

ILONA-RS

~10° spot beam



TECHNICAL SPECIFICATIONS:

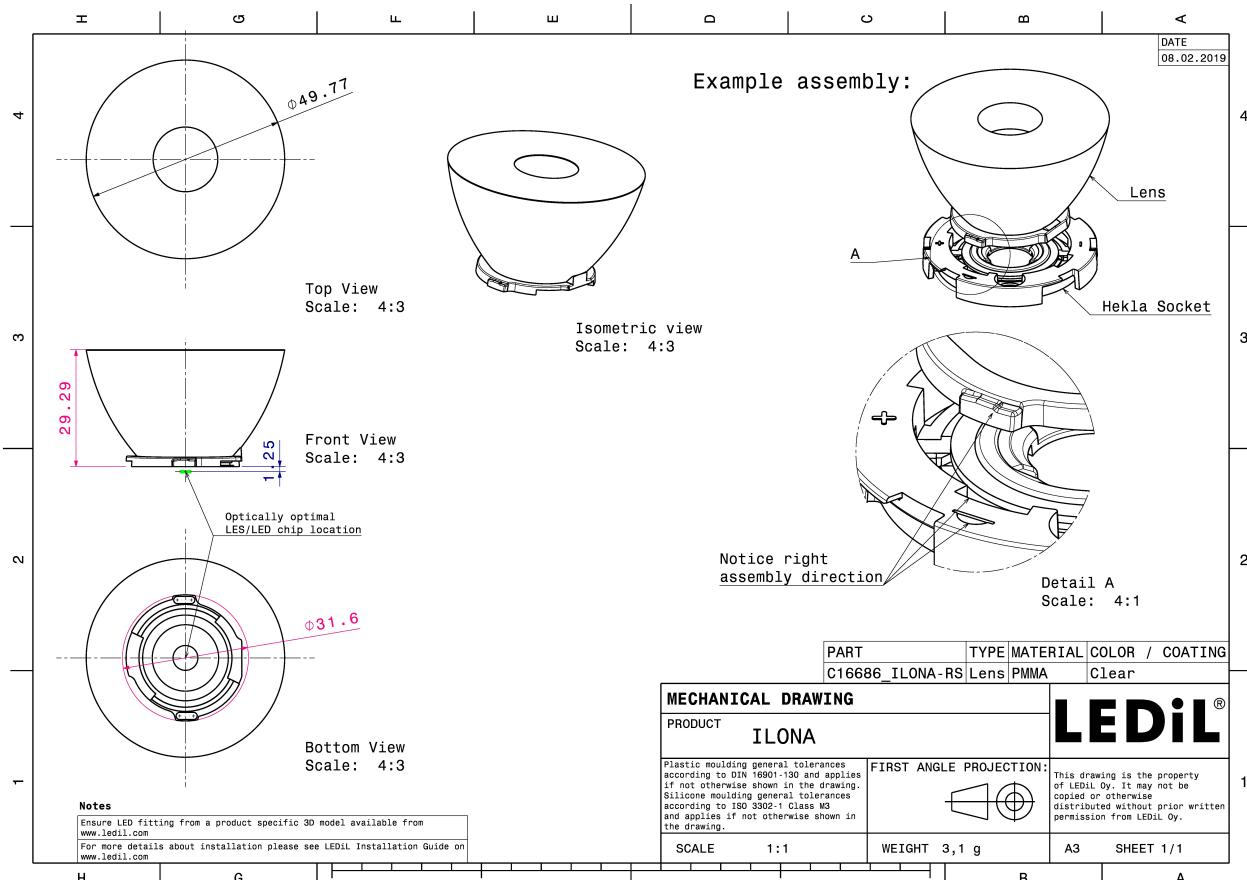
Dimensions	Ø 49.8 mm
Height	29.3 mm
Fastening	socket
ROHS compliant	yes 

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	264	99	33	9.6
» Box size: 480 x 280 x 300 mm				

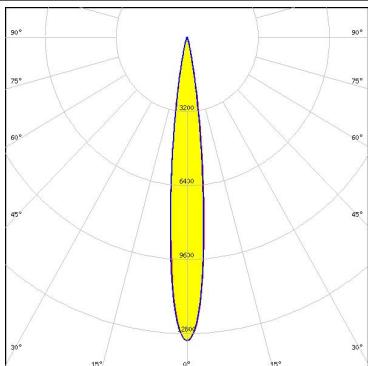


See also our general installation guide: www.ledil.com/installation_guide

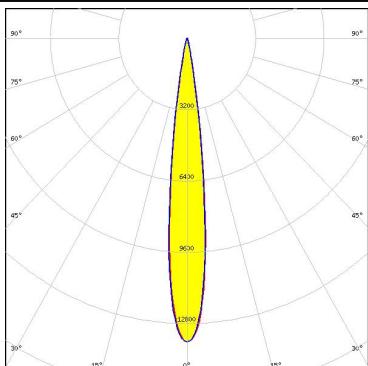
PHOTOMETRIC DATA (MEASURED):



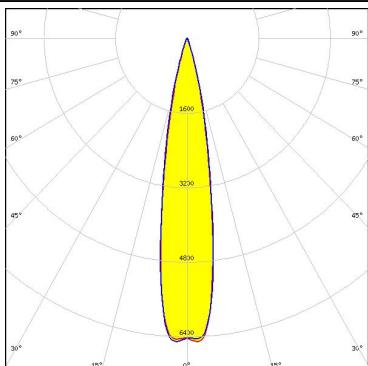
LED V6 HD
FWHM / FWTM 13.0° / 24.0°
Efficiency 94 %
Peak intensity 13.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 Bender Wirth: 634c Hekla



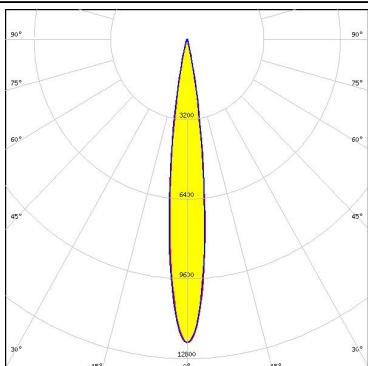
LED V6 HD
FWHM / FWTM 14.0° / 23.0°
Efficiency 95 %
Peak intensity 13.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 F15255_HEKLA-SOCKET-C



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



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



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLU7A2 (LES 4.2mm)

FWHM / FWTM 9.0° / 17.0°

Efficiency 94 %

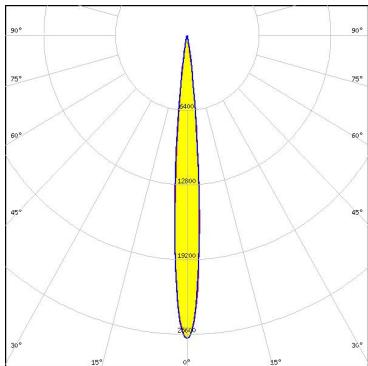
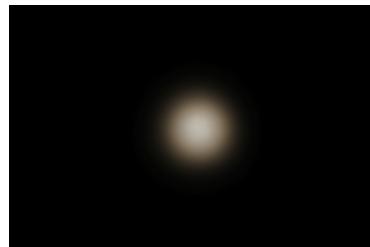
Peak intensity 26 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15255_HEKLA-SOCKET-C



CITIZEN

LED CLU7B2

FWHM / FWTM 8.0° / 16.0°

Efficiency 94 %

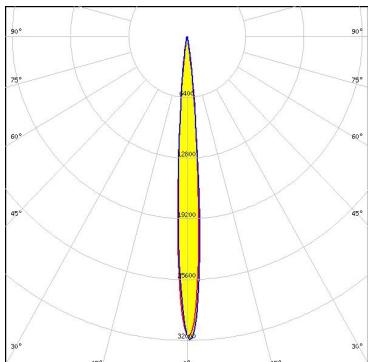
Peak intensity 32.2 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15255_HEKLA-SOCKET-C



LUMILEDS

LED LUXEON CX Plus CoB L08 (Gen2)

FWHM / FWTM 28.0° / 52.0°

Efficiency 93 %

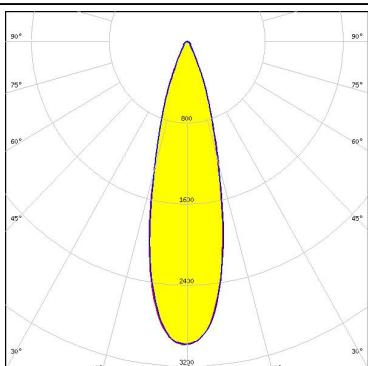
Peak intensity 3 cd/lm

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 %

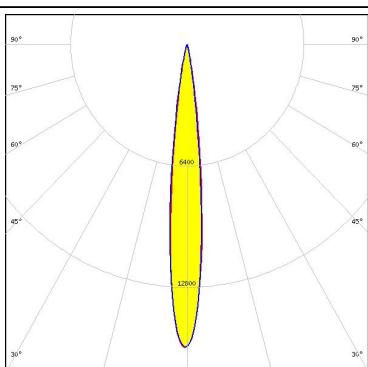
Peak intensity 16 cd/lm

LEDs/each optic 1

Light colour White

Required components:

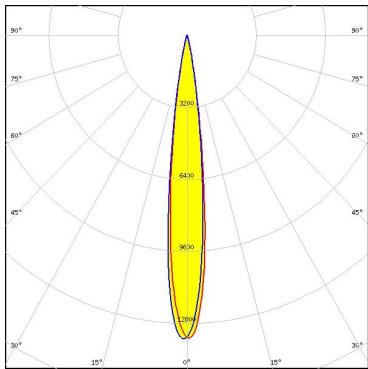
Bender Wirth: 634c Hekla



PHOTOMETRIC DATA (MEASURED):

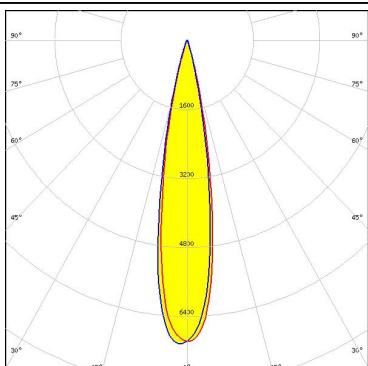
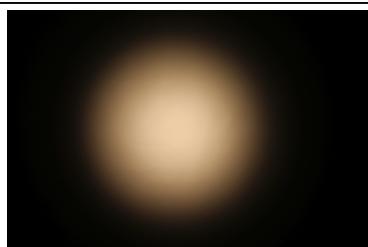
LUMILEDS

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



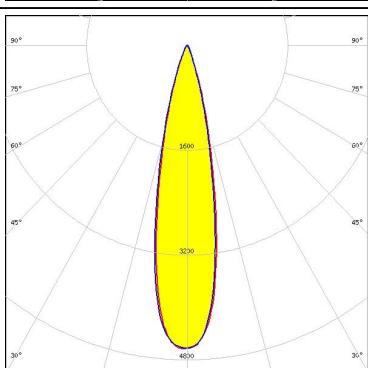
LUMILEDS

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



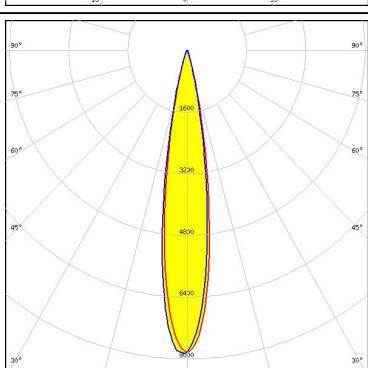
LUMILEDS

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

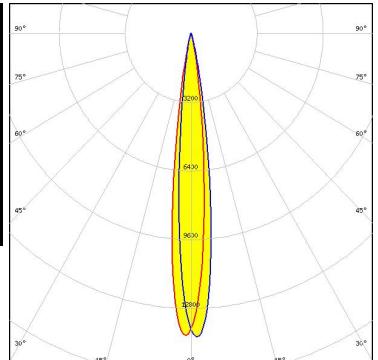
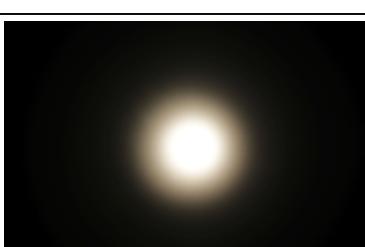
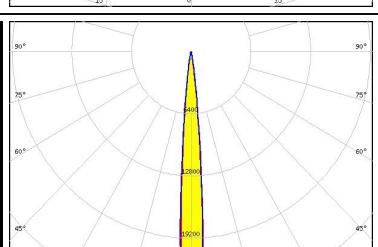
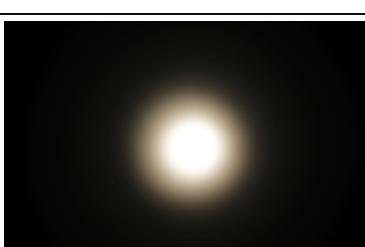
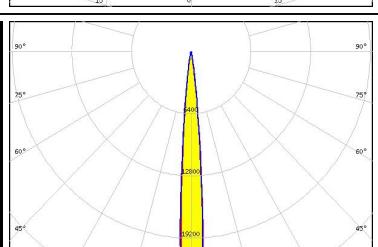
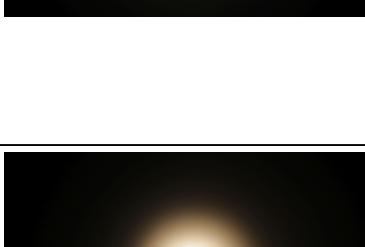
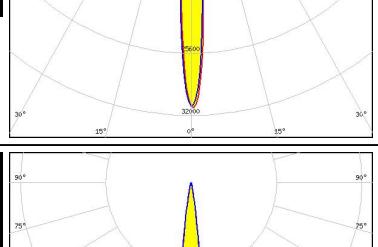
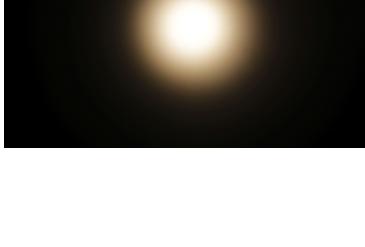
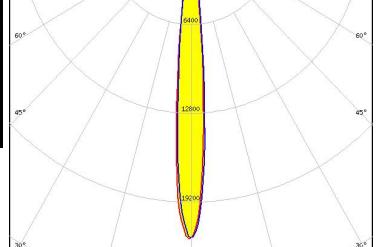


LUMILEDS

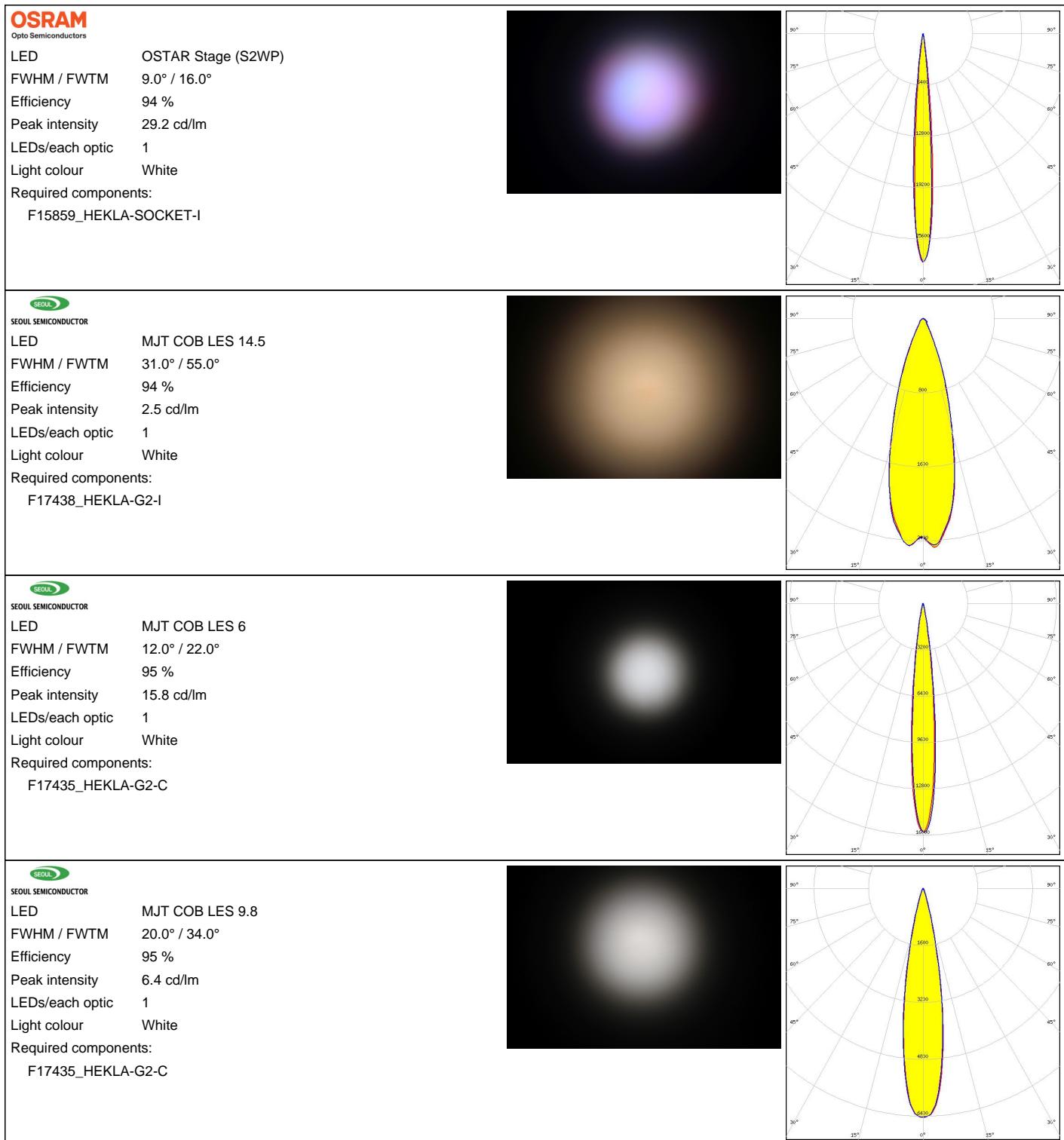
LED LUXEON CX Plus CoB M02 / M03 (Gen2)
 FWHM / FWTM 17.0° / 32.0°
 Efficiency 93 %
 Peak intensity 7.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 641a Hekla



PHOTOMETRIC DATA (MEASURED):

	LUMILEDS		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CX Plus CoB S01 (Gen2) 12.0° / 23.0° 93 % 14.5 cd/lm 1 White Bender Wirth: 634c Hekla		
	LUMINUS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:		
	LUMINUS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:		
	OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:		

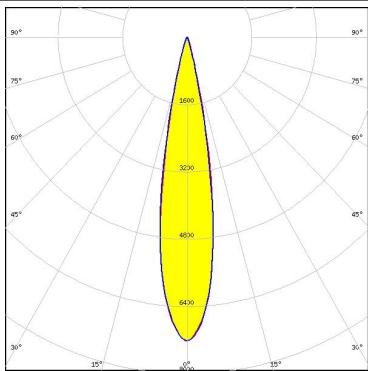
PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (MEASURED):

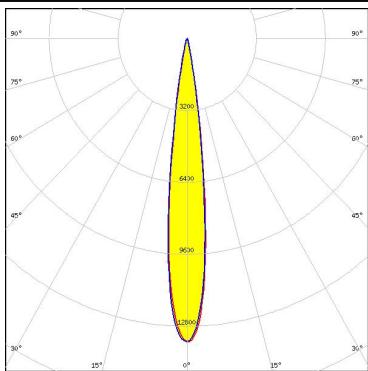
TRIDONIC

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



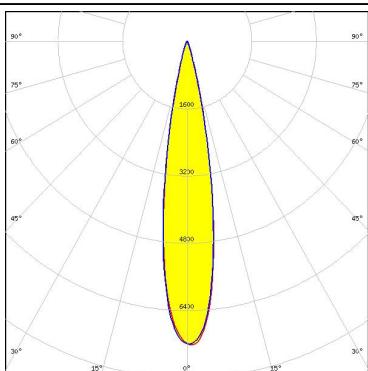
XICATO

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



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

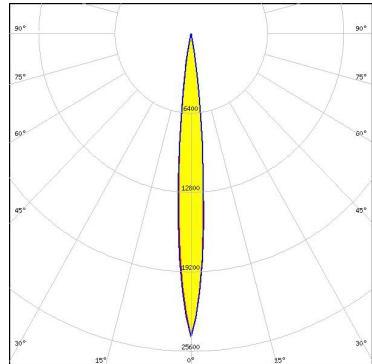


PHOTOMETRIC DATA (SIMULATED):



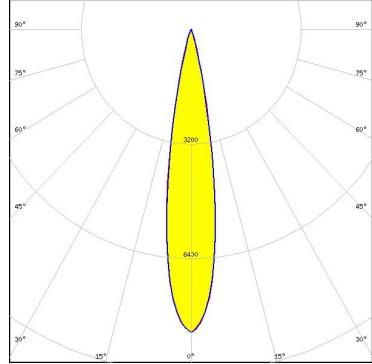
LED	V4 HD
FWHM / FWTM	10.0° / 20.0°
Efficiency	95 %
Peak intensity	24.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
FP15490_HEKLA-A



LED	V9 HD
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



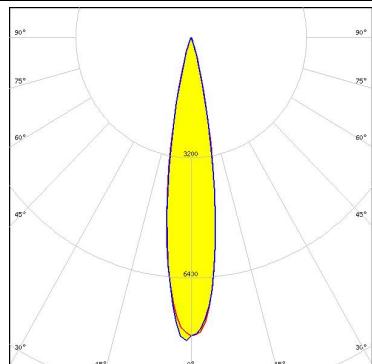
LED	Vero SE 10
FWHM / FWTM	16.0° / 34.0°
Efficiency	94 %
Peak intensity	7.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	18.0° / 32.0°
Efficiency	93 %
Peak intensity	8.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
FP15501_HEKLA-C



PHOTOMETRIC DATA (SIMULATED):

CITIZEN

LED CLL02x/CLU02x (LES10)

FWHM / FWTM 18.0° / 33.0°

Efficiency 92 %

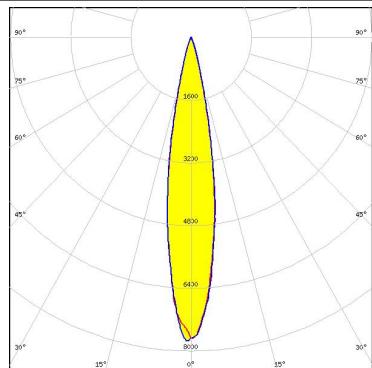
Peak intensity 7.8 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15255_HEKLA-SOCKET-C



CITIZEN

LED CLU700/701/702

FWHM / FWTM 12.0° / 23.0°

Efficiency 94 %

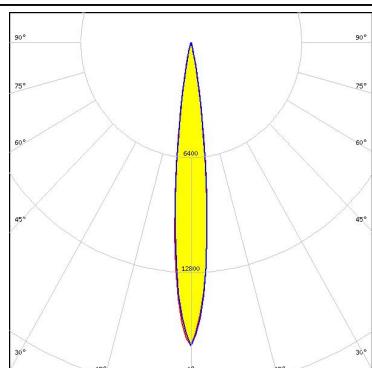
Peak intensity 16.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:

FP15501_HEKLA-C



CITIZEN

LED CLU710/711

FWHM / FWTM 17.0° / 30.0°

Efficiency 92 %

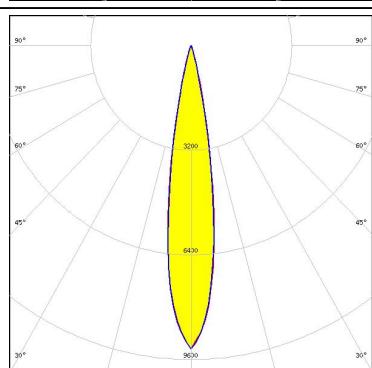
Peak intensity 9.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:

FP15949_HEKLA-I



CREE → LED

LED CMA1303

FWHM / FWTM 10.0° / 20.0°

Efficiency 95 %

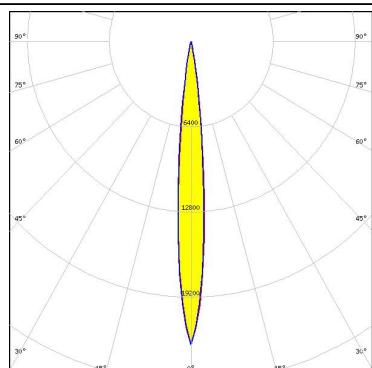
Peak intensity 22.8 cd/lm

LEDs/each optic 1

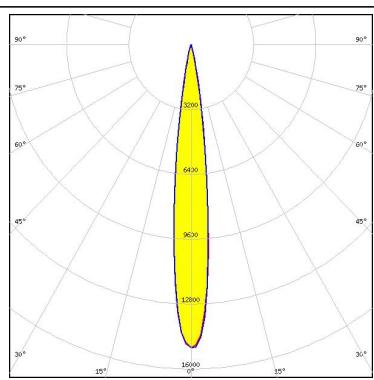
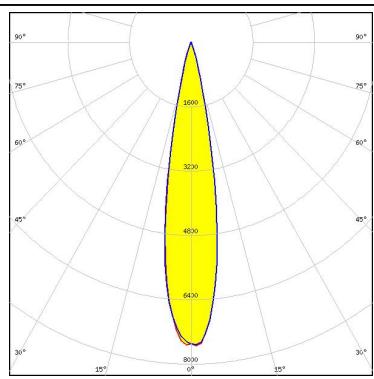
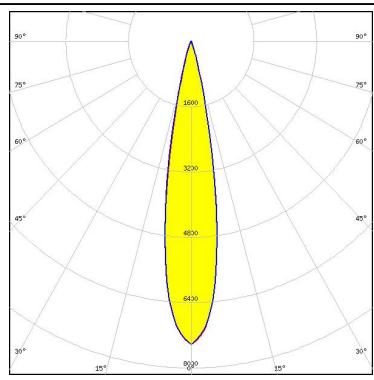
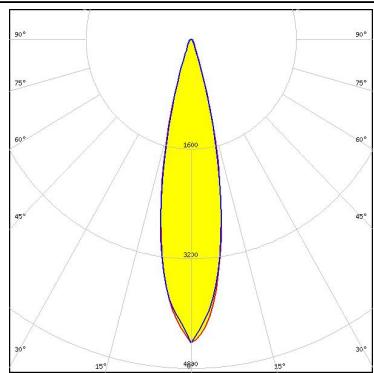
Light colour White

Required components:

F17439_HEKLA-G2-J



PHOTOMETRIC DATA (SIMULATED):

<p>CREE → LED</p> <p>LED CXA/B 13xx</p> <p>FWHM / FWTM 13.0° / 24.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 15 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: FP15957_HEKLA-J</p>	
<p>CREE → LED</p> <p>LED CXA/B 15xx</p> <p>FWHM / FWTM 19.0° / 32.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 7.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15256_HEKLA-SOCKET-D</p>	
<p>CREE → LED</p> <p>LED CXA/B 15xx</p> <p>FWHM / FWTM 20.0° / 32.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 7.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17436_HEKLA-G2-D</p>	
<p>CREE → LED</p> <p>LED CXA/B 1816 & CXA/B 1820 & CXA 1850</p> <p>FWHM / FWTM 23.0° / 40.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 4.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15254_HEKLA-SOCKET-B</p>	

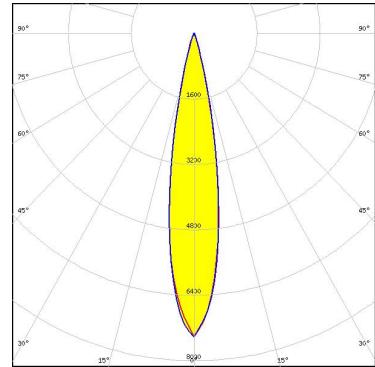
PHOTOMETRIC DATA (SIMULATED):

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



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

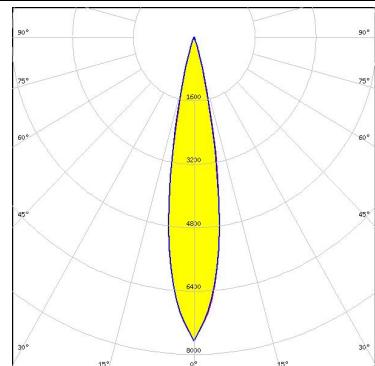
Required components:

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



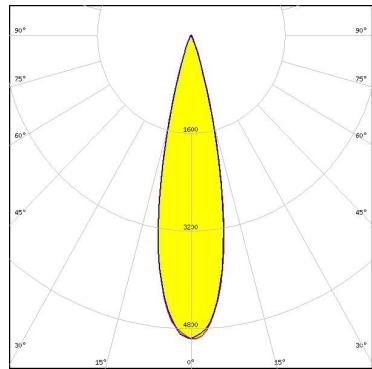
PHOTOMETRIC DATA (SIMULATED):

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

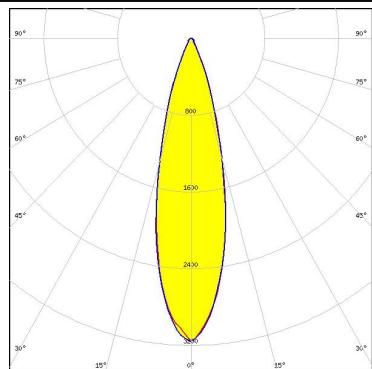


LUMILEDS

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

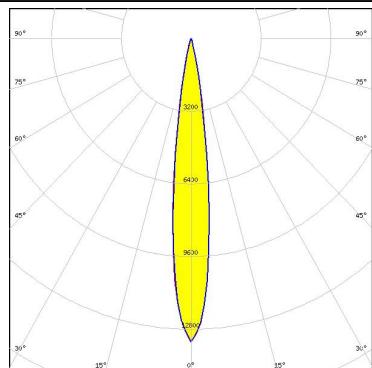


LUMINUS

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

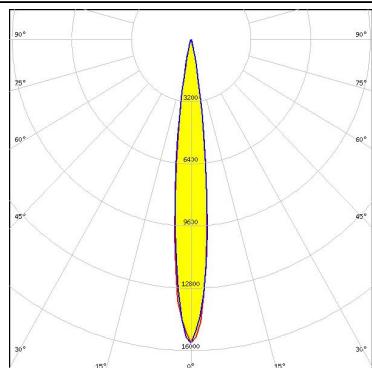


NICHIA

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



PHOTOMETRIC DATA (SIMULATED):



LED COB S-Type (LES 6)

FWHM / FWTM 12.0° / 24.0°

Efficiency 93 %

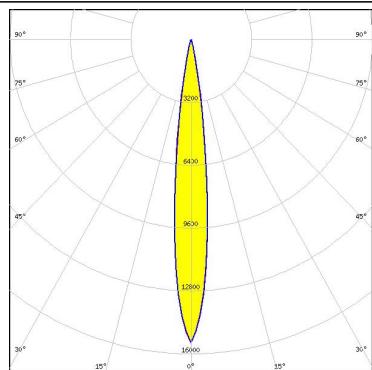
Peak intensity 15.4 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15848_HEKLA-SOCKET-G



LED COB S-Type (LES 7)

FWHM / FWTM 16.0° / 26.0°

Efficiency 95 %

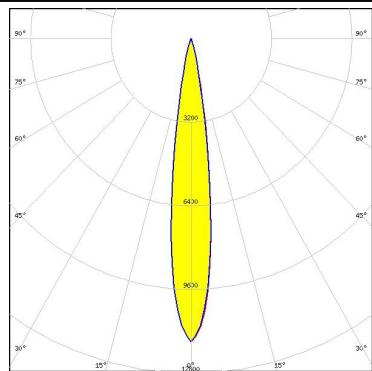
Peak intensity 11.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15848_HEKLA-SOCKET-G



LED NFSWE11A

FWHM / FWTM 18.0° / 30.0°

Efficiency 88 %

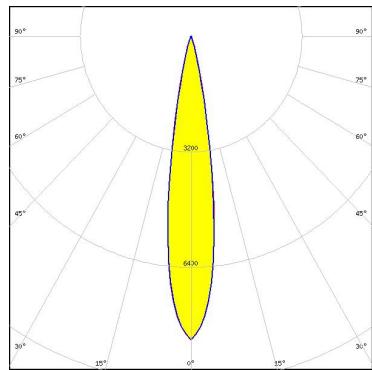
Peak intensity 8.4 cd/lm

LEDs/each optic 30

Light colour White

Required components:

C16142_HEKLA-SOCKET-K



LED Fortimo SLM L15 CoB

FWHM / FWTM 26.0° / 50.0°

Efficiency 93 %

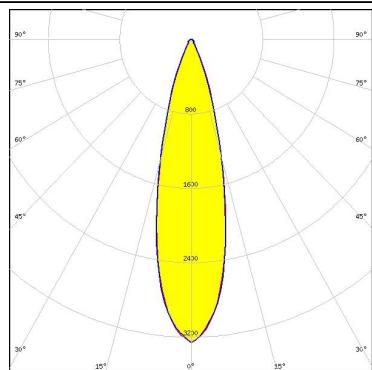
Peak intensity 3.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:

Bender Wirth: 632a Hekla XL



PHOTOMETRIC DATA (SIMULATED):

PHILIPS

LED Fortimo SLM L15 CoB

FWHM / FWTM 28.0° / 52.0°

Efficiency 92 %

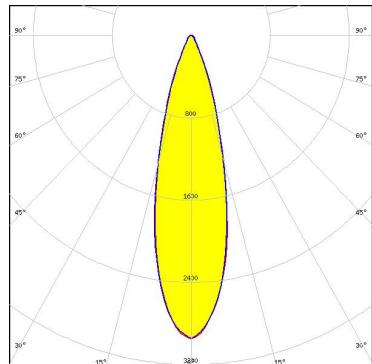
Peak intensity 3 cd/lm

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 %

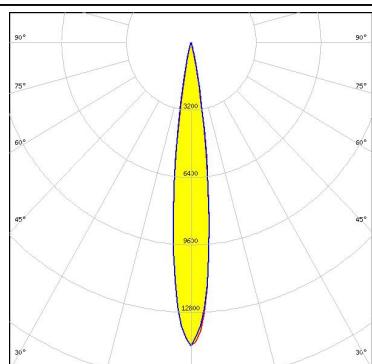
Peak intensity 14.4 cd/lm

LEDs/each optic 1

Light colour White

Required components:

FP15947_HEKLA-G



SAMSUNG

LED LC020C

FWHM / FWTM 14.0° / 24.0°

Efficiency 94 %

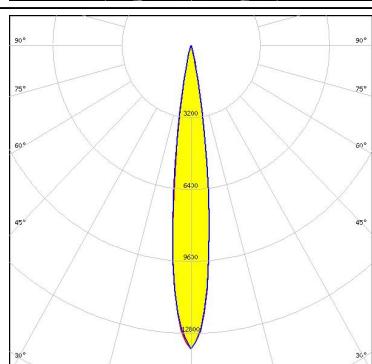
Peak intensity 13.5 cd/lm

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 %

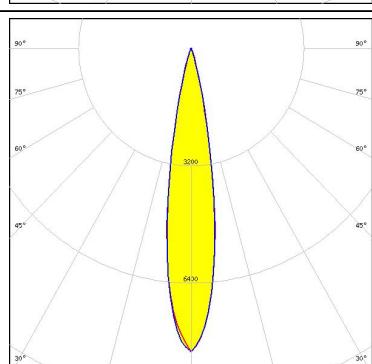
Peak intensity 8.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:

C15743_XTM-ADAPTER-50-B



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.

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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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