ILONA-RS

~10° spot beam



TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.8 mm
Height	29.3 mm
Fastening	socket
ROHS compliant	yes

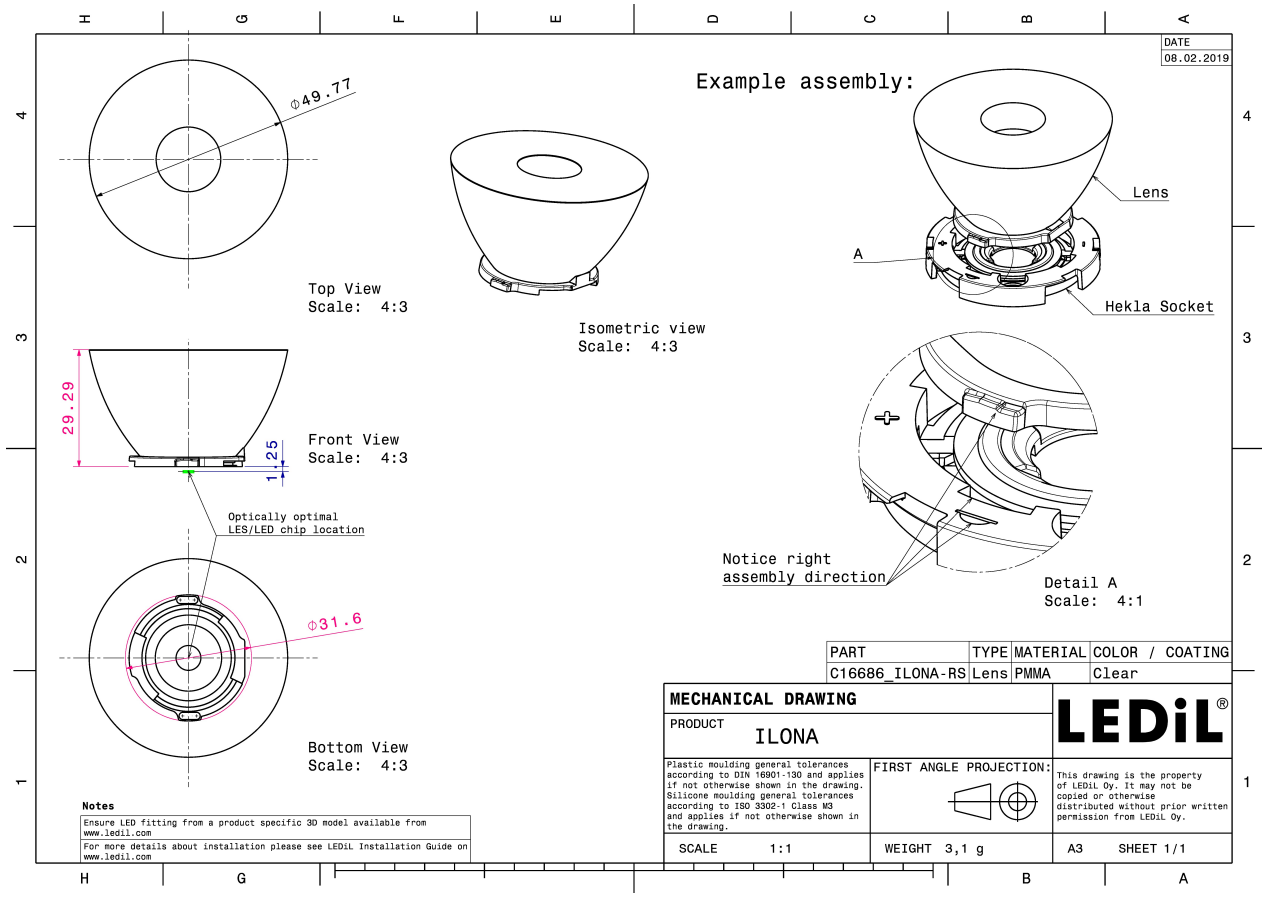
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
ILONA-RS	Single lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16686_ILONA-RS » Box size: 480 x 280 x 300 mm	264	99	33	9.6

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

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PHOTOMETRIC DATA (MEASURED):

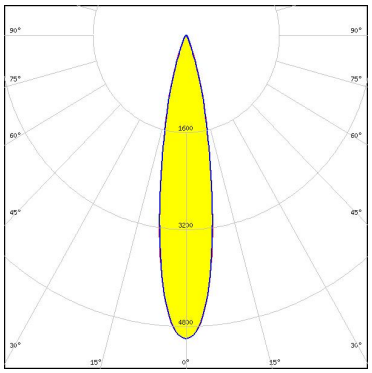
bridgelux

LED	V11 HD Gen 8
FWHM / FWTM	20.0° / 40.0°
Efficiency	93 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

Bender Wirth: 633d Hekla



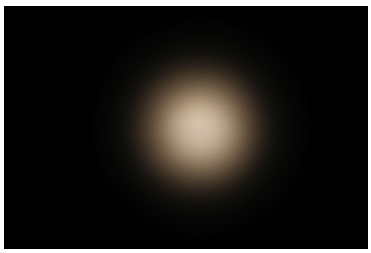


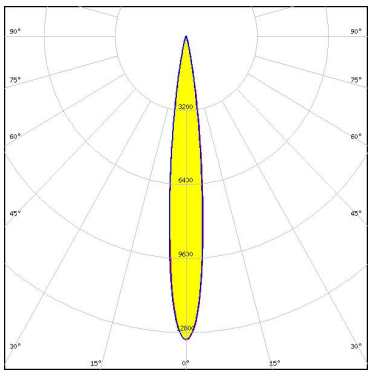
bridgelux

LED	V6 HD Gen 7
FWHM / FWTM	13.0° / 24.0°
Efficiency	94 %
Peak intensity	13.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

Bender Wirth: 634c Hekla





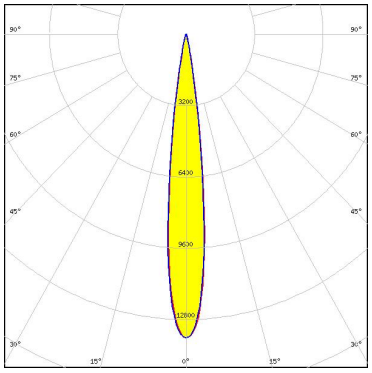
bridgelux

LED	V6 HD Gen 7
FWHM / FWTM	14.0° / 23.0°
Efficiency	95 %
Peak intensity	13.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15255_HEKLA-SOCKET-C





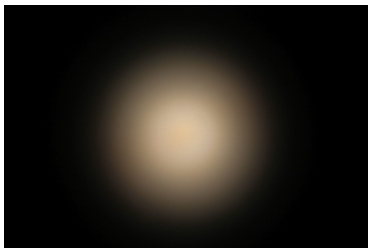
bridgelux

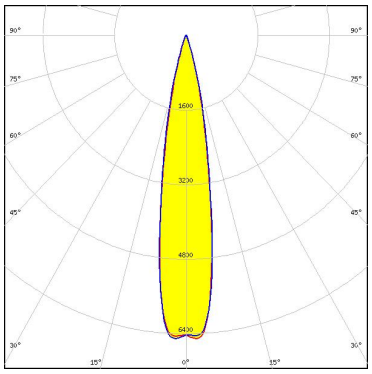
LED	Vesta DTW 9mm (4W/6W/12W)
FWHM / FWTM	19.0° / 34.0°
Efficiency	93 %
Peak intensity	6.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 490 Typ L8





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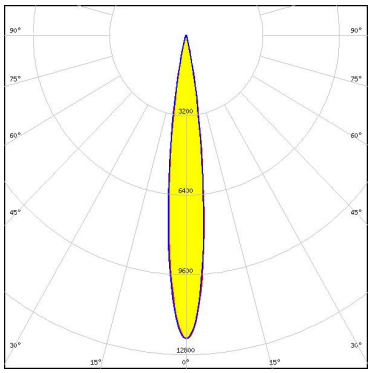
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	Vesta TW 6mm DP
FWHM / FWTM	14.0° / 25.0°
Efficiency	91 %
Peak intensity	12.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 504 Typ L8

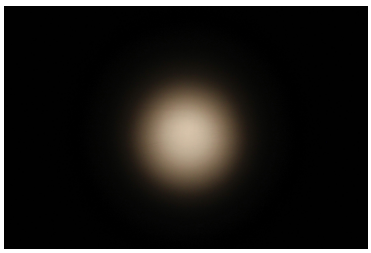


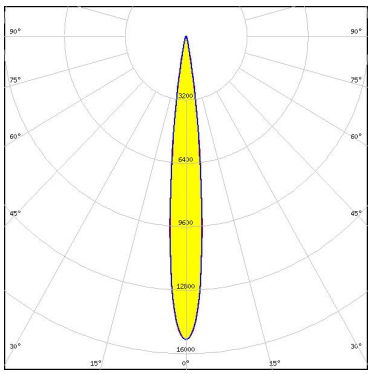


CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	12.0° / 22.0°
Efficiency	96 %
Peak intensity	15.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15255_HEKLA-SOCKET-C

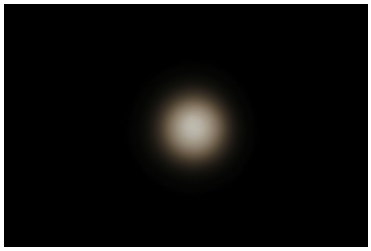


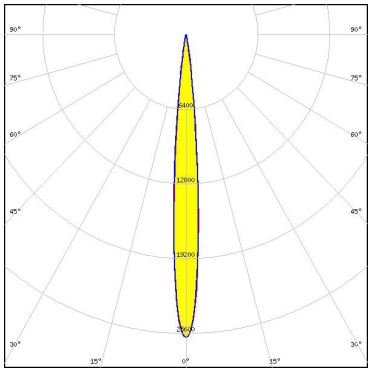


CITIZEN

LED	CLU7A2/7A3
FWHM / FWTM	9.0° / 17.0°
Efficiency	94 %
Peak intensity	26 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15255_HEKLA-SOCKET-C

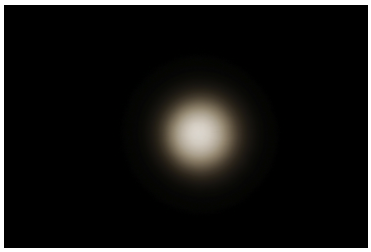


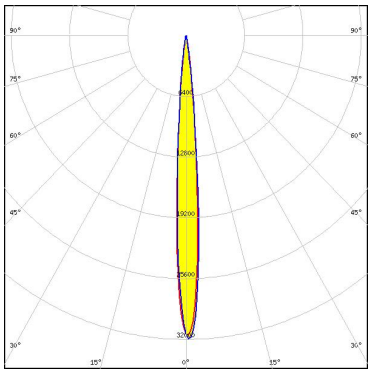


CITIZEN

LED	CLU7B2
FWHM / FWTM	8.0° / 16.0°
Efficiency	94 %
Peak intensity	32.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15255_HEKLA-SOCKET-C





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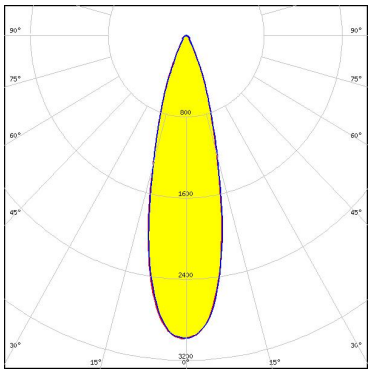
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CX Plus CoB L08 (Gen2)
FWHM / FWTM	28.0° / 52.0°
Efficiency	93 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
Bender Wirth: 637a Hekla

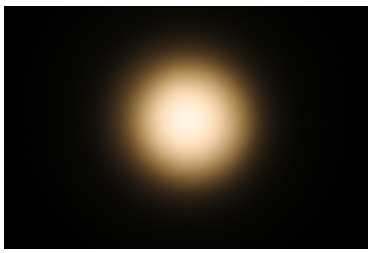


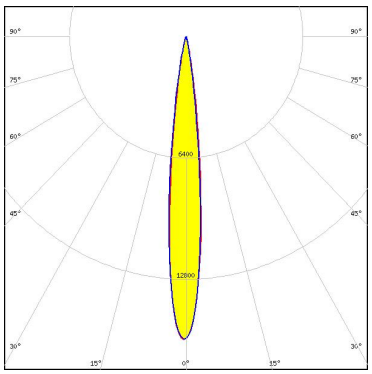


LUMILEDS

LED	LUXEON CX Plus CoB - HD S01H4
FWHM / FWTM	12.0° / 22.0°
Efficiency	94 %
Peak intensity	16 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
Bender Wirth: 634c Hekla

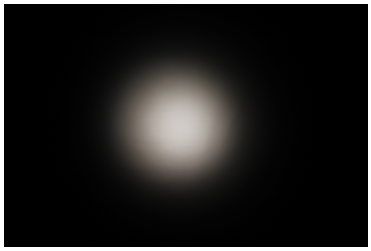


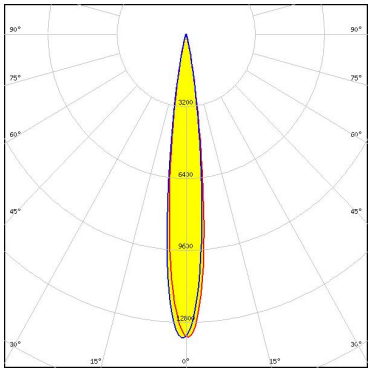


LUMILEDS

LED	LUXEON CX Plus CoB - HD S01H6 / HD S02H6
FWHM / FWTM	13.0° / 24.0°
Efficiency	94 %
Peak intensity	13.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
Bender Wirth: 634c Hekla



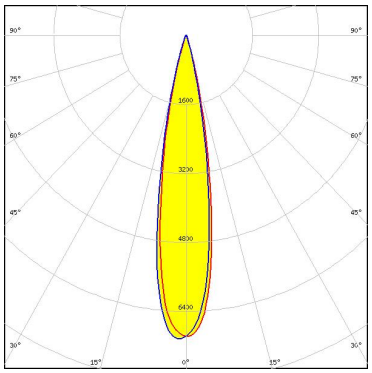


LUMILEDS

LED	LUXEON CX Plus CoB - HD S04H9
FWHM / FWTM	19.0° / 33.0°
Efficiency	94 %
Peak intensity	7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
Bender Wirth: 634c Hekla





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PHOTOMETRIC DATA (MEASURED):

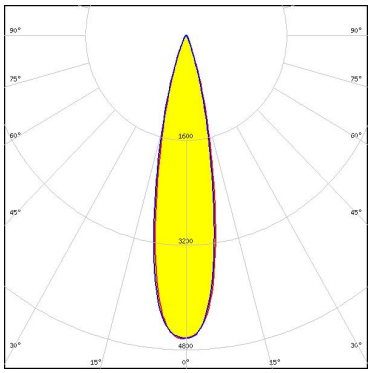
LUMILEDS

LED	LUXEON CX Plus CoB L04 / L05 (Gen2)
FWHM / FWTM	23.0° / 41.0°
Efficiency	93 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

Bender Wirth: 637a Hekla





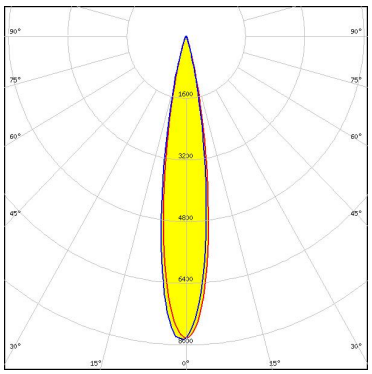
LUMILEDS

LED	LUXEON CX Plus CoB M02 / M03 (Gen2)
FWHM / FWTM	17.0° / 32.0°
Efficiency	93 %
Peak intensity	7.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

Bender Wirth: 641a Hekla



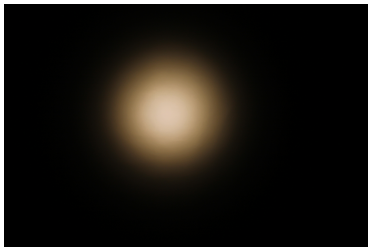


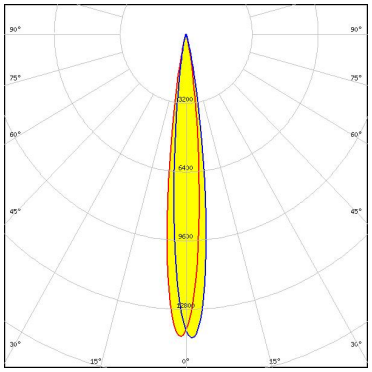
LUMILEDS

LED	LUXEON CX Plus CoB S01 (Gen2)
FWHM / FWTM	12.0° / 23.0°
Efficiency	93 %
Peak intensity	14.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

Bender Wirth: 634c Hekla



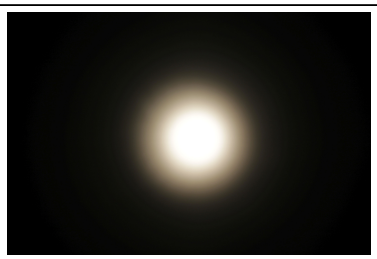


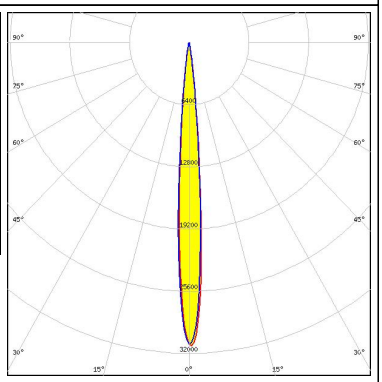
LUMINUS

LED	CXM-3
FWHM / FWTM	9.0° / 16.0°
Efficiency	94 %
Peak intensity	31.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15255_HEKLA-SOCKET-C





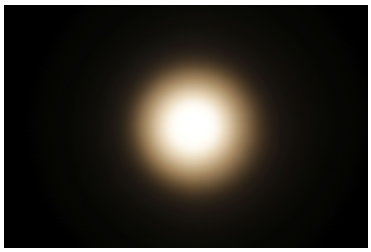
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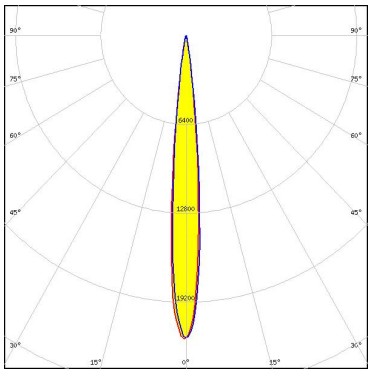
PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CXM-4
FWHM / FWTM	10.0° / 19.0°
Efficiency	94 %
Peak intensity	21.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15255_HEKLA-SOCKET-C

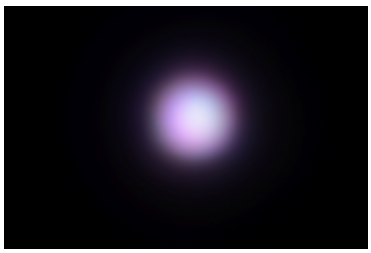


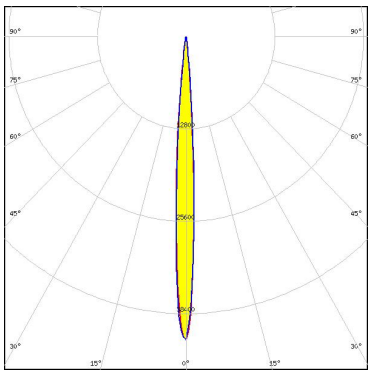


OSRAM
Opto Semiconductors

LED	OSTAR Stage (S2WN)
FWHM / FWTM	7.0° / 13.0°
Efficiency	94 %
Peak intensity	42.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15859_HEKLA-SOCKET-I

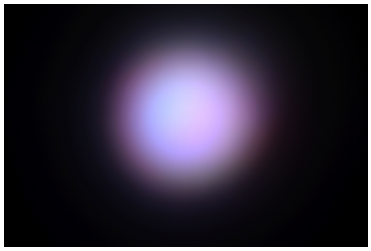


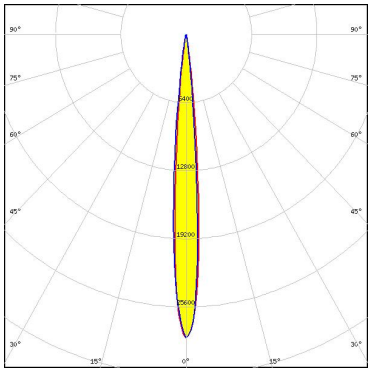


OSRAM
Opto Semiconductors

LED	OSTAR Stage (S2WP)
FWHM / FWTM	9.0° / 16.0°
Efficiency	94 %
Peak intensity	29.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15859_HEKLA-SOCKET-I



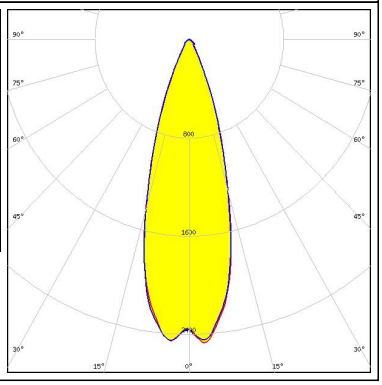


SEOUL SEMICONDUCTOR

LED	MJT COB LES 14.5
FWHM / FWTM	31.0° / 55.0°
Efficiency	94 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F17438_HEKLA-G2-I





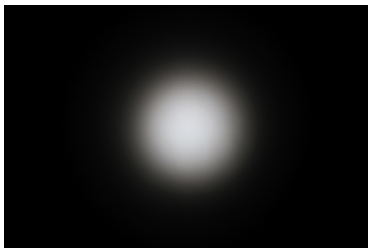
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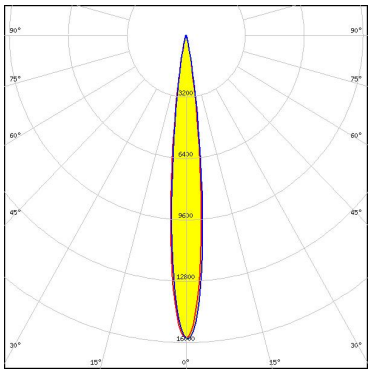
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR

LED	MJT COB LES 6
FWHM / FWTM	12.0° / 22.0°
Efficiency	95 %
Peak intensity	15.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F17435_HEKLA-G2-C



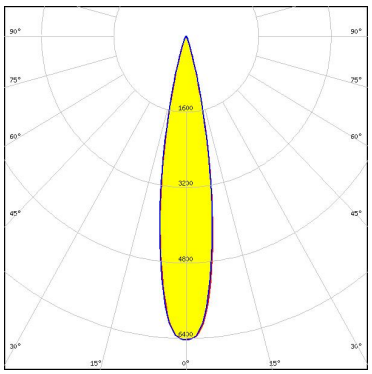


SEOUL SEMICONDUCTOR

LED	MJT COB LES 9.8
FWHM / FWTM	20.0° / 34.0°
Efficiency	95 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F17435_HEKLA-G2-C

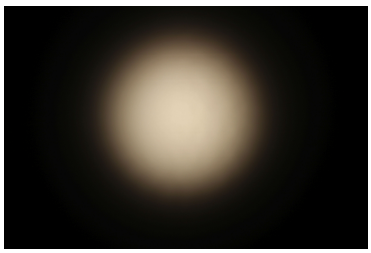


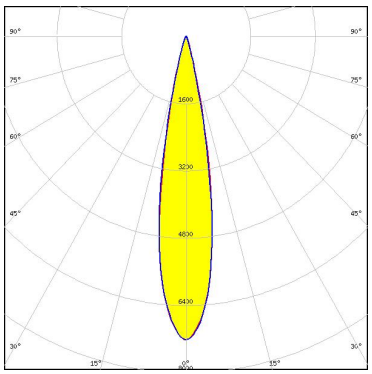


TRIDONIC

LED	SLE G7 LES09
FWHM / FWTM	20.0° / 32.0°
Efficiency	95 %
Peak intensity	7.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15255_HEKLA-SOCKET-C

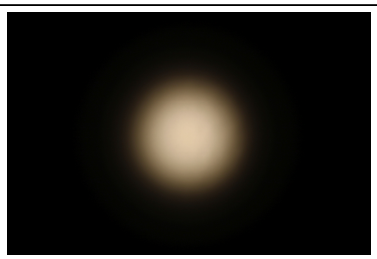


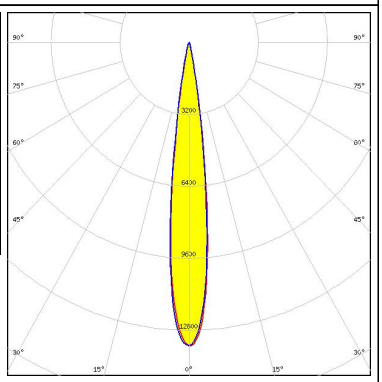


XICATO

LED	XOB 6 mm
FWHM / FWTM	14.0° / 23.0°
Efficiency	93 %
Peak intensity	13.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15255_HEKLA-SOCKET-C





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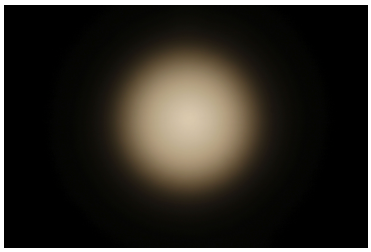
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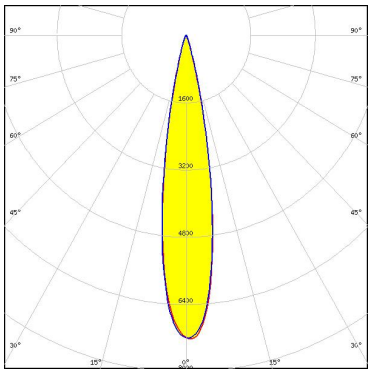
XICATO

LED	XOB 9.8 mm
FWHM / FWTM	19.0° / 32.0°
Efficiency	94 %
Peak intensity	7.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15255_HEKLA-SOCKET-C



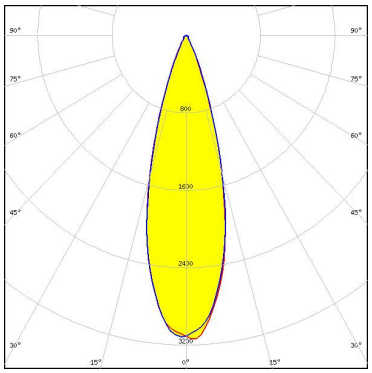


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PHOTOMETRIC DATA (SIMULATED):

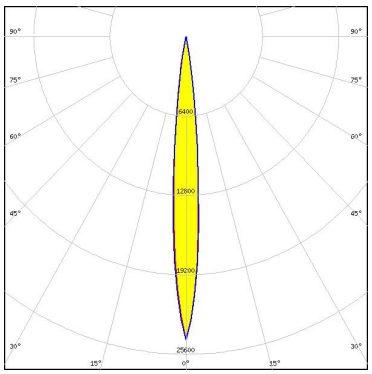
bridgelux

LED	V13 Gen 8
FWHM / FWTM	30.0° / 50.0°
Efficiency	93 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15859_HEKLA-SOCKET-I	



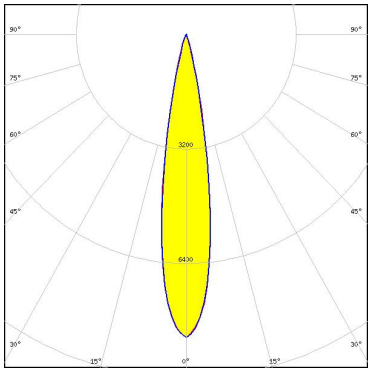
bridgelux

LED	V4 HD Gen 7
FWHM / FWTM	10.0° / 20.0°
Efficiency	95 %
Peak intensity	24.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15253_HEKLA-SOCKET-A	



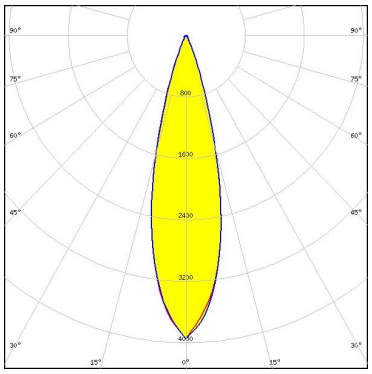
bridgelux

LED	V9 HD Gen7
FWHM / FWTM	18.0° / 30.0°
Efficiency	94 %
Peak intensity	8.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15859_HEKLA-SOCKET-I	



bridgelux

LED	Vero SE 10
FWHM / FWTM	16.0° / 34.0°
Efficiency	94 %
Peak intensity	7.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



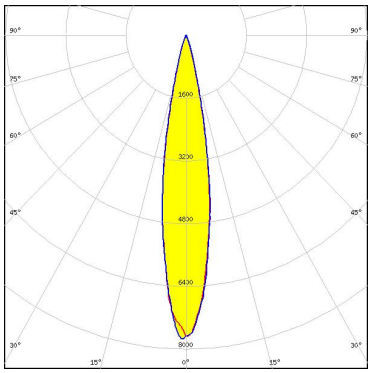
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PHOTOMETRIC DATA (SIMULATED):

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	18.0° / 33.0°
Efficiency	92 %
Peak intensity	7.8 cd/lm
LEDs/each optic	1
Light colour	White

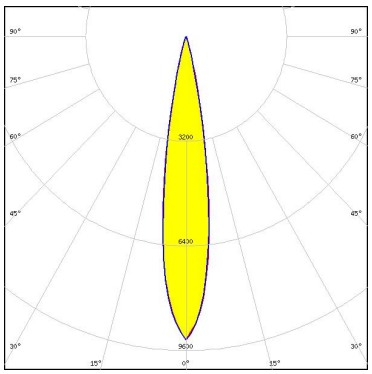
Required components:
F15255_HEKLA-SOCKET-C



CITIZEN

LED	CLU710/711
FWHM / FWTM	17.0° / 30.0°
Efficiency	92 %
Peak intensity	9.3 cd/lm
LEDs/each optic	1
Light colour	White

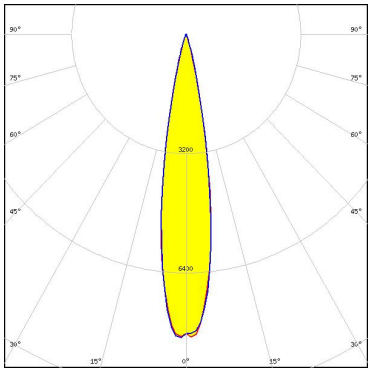
Required components:
F15859_HEKLA-SOCKET-I



CITIZEN

LED	CLU712/713
FWHM / FWTM	18.0° / 31.0°
Efficiency	94 %
Peak intensity	8.2 cd/lm
LEDs/each optic	1
Light colour	White

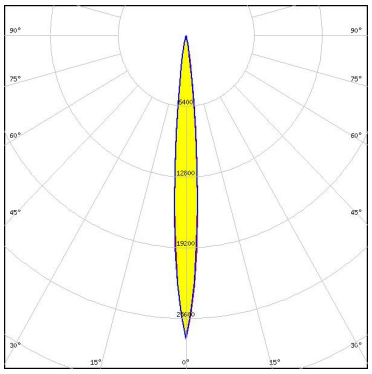
Required components:
F17438_HEKLA-G2-I



CREE LED

LED	CHA0304
FWHM / FWTM	9.0° / 18.0°
Efficiency	95 %
Peak intensity	27.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F17435_HEKLA-G2-C



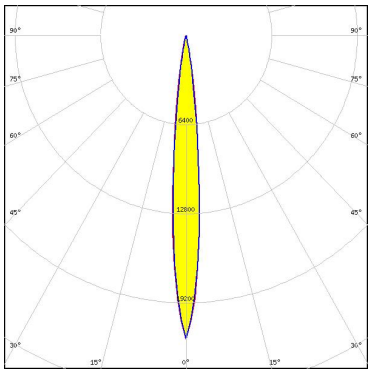
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PHOTOMETRIC DATA (SIMULATED):

CREE LED

LED	CHA0410
FWHM / FWTM	10.0° / 20.0°
Efficiency	95 %
Peak intensity	21.8 cd/lm
LEDs/each optic	1
Light colour	White

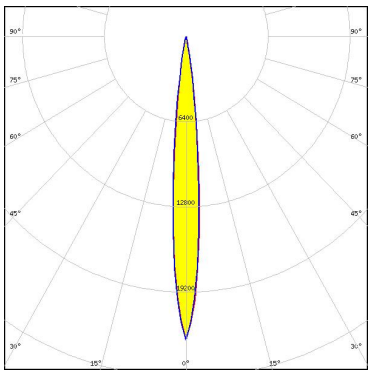
Required components:
F17435_HEKLA-G2-C



CREE LED

LED	CMA1303
FWHM / FWTM	10.0° / 20.0°
Efficiency	95 %
Peak intensity	22.8 cd/lm
LEDs/each optic	1
Light colour	White

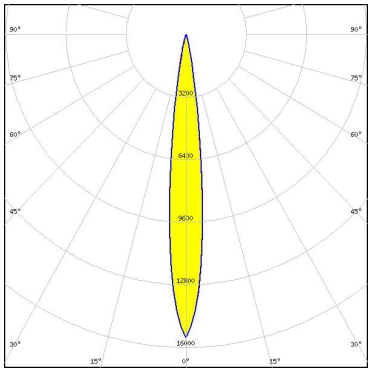
Required components:
F17439_HEKLA-G2-J



CREE LED

LED	CMA1306
FWHM / FWTM	12.0° / 24.0°
Efficiency	95 %
Peak intensity	15.5 cd/lm
LEDs/each optic	1
Light colour	White

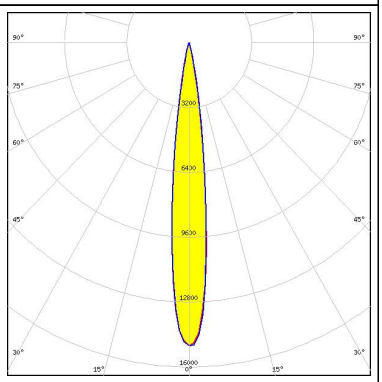
Required components:
F15956_HEKLA-SOCKET-J



CREE LED

LED	CXA/B 13xx
FWHM / FWTM	13.0° / 24.0°
Efficiency	93 %
Peak intensity	15 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F15956_HEKLA-SOCKET-J



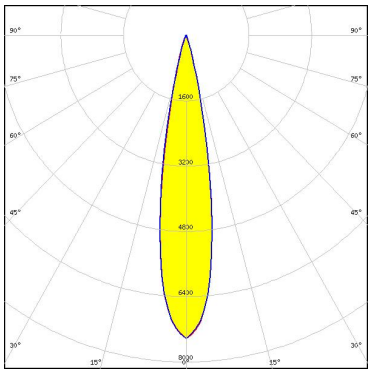
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PHOTOMETRIC DATA (SIMULATED):

CREE LED

LED	CXA/B 15xx
FWHM / FWTM	20.0° / 32.0°
Efficiency	92 %
Peak intensity	7.4 cd/lm
LEDs/each optic	1
Light colour	White

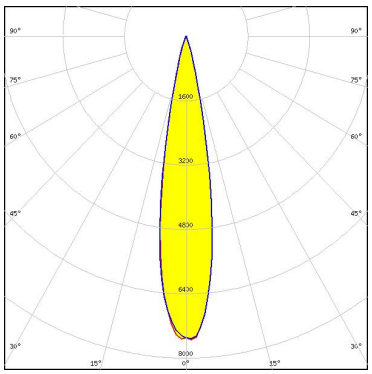
Required components:
F17436_HEKLA-G2-D



CREE LED

LED	CXA/B 15xx
FWHM / FWTM	19.0° / 32.0°
Efficiency	93 %
Peak intensity	7.6 cd/lm
LEDs/each optic	1
Light colour	White

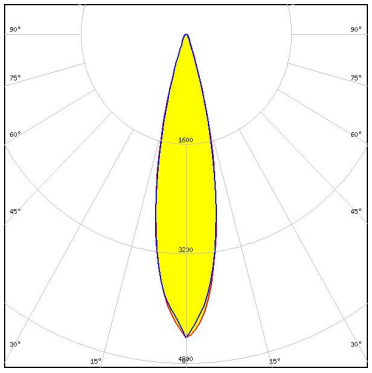
Required components:
F15256_HEKLA-SOCKET-D



CREE LED

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	23.0° / 40.0°
Efficiency	93 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour	White

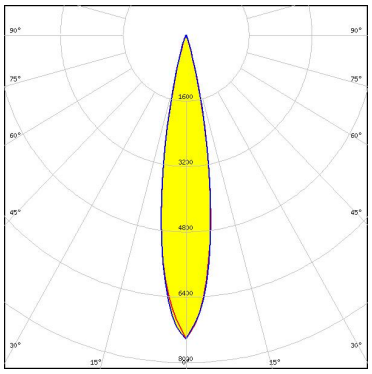
Required components:
F15254_HEKLA-SOCKET-B



LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	18.0° / 33.0°
Efficiency	93 %
Peak intensity	7.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
F17437_HEKLA-G2-H



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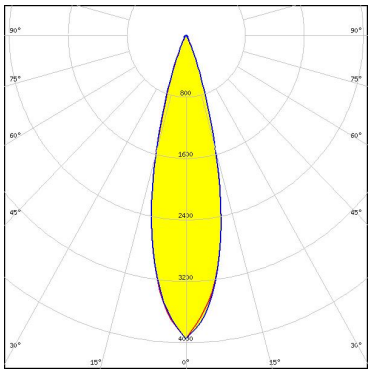
PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED	LUXEON CoB 1202s
FWHM / FWTM	12.0° / 24.0°
Efficiency	95 %
Peak intensity	15.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

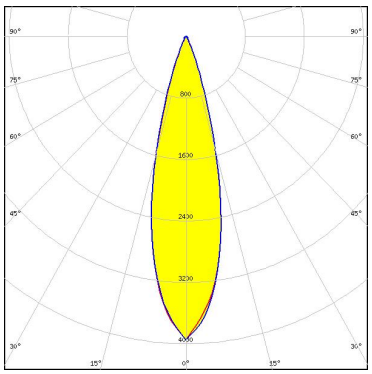
F15858_HEKLA-SOCKET-H



LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM / FWTM	26.0° / 44.0°
Efficiency	94 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

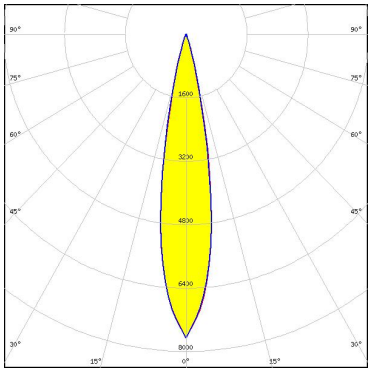


LUMILEDS

LED	LUXEON CoB 1204HD
FWHM / FWTM	20.0° / 32.0°
Efficiency	94 %
Peak intensity	7.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F17437_HEKLA-G2-H

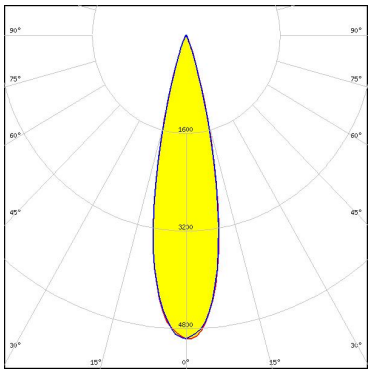


LUMILEDS

LED	LUXEON CoB 1205HD
FWHM / FWTM	24.0° / 39.0°
Efficiency	94 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F17437_HEKLA-G2-H

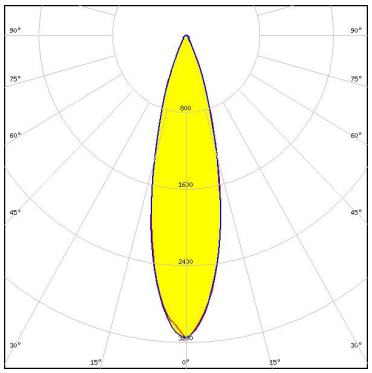


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PHOTOMETRIC DATA (SIMULATED):

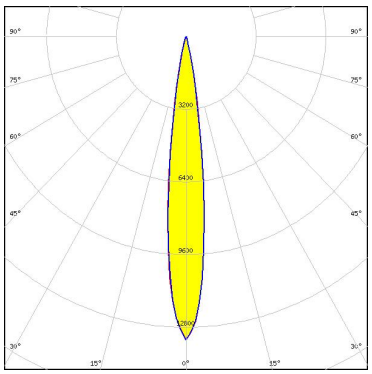
LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	27.0° / 50.0°
Efficiency	91 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16142_HEKLA-SOCKET-K	



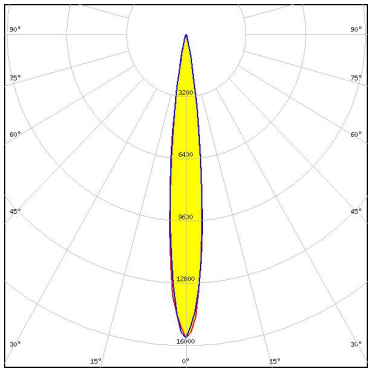
LUMINUS

LED	CxM-6 (13.5x13.5)
FWHM / FWTM	14.0° / 25.0°
Efficiency	94 %
Peak intensity	13.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15255_HEKLA-SOCKET-C	



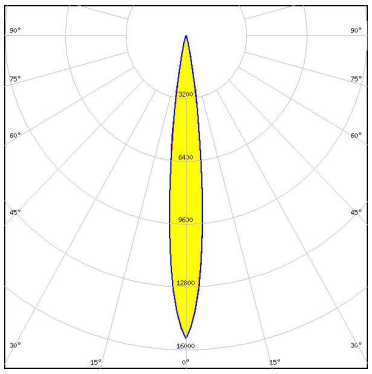
NICHIA

LED	COB S-Type (LES 6)
FWHM / FWTM	12.0° / 24.0°
Efficiency	93 %
Peak intensity	15.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15848_HEKLA-SOCKET-G	



NICHIA

LED	COB S-Type (LES 6)
FWHM / FWTM	12.0° / 24.0°
Efficiency	93 %
Peak intensity	15.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15848_HEKLA-SOCKET-G	



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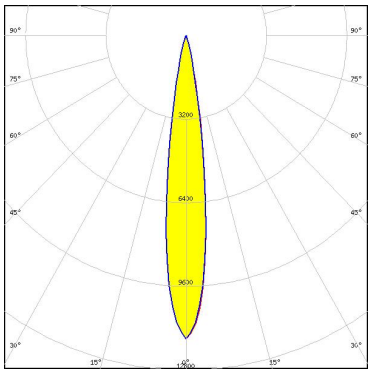
PHOTOMETRIC DATA (SIMULATED):

NICHIA

LED	COB S-Type (LES 7)
FWHM / FWTM	16.0° / 26.0°
Efficiency	95 %
Peak intensity	11.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15848_HEKLA-SOCKET-G

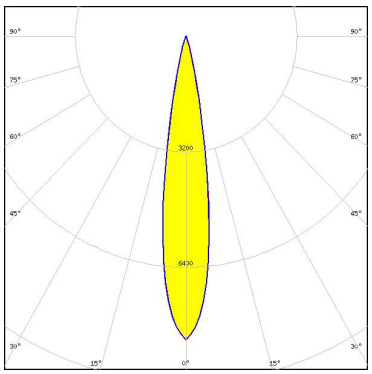


NICHIA

LED	NFSWE11A
FWHM / FWTM	18.0° / 30.0°
Efficiency	88 %
Peak intensity	8.4 cd/lm
LEDs/each optic	30
Light colour	White

Required components:

C16142_HEKLA-SOCKET-K

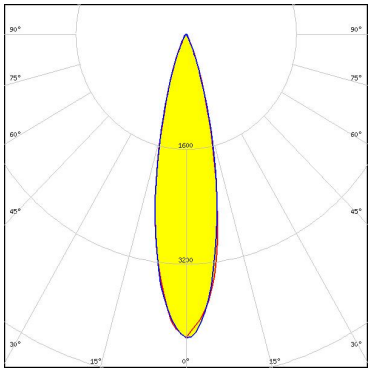


PHILIPS

LED	Fortimo SLM L13 CoB
FWHM / FWTM	24.0° / 44.0°
Efficiency	93 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

Bender Wirth: 632a Hekla XL

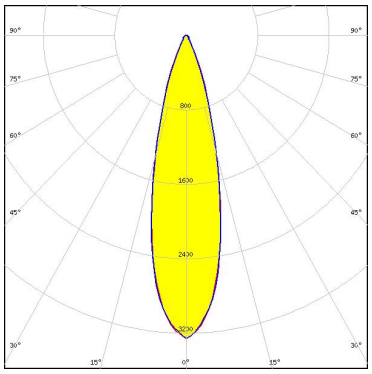


PHILIPS

LED	Fortimo SLM L15 CoB
FWHM / FWTM	26.0° / 50.0°
Efficiency	93 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

Bender Wirth: 632a Hekla XL

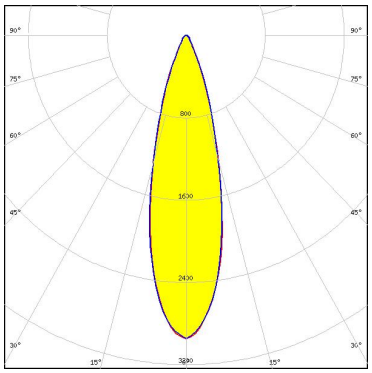


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PHOTOMETRIC DATA (SIMULATED):

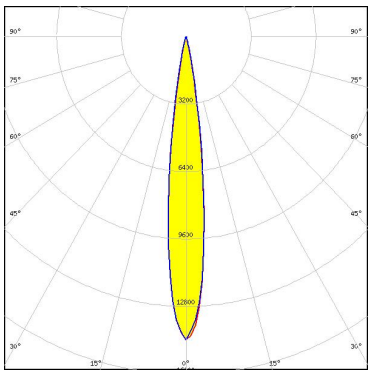
PHILIPS

LED	Fortimo SLM L15 CoB
FWHM / FWTM	28.0° / 52.0°
Efficiency	92 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 632a Hekla XL	



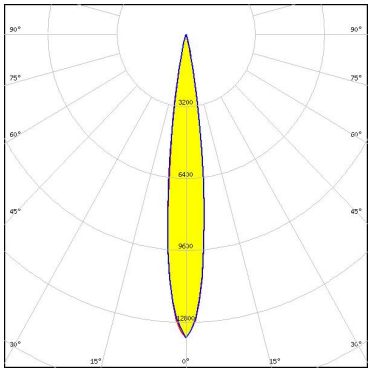
SAMSUNG

LED	LC010C
FWHM / FWTM	14.0° / 24.0°
Efficiency	94 %
Peak intensity	14.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F15848_HEKLA-SOCKET-G	



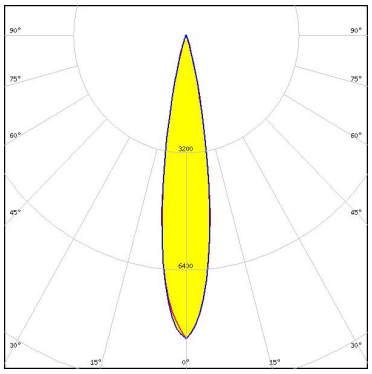
SAMSUNG

LED	LC020C
FWHM / FWTM	14.0° / 24.0°
Efficiency	94 %
Peak intensity	13.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F17438_HEKLA-G2-I	



XICATO

LED	XTM - 9mm LES
FWHM / FWTM	18.0° / 32.0°
Efficiency	94 %
Peak intensity	8.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C15743_XTM-ADAPTER-50-B	



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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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