

### WINNIE-S-C

~20° spot beam with holder C compatible with LEDIL HEKLA

#### **TECHNICAL SPECIFICATIONS:**

Dimensions Ø 50.0 mm Height Fastening

19.5 mm socket

**ROHS** compliant yes 🛈

#### **MATERIAL SPECIFICATIONS:**

Component WINNIE-S WINNIE-HLD-C

Туре Single lens Holder

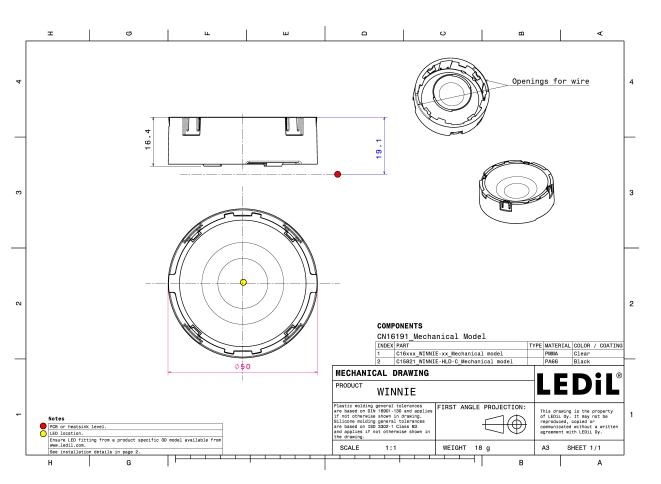


	Material	Colour	Finish
S	PMMA	clear	
	PC	black	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CN15822_WINNIE-S-C	Single lens	364	84	28	0.0
» Box size:					





PRODUCT DATASHEET

CN15822\_WINNIE-S-C



### PHOTOMETRIC DATA (MEASURED):

bridgetuk LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15253_HEKL	White ents:	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
bridgetuk LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15253_HEKL	White ents:	5° - 5° 5° - 5° -
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	White ents:	200 200 200 200 200 200 200 200
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	White ents:	Dir   Dir     33'   300     91'   200     92'   200     92'   000     92'   000     92'   000     92'   000     92'   000     92'   000     92'   000     92'   000     92'   000     92'   000     92'   000     92'   000     92'   000     92'   000

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bridgelux.		90 <sup>4</sup> 90 <sup>4</sup>
LED	VERO13	75. 75.
FWHM	26.0°	
Efficiency	83 %	60° 60°
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required compon	nents:	
C16142_HEKL	A-SOCKET-K	
		300 300
		123 <sup>4</sup> 0 <sup>6</sup> 12 <sup>5</sup>
bridgelux.		90° 90°
LED	VERO18	78"
FWHM	37.0°	
Efficiency	81 %	60° 60°
Peak intensity	1.4 cd/lm	
LEDs/each optic		
Light colour	White	45° 45°
Required compon		
C16142_HEKL	A-SOCKET-K	1200
		304 157 04 157 364
$\frown$		
bridgelux.		90*
bridgelux. LED	Vesta TW 13mm (25W) CSP	93 <sup>*</sup>
	Vesta TW 13mm (25W) CSP 29.0°	32. 25. 26. 26.
LED		90 <sup>4</sup> 90 <sup>4</sup>
LED FWHM	29.0°	90* 90* 75* 60* 90
LED FWHM Efficiency	29.0° 82 % 2.1 cd/lm	90* 90* 72* 60* 00*
LED FWHM Efficiency Peak intensity	29.0° 82 % 2.1 cd/lm	22, 00, 00, 05, 05, 05, 05, 05, 05, 05, 05
LED FWHM Efficiency Peak intensity LEDs/each optic	29.0° 82 % 2.1 cd/lm 1 White	91 <sup>4</sup> 91 <sup>4</sup> 91 <sup>4</sup> 90 91 <sup>4</sup> 90 91 <sup>4</sup> 90 91 <sup>4</sup> 90 91 <sup>4</sup> 91 <sup>4</sup> 91 <sup>4</sup> 91 <sup>4</sup> 91 <sup>4</sup> 91 <sup>4</sup> 91 <sup>4</sup> 91 <sup>4</sup> 91 <sup>4</sup> 91 <sup>4</sup> 91 <sup>4</sup>
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	29.0° 82 % 2.1 cd/lm 1 White nents:	100 100 100 100 100 100 100 100
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	29.0° 82 % 2.1 cd/lm 1 White nents: A-SOCKET-K	57°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL	29.0° 82 % 2.1 cd/lm 1 White nents: A-SOCKET-K	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4	29.0° 82 % 2.1 cd/lm 1 White nents: A-SOCKET-K	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4	29.0° 82 % 2.1 cd/lm 1 White hents: A-SOCKET-K 492 Typ L8	30 30 30 30
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4	29.0° 82 % 2.1 cd/lm 1 White nents: A-SOCKET-K 492 Typ L8 Vesta TW 9mm (12W) CSP	30 30 30 30
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4	29.0° 82 % 2.1 cd/lm 1 White nents: A-SOCKET-K 492 Typ L8 Vesta TW 9mm (12W) CSP 23.0°	30 30 30 30
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4	29.0° 82 % 2.1 cd/lm 1 White nents: A-SOCKET-K 492 Typ L8 Vesta TW 9mm (12W) CSP 23.0° 84 %	30 30 30 30
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4 bridgetux. LED FWHM Efficiency Peak intensity	29.0° 82 % 2.1 cd/lm 1 White nents: A-SOCKET-K 492 Typ L8 Vesta TW 9mm (12W) CSP 23.0° 84 % 3.3 cd/lm	30 30 30 30
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4 bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic	29.0° 82 % 2.1 cd/lm 1 White nents: A-SOCKET-K 492 Typ L8 Vesta TW 9mm (12W) CSP 23.0° 84 % 3.3 cd/lm 1	00 00 00 00 00 00 00 00 00 00
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4 bridgeluk LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	29.0° 82 % 2.1 cd/lm 1 White hents: A-SOCKET-K 492 Typ L8 Vesta TW 9mm (12W) CSP 23.0° 84 % 3.3 cd/lm 1 White	100 100 100 100 100 100
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4 bridgeluk LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	29.0° 82 % 2.1 cd/lm 1 White hents: A-SOCKET-K 492 Typ L8 Vesta TW 9mm (12W) CSP 23.0° 84 % 3.3 cd/lm 1 White hents:	100 100 100 100 100 100
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4 bridgeluk LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	29.0° 82 % 2.1 cd/lm 1 White hents: A-SOCKET-K 492 Typ L8 Vesta TW 9mm (12W) CSP 23.0° 84 % 3.3 cd/lm 1 White hents:	100 100 100 100 100 100
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C16142_HEKL Bender Wirth: 4 bridgeluk LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	29.0° 82 % 2.1 cd/lm 1 White hents: A-SOCKET-K 492 Typ L8 Vesta TW 9mm (12W) CSP 23.0° 84 % 3.3 cd/lm 1 White hents:	100 100 100 100 100 100



### PHOTOMETRIC DATA (MEASURED):

CITIZE	N	90° 90°
	CLC020 Series (Dim-To-Warm)	
FWHM	22.0°	75. 75.
Efficiency	83 %	
	3.1 cd/lm	60°
Peak intensity		
LEDs/each optic		gr / 1600
Light colour Required compor	White	
C16142_HEKL		2430
	A-SOCKET-K	
		30° 3250 30° 30° 30°
CITIZE	N	90 <sup>4</sup> 90 <sup>4</sup>
LED	CLC030 Series (Dim-To-Warm)	
FWHM	29.0°	75
Efficiency	80 %	
Peak intensity	2 cd/lm	60° - 60°
LEDs/each optic		
Light colour	White	97 1230 47*
Required compor		
C16142_HEKL		1600
		$\times$ / $\times$ / $\times$
		an
		15 0° 15
CITIZE	N	90 <sup>4</sup> 99 <sup>4</sup>
		90* 99* 157 0° 12*
LED	CLL02x/CLU02x (LES10)	35 36 37 39 39 39 39 39 39 39 39
LED FWHM	CLL02x/CLU02x (LES10) 20.0°	35 35 15 00 15 0 15 15 15 15
LED FWHM Efficiency	CLL02x/CLU02x (LES10) 20.0° 81 %	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm	99 60
LED FWHM Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1	500 - CC
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White	99
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White nents:	99 60
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White nents:	97 900 97 10.9 97 20
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White nents:	90° 80° 9° 8° 200
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White hents: A-SOCKET-C	6 <sup>3</sup> 8 <sup>3</sup>
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White hents: A-SOCKET-C	90° 80° 9° 80° 260 8°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White hents: A-SOCKET-C	200 200 200 200 200 200 200 200
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White hents: A-SOCKET-C N CLU7A2 (LES 4.2mm)	200 200 200 200 200 200 200 200
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White hents: A-SOCKET-C N CLU7A2 (LES 4.2mm) 13.0°	200 200 200 200 200 200 200 200
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL CITTIZE LED FWHM Efficiency	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White nents: A-SOCKET-C	200 200 200 200 200 200 200 200
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL CITTIZE LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White nents: A-SOCKET-C N CLU7A2 (LES 4.2mm) 13.0° 85 % 6.8 cd/lm	200 200 200 200 200 200 200 200
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL ED FWHM Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White nents: A-SOCKET-C N CLU7A2 (LES 4.2mm) 13.0° 85 % 6.8 cd/lm 1	200 200 200 200 200 200 200 200
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White nents: A-SOCKET-C N CLU7A2 (LES 4.2mm) 13.0° 85 % 6.8 cd/lm 1 White	200 200 200 200 200 200 200 200
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White nents: A-SOCKET-C	200 200 00 00 00 00 00 00 00 00
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White nents: A-SOCKET-C	200 200 00 00 00 00 00 00 00 00
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CLL02x/CLU02x (LES10) 20.0° 81 % 3 cd/lm 1 White nents: A-SOCKET-C	200 200 200 200 200 200 200 200 200 200

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CITIZE		
CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4	LCN-C01B (Tunable White) 23.0° 83 % 3.1 cd/lm 1 White nents: A-SOCKET-K	200 200 00 00 00 00 00 00 00 00
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CMT14xx 20.0° 85 % 3.3 cd/lm 1 White hents:	30 <sup>4</sup> 50 30 <sup>4</sup> 50 60 <sup>4</sup> 60 <sup>4</sup> 500 60 <sup>4</sup> 60 <sup>4</sup> 500 500 500 500 500 500 500 50
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	CMT19xx 29.0° 83 % 2 cd/lm 1 White nents:	99 <sup>3</sup> 99 <sup>3</sup> 99 <sup>3</sup> 90 90 90 90 90 90 90 90 90 90 90 90 90
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15956_HEKL	CXA/B 13xx 15.0° 85 % 4.9 cd/lm 1 White nents:	200 0, 0, 10, 10, 10, 10, 10, 10,



EUMILI LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15848_HEKL	LUXEON CoB 1202HD 15.0° 87 % 5.8 cd/lm 1 White ents:	20°
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15848_HEKL	LUXEON CoB 1202s 15.0° 85 % 5.2 cd/lm 1 White ents:	34° (4° (2° (4° (2° (4° (4° (4° (4° (4° (4° (4° (4° (4° (4
EUMILI LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15858_HEKL	LUXEON CoB 1204HD 18.0° 87 % 4.2 cd/lm 1 White ents:	20 <sup>3</sup> 20
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15858_HEKL	LUXEON CoB 1205HD 22.0° 85 % 3 cd/lm 1 White ents:	31, 25, 26, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25



	EDS	50* 50*
LED	LUXEON CX Plus CoB - HD S01H4	
FWHM	14.0°	78'
Efficiency	87 %	
Peak intensity	6.5 cd/lm	
LEDs/each optic	1	320
Light colour	White	er c
Required compor	nents:	4000
Bender Wirth: 6	634c Hekla	
		36° 30° 30'
	EDS	30'
LED	LUXEON CX Plus CoB - HD S01H6 / HD S02H6	
FWHM	14.0°	75
Efficiency	87 %	
Peak intensity	6.2 cd/lm	
LEDs/each optic		
Light colour	White	43 <sup>+</sup> 45
Required compor	nents:	
Bender Wirth: 6	634c Hekla	
		$\times$ / $\setminus$ $\times$
		30° 640 30'
	EDS	90 <sup>4</sup> 90 <sup>0</sup>
LED		
	LUXEON CX PIUS COB - HD S04H9	
FWHM	LUXEON CX Plus CoB - HD S04H9 19.0°	75* 800 73
		27 000 77
FWHM	19.0°	60- 32- 32- 20- 20- 20- 20- 20- 20- 20- 20- 20- 2
FWHM Efficiency Peak intensity LEDs/each optic	19.0° 86 % 3.9 cd/lm	64
FWHM Efficiency Peak intensity LEDs/each optic Light colour	19.0° 86 % 3.9 cd/lm 1 White	27 00 77 es 500 60
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	19.0° 86 % 3.9 cd/lm 1 White nents:	
FWHM Efficiency Peak intensity LEDs/each optic Light colour	19.0° 86 % 3.9 cd/lm 1 White nents:	
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	19.0° 86 % 3.9 cd/lm 1 White nents:	97 <u>200</u> 6
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	19.0° 86 % 3.9 cd/lm 1 White nents:	97 <u>300</u> 8
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	19.0° 86 % 3.9 cd/lm 1 White tents: 534c Hekla	300
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor Bender Wirth: 6	19.0° 86 % 3.9 cd/lm 1 White hents: 534c Hekla	2009
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor Bender Wirth: (	19.0° 86 % 3.9 cd/lm 1 White tents: 534c Hekla	97 <u>200</u> 6
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor Bender Wirth: (	19.0° 86 % 3.9 cd/lm 1 White nents: 534c Hekla EDS LUXEON Fusion 12-up (20x24)	200 200 200 200 200 200 200 200 200 200
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor Bender Wirth: ( COMPUTED LED FWHM	19.0° 86 % 3.9 cd/lm 1 White the the the the the the the the the the	200 200 200 200 200 200 200 200 200 200
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor Bender Wirth: ( Composition of the second Bender Wirth: ( Composition of the sec	19.0° 86 % 3.9 cd/lm 1 White therents: 534c Hekla EDS LUXEON Fusion 12-up (20x24) 18.0° 84 % 4.2 cd/lm	2009
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor Bender Wirth: ( ED FWHM Efficiency Peak intensity LEDs/each optic Light colour	19.0° 86 % 3.9 cd/lm 1 White hents: 534c Hekla EDS LUXEON Fusion 12-up (20x24) 18.0° 84 % 4.2 cd/lm 1 Tunable White	
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor Bender Wirth: ( UNIL) LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	19.0° 86 % 3.9 cd/lm 1 White hents: 534c Hekla EDS LUXEON Fusion 12-up (20x24) 18.0° 84 % 4.2 cd/lm 1 Tunable White hents:	
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor Bender Wirth: (	19.0° 86 % 3.9 cd/lm 1 White hents: 534c Hekla <b>EDS</b> LUXEON Fusion 12-up (20x24) 18.0° 84 % 4.2 cd/lm 1 Tunable White hents: A-SOCKET-K	
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor Bender Wirth: ( UNIL) LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	19.0° 86 % 3.9 cd/lm 1 White hents: 534c Hekla <b>EDS</b> LUXEON Fusion 12-up (20x24) 18.0° 84 % 4.2 cd/lm 1 Tunable White hents: A-SOCKET-K	
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor Bender Wirth: (	19.0° 86 % 3.9 cd/lm 1 White hents: 534c Hekla <b>EDS</b> LUXEON Fusion 12-up (20x24) 18.0° 84 % 4.2 cd/lm 1 Tunable White hents: A-SOCKET-K	200 200 200 200 200 200 200 200 200 200



### PHOTOMETRIC DATA (MEASURED):

		90'
LED	CxM-14 (19x19)	73.
FWHM	29.0°	
Efficiency	83 %	60.
Peak intensity	1.9 cd/lm	
LEDs/each optic		
Light colour	White	43° - 1230 - 43°
Required compon		$\times$ / $\times$
F15859_HEKL/	A-SOCKET-I	1000
		30° 2000 30° 30°
	NUS	90° 90°
LED	CXM-4	
FWHM	13.0°	75'
Efficiency	84 %	
Peak intensity	6.4 cd/lm	60°
LEDs/each optic		
Light colour	White	45*
Required compon		
F15255_HEKL/		4800
Ce		15° 0° 15°
		90* 90*
LED	CxM-9 (13.5x13.5)	7°-
LED FWHM	CxM-9 (13.5x13.5) 20.0°	
LED FWHM Efficiency	CxM-9 (13.5x13.5) 20.0° 83 %	77
LED FWHM Efficiency Peak intensity	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm	77
LED FWHM Efficiency Peak intensity LEDs/each optic	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/m 1	90 90 90 90 90 90 90 90
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/m 1 White	60 22 22
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents:	2, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents:	90 90 90 90 90 90
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents:	2. 2. 2. 2. 2. 2. 2. 2.
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents:	2. 2. 2. 2. 2. 2. 2. 2.
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15255_HEKL/	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents: A-SOCKET-C	73
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15255_HEKLA	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents: A-SOCKET-C	20 20 20 20 20 20 20 20 20 20
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15255_HEKLA	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents: A-SOCKET-C	20 20 20 20 20 20 20 20 20 20
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15255_HEKL/	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents: A-SOCKET-C S Fortimo SLM L09 CoB 19.0°	20 20 20 20 20 20 20 20 20 20
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15255_HEKL/ PHILLP LED FWHM Efficiency	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents: A-SOCKET-C S Fortimo SLM L09 CoB 19.0° 87 %	20 20 20 20 20 20 20 20 20 20
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15255_HEKL/ PHILIP LED FWHM Efficiency Peak intensity	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents: A-SOCKET-C	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15255_HEKL/ PHILIP LED FWHM Efficiency Peak intensity LEDs/each optic	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents: A-SOCKET-C	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15255_HEKL/ PHILIP LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents: A-SOCKET-C	25 00 00 00 00 00 00 00 00 00 0
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15255_HEKLA PHILIP LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents: A-SOCKET-C	200 200 200 200 200 200 200 200
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15255_HEKL/ PHILIP LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents: A-SOCKET-C	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F15255_HEKLA PHILIP LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	CxM-9 (13.5x13.5) 20.0° 83 % 3.1 cd/lm 1 White ents: A-SOCKET-C	500 510 510 510 510 510 510 510

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### PHOTOMETRIC DATA (MEASURED):

PHILIP LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4	Fortimo SLM L13 CoB 28.0° 84 % 2.3 cd/lm 1 White hents: A-SOCKET-K 432 Typ L8	
PHILIP LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4	Fortimo SLM L15 CoB 32.0° 83 % 1.9 cd/lm 1 White hents: A-SOCKET-K	21. 220 - 250 - 12. 25. 21 200 - 200 - 200 200 - 200 - 200 200 - 200 - 200 200 - 20
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LC003D / LC006D / LC009D / LC013D 21.0° 83 % 3.1 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15848_HEKL	LC010C 16.0° 84 % 4.6 cd/lm 1 White hents:	20 0 10 10 10 10 10 10 10 10 10 10 10 10

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### PHOTOMETRIC DATA (MEASURED):

SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	LC010C G2 14.0° 84 % 5.4 cd/lm 1 White nents:	97 73 60* 90* 300 60* 60* 60* 60* 60* 60* 60* 60*
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	LC016D / LC019D / LC026D / LC033D 32.0° 81 % 1.8 cd/lm 1 White hents:	
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15848_HEKL	LC020C 18.0° 84 % 3.7 cd/lm 1 White tents:	2000 200 2000 2
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	LC020C G2 19.0° 84 % 3.7 cd/lm 1 White hents:	200 200 200 200 200 200 200 200

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TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	SLE G7 LES09   19.0°   83 %   3.4 cd/lm   1   White   ients:	500 500 500 500 500 500 500 500
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	SLE G7 LES13   27.0°   81 %   2.1 cd/lm   1   White   eents:	
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	SLE G7 LES15 30.0° 81 % 1.8 cd/lm 1 White thents:	200 B00 B00 B00 B00 B00 B00 B00 B00 B00
XICATC LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	XOB 14.5 mm   29.0°   80 %   1.8 cd/lm   1   White   tents:	



XICATO	)		50 <sup>4</sup>
LED FWHM	XOB 9.8 mm 20.0°		75
Efficiency	83 %		60 <sup>4</sup>
Peak intensity	3.3 cd/lm		
LEDs/each optic	; 1		
Light colour	White		93°
Required compo	onents:		2432
F15255_HEK	LA-SOCKET-C		20 <sup>4</sup> 20 0 <sup>4</sup> 10 <sup>4</sup>



### PHOTOMETRIC DATA (SIMULATED):

bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15616_HEKLA-		27 27 20 20 20 20 20 20 20 20 20 20
CITIZEN LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15859_HEKLA-	CLL03x/CLU03x 26.0° 79 % 2.4 cd/lm 1 White	y- y- y- y- y- y- y- y- y- y-
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKLA-		200 200 200 200 200 200 200 200 200 200
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15256_HEKLA-		200 200 200 200 200 200 200 200



### PHOTOMETRIC DATA (SIMULATED):

XICHIA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	NFSWE11A 18.0° 77 % 5 cd/lm 30 White	20. 20. 20. 20. 20. 20. 20. 20.
<b>SAMSUN</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	LC016D / LC019D / LC026D / LC033D 29.0° 82 % 2.2 cd/lm 1 White	51 <sup>4</sup> 51 <sup>4</sup> 5
SECUL SEMICONDUCTOR LED	MJT COB LES 14.5	25° 20°
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component		64 60 00 00 00 00 00 00 00 00 00 00 00 00
F15859_HEKLA-S	OCKET-I	200 30 <sup>4</sup> 200 15 <sup>4</sup> 0 <sup>4</sup> 15 <sup>4</sup> 0 <sup>4</sup>
scoul semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component		57 77 100 100 100 100 100 100 100
F15255_HEKLA-S	SOCKET-C	34°

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#### **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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