

### WINNIE-O-C

~60° + 20° oval beam with holder C compatible with LEDiL HEKLA

#### **TECHNICAL SPECIFICATIONS:**

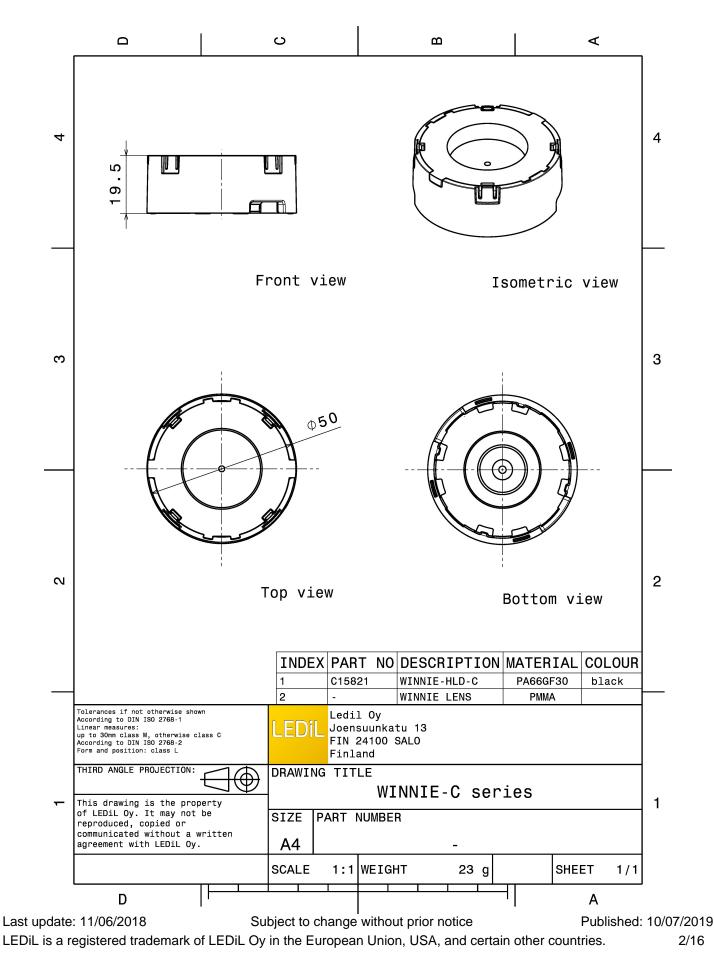
Dimensions	Ø 50.0 mm
Height	19.5 mm
Fastening	socket
Colour	black
Box size	
Box weight	0 kg
Quantity in Box	364 pcs
ROHS compliant	yes 🛈



#### **MATERIAL SPECIFICATIONS:**

Component WINNIE-O WINNIE-HLD-C **Type** Single lens Holder **Material** PMMA PC Colour







bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15253_HEKL	White ents:	99° 99° 99° 90° 90° 90° 90° 90° 90° 90°
bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15253_HEKL	White ents:	200 200 200 200 200 200 200 200
bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	White ents:	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	White ents:	200 200 200 200 200 200 200 200



bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	White ents:	20- 20- 20- 20- 20- 20- 20- 20-
bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	White ents:	50° 50° 50° 50°
bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4	White ents: A-SOCKET-K	20° 00 00 10°
bridgelux, LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	White ents:	D5         U         13           95         0         90           95         00         90           95         00         90           95         00         90           95         00         90           95         00         90           95         00         90           95         00         90           95         00         90           95         00         90           95         100         90           95         100         90           95         100         90           95         100         90           95         100         90



### PHOTOMETRIC DATA (MEASURED):

CITIZE	N	90 <sup>+</sup> 90
LED FWHM Efficiency	CLC020 Series (Dim-To-Warm) 58.0 + 20.0° 81 % 1.700 cd/lm	81
Peak intensity LEDs/each optic		
Light colour	White	at
Required compor C16142_HEKL	ents:	20° 0° 25° 20° 250 250
CITIZE	N	90* 90
LED FWHM Efficiency	CLC030 Series (Dim-To-Warm) 56.0 + 30.0° 79 %	
Peak intensity	1.300 cd/lm	
LEDs/each optic	1	
Light colour	White	45+ 800 A3
Required compor		
C16142_HEKL	A-SUUKE I-K	34° 227 0° 257 36
CITIZE	N	90* 90
LED	CLL02x/CLU02x (LES10)	75
FWHM	63.0 + 23.0°	
Efficiency	80 %	60° 60°
Peak intensity	1.500 cd/lm	
LEDs/each optic Light colour	1 White	- 849
Required compor F15255_HEKL	ents:	2200. 30 <sup>4</sup> 20 20 20 20 20 20 20 20 20 20 20 20 20 2
CITIZE	N	90* 90
LED	CLU700/701	77
FWHM	63.0 + 18.0°	
Efficiency	82 %	60
Peak intensity	1.800 cd/lm	
LEDs/each optic Light colour	1 White	43 <sup>4</sup>
Required compor F15255_HEKL	ents:	1220
		30° 30° 30° 30° 30° 30° 30° 30° 30° 30°

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CITIZE		
CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CLU7A2 (LES 4.2mm) 62.0 + 17.0° 83 % 2.000 cd/lm 1 White tents:	92* 92* 93* 90* 1000 100
CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4	LCN-C01B (Tunable White) 58.0 + 20.0° 81 % 1.700 cd/lm 1 White tents: A-SOCKET-K	10.         0.         12.         37.         37.           20.         10.0         10.0         10.0         10.0           62.         10.0         60.         60.         60.           63.         100         60.         60.         60.           36.         100         60.         60.         60.           36.         100         60.         60.         60.           36.         100         60.         60.         60.           36.         60.         60.         60.         60.
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CMT14xx 61.0 + 22.0° 83 % 1.600 cd/lm 1 White tents:	201 202 202 202 202 202 202 202 202 202
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	CMT19xx 57.0 + 28.5° 81 % 1.287 cd/lm 1 White the the the the the the the the the the	25° 0° 15° 15° 0° 15° 15° 0° 15° 15° 15° 15° 15° 15° 15° 15°



### PHOTOMETRIC DATA (MEASURED):

CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15956_HEKL	CXA/B 13xx 64.0 + 19.0° 83 % 1.800 cd/lm 1 White teents:	x, y, 2, 2, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15848_HEKL	LUXEON CoB 1202HD 63.0 + 18.0° 83 % 1.900 cd/lm 1 White pents:	27 27 27 27 27 27 27 27 27 27
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15848_HEKL	LUXEON CoB 1202s 64.0 + 18.0° 83 % 1.800 cd/lm 1 White ments:	91 71 61 61 61 61 129 129 159 159
LUMILI LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15858_HEKL	LUXEON CoB 1204HD 61.0 + 21.0° 83 % 1.670 cd/lm 1 White ments:	27 27 28 28 29 40 40 40 60 60 60 60 60 60 60 60 60 6

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### PHOTOMETRIC DATA (MEASURED):

CUMIL LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15858_HEKL	LUXEON CoB 1205HD 59.0 + 24.0° 83 % 1.500 cd/lm 1 White ents:	20 <sup>-</sup> 12 <sup>0</sup> 12 <sup>0</sup> 22 <sup>-</sup> 22 <sup>-</sup>
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	CxM-14 (19x19) 58.0 + 29.0° 81 % 1.300 cd/lm 1 White ents:	20° 50° 50° 50° 50° 50° 50° 50° 50° 50° 5
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CxM-9 (13.5x13.5) 62.0 + 23.0° 82 % 1.500 cd/lm 1 White ents:	90* 90 75 60 60 60 60 75 120 120 150 60 15 15 15 15 15 15 15 15 15 15
PHILIP LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15858_HEKL	White ents:	20° - 20° -

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### PHOTOMETRIC DATA (MEASURED):

LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4	Fortimo SLM L13 CoB 27.0 + 55.0° 81 % 1.400 cd/lm 1 White eents: A-SOCKET-K	
PHILIP LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4	Fortimo SLM L15 CoB 54.0 + 30.0° 80 % 1.300 cd/lm 1 White tents: A-SOCKET-K	
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15859_HEKL/	COB D Series LES 14.5 mm 58.0 + 29.0° 80 % 1.200 cd/lm 1 White tents:	
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15255_HEKL/	COB D Series LES 9.8 mm 62.0 + 22.0° 82 % 1.500 cd/lm 1 White tents:	

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### PHOTOMETRIC DATA (MEASURED):

SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15848_HEKL	LC010C 65.0 + 20.0° 81 % 1.600 cd/lm 1 White ents:	8 <sup>14</sup> 17 17 17 17 17 17 17 17 17 17
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	LC010C G2 62.0 + 17.0° 82 % 1.900 cd/lm 1 White ents:	34, 14, 14, 14, 14, 14, 14, 14, 14, 14, 1
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15848_HEKL	LC020C 63.0 + 21.0° 82 % 1.600 cd/lm 1 White ents:	3 <sup>1</sup> 3 <sup>1</sup>
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	LC020C G2 61.0 + 20.0° 82 % 1.700 cd/lm 1 White ents:	23 <sup>4</sup> 0 <sup>4</sup> 13 <sup>5</sup>

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TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	SLE G7 LES09       62.0 + 21.0°         82 %       1.600 cd/lm         1       White         ents:	3h, 15, 0, 15, 2h, 150 2h, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	SLE G7 LES13 59.0 + 27.0° 80 % 1.300 cd/lm 1 White ents:	30 00 00 00 00 00 00 00 00 00 00 00
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	SLE G7 LES15 58.0 + 29.0° 80 % 1.200 cd/lm 1 White ents:	90 <sup>4</sup> 91 <sup>4</sup> 92 <sup>4</sup> 90 90 90 90 90 90 90 90 90 90 90 90 90
XICATC LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	XOB 14.5 mm 58.0 + 29.0° 80 % 1.236 cd/lm 1 White ents:	B2         Co         B2           150         00         00           01         000         00           02         000         00           03         000         00           03         000         00           03         000         00           03         000         00           03         000         00



#### **PHOTOMETRIC DATA (MEASURED):**

# XICATO

 LED
 XOB 9.8 mm

 FWHM
 62.0 + 22.0°

 Efficiency
 82 %

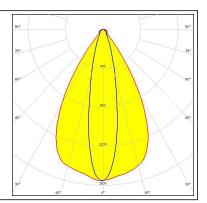
 Peak intensity
 1.555 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required comports:
 F15255\_HEKLA-SOCKET-C







### PHOTOMETRIC DATA (SIMULATED):

bridgelux LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required component F15616_HEKLA-S		27 67 27 29 20 20 20 20 20 20 20 20 20 20
CITIZEN LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required component F15859_HEKLA-S	CLL03x/CLU03x 58.0 + 26.0° 77 % 1.392 cd/lm hite ts:	
CITIZEN LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required component F15859_HEKLA-S	CLU710/711 61.0 + 18.0° 83 % 2.080 cd/lm hite ts:	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required component F15256_HEKLA-S		

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### PHOTOMETRIC DATA (SIMULATED):

CREE ≑		90 <sup>4</sup>
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	71
FWHM	56.0 + 13.0°	
Efficiency	86 %	60° 60°
Peak intensity	2.700 cd/lm	
LEDs/each optic 1		
U U	hite	93° - 1000
Required componen		
F15254_HEKLA-S	SOCKET-B	
		(xea
		34 <sup>4</sup> 35 <sup>7</sup> 6 <sup>6</sup> 35 <sup>7</sup>
<b>Μ</b> ΝΙCΗΙΛ		55
LED	СОВ Т-Туре	
FWHM	62.0 + 18.0°	75
Efficiency	83 %	
Peak intensity	2.053 cd/lm	60.**
LEDs/each optic 1		
	hite	ar. ar.
Required componen		
F15848_HEKLA-S		1690
		15° 0° 15°
OSRAM Opto Semiconductors		90°.
LED	Soleriq S13 19x19	75
FWHM	57.0 + 24.0°	
Efficiency	83 %	60° 60°
Peak intensity	1.600 cd/lm	
LEDs/each optic 1		- 200
Light colour W	hite	42. 42.
Required componen	ts:	1200
F15859_HEKLA-S	SOCKET-I	
		30°
OSRAM		90 <sup>4</sup>
Opto Semiconductors LED	Soloria SO	
FWHM	Soleriq S9 59.0 + 20.0°	75.
	59.0 + 20.0° 85 %	
Efficiency Rock intensity	85 % 1.800 cd/lm	60*
Peak intensity		
LEDs/each optic 1 Light colour W	hite	φ <sup>*</sup> φ <sup>*</sup>
Required componen F15255_HEKLA-S		
F 15255_HEKLA-S		16%
		30° 30° 30°



### PHOTOMETRIC DATA (SIMULATED):

SECUR SEMICONDUCTOR         LED       MJT COB LES 14.5         FWHM       58.0 + 30.0°         Efficiency       80 %         Peak intensity       1.260 cd/lm         LEDs/each optic 1       1         Light colour       White         Required components:       F15859_HEKLA-SOCKET-I	20° 20° 00° 00° 00° 00° 00° 00°
SECURE SEMICONDUCTOR         LED       MJT COB LES 9.8         FWHM       60.0 + 22.0°         Efficiency       83 %         Peak intensity       1.673 cd/lm         LEDs/each optic       1         Light colour       White         Required components:       F15255_HEKLA-SOCKET-C	91* 91* 91* 91* 90* 90* 90* 90* 90* 90* 90* 90
LED       SLE G6 LES15         FWHM       60.0 + 27.0°         Efficiency       80 %         Peak intensity       1.400 cd/lm         LEDs/each optic       1         Light colour       White         Required components:       F15859_HEKLA-SOCKET-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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