

PRODUCT DATASHEET FP15072\_ZORYA-SC-C

# **ZORYA-SC-C**

	nidirectional th HEKLA ada		beam.
SPECIFICATI	ON:		
Dimensions Height Fastening ROHS compli	ant	Ø	55.0 mm 35 mm socket yes û



### **MATERIALS:**

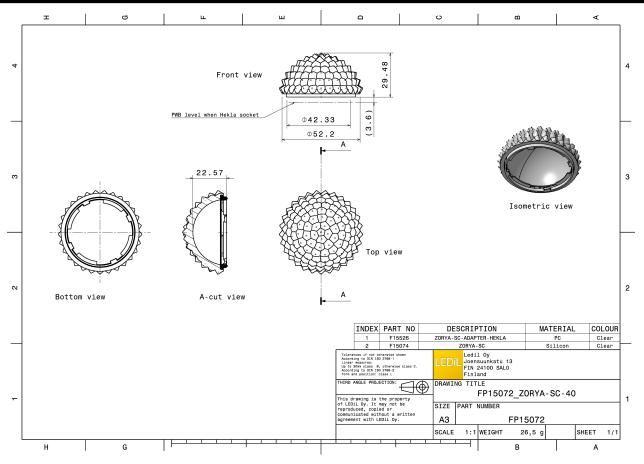
Component	Туре	Material	Colour	Finish
ZORYA-SC	Single lens	Silicone	clear	
ZORYA-SC-ADAPTER-C	Holder	PC	clear	

### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP15072_ZORYA-SC-C	Single lens	140		35	3.0
» Box size: 398 x 298 x 140 mm					



# PRODUCT DATASHEET FP15072\_ZORYA-SC-C



See also our general installation guide: <u>www.ledil.com/installation\_guide</u>



-		
bridgelux.		
LED	VERO13	
FWHM / FWTM	232.0° / 325.0°	90° 90°
Efficiency	94 %	74
Peak intensity	0.1 cd/lm	50
LEDs/each optic	1	607 607
Light colour	White	
Required componer		
C16142_HEKLA		65, 62,
_		150
		15° 0° 15°
bridgelux.		
LED	VERO18	
FWHM / FWTM	161.0° / 316.0°	90* <b>9</b> 0*
Efficiency	94 %	75°
Peak intensity	0.2 cd/lm	
LEDs/each optic	1	50° ( 60°
Light colour	White	
Required componer		
C16142_HEKLA		65+ 65+
		330
		$\times$ / $\times$
		150
bridgelux.		
LED	Vesta TW 9mm (12W) CSP	
FWHM / FWTM	241.0° / 324.0°	90* V 90*
Efficiency	94 %	75.
Peak intensity	0.1 cd/lm	50
LEDs/each optic	1	604 60.4
Light colour	White	
Required componer	its:	
C16142_HEKLA	SOCKET-K	6°
		150
CITIZE	NT CONTRACTOR OF C	15° (0 15°
CITIZE	N	Er of Er
	N CLC020 Series (Dim-To-Warm)	<u> </u>
		25° 0° 15°
LED	CLC020 Series (Dim-To-Warm)	
LED FWHM / FWTM	CLC020 Series (Dim-To-Warm) 235.0° / 322.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLC020 Series (Dim-To-Warm) 235.0° / 322.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLC020 Series (Dim-To-Warm) 235.0° / 322.0°   92 % 92 %   0.1 cd/lm 1   1 White	60° 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLC020 Series (Dim-To-Warm) 235.0° / 322.0°   92 % 92 %   0.1 cd/lm 1   1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLC020 Series (Dim-To-Warm)   235.0° / 322.0°   92 %   0.1 cd/lm   1   White   tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	CLC020 Series (Dim-To-Warm)   235.0° / 322.0°   92 %   0.1 cd/lm   1   White   tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	CLC020 Series (Dim-To-Warm)   235.0° / 322.0°   92 %   0.1 cd/lm   1   White   tts:	



CITIZE	N	
FWHM / FWTM	CLC030 Series (Dim-To-Warm) 163.0° / 317.0°	90° 90°
Efficiency	94 %	
Peak intensity	0.1 cd/lm	
LEDs/each optic	1	100
Light colour	White	
Required component		
C16142_HEKLA		e. e.
	ooone i n	120
		$\times$
СІТІ7Е	NT	
CITIZE		
LED	LCN-C01B (Tunable White)	
FWHM / FWTM	231.0° / 322.0°	
Efficiency	94 %	75
Peak intensity	0.1 cd/lm	
LEDs/each optic	1	.604 604
Light colour	White	
Required compone		
C16142_HEKLA	-SOCKET-K	
		150
		35. 64 32.
CITIZE	N	
LED	LCN-C02B (Tunable White)	
FWHM / FWTM	224.0° / 326.0°	90* <b>) V (</b> 90*
Efficiency	94 %	
Peak intensity	0.1 cd/lm	
LEDs/each optic	1	
Light colour	White	$\mathbf{X} \times \mathbf{X} = \mathbf{X} \times \mathbf{X}$
Required compone		
C16142_HEKLA		6°. d.
_		10
		$\times$
	EDS	
LED	LUXEON CoB 1208	90* <b>( )</b> 90*
FWHM / FWTM	164.0° / 313.0°	
Efficiency	96 %	724 7
Peak intensity	0.1 cd/lm	
LEDs/each optic	1	eor eor
Light colour	White	
	าเร:	
Required compone		
		-6°
Required compone		47°



	NUS	
LED	CDM-14 (Dim-To-Warm)	
	220.0° / 330.0°	90°
	88 %	
-	0.1 cd/lm	75*
-	1	
	White	
Required components		250
C16142_HEKLA-S		15°
Bender Wirth: 491		
		250
		15° 0° 15*
	NUS	
LED	CDM-6 (Dim-To-Warm)	
	240.0° / 330.0°	90* 90*
Efficiency	94 %	
Peak intensity	0.1 cd/lm	75*
	1	
Light colour	White	
Required components	S:	
C16142_HEKLA-S	SOCKET-K	45*
Bender Wirth: 490	Тур L8	150
		$\times$ / $\setminus$ $\times$
		45, 00, 12,
(CS) LINALN		XILLIX
LED	CDM-9 (Dim-To-Warm)	
LED FWHM / FWTM	CDM-9 (Dim-To-Warm) 240.0° / 300.0°	97 D
LED G FWHM / FWTM 2 Efficiency 9	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 %	
LED C FWHM / FWTM C Efficiency S Peak intensity C	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm	94° 38° 50
LED FWHM / FWTM 2 FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1	
LED FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic 2 Light colour 9	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White	
LED FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic 1 Light colour 1 Required components	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s:	
LED C FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic 2 Light colour 8 Required components C16142_HEKLA-S	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K	
LED FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic 1 Light colour 1 Required components	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K	
LED C FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic 2 Light colour 8 Required components C16142_HEKLA-S	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K	15° 15° 10° 10° 10° 10° 10° 10° 10° 10
LED FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic Light colour 1 Required components C16142_HEKLA-S Bender Wirth: 490	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K Typ L8	
LED FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic 1 Light colour 7 Required components C16142_HEKLA-S Bender Wirth: 490	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K Typ L8	
LED C FWHM / FWTM C Efficiency S Peak intensity C LEDs/each optic Light colour C Required components C16142_HEKLA-S Bender Wirth: 490	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K Typ L8	
LED C FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic 2 Light colour 7 Required components C16142_HEKLA-S Bender Wirth: 490	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K Typ L8	
LED C FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic 2 Light colour 9 Required components C16142_HEKLA-S Bender Wirth: 490	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K Typ L8 NUS CTM-14 (Tunable White) 236.0° / 325.0° 94 %	
LED C FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic 2 Light colour 7 Required components C16142_HEKLA-S Bender Wirth: 490	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K Typ L8 VUS CTM-14 (Tunable White) 236.0° / 325.0° 94 % 0.1 cd/lm	
LED C FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic 2 Light colour 7 Required components C16142_HEKLA-S Bender Wirth: 490	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K Typ L8 VUS CTM-14 (Tunable White) 236.0° / 325.0° 94 % 0.1 cd/lm 1	
LED C FWHM / FWTM 2 Efficiency 9 Peak intensity 1 LEDs/each optic 2 Light colour 7 Required components C16142_HEKLA-S Bender Wirth: 490	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K Typ L8 VUS CTM-14 (Tunable White) 236.0° / 325.0° 94 % 0.1 cd/lm 1 White	
LED C FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic 2 Light colour 7 Required components C16142_HEKLA-S Bender Wirth: 490	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K Typ L8 NUS CTM-14 (Tunable White) 236.0° / 325.0° 94 % 0.1 cd/lm 1 White s:	
LED C FWHM / FWTM C Efficiency C Peak intensity C LEDs/each optic C Light colour C Required components C16142_HEKLA-S Bender Wirth: 490 C Efficiency C Peak intensity C LED C FWHM / FWTM C Efficiency C Peak intensity C LEDs/each optic C Light colour C Required components C16142_HEKLA-S	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K Typ L8 NUS CTM-14 (Tunable White) 236.0° / 325.0° 94 % 0.1 cd/lm 1 White s: SOCKET-K	
LED C FWHM / FWTM 2 Efficiency 9 Peak intensity 0 LEDs/each optic 2 Light colour 7 Required components C16142_HEKLA-S Bender Wirth: 490	CDM-9 (Dim-To-Warm) 240.0° / 300.0° 93 % 0.1 cd/lm 1 White s: SOCKET-K Typ L8 NUS CTM-14 (Tunable White) 236.0° / 325.0° 94 % 0.1 cd/lm 1 White s: SOCKET-K	



[		
ELUMI	NUS	XXXXX
LED	CTM-9 (Tunable White)	
FWHM / FWTM	254.0° / 320.0°	90* 90*
Efficiency	92 %	
Peak intensity	0.1 cd/lm	75.
LEDs/each optic	1	
Light colour	White	607 609
Required component	nts:	100
C16142_HEKLA		6*
Bender Wirth: 49		
		100
		15° 0° 15°
<b>ØNICHI</b>	L	
LED	NJCWL024Z-V1MT: COB L-Type Tunable White	
FWHM / FWTM	234.0° / 321.0°	90* <b>9</b> 0*
Efficiency	90 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	507 504
Light colour	White	
Required component	nts:	
C16142_HEKLA		45*
Bender Wirth: 49	97 Typ L8	
		150
		15° 0° 15°
<b>ØNICHI</b>		
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White	
FWHM / FWTM	224.0° / 322.0°	90° <b>9</b> 0° <b>9</b> 0°
Efficiency	94 %	71
Peak intensity	0.1 cd/lm	50
LEDs/each optic	1	604
Light colour	White	
Required compone	nts:	
C16142_HEKLA	-SOCKET-K	6, Gy
Bender Wirth: 49	98 Тур L8	350
		$\times$ / $\setminus$ $\times$
0.0.0.0.		15° 0° 15°
SVWSI	JING	HX XI
LED	LC010C G2	90* 90*
FWHM / FWTM	210.0° / 235.0°	
Efficiency	81 %	50
Peak intensity	0.1 cd/lm	
LEDs/each optic	1	60°
Light colour	White	
Required compone	nts:	45°
F15255_HEKLA	-SOCKET-C	150
		$\times$ / $\wedge$ $\times$
		210
		15° 0° 15*



# **OPTICAL RESULTS (SIMULATED):**

	-	
CITIZEN		
LED	CLL02x/CLU02x (LES10)	
FWHM / FWTM	262.0° / 332.0°	
Efficiency	97 %	
Peak intensity	0.1 cd/lm	× (
LEDs/each optic	1	
Light colour	White	
Required components	:	
F15255_HEKLA-SO	DCKET-C	67 6
		59
CITIZEN	J	
LED	CLU700/701/702/703	
EED FWHM / FWTM	265.0° / 330.0°	
Efficiency	205.0 7 550.0 97 %	
Peak intensity	0.1 cd/lm	m
LEDs/each optic	1	
Light colour	White	
Required components		30
F15255_HEKLA-S(		
	Sonero	50
		33° 3% 35°
	CMT19xx	
LED	CMT19xx 268.0° / 353.0°	
LED FWHM / FWTM	CMT19xx 268.0° / 353.0° 93 %	
LED FWHM / FWTM Efficiency	268.0° / 353.0°	90* 95 95
LED FWHM / FWTM Efficiency Peak intensity	268.0° / 353.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	268.0° / 353.0° 93 % 0.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	268.0° / 353.0° 93 % 0.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	268.0° / 353.0° 93 % 0.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	268.0° / 353.0° 93 % 0.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	268.0° / 353.0° 93 % 0.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	268.0° / 353.0° 93 % 0.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	268.0° / 353.0° 93 % 0.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-SC	268.0° / 353.0° 93 % 0.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-SC	268.0° / 353.0° 93 % 0.1 cd/lm 1 White : DCKET-I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-SC	268.0° / 353.0° 93 % 0.1 cd/lm 1 White :: DCKET-I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-SC	268.0° / 353.0° 93 % 0.1 cd/lm 1 White :: DCKET-I CXA/B 13xx 264.0° / 324.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-SC	268.0° / 353.0° 93 % 0.1 cd/lm 1 White : DCKET-I CXA/B 13xx 264.0° / 324.0° 96 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-SC	268.0° / 353.0° 93 % 0.1 cd/lm 1 White : DCKET-I CXA/B 13xx 264.0° / 324.0° 96 % 0.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-SC	268.0° / 353.0° 93 % 0.1 cd/lm 1 White : DCKET-1 CXA/B 13xx 264.0° / 324.0° 96 % 0.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-SC CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	268.0° / 353.0° 93 % 0.1 cd/lm 1 White : DCKET-1 CXA/B 13xx 264.0° / 324.0° 96 % 0.1 cd/lm 1 White :	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-SC CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	268.0° / 353.0° 93 % 0.1 cd/lm 1 White : DCKET-1 CXA/B 13xx 264.0° / 324.0° 96 % 0.1 cd/lm 1 White :	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-S( CREE (LED) LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	268.0° / 353.0° 93 % 0.1 cd/lm 1 White : DCKET-1 CXA/B 13xx 264.0° / 324.0° 96 % 0.1 cd/lm 1 White :	



# **OPTICAL RESULTS (SIMULATED):**

LED	CXA/B 15xx	
FWHM / FWTM	263.0° / 327.0°	90° () 90°
Efficiency	95 %	
Peak intensity	0.1 cd/lm	30 50
LEDs/each optic	1	
Light colour	White	50 <sup>14</sup> 60 <sup>14</sup>
Required components	s:	10
F15256_HEKLA-S	OCKET-D	47° 4°
		150
		23° 0 <sup>1</sup> 23°



#### **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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

#### 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

### Local sales and technical support www.ledil.com/ where\_to\_buy

#### **Shipping locations**

Salo, Finland Hong Kong, China

#### Distribution Partners www.ledil.com/

where\_to\_buy