

## ILONA-W

~35° wide beam

### SPECIFICATION:

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

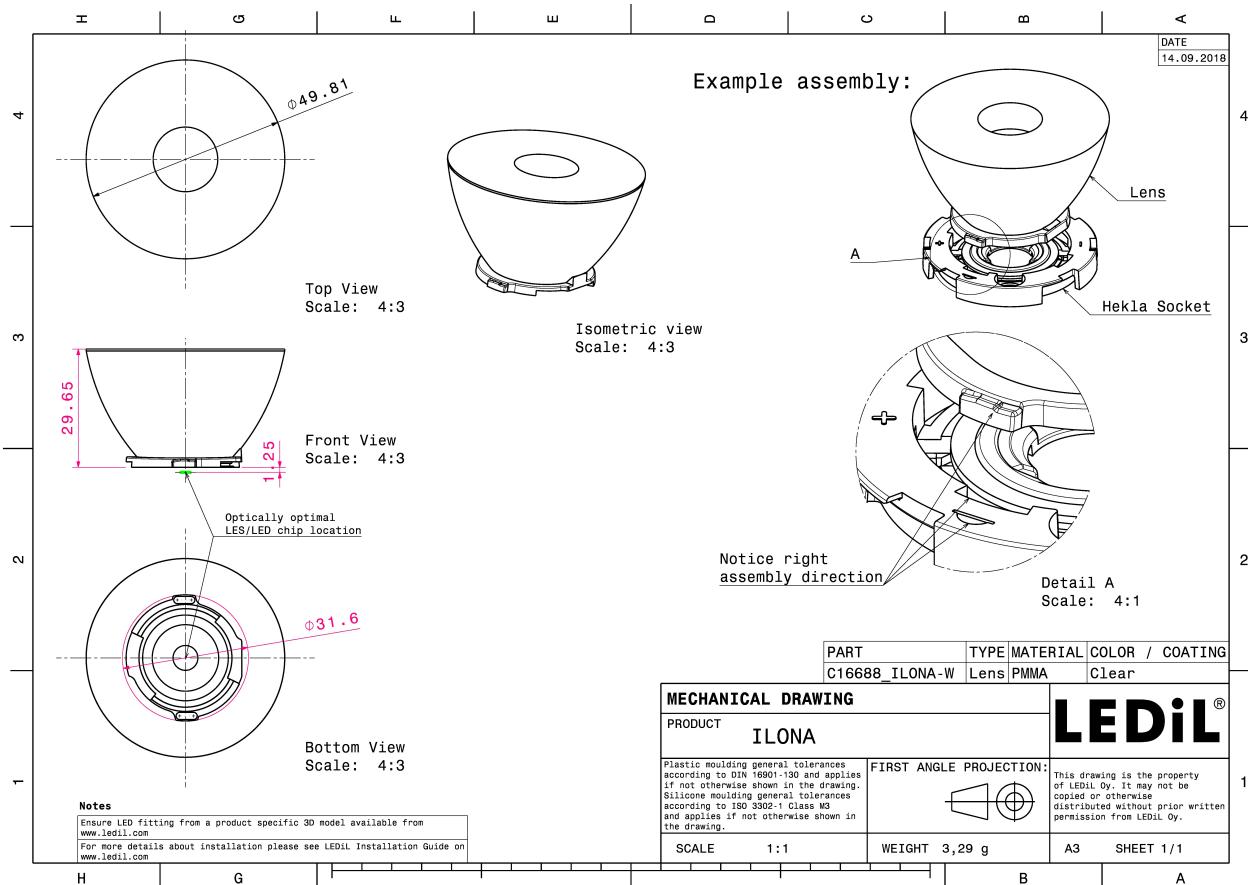


### MATERIALS:

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

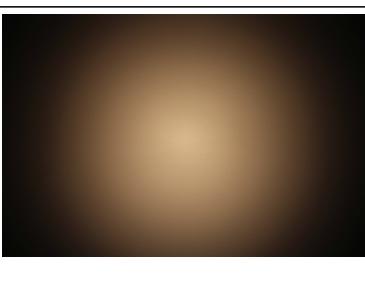
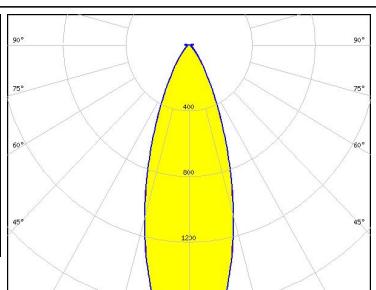
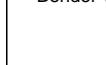
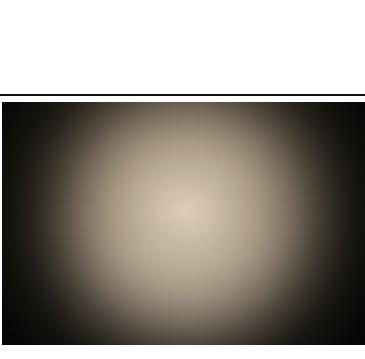
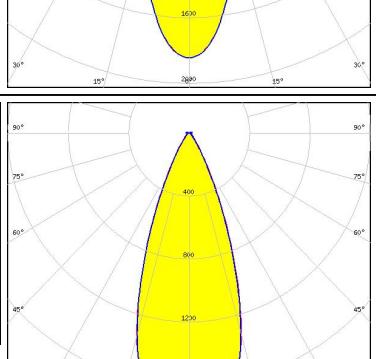
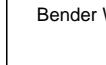
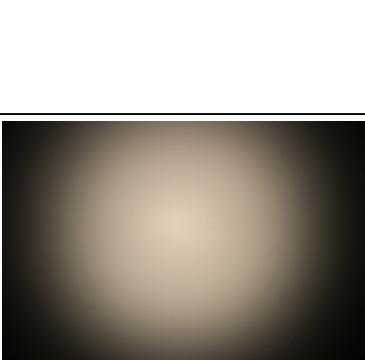
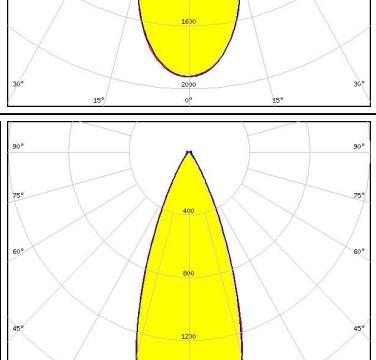
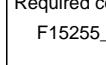
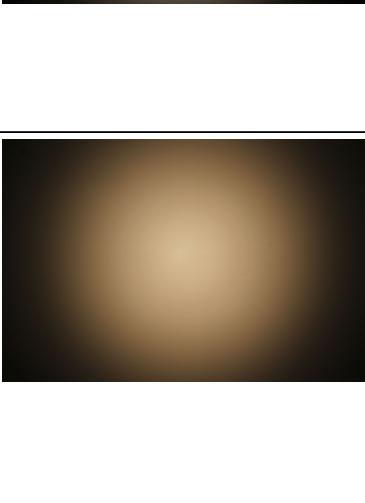
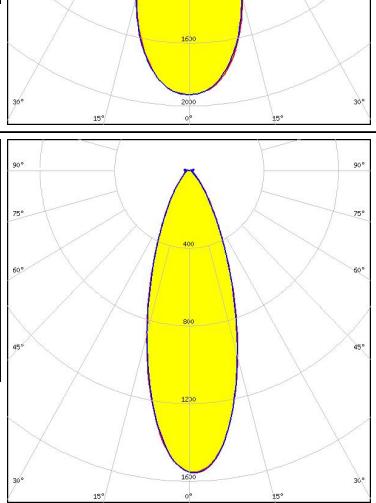
### ORDERING INFORMATION:

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



See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

## OPTICAL RESULTS (MEASURED):

	<p>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 White Required components: Bender Wirth: 633d Hekla</p>		
	<p>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 White Required components: Bender Wirth: 634c Hekla</p>		
	<p>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 White Required components: F15255_HEKLA-SOCKET-C</p>		
	<p>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 Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8</p>		

## OPTICAL RESULTS (MEASURED):



LED Vesta TW 6mm DP

FWHM / FWTM 39.0° / 63.0°

Efficiency 88 %

Peak intensity 1.8 cd/lm

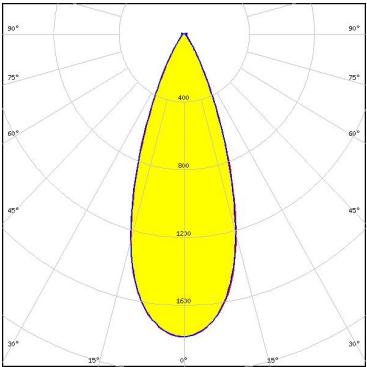
LEDs/each optic 1

Light colour White

Required components:

C16142\_HEKLA-SOCKET-K

Bender Wirth: 504 Typ L8



## CITIZEN

LED CLU7B2

FWHM / FWTM 41.0° / 61.0°

Efficiency 92 %

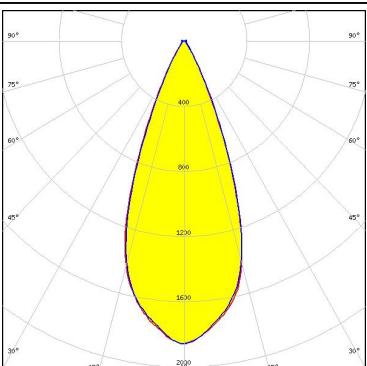
Peak intensity 1.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15255\_HEKLA-SOCKET-C



## LUMILEDS

LED LUXEON CX Plus CoB L08 (Gen2)

FWHM / FWTM 36.0° / 72.0°

Efficiency 90 %

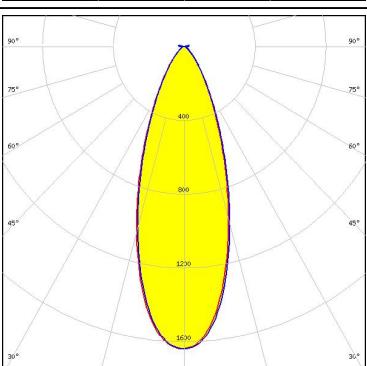
Peak intensity 1.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:

Bender Wirth: 637a Hekla



## LUMILEDS

LED LUXEON CX Plus CoB - HD S01H4

FWHM / FWTM 39.0° / 61.0°

Efficiency 93 %

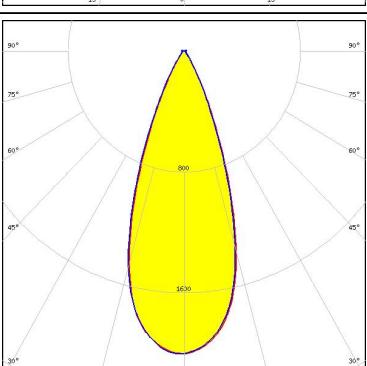
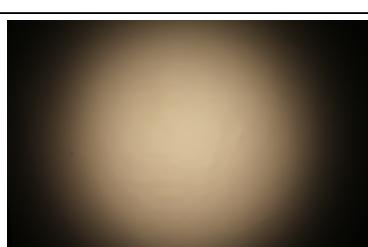
Peak intensity 2 cd/lm

LEDs/each optic 1

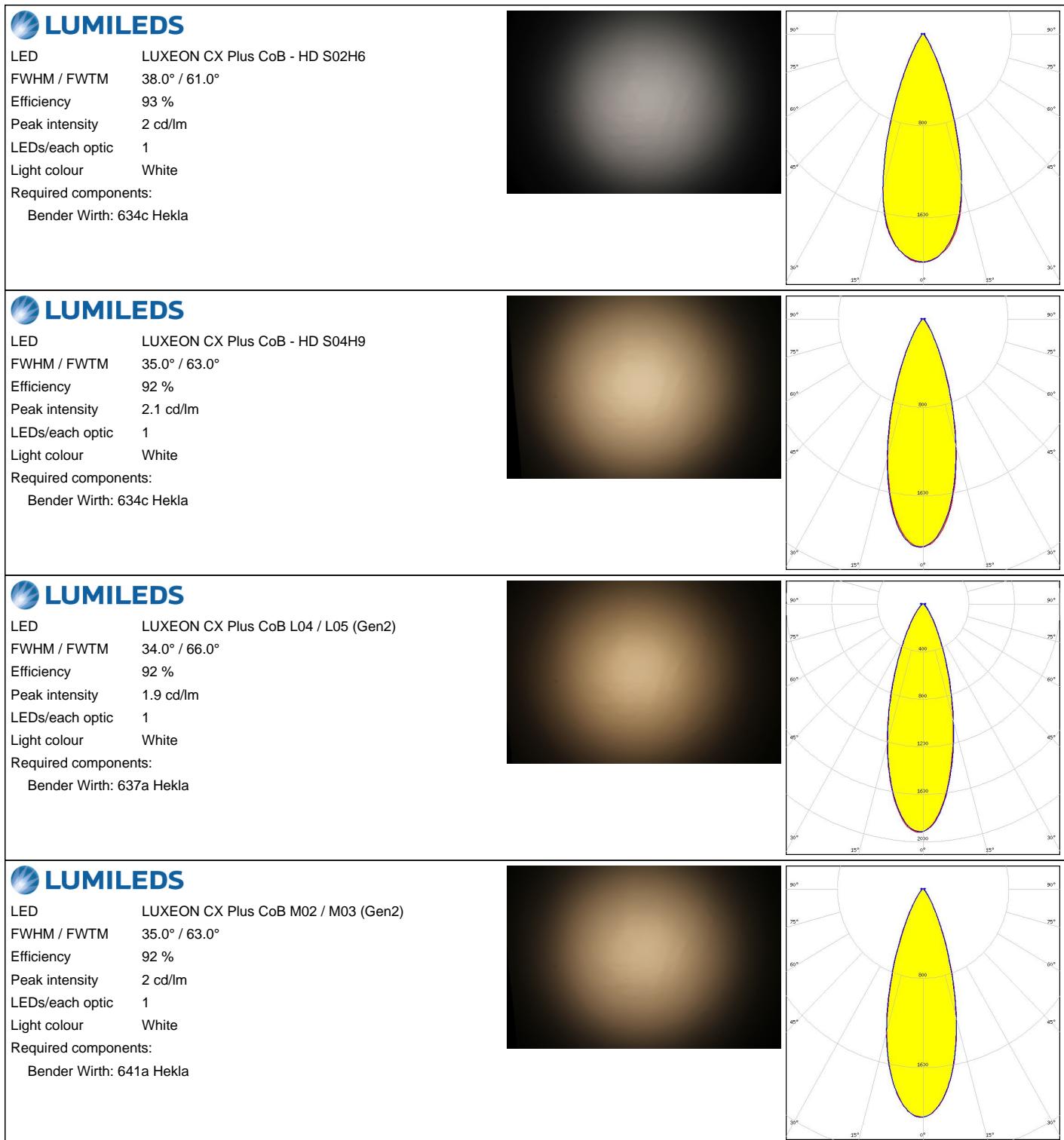
Light colour White

Required components:

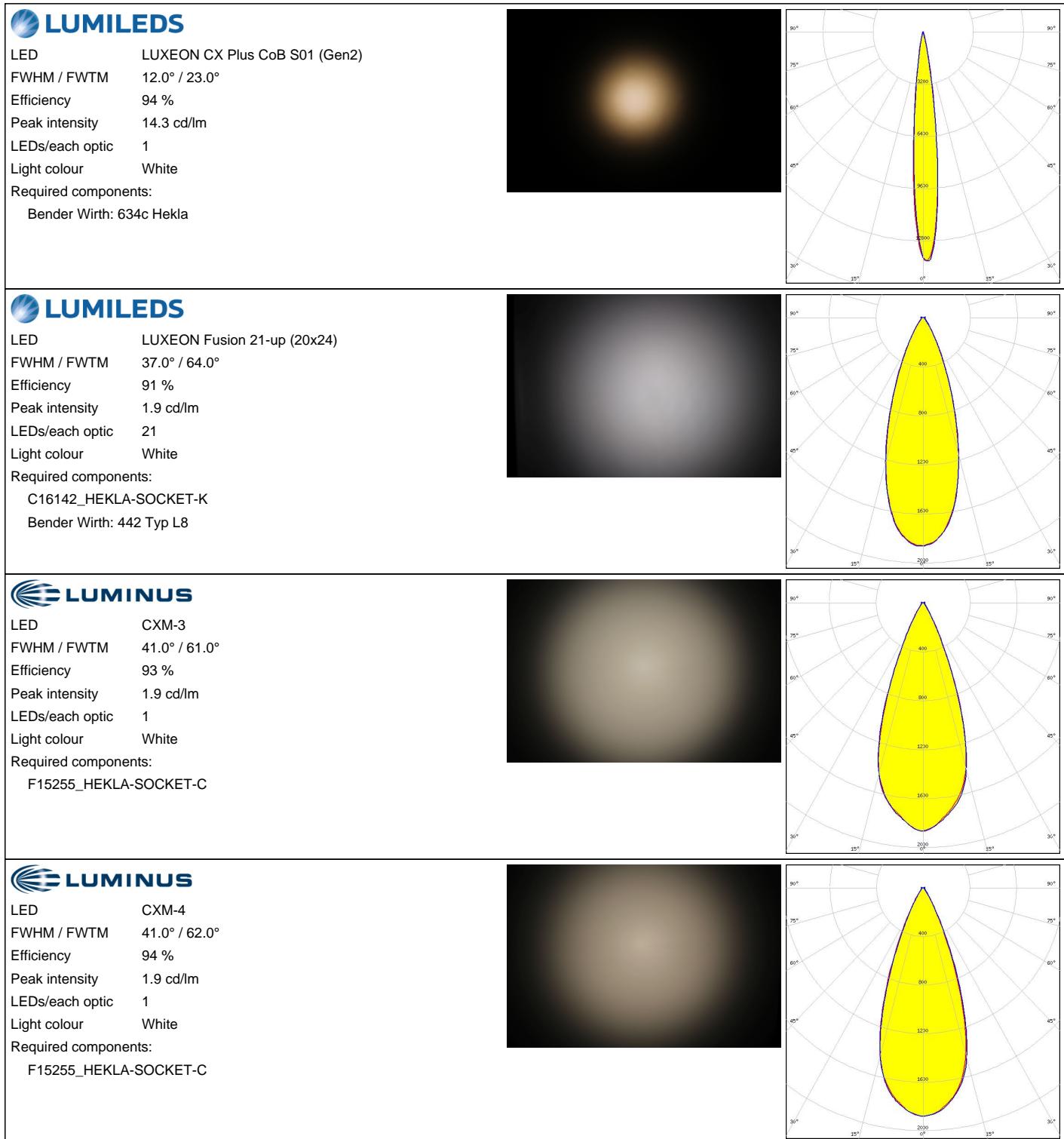
Bender Wirth: 634c Hekla



## OPTICAL RESULTS (MEASURED):



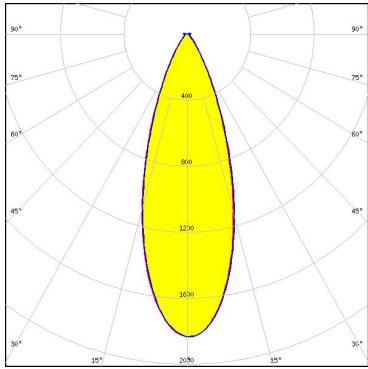
## OPTICAL RESULTS (MEASURED):



## OPTICAL RESULTS (MEASURED):

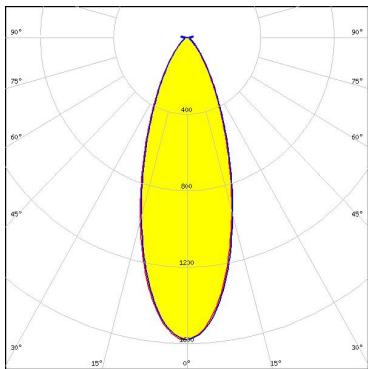
### SAMSUNG

LED	LC010T (Tunable White)
FWHM / FWTM	35.0° / 65.0°
Efficiency	90 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	Tunable White
Required components:	
	C16142_HEKLA-SOCKET-K
	Bender Wirth: 501 Typ L8



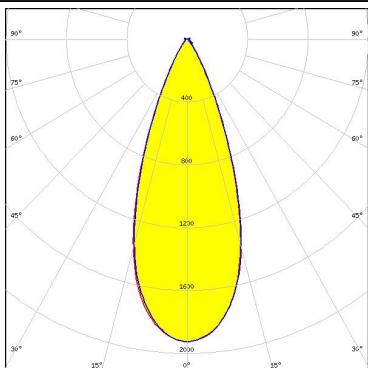
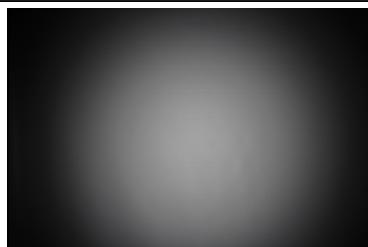
### SEOUL SEMICONDUCTOR

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	White
Required components:	
	F17438_HEKLA-G2-I



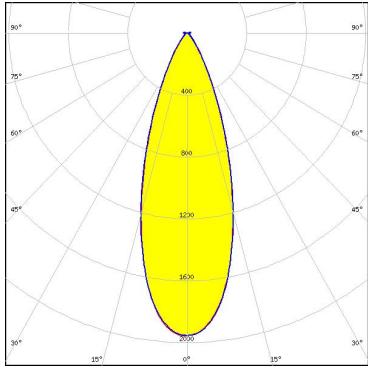
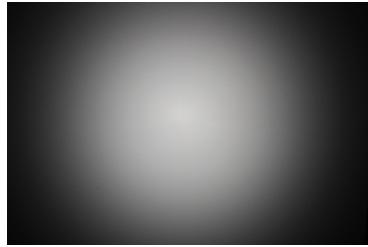
### SEOUL SEMICONDUCTOR

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	White
Required components:	
	F17435_HEKLA-G2-C



### 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	White
Required components:	
	F17435_HEKLA-G2-C



## OPTICAL RESULTS (MEASURED):

### TRIDONIC

LED SLE G7 LES09

FWHM / FWTM 36.0° / 64.0°

Efficiency 92 %

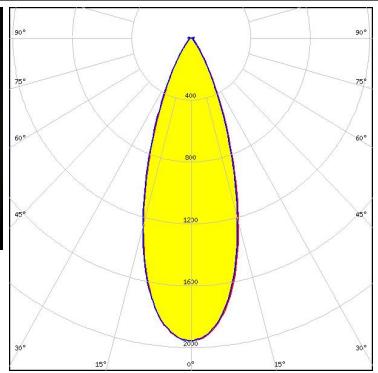
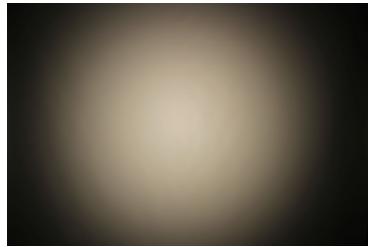
Peak intensity 2 cd/lm

LEDs/each optic 1

Light colour White

Required components:

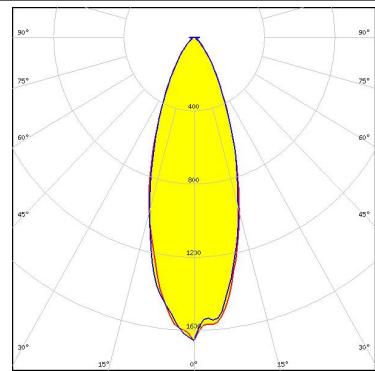
F15255\_HEKLA-SOCKET-C



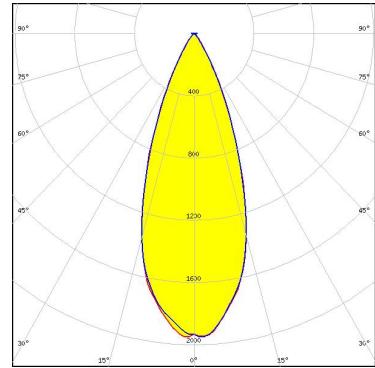
## OPTICAL RESULTS (SIMULATED):



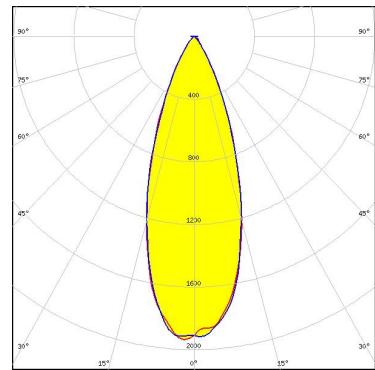
**LED** V13 Gen 8  
**FWHM / FWTM** 36.0° / 72.0°  
**Efficiency** 85 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 F15859\_HEKLA-SOCKET-I



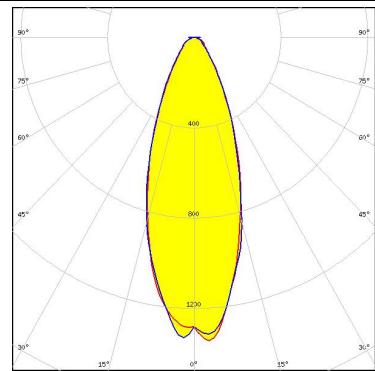
**LED** V4 HD Gen 7  
**FWHM / FWTM** 38.0° / 64.0°  
**Efficiency** 91 %  
**Peak intensity** 2 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 F15253\_HEKLA-SOCKET-A



**LED** V9 HD Gen7  
**FWHM / FWTM** 36.0° / 64.0°  
**Efficiency** 89 %  
**Peak intensity** 2 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 F15859\_HEKLA-SOCKET-I



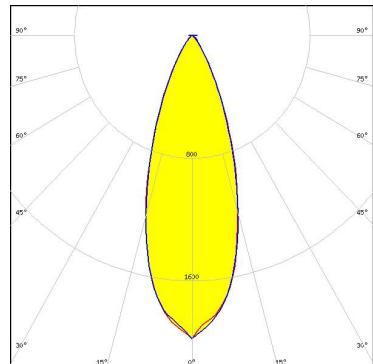
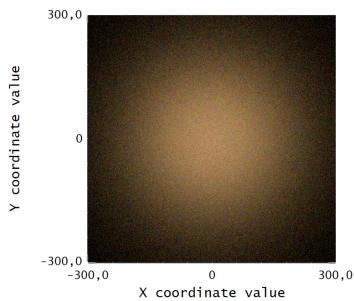
**LED** Vero SE 13  
**FWHM / FWTM** 37.0° / 78.0°  
**Efficiency** 85 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



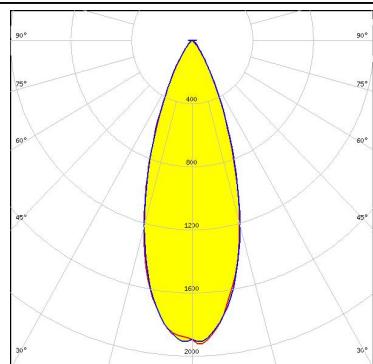
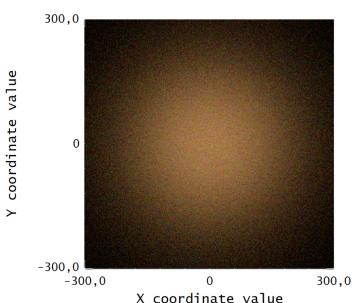
## OPTICAL RESULTS (SIMULATED):



**LED** VERO10  
**FWHM / FWTM** 36.0° / 64.0°  
**Efficiency** 90 %  
**Peak intensity** 2 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 F15616\_HEKLA-SOCKET-F

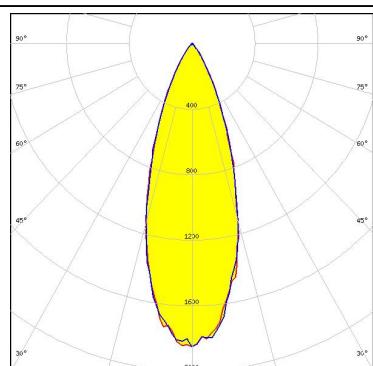


**LED** Vesta DTW 9mm (4W/6W/12W)  
**FWHM / FWTM** 36.0° / 64.0°  
**Efficiency** 90 %  
**Peak intensity** 1.9 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 490 Typ L8



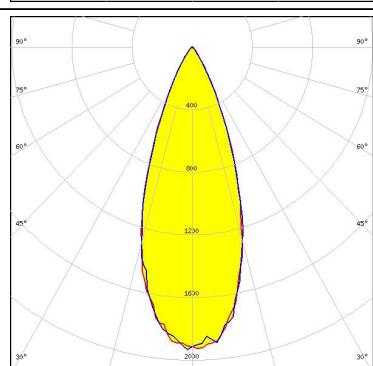
## CITIZEN

**LED** CLL02x/CLU02x (LES10)  
**FWHM / FWTM** 35.0° / 64.0°  
**Efficiency** 79 %  
**Peak intensity** 1.9 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 F15255\_HEKLA-SOCKET-C



## 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** White  
**Required components:**  
 F15255\_HEKLA-SOCKET-C

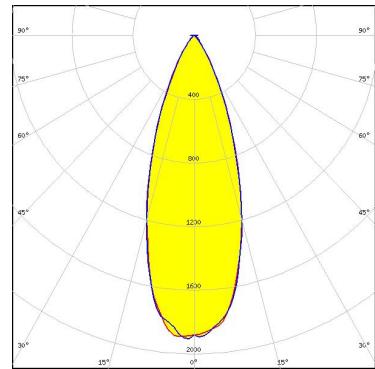


## OPTICAL RESULTS (SIMULATED):

### CITIZEN

LED	CLU712/713
FWHM / FWTM	36.0° / 66.0°
Efficiency	90 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

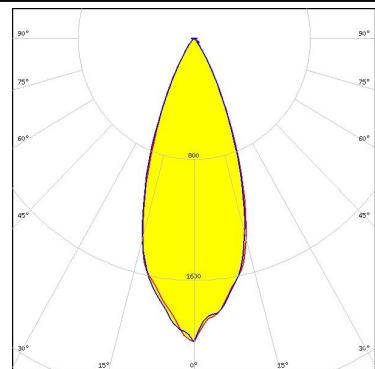
Required components:  
F17438\_HEKLA-G2-I



### CREE LEDs

LED	CHA0304
FWHM / FWTM	38.0° / 62.0°
Efficiency	91 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

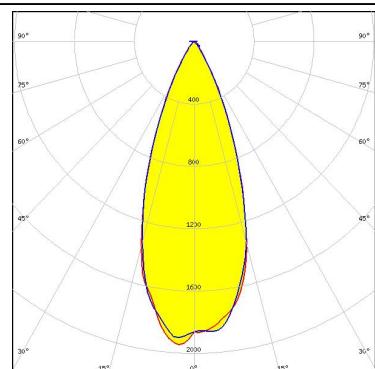
Required components:  
F17435\_HEKLA-G2-C



### CREE LEDs

LED	CHA0410
FWHM / FWTM	38.0° / 63.0°
Efficiency	91 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

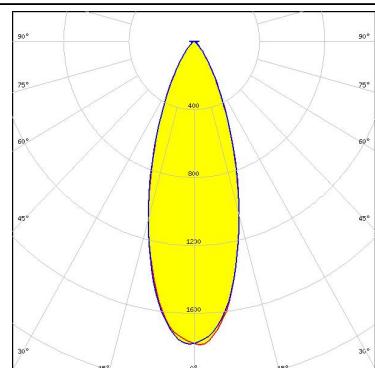
Required components:  
F17435\_HEKLA-G2-C



### CREE LEDs

LED	CMA1825
FWHM / FWTM	35.0° / 68.0°
Efficiency	87 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

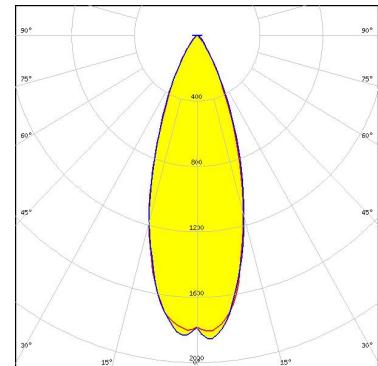
Required components:  
F15254\_HEKLA-SOCKET-B



## OPTICAL RESULTS (SIMULATED):

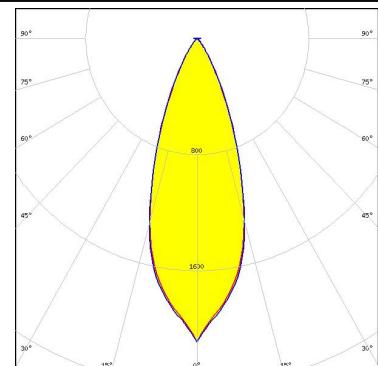
### LUMILEDS

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	White
Required components:	
	F17437_HEKLA-G2-H



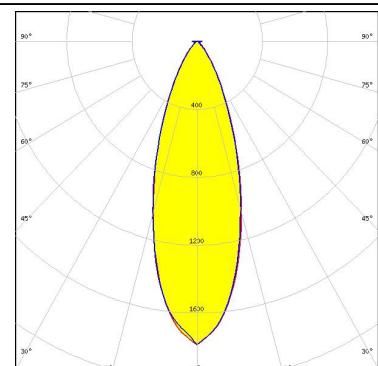
### LUMILEDS

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



### 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	White
Required components:	



### 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	White
Required components:	

## OPTICAL RESULTS (SIMULATED):



LED COB S-Type (LES 7)

FWHM / FWTM 36.0° / 64.0°

Efficiency 90 %

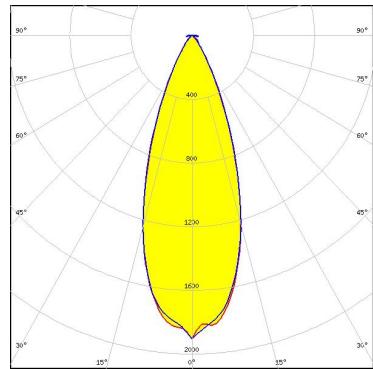
Peak intensity 1.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15848\_HEKLA-SOCKET-G



LED NFSWE11A

FWHM / FWTM 36.0° / 65.0°

Efficiency 83 %

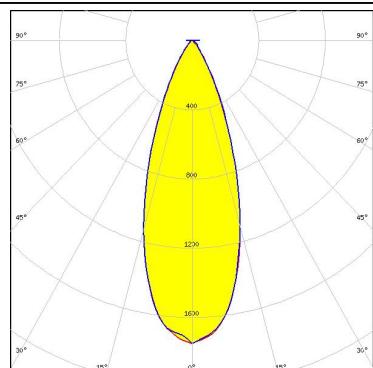
Peak intensity 1.8 cd/lm

LEDs/each optic 30

Light colour White

Required components:

C16142\_HEKLA-SOCKET-K



Opto Semiconductors

LED Duris S8

FWHM / FWTM 38.0° / 64.0°

Efficiency 88 %

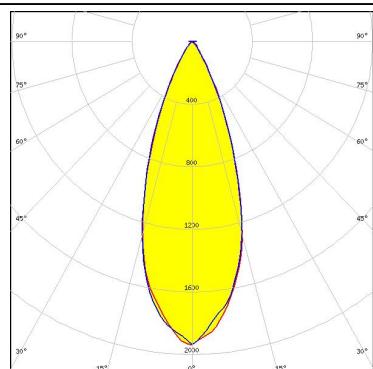
Peak intensity 2 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15848\_HEKLA-SOCKET-G



LED Fortimo SLM L09 CoB

FWHM / FWTM 35.0° / 66.0°

Efficiency 89 %

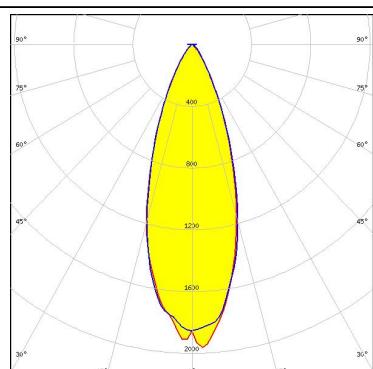
Peak intensity 2 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F17437\_HEKLA-G2-H



## OPTICAL RESULTS (SIMULATED):

### PHILIPS

LED Fortimo SLM L13 CoB

FWHM / FWTM 35.0° / 70.0°

Efficiency 86 %

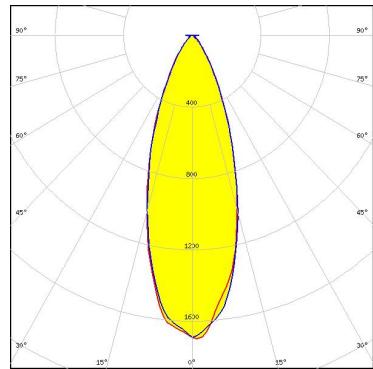
Peak intensity 1.7 cd/lm

LEDs/each optic 1

Light colour White

Required components:

Bender Wirth: 632a Hekla XL



### PHILIPS

LED Fortimo SLM L15 CoB

FWHM / FWTM 37.0° / 74.0°

Efficiency 85 %

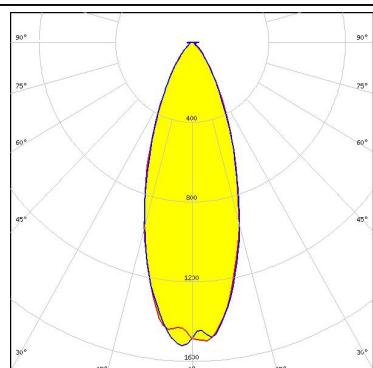
Peak intensity 1.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:

Bender Wirth: 632a Hekla XL



### SAMSUNG

LED LC003D / LC006D / LC009D / LC013D

FWHM / FWTM 35.0° / 64.0°

Efficiency 80 %

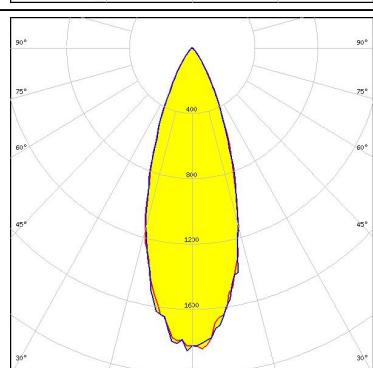
Peak intensity 1.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15255\_HEKLA-SOCKET-C



### SAMSUNG

LED LC010C

FWHM / FWTM 38.0° / 64.0°

Efficiency 87 %

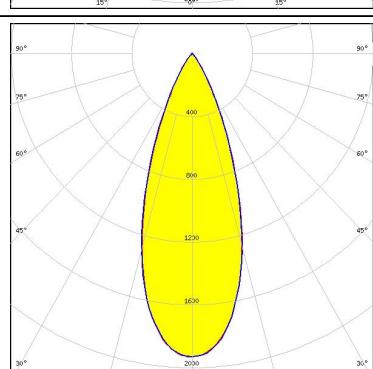
Peak intensity 1.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:

F15848\_HEKLA-SOCKET-G

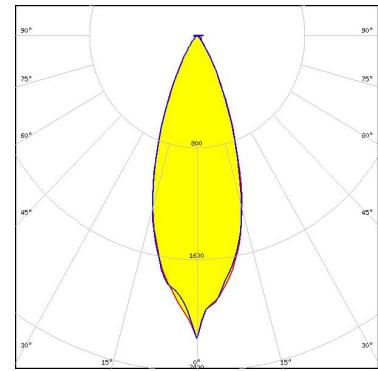


## OPTICAL RESULTS (SIMULATED):

### SAMSUNG

LED	LC020C
FWHM / FWTM	34.0° / 62.0°
Efficiency	90 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

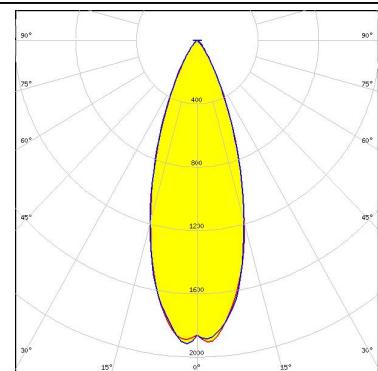
Required components:  
F17438\_HEKLA-G2-I



### 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	White

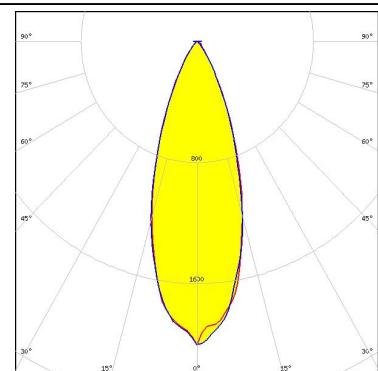
Required components:  
F17435\_HEKLA-G2-C



### XICATO

LED	XTM - 9mm LES
FWHM / FWTM	35.0° / 64.0°
Efficiency	89 %
Peak intensity	2 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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**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

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