

## ILONA-ZOOM

**PATENT PENDING** - An infinitely adjustable beam from 13 to 48 degrees.

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 52.5 mm
Height	33.2 mm
Fastening	socket
ROHS compliant	yes 



### MATERIAL SPECIFICATIONS:

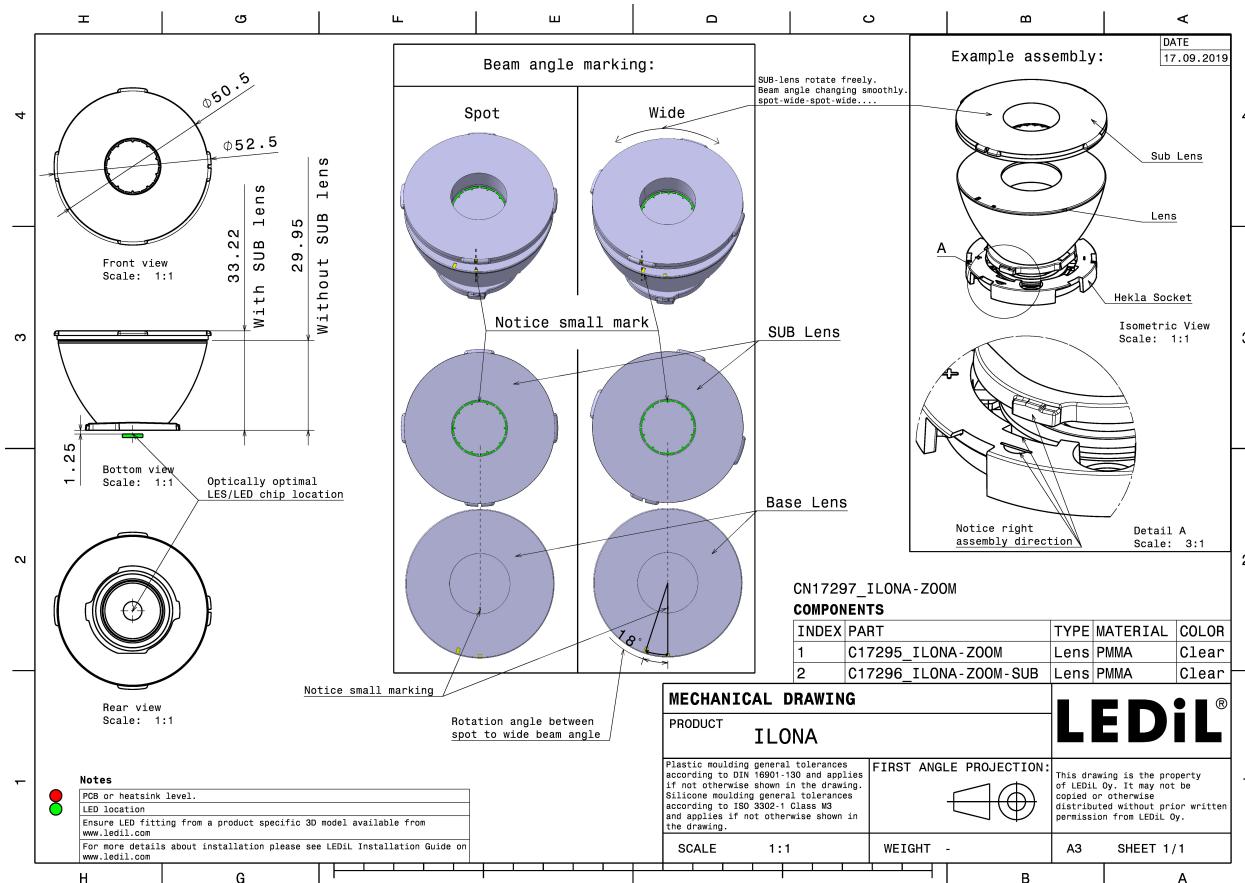
Component	Type	Material	Colour	Finish
C17295_ILONA-ZOOM	Single lens	PMMA	clear	
C17296_ILONA-ZOOM-SUB	Sublens	PMMA	clear	

### ORDERING INFORMATION:

#### Quantities for one set:

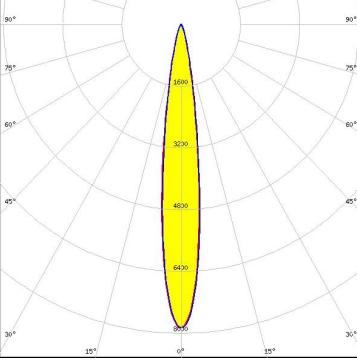
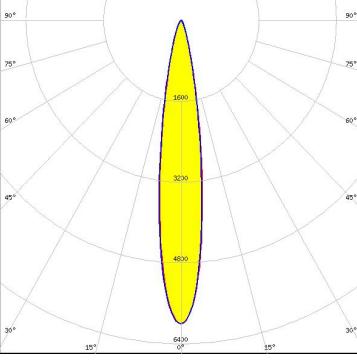
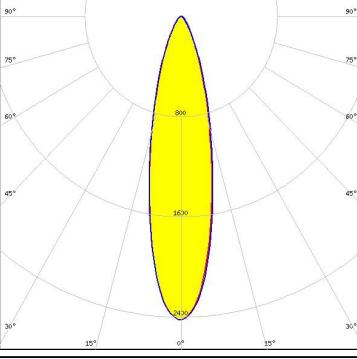
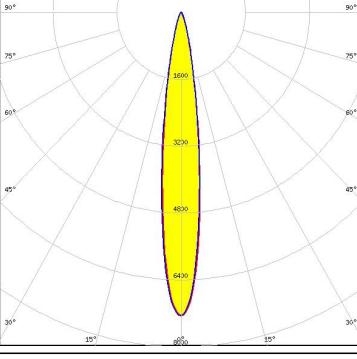
Single lens	1
Sublens	1

Component		Qty in box	MOQ	MPQ	Box weight (kg)
C17295ILONA-ZOOM » Box size: 480 x 280 x 300 mm	Single lens	264	33	33	9.7
C17296ILONA-ZOOM-SUB » Box size: 480 x 280 x 185 mm	Sublens	264	33	33	2.4



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

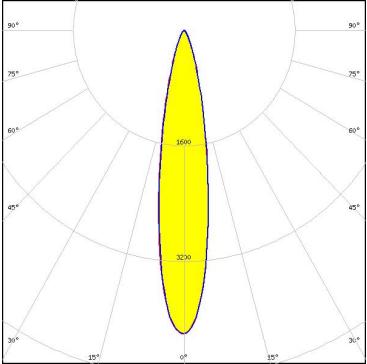
### PHOTOMETRIC DATA (MEASURED):

	<p>LED V6 HD FWHM / FWTM 14.0 + 48.0° / 30.0 + 84.0° Efficiency 84 % Peak intensity 7.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
	<p>LED V8 Gen7 FWHM / FWTM 16.0 + 46.0° / 35.0 + 83.0° Efficiency 85 % Peak intensity 6 cd/lm LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A</p>		
	<p>LED Vesta DTW 13mm (21W) FWHM / FWTM 25.0 + 46.0° / 55.0 + 90.0° Efficiency 77 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8</p>		
	<p>LED Vesta TW 6mm DP FWHM / FWTM 15.0 + 48.0° / 32.0 + 84.0° Efficiency 84 % Peak intensity 7.3 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 504 Typ L8</p>		

### PHOTOMETRIC DATA (MEASURED):

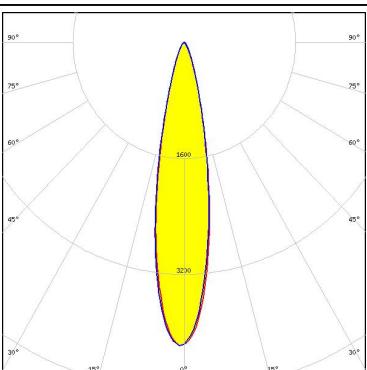


LED	Vesta TW 9mm (9W) DP
FWHM / FWTM	19.0 + 46.0° / 42.0 + 86.0°
Efficiency	81 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	Tunable White
Required components:	
	C16142_HEKLA-SOCKET-K
	Bender Wirth: 489 Typ L8



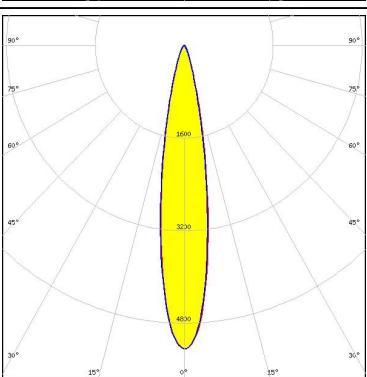
### CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	21.0 + 47.0° / 42.0 + 86.0°
Efficiency	85 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15255_HEKLA-SOCKET-C



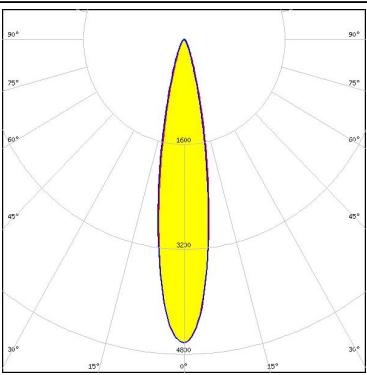
### CITIZEN

LED	CLU712
FWHM / FWTM	19.0 + 47.0° / 37.0 + 84.0°
Efficiency	85 %
Peak intensity	5.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15859_HEKLA-SOCKET-I

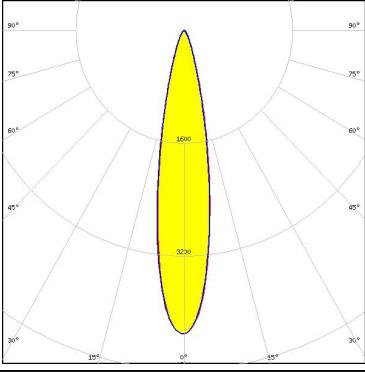
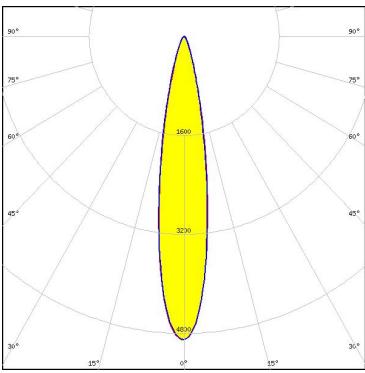
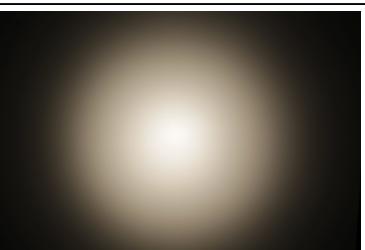
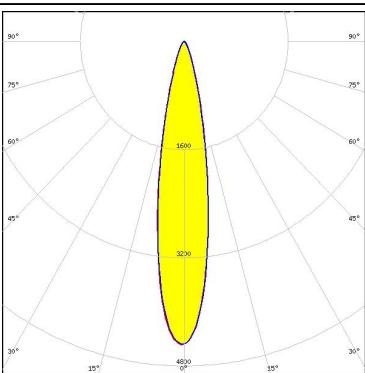
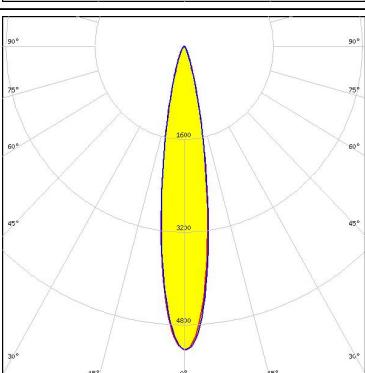


### CREE → LED

LED	CMA1516
FWHM / FWTM	19.0 + 47.0° / 39.0 + 85.0°
Efficiency	85 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15256_HEKLA-SOCKET-D



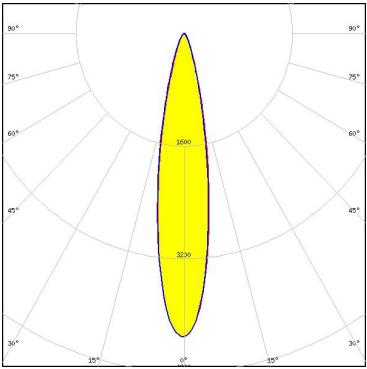
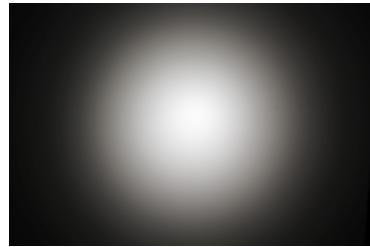
### PHOTOMETRIC DATA (MEASURED):

	<p>LED CMT14xx FWHM / FWTM 20.0 + 46.0° / 41.0 + 85.0° Efficiency 85 % Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
	<p>LED LUXEON CX Plus CoB M02 / M03 (Gen2) FWHM / FWTM 19.0 + 47.0° / 39.0 + 85.0° Efficiency 86 % Peak intensity 4.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15256_HEKLA-SOCKET-D</p>		
	<p>LED CxM-9 (13.5x13.5) FWHM / FWTM 20.0 + 46.0° / 41.0 + 85.0° Efficiency 86 % Peak intensity 4.5 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
	<p>LED COB L-Type (LES 9) FWHM / FWTM 19.0 + 47.0° / 38.0 + 84.0° Efficiency 85 % Peak intensity 5.2 cd/lm LEDs/each optic 1 Light colour White Required components: F15858_HEKLA-SOCKET-H</p>		

### PHOTOMETRIC DATA (MEASURED):

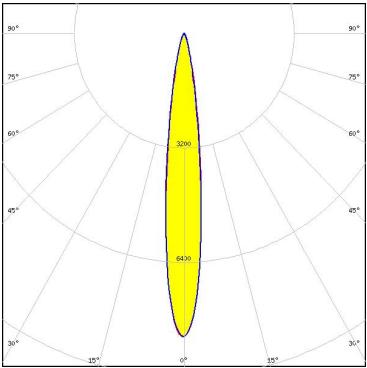
#### SAMSUNG

LED LC003D / LC006D / LC009D / LC013D  
 FWHM / FWTM 20.0 + 47.0° / 42.0 + 85.0°  
 Efficiency 85 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



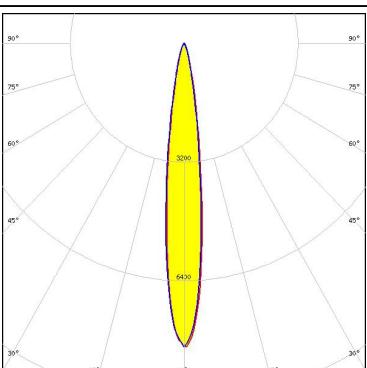
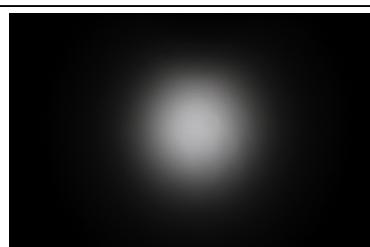
#### SAMSUNG

LED LC010C G2  
 FWHM / FWTM 14.0 + 48.0° / 30.0 + 84.0°  
 Efficiency 88 %  
 Peak intensity 8.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



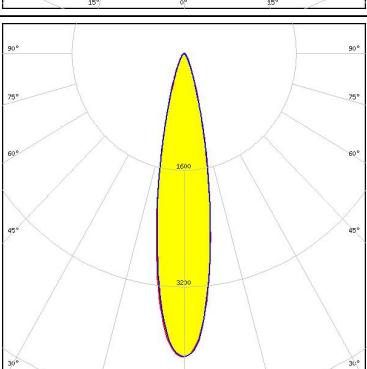
#### SEOUL SEMICONDUCTOR

LED MJT COB LES 6  
 FWHM / FWTM 14.0 + 48.0° / 30.0 + 85.0°  
 Efficiency 84 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



#### SEOUL SEMICONDUCTOR

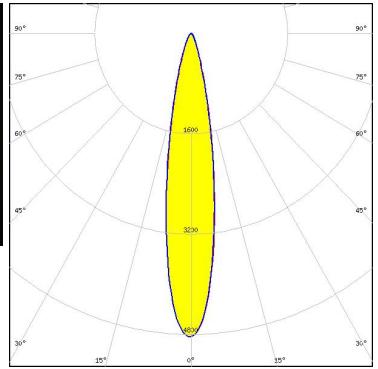
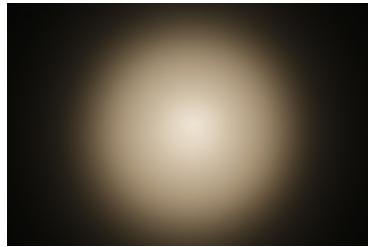
LED MJT COB LES 9.8  
 FWHM / FWTM 21.0 + 47.0° / 43.0 + 86.0°  
 Efficiency 86 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



### PHOTOMETRIC DATA (MEASURED):

#### XICATO

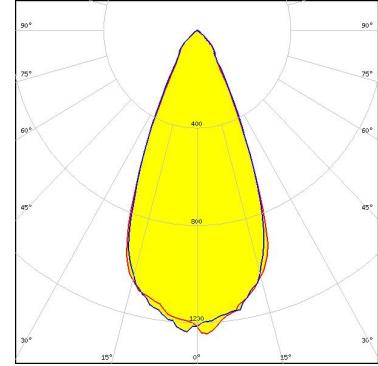
LED	XOB 9.8 mm
FWHM / FWTM	19.0 + 47.0° / 40.0 + 85.0°
Efficiency	86 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15255_HEKLA-SOCKET-C



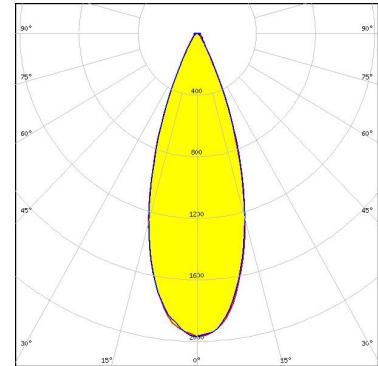
### PHOTOMETRIC DATA (SIMULATED):



LED	V4 HD
FWHM / FWTM	12.0 + 46.0° / 25.0 + 76.0°
Efficiency	82 %
Peak intensity	12.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15253_HEKLA-SOCKET-A

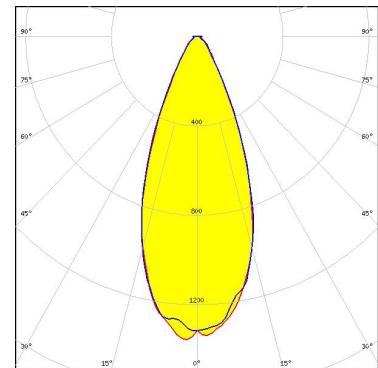


LED	V9 HD
FWHM / FWTM	18.0 + 46.0° / 34.0 + 82.0°
Efficiency	88 %
Peak intensity	6.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15859_HEKLA-SOCKET-I



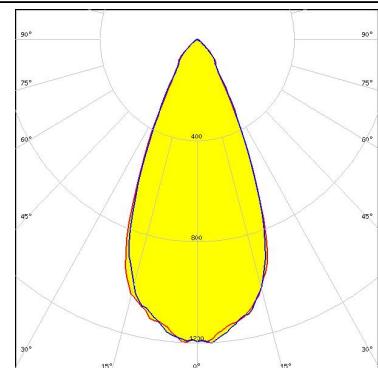
### CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	25.0 + 46.0° / 51.0 + 92.0°
Efficiency	85 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15859_HEKLA-SOCKET-I



### CITIZEN

LED	CLU700/701/702
FWHM / FWTM	13.0 + 47.0° / 27.0 + 78.0°
Efficiency	82 %
Peak intensity	10 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15255_HEKLA-SOCKET-C



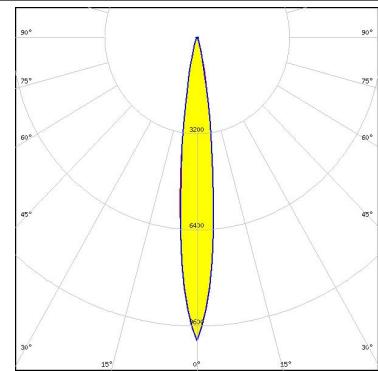
### PHOTOMETRIC DATA (SIMULATED):

#### CITIZEN

LED	CLU7A2 (LES 4.2mm)
FWHM / FWTM	13.0 + 48.0° / 26.0 + 83.0°
Efficiency	88 %
Peak intensity	10.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15255\_HEKLA-SOCKET-C

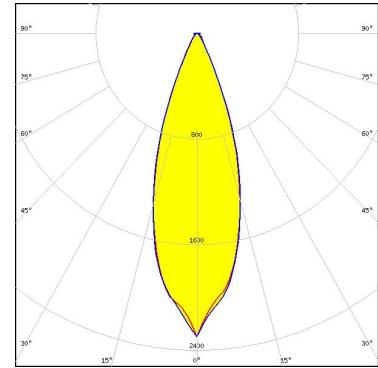


#### CREE LED

LED	CXA/B 13xx
FWHM / FWTM	14.0 + 47.0° / 28.0 + 80.0°
Efficiency	90 %
Peak intensity	9.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15956\_HEKLA-SOCKET-J

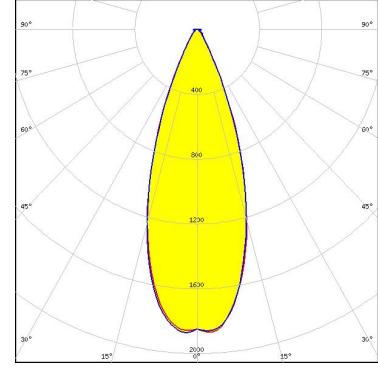


#### CREE LED

LED	CXA/B 15xx
FWHM / FWTM	18.0 + 46.0° / 36.0 + 81.0°
Efficiency	89 %
Peak intensity	5.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

F15256\_HEKLA-SOCKET-D

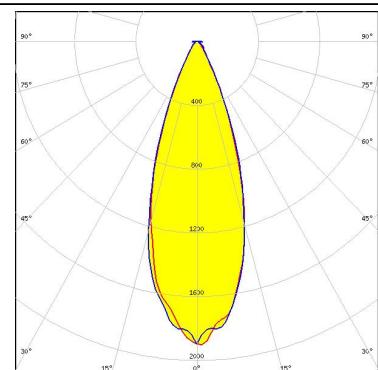


#### LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	20.0 + 44.0° / 37.0 + 80.0°
Efficiency	87 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

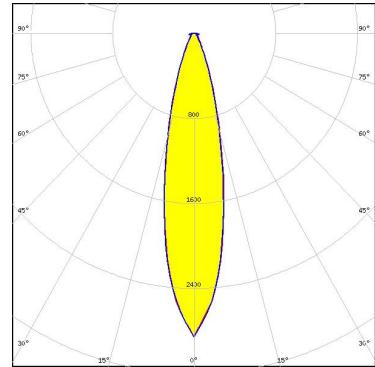
F17437\_HEKLA-G2-H



### PHOTOMETRIC DATA (SIMULATED):

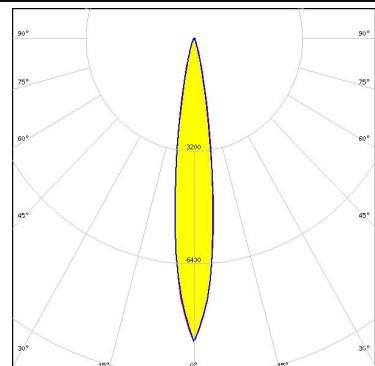
#### LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM / FWTM	24.0 + 46.0° / 50.0 + 95.0°
Efficiency	85 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C16142_HEKLA-SOCKET-K
	Bender Wirth: 437 Typ L8



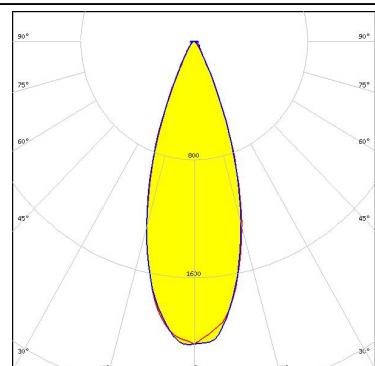
#### LUMINUS

LED	CxM-6 (13.5x13.5)
FWHM / FWTM	14.0 + 46.0° / 30.0 + 81.0°
Efficiency	90 %
Peak intensity	8.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F17435_HEKLA-G2-C



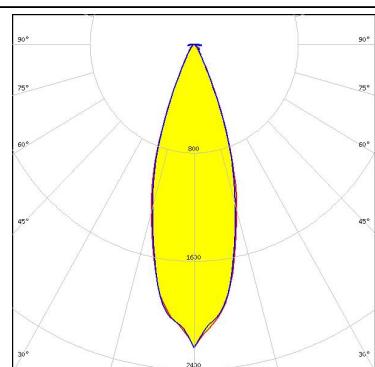
#### NICHIA

LED	COB S-Type (LES 7)
FWHM / FWTM	16.0 + 48.0° / 30.0 + 80.0°
Efficiency	89 %
Peak intensity	7.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F15848_HEKLA-SOCKET-G



#### NICHIA

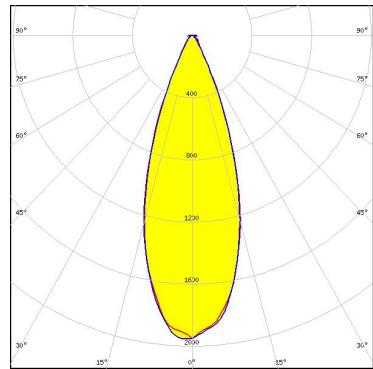
LED	NCSxE17A
FWHM / FWTM	13.0 + 47.0° / 27.0 + 75.0°
Efficiency	88 %
Peak intensity	10 cd/lm
LEDs/each optic	7
Light colour	White
Required components:	



### PHOTOMETRIC DATA (SIMULATED):

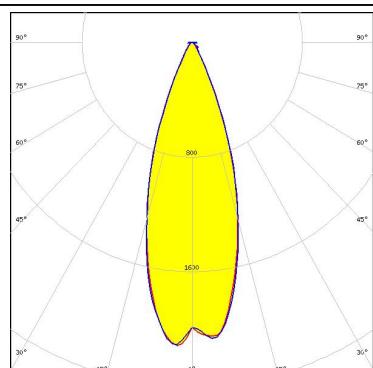
#### SAMSUNG

LED	LC010T (Tunable White)
FWHM / FWTM	18.0 + 46.0° / 34.0 + 83.0°
Efficiency	88 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C16142_HEKLA-SOCKET-K
	Bender Wirth: 501 Typ L8



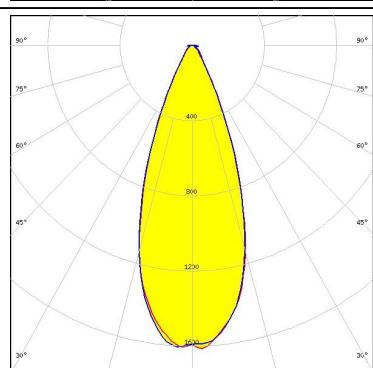
#### SAMSUNG

LED	LC020C
FWHM / FWTM	14.0 + 46.0° / 28.0 + 77.0°
Efficiency	88 %
Peak intensity	9.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F17438_HEKLA-G2-I



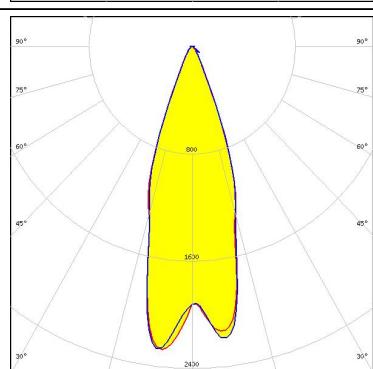
#### SAMSUNG

LED	LC020T (Tunable white)
FWHM / FWTM	22.0 + 46.0° / 42.0 + 85.0°
Efficiency	86 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	C16142_HEKLA-SOCKET-K
	Bender Wirth: 501 Typ L8



#### TRIDONIC

LED	SLE G7 LES13
FWHM / FWTM	12.0 + 45.0° / 21.0 + 71.0°
Efficiency	88 %
Peak intensity	16.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	F17438_HEKLA-G2-I



### 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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