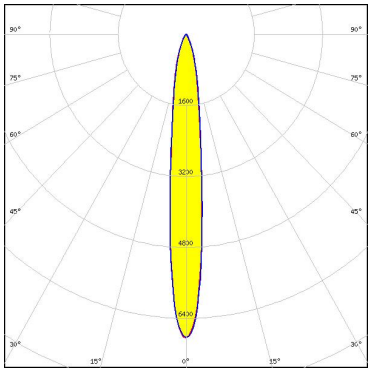
Light distribution files

CITIZEN

LED	CLU7A2/7A3
FWHM / FWTM	13.0° / 36.0°
Efficiency	85 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





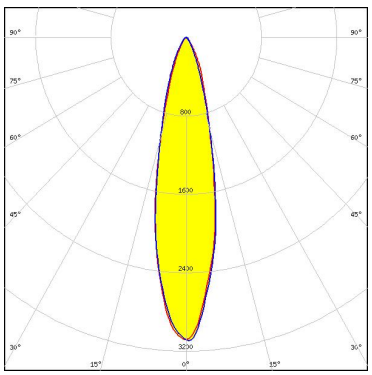
Light distribution files

CITIZEN

LED	LCN-C01B (Tunable White)
FWHM / FWTM	23.0° / 50.0°
Efficiency	83 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 481 Typ L8





Light distribution files

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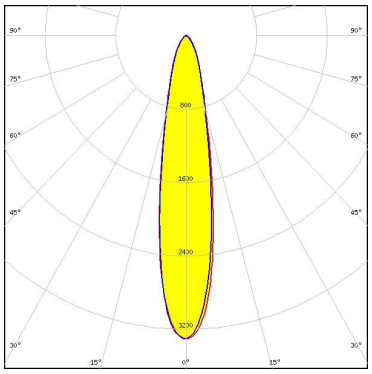
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CMT14xx
FWHM / FWTM	20.0° / 50.0°
Efficiency	85 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





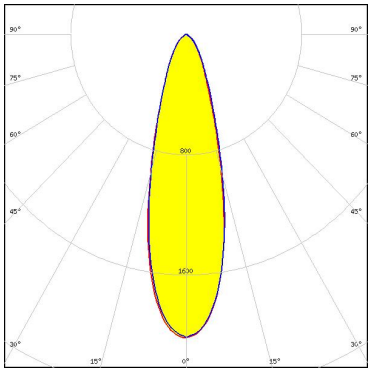
Light distribution files

CREE LEDs

LED	CMT19xx
FWHM / FWTM	29.0° / 65.0°
Efficiency	83 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15859_HEKLA-SOCKET-I





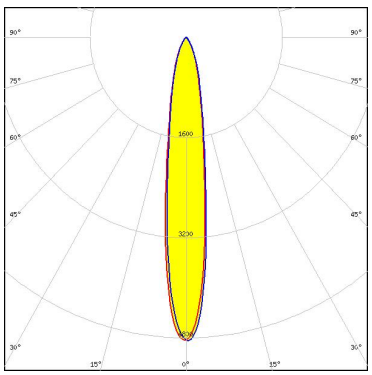
Light distribution files

CREE LEDs

LED	CXA/B 13xx
FWHM / FWTM	15.0° / 43.0°
Efficiency	85 %
Peak intensity	4.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15956_HEKLA-SOCKET-J





Light distribution files

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OPTICAL RESULTS (MEASURED):

LUMILEDS

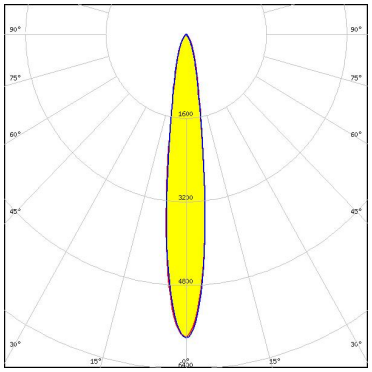
LED	LUXEON CX Plus CoB L08 (Gen2)
FWHM / FWTM	29.0° / 64.0°
Efficiency	84 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 637a Hekla	



LUMILEDS

LED	LUXEON CoB 1202HD
FWHM / FWTM	15.0° / 37.5 + 37.0°
Efficiency	87 %
Peak intensity	5.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15848_HEKLA-SOCKET-G	



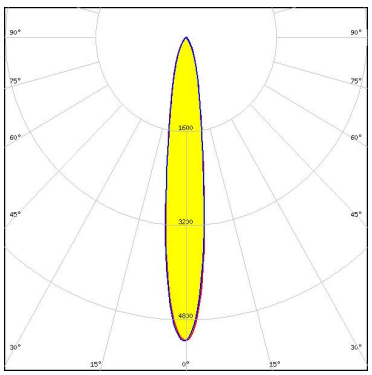


Light distribution files

LUMILEDS

LED	LUXEON CoB 1202s
FWHM / FWTM	15.0° / 41.0°
Efficiency	85 %
Peak intensity	5.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15848_HEKLA-SOCKET-G	





Light distribution files

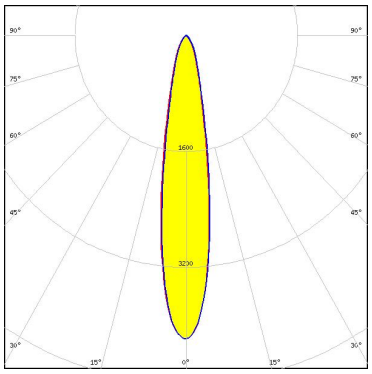
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1204HD
FWHM / FWTM	18.0° / 44.0°
Efficiency	87 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15858_HEKLA-SOCKET-H	



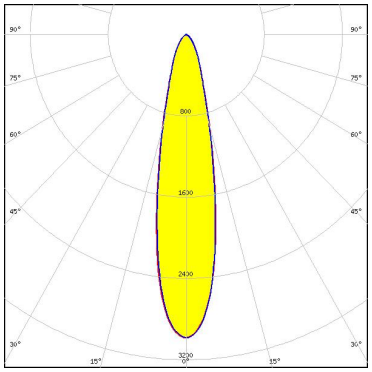


Light distribution files

LUMILEDS

LED	LUXEON CoB 1205HD
FWHM / FWTM	22.0° / 52.0°
Efficiency	85 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15858_HEKLA-SOCKET-H	



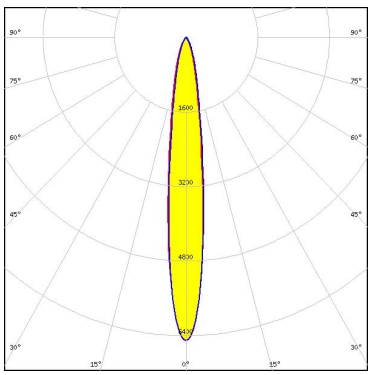


Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB - HD S01H4
FWHM / FWTM	14.0° / 36.0°
Efficiency	87 %
Peak intensity	6.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 634c Hekla	





Light distribution files

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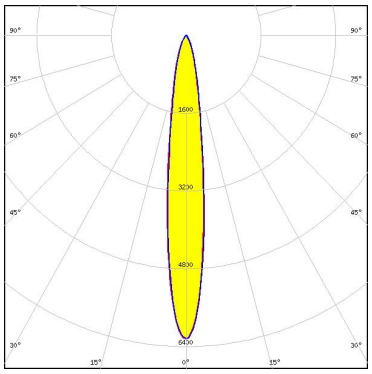
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CX Plus CoB - HD S02H6
FWHM / FWTM	14.0° / 36.0°
Efficiency	87 %
Peak intensity	6.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
Bender Wirth: 634c Hekla



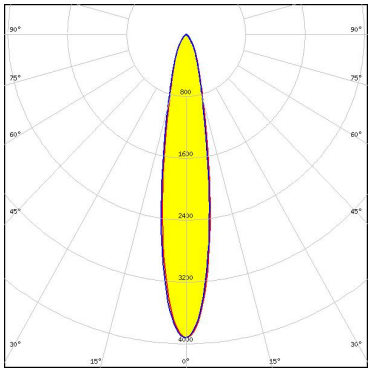


Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB - HD S04H9
FWHM / FWTM	19.0° / 46.0°
Efficiency	86 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
Bender Wirth: 634c Hekla

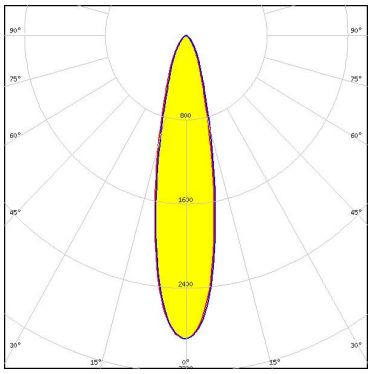


LUMILEDS

LED	LUXEON CX Plus CoB L04 / L05 (Gen2)
FWHM / FWTM	23.0° / 55.0°
Efficiency	85 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
Bender Wirth: 637a Hekla





Light distribution files

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

OPTICAL RESULTS (MEASURED):

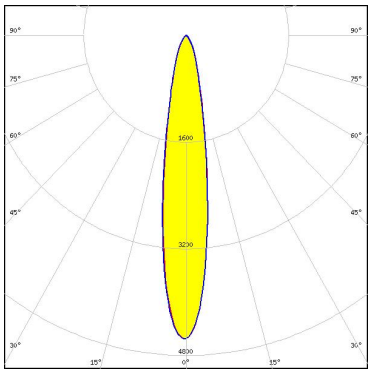
LUMILEDS

LED	LUXEON CX Plus CoB M02 / M03 (Gen2)
FWHM / FWTM	18.0° / 43.0°
Efficiency	87 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

Bender Wirth: 641a Hekla





Light distribution files

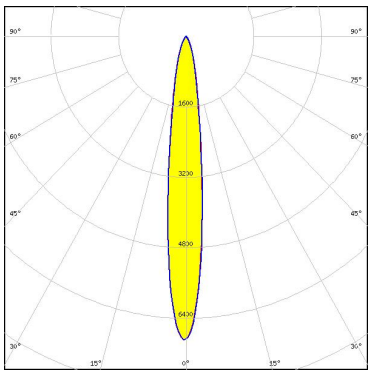
LUMILEDS

LED	LUXEON CX Plus CoB S01 (Gen2)
FWHM / FWTM	14.0° / 35.0°
Efficiency	87 %
Peak intensity	6.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

Bender Wirth: 634c Hekla





Light distribution files

LUMILEDS

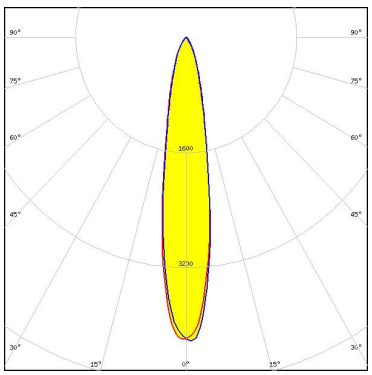
LED	LUXEON Fusion 12-up (20x24)
FWHM / FWTM	18.0° / 45.0°
Efficiency	84 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 442 Typ L8





Light distribution files

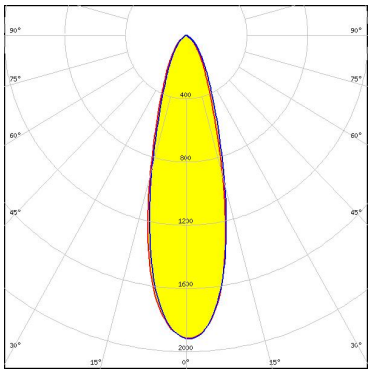
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMINUS

LED	CxM-14 (19x19)
FWHM / FWTM	29.0° / 67.0°
Efficiency	83 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



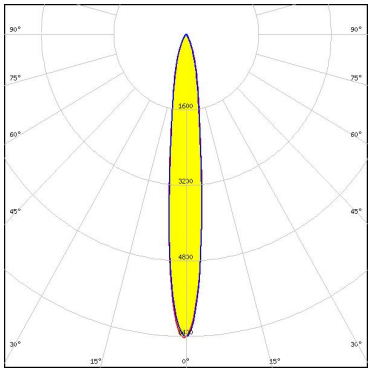


Light distribution files

LUMINUS

LED	CXM-4
FWHM / FWTM	13.0° / 37.0°
Efficiency	84 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



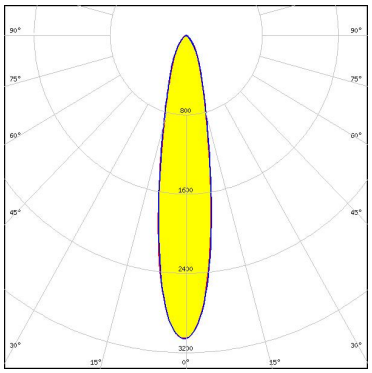


Light distribution files

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	20.0° / 53.0°
Efficiency	83 %
Peak intensity	3.1 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.

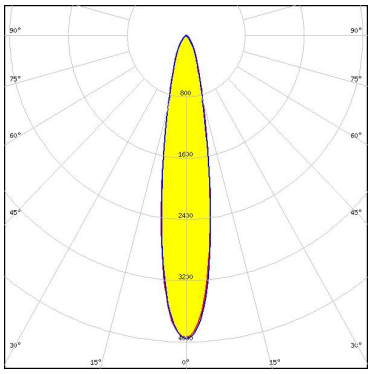
OPTICAL RESULTS (MEASURED):

PHILIPS

LED	Fortimo SLM L09 CoB
FWHM / FWTM	19.0° / 46.0°
Efficiency	87 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15858_HEKLA-SOCKET-H





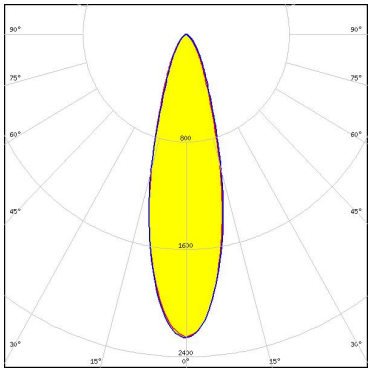
Light distribution files

PHILIPS

LED	Fortimo SLM L13 CoB
FWHM / FWTM	28.0° / 61.0°
Efficiency	84 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 432 Typ L8





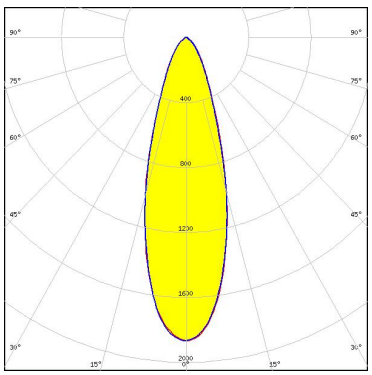
Light distribution files

PHILIPS

LED	Fortimo SLM L15 CoB
FWHM / FWTM	32.0° / 67.0°
Efficiency	83 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 432 Typ L8





Light distribution files

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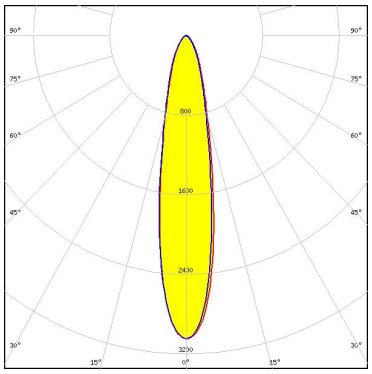
OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LC003D / LC006D / LC009D / LC013D
FWHM / FWTM	21.0° / 53.0°
Efficiency	83 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



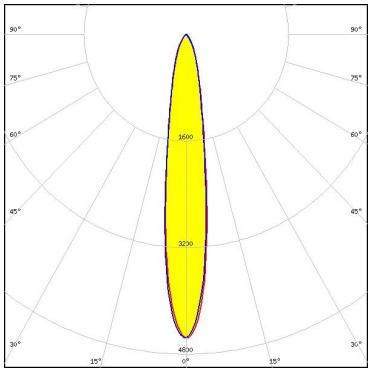


Light distribution files

SAMSUNG

LED	LC010C
FWHM / FWTM	16.0° / 43.0°
Efficiency	84 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15848_HEKLA-SOCKET-G	



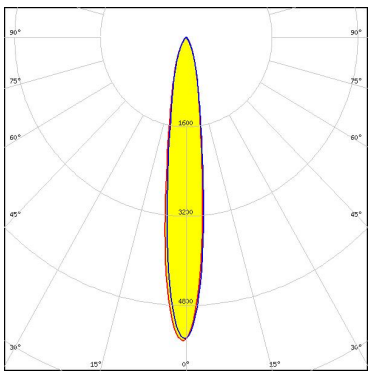


Light distribution files

SAMSUNG

LED	LC010C G2
FWHM / FWTM	14.0° / 39.0°
Efficiency	84 %
Peak intensity	5.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	





Light distribution files

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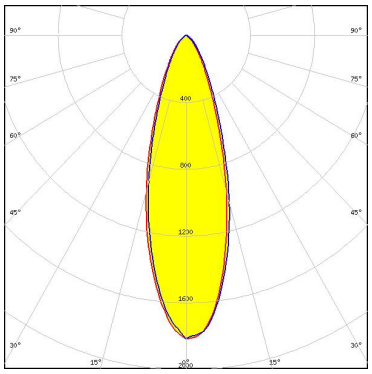
OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D
FWHM / FWTM	32.0° / 67.0°
Efficiency	81 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



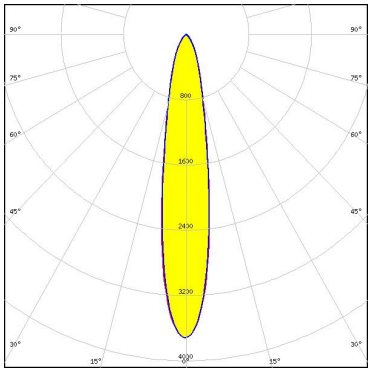


Light distribution files

SAMSUNG

LED	LC020C
FWHM / FWTM	18.0° / 48.0°
Efficiency	84 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15848_HEKLA-SOCKET-G	



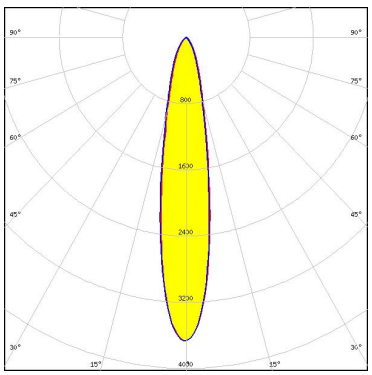


Light distribution files

SAMSUNG

LED	LC020C G2
FWHM / FWTM	19.0° / 48.0°
Efficiency	84 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	





Light distribution files

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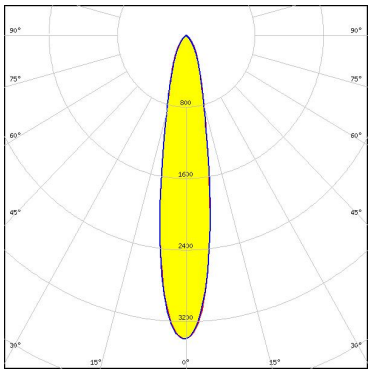
OPTICAL RESULTS (MEASURED):

TRIDONIC

LED	SLE G7 LES09
FWHM / FWTM	19.0° / 50.0°
Efficiency	83 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



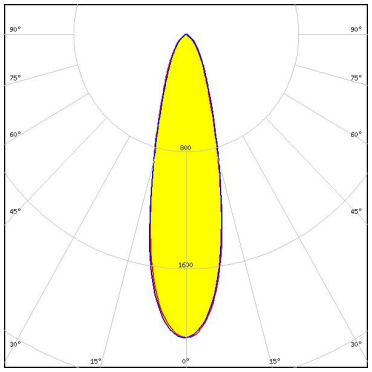


Light distribution files

TRIDONIC

LED	SLE G7 LES13
FWHM / FWTM	27.0° / 64.0°
Efficiency	81 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



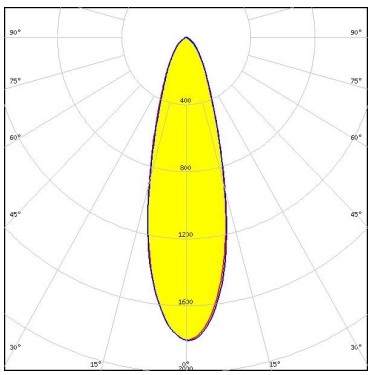


Light distribution files

TRIDONIC

LED	SLE G7 LES15
FWHM / FWTM	30.0° / 68.0°
Efficiency	81 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	





Light distribution files

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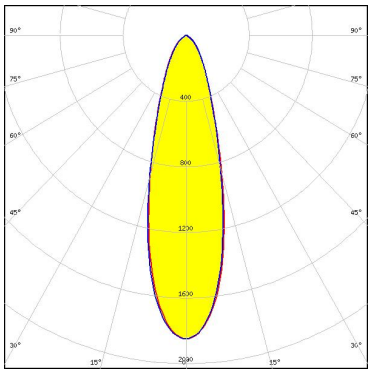
OPTICAL RESULTS (MEASURED):

XICATO

LED	XOB 14.5 mm
FWHM / FWTM	29.0° / 68.0°
Efficiency	80 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



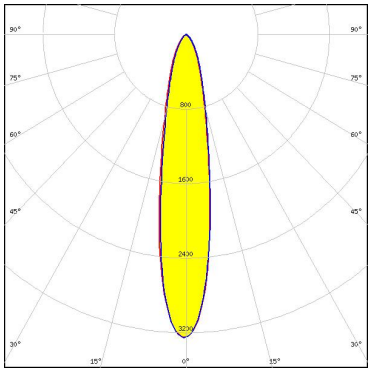


Light distribution files

XICATO

LED	XOB 9.8 mm
FWHM / FWTM	20.0° / 52.0°
Efficiency	83 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	





Light distribution files

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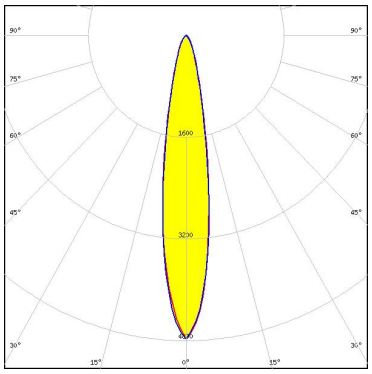
OPTICAL RESULTS (SIMULATED):

bridgelux

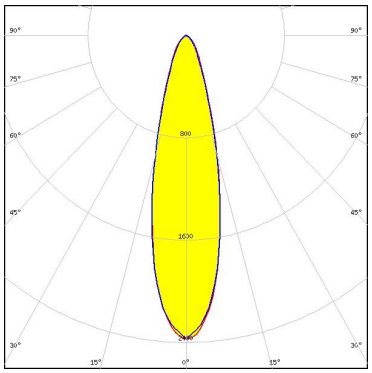
LED	VERO10
FWHM / FWTM	18.0° / 40.0°
Efficiency	86 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15616_HEKLA-SOCKET-F	



Light distribution files

CITIZEN

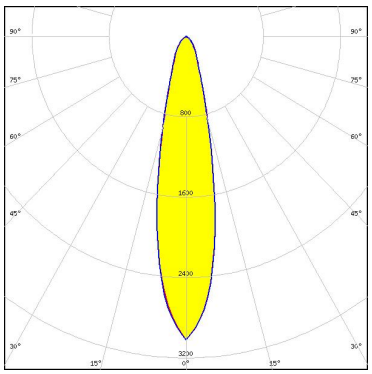
LED	CLL03x/CLU03x
FWHM / FWTM	26.0° / 57.0°
Efficiency	79 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



Light distribution files

CREE LEDs

LED	CMA1825
FWHM / FWTM	22.0° / 50.0°
Efficiency	84 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15254_HEKLA-SOCKET-B	



Light distribution files

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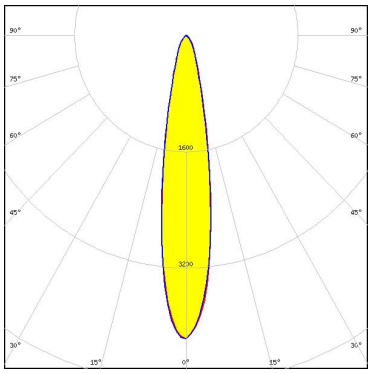
OPTICAL RESULTS (SIMULATED):

CREE LEDs

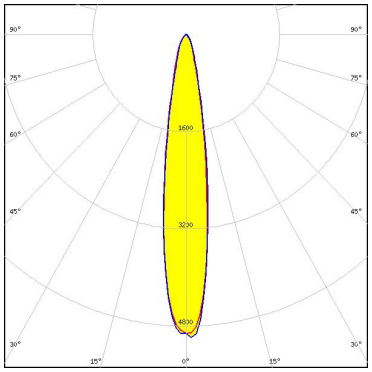
LED	CMT14xx
FWHM / FWTM	19.0° / 43.0°
Efficiency	85 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



Light distribution files

CREE LEDs

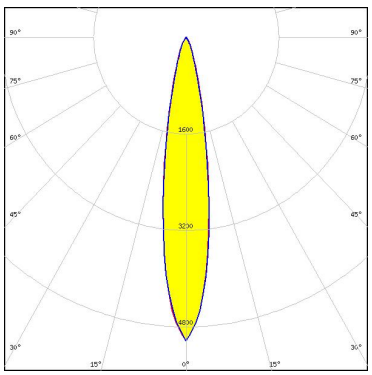
LED	CXA/B 15xx
FWHM / FWTM	18.0° / 38.0°
Efficiency	84 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15256_HEKLA-SOCKET-D	



Light distribution files

NICHIA

LED	NFSWE11A
FWHM / FWTM	18.0° / 38.0°
Efficiency	77 %
Peak intensity	5 cd/lm
LEDs/each optic	30
Light colour/type	White
Required components:	



Light distribution files

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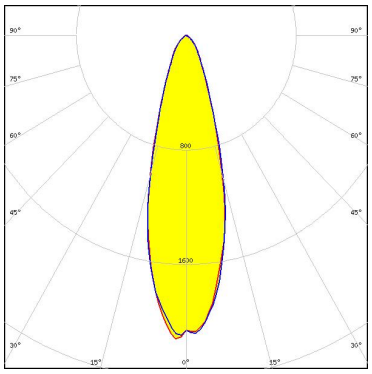
OPTICAL RESULTS (SIMULATED):

SAMSUNG

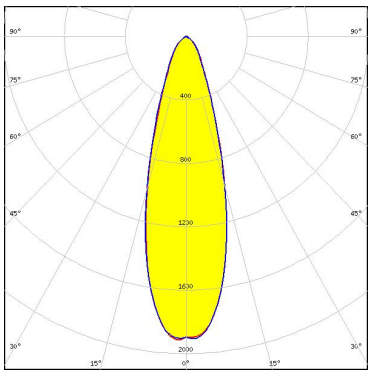
LED	LC016D / LC019D / LC026D / LC033D
FWHM / FWTM	29.0° / 60.0°
Efficiency	82 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

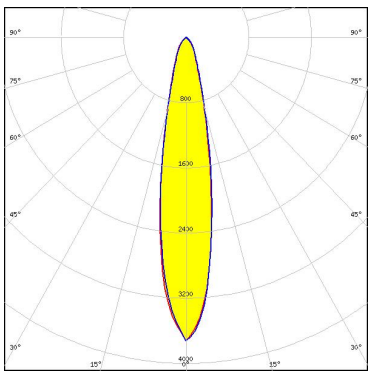
LED	MJT COB LES 14.5
FWHM / FWTM	30.0° / 65.0°
Efficiency	81 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



Light distribution files

SEOUL SEMICONDUCTOR

LED	MJT COB LES 9.8
FWHM / FWTM	20.0° / 45.0°
Efficiency	83 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



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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