

BROOKE-G2-W

~50° wide beam compatible with LEDiL HEKLA.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 45.0 mm
Height	18.9 mm
Fastening	socket
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	5.2 kg
Quantity in Box	720 pcs
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component **BROOKE-G2-W** Туре Reflector Material

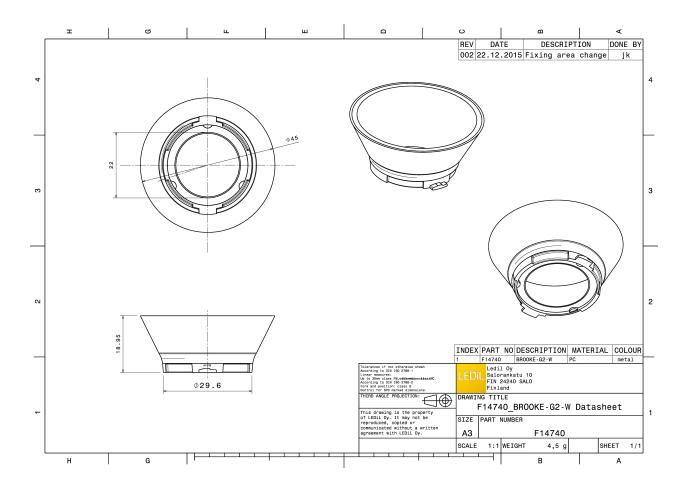
PC

Colour

metal

Coating lacquer

E D F R DATASHEET F14740_BROOKE-G2-W





bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	White ents:	20. 20. 21. 22. 23. 24. 26. 900 900 900 900 900 900 900 90
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE	White ents: A-SOCKET-C	91 ⁴ 91
bridgetuk LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15253_HEKL C14658_BARE	White ents: A-SOCKET-A	30 30 40 40 40 40 50 40 50 40 50 50 50 50 50 50 50 50 50 5
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15253_HEKL	White ents:	

PRODUCT DATASHEET



bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARB	White ents: A-SOCKET-C	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
bridgelux 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 C14658_BARB	White ents: A-SOCKET-I	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:	200 200 200 000 000 000 000 000

PRODUCT DATASHEET



bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15616_HEKL C14658_BARB	White ents: A-SOCKET-F	20° 0° 12° 0° 12° 0° 12° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°
bridgelux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15616_HEKL	White ents:	201 201 201 201 201 201 201 201
bridgetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL		91 91 91 91 91 91 91 91 91 91 91 91 91 9
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	White ents:	25° 2° 13° 19° 9° 9° 9° 9° 9° 9° 9° 9° 9°

PRODUCT DATASHEET



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bridgelux.		90* 90*
LED	Vesta DTW 15mm (33W)	
FWHM	53.0°	75°
Efficiency	83 %	60%
Peak intensity	0.900 cd/lm	
LEDs/each optic	1	
Light colour	White	63° 63°
Required compor	ents:	
C16142_HEKL	A-SOCKET-K	
C14658_BARB	ARA-RZ-LENS	
Bender Wirth: 4	l91 Typ L8	30° 30° 30°
bridgelux.		90°
LED	Vesta DTW 15mm (33W)	
FWHM	52.0°	75*
Efficiency	89 %	
Peak intensity	1.000 cd/lm	60° 60°
LEDs/each optic		
Light colour	White	45*
Required compor	ents:	
C16142_HEKL		· · · · · · · · · · · · · · · · · · ·
Bender Wirth: 4		
		30° 150 0° 150 30°
bridgelux.		90* 90*
LED	Vesta DTW 9mm (4W/6W/12W)	
FWHM	41.0°	75* 200
Efficiency	85 %	
Peak intensity	1.100 cd/lm	
LEDs/each optic	1	
Light colour	White	45 ¹ 45 ¹
Required compor	ents:	
C16142_HEKL		
C14658_BARB		
Bender Wirth: 4	190 Typ L8	30° 30° 30°
bridgelux.		90° 90°
LED	Vesta DTW 9mm (4W/6W/12W)	
FWHM	34.0°	73.
Efficiency	90 %	60°
Peak intensity	1.500 cd/lm	$f \times / f \to X \cap$
LEDs/each optic		
Light colour	White	
Required compor		\times / \times
C16142_HEKL		1
Bender Wirth: 4	190 Typ L8	
		30.
		180 00 180



bridgelux.		90 ⁴ 90 ⁴
LED	Vesta TW 13mm (25W) CSP	
FWHM	48.0°	200
Efficiency	83 %	
Peak intensity	0.980 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 660 45*
Required compor	nents:	
C16142_HEKL		
C14658_BARE	BARA-RZ-LENS	
Bender Wirth:	492 Typ L8	30°
bridgelux.		90*
LED	Vesta TW 9mm (12W) CSP	
FWHM	36.0°	
Efficiency	84 %	
Peak intensity	1.300 cd/lm	60°
LEDs/each optic		
Light colour	White	67° 63°
Required compor	nents:	
C16142_HEKL	A-SOCKET-K	
C14658_BARE	BARA-RZ-LENS	
Bender Wirth:	489 Typ L8	30-
		 15° 0° 15°
0		
CITIZE	N	90 ⁴
	N CLC020 Series (Dim-To-Warm)	20°
		22. 23. 24. 26.
LED	CLC020 Series (Dim-To-Warm) 38.0° 83 %	84 - 00 - 04 25 - 25 - 26 - 29 - 29 -
LED FWHM Efficiency Peak intensity	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/Im	60°
LED FWHM Efficiency Peak intensity LEDs/each optic	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1	60 60 ⁴
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White	97 97 97 97 97 97 97 97 97 97 97 97 97 9
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required comport	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents:	64 64 10 10 10 10 10 10 10 10 10 10
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K	22. 900 60, 23. 52. 52.
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K BARA-RZ-LENS	25. 604 600 604 600 604 604 604 604
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K BARA-RZ-LENS	30, 32, 94, 32, 94, 96,
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K BARA-RZ-LENS 487 Typ L8	Bit Dir Bit 0 Bit 00
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth:	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K BARA-RZ-LENS 487 Typ L8	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth:	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K BARA-RZ-LENS 487 Typ L8 N	22- 22- 22- 22- 22- 22- 22- 22-
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth:	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K BARA-RZ-LENS 487 Typ L8 N CLC020 Series (Dim-To-Warm)	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: CITTIZE LED FWHM Efficiency Peak intensity	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White Pents: A-SOCKET-K BARA-RZ-LENS 487 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White Pents: A-SOCKET-K BARA-RZ-LENS 487 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White nents: A-SOCKET-K 3ARA-RZ-LENS 487 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K 3ARA-RZ-LENS 487 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K 3ARA-RZ-LENS 487 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K BARA-RZ-LENS 487 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K BARA-RZ-LENS	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K BARA-RZ-LENS 487 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° 83 % 1.200 cd/lm 1 White hents: A-SOCKET-K BARA-RZ-LENS	



CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: 4	CLC030 Series (Dim-To-Warm) 53.0° 81 % 0.900 cd/lm 1 White eents: A-SOCKET-K AARA-RZ-LENS	
CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	CLC030 Series (Dim-To-Warm) 49.0° 87 % 1.000 cd/lm 1 White tents:	
CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE	CLU700/701 33.0° 90 % 1.400 cd/lm 1 White thents:	
CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CLU700/701 32.0° 94 % 1.500 cd/lm 1 White tents:	



CITIZE	N	90*
LED	CLU7A2 (LES 4.2mm)	75
FWHM	24.0°	
Efficiency	93 %	60 ⁰
Peak intensity	1.900 cd/lm	
LEDs/each optic Light colour	White	
Required compor		
F15255_HEKL		
110200_112112		1500
		30-
CITIZE	N	25°
LED	LCN-C01B (Tunable White)	
FWHM	38.0°	75*
Efficiency	84 %	
Peak intensity	1.200 cd/lm	60 ⁵ 60
LEDs/each optic		
Light colour	White	er
Required compor	nents:	
C16142_HEKL	A-SOCKET-K	
	BARA-RZ-LENS	
Bender Wirth:	481 Typ L8	36 ⁴ 1230 30 157 0 ⁶ 15 ³
CITIZE	N	94*
LED	LCN-C02B (Tunable White)	
FWHM	48.0°	200
Efficiency	83 %	60°
Peak intensity	0.960 cd/lm	
Peak intensity LEDs/each optic	1	
Peak intensity LEDs/each optic Light colour	1 White	g. 00
Peak intensity LEDs/each optic Light colour Required compor	1 White nents:	a. 000 a
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	1 White nents: A-SOCKET-K	e
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE	1 White nents: A-SOCKET-K BARA-RZ-LENS	90
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	1 White nents: A-SOCKET-K BARA-RZ-LENS	47
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: A	1 White nents: A-SOCKET-K BARA-RZ-LENS 481 Typ L8	20°
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: CITTIZE	1 White nents: A-SOCKET-K BARA-RZ-LENS 481 Typ L8 N LCN-C02B (Tunable White)	47. 600
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: - CITTIZEC. LED FWHM	1 White nents: A-SOCKET-K BARA-RZ-LENS 481 Typ L8 N LCN-C02B (Tunable White) 45.0°	20°
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: - CITTIZE LED FWHM Efficiency	1 White nents: A-SOCKET-K BARA-RZ-LENS 481 Typ L8 N LCN-C02B (Tunable White) 45.0° 88 %	61 00 00 F
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: 4 CITTIZE LED FWHM Efficiency Peak intensity	1 White hents: A-SOCKET-K BARA-RZ-LENS 481 Typ L8 N LCN-C02B (Tunable White) 45.0° 88 % 1.100 cd/lm	
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: 4 CITTIZE LED FWHM Efficiency Peak intensity LEDs/each optic	1 White hents: A-SOCKET-K BARA-RZ-LENS 481 Typ L8 N LCN-C02B (Tunable White) 45.0° 88 % 1.100 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: 4 CITTIZE ED FWHM Efficiency Peak intensity LEDs/each optic Light colour	1 White hents: A-SOCKET-K BARA-RZ-LENS 481 Typ L8 N LCN-C02B (Tunable White) 45.0° 88 % 1.100 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: A CITIZEC LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	1 White nents: A-SOCKET-K BARA-RZ-LENS 481 Typ L8 N LCN-C02B (Tunable White) 45.0° 88 % 1.100 cd/lm 1 White nents:	40 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: 4 CITTIZE ED FWHM Efficiency Peak intensity LEDs/each optic Light colour	1 White nents: A-SOCKET-K BARA-RZ-LENS 481 Typ L8 N LCN-C02B (Tunable White) 45.0° 88 % 1.100 cd/lm 1 White nents:	52* 600
Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: CITIZE ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	1 White nents: A-SOCKET-K BARA-RZ-LENS 481 Typ L8 N LCN-C02B (Tunable White) 45.0° 88 % 1.100 cd/lm 1 White nents:	



CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15256_HEKL	CMA1516 45.0° 93 % 1.100 cd/lm 1 White eents:	20, 12, 150, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15254_HEKL	CMA1825 55.0° 93 % 0.990 cd/lm 1 White eents:	30° 40° 50° 50° 50° 50° 50° 50° 50° 5
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	CMT14xx 45.0° 93 % 1.100 cd/lm 1 White eents:	20° 20° 20° 50° 50° 50° 50° 50° 50° 50° 5
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15956_HEKL	CXA/B 13xx 34.0° 94 % 1.400 cd/lm 1 White tents:	201 00 10 10 10 10 10 10 10 10 10 10 10 1



PHOTOMETRIC DATA (MEASURED):

CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15256_HEKL	CXA/B 15xx 41.0° 93 % 1.200 cd/lm 1 White eents:	30° 00 00 90°
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15256_HEKL	CXA/B 1816 & CXA/B 1820 & CXA 1850 51.0° 94 % 1.100 cd/lm 1 White eents:	
EUMILI LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15848_HEKL	LUXEON CoB 1202HD 32.0° 93 % 1.400 cd/lm 1 White ients:	90
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15858_HEKL	LUXEON CoB 1204HD 44.0° 95 % 1.190 cd/lm 1 White tents:	30, 32, 00, 12, 35, 1, 0, 00, 00, 00, 1, 0, 00, 00, 00, 00, 00, 00, 00, 00, 00

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LUMIL	EDS	90*
LED	LUXEON CoB 1205HD	
FWHM	50.0°	
Efficiency	93 %	50° 50°
Peak intensity	1.060 cd/lm	400-
LEDs/each optic	1	
Light colour	White	45°
Required compor	ents:	
F15858_HEKL	A-SOCKET-H	
		36* 35* 0* 35*
	NUS	30* 99*
LED	CDM-14 (Dim-To-Warm)	
FWHM	51.0°	737
Efficiency	81 %	
Peak intensity	0.910 cd/lm	
LEDs/each optic		
Light colour	White	a, a.
Required compor	ents:	
C16142_HEKL		
C14658_BARE		
Bender Wirth: 4	91 Typ L8	30°
		15° 18% 25°
Ga		
		90°
LED	CDM-14 (Dim-To-Warm)	90 ⁵ 90 ⁴
LED FWHM	CDM-14 (Dim-To-Warm) 46.0°	30 ⁴ 30 ²
LED FWHM Efficiency	CDM-14 (Dim-To-Warm) 46.0° 86 %	50 ⁴ 72 ⁴ 60 ⁴ 60 60 60 60 60 60 ⁴ 60 ⁴ 60 ⁴ 60 ⁴
LED FWHM Efficiency Peak intensity	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/Im	50° 50° 72° 72° 72° 72° 72° 72° 72° 72° 72° 72
LED FWHM Efficiency Peak intensity LEDs/each optic	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1	60 ⁴ 60 ⁴ 90 ⁵ 90 ⁴
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White	d. 90 90, 23, 33, 33, 30, 35, 35,
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents:	5 ¹ 5 ¹ 6 ¹
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K	59* 60* 60* 50* 60* 60*
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K	59° 59° 73° 72° 69° 60° 72° 60° 60° 72°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K	20- 20- 20- 20- 20- 20- 20- 20-
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K 991 Typ L8	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K 991 Typ L8	90 90 90 90 90 90 90 90 90 90 90 90 90 9
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K 91 Typ L8	90 90 90 90 90 90 90 90 90 90 90 90 90 9
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K 91 Typ L8 NUS CDM-6 (Dim-To-Warm)	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4 Ender Wirth: 4 LED FWHM Efficiency Peak intensity	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K 91 Typ L8 NUS CDM-6 (Dim-To-Warm) 33.0° 85 % 1.300 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4 Ender Wirth: 4 LED FWHM Efficiency Peak intensity LEDs/each optic	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K 91 Typ L8 NUS CDM-6 (Dim-To-Warm) 33.0° 85 % 1.300 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4 Ender Wirth: 4 LED FWHM Efficiency Peak intensity	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K 91 Typ L8 NUS CDM-6 (Dim-To-Warm) 33.0° 85 % 1.300 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4 Ender Wirth: 4 LED FWHM Efficiency Peak intensity LEDs/each optic	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K 91 Typ L8 NUS CDM-6 (Dim-To-Warm) 33.0° 85 % 1.300 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K 91 Typ L8 NUS CDM-6 (Dim-To-Warm) 33.0° 85 % 1.300 cd/lm 1 White ents: A-SOCKET-K	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4 Ender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K 191 Typ L8 NUS CDM-6 (Dim-To-Warm) 33.0° 85 % 1.300 cd/lm 1 White ents: A-SOCKET-K A-SOCKET-K A-SOCKET-K ARA-RZ-LENS	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	CDM-14 (Dim-To-Warm) 46.0° 86 % 1.100 cd/lm 1 White ents: A-SOCKET-K 191 Typ L8 NUS CDM-6 (Dim-To-Warm) 33.0° 85 % 1.300 cd/lm 1 White ents: A-SOCKET-K A-SOCKET-K A-SOCKET-K ARA-RZ-LENS	



ELUMI	NUS	90*
LED	CDM-9 (Dim-To-Warm)	
FWHM	40.0°	73*
Efficiency	84 %	
Peak intensity	1.100 cd/lm	$\mathbf{K} \neq \mathbf{A} = \mathbf{M} + \mathbf{M}$
LEDs/each optic	1	
Light colour	White	gr c
Required compor	ents:	800
C16142_HEKL	A-SOCKET-K	
C14658_BARE	ARA-RZ-LENS	
Bender Wirth:	190 Тур L8	36° 1220 36°
ELUMI	NUS	50 ⁴ 90 ⁴
LED	CDM-9 (Dim-To-Warm)	
FWHM	35.0°	
Efficiency	88 %	400
Peak intensity	1.500 cd/lm	
LEDs/each optic	1	
Light colour	White	45 45
Required compor	ents:	
C16142_HEKL	A-SOCKET-K	
Bender Wirth:	190 Typ L8	
		36, 12, 0, 12, 3%
() LUMI	NUS	90° 50°
LED	CTM-9 (Tunable White)	
FWHM	37.0°	73.
Efficiency	84 %	60
Peak intensity	1.200 cd/lm	
LEDs/each optic	1	
Light colour	White	95* 65'
Required compor		
C16142_HEKL		
C14658_BARE		
Bender Wirth:	195 Typ L8	30° 223 0° 35°
an in		
	NUS	90* 90'
LED	NUS CxM-14 (19x19)	
		99 ⁴
LED FWHM Efficiency	CxM-14 (19x19) 51.0° 93 %	
LED FWHM Efficiency Peak intensity	CxM-14 (19x19) 51.0° 93 % 1.000 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic	CxM-14 (19x19) 51.0° 93 % 1.000 cd/lm 1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CxM-14 (19x19) 51.0° 93 % 1.000 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CxM-14 (19x19) 51.0° 93 % 1.000 cd/lm 1 White ents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	CxM-14 (19x19) 51.0° 93 % 1.000 cd/lm 1 White ents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CxM-14 (19x19) 51.0° 93 % 1.000 cd/lm 1 White ents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	CxM-14 (19x19) 51.0° 93 % 1.000 cd/lm 1 White ents:	



Image: Construction Image: Construction LED CXM-4 FWHM 20.0° Efficiency 93.% Peak intensity 1.889.cd/m LEDs/seach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C Image: Components: Peak intensity 1.366.cd/m LEDs/seach optic 1 Light colour White Required components: Peak intensity Presk intensity 1.366.cd/m LEDs/seach optic 1 Light colour White Required components: Peak intensity P15255_HEKLA-SOCKET-C C14668_BARBAR-R2-LENS IEDs/seach optic 1 Light colour White Required components: Peak intensity P15255_HEKLA-SOCKET-C Image: Colour IEDs/seach optic 1 Light colour White Required components: P15255_HEKLA-SOCKET-C IEDs/seach optic 1 Light colour White			
Peak intensity 1.899 cd/m LED seach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C ED CXM-4 FWHM 31.0° Efficiency 88 % Peak intensity 1.366 cd/m LEDsecach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS Efficiency 94 % Peak intensity 1.200 cd/m LEDsecach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C Efficiency 94 % Peak intensity 1.200 cd/m LEDsecach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C Efficiency 81 % Peak intensity 1.300 cd/m LEDsecach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C Efficiency 81 % F000000000000000000000000000000000000	LED FWHM	CXM-4 20.0°	90 ⁴ 95 ⁵
Light colour White Required components: F15255_HEKLA-SOCKET-C EID CXM44 FWHM 31.0° Efficiency 88 % Peak intensity 1.366 colim LEDs/seach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-R2_LENS EID CXM-9 (13.5x13.5) FWHM 43.0° EIFficiency 94 % Peak intensity 1.300 colim LEDs/seach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C EIFficiency 94 % Peak intensity 1.300 colim LEDs/seach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C EIFficiency 94 % Peak intensity 1.300 colim LEDs/seach optic 1 Light colour White Required components: F1525_HEKLA-SOCKET-C	Peak intensity	1.869 cd/lm	6)*
Required components: F15255_HEKLA-SOCKET-C FileD CXM-4 FWHM 31.0° Efficiency 88% Peak intensity 1.386 cd/m LED CXM-9 (13.5x13.5) FWHM 43.0° Efficiency 94% Peak intensity 1.200 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-R2-LENS FIDED NJCWL0242-V1MT: COB L-Type Tunable White FWHM 34.0° Efficiency 81% Peak intensity 1.300 cd/m LED NJCWL0242-V1MT: COB L-Type Tunable White FWHM 34.0° Efficiency 81% Peak intensity 1.300 cd/m LEDS/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C			43° 43°
LED CXM-4 FWHM 31.0° Efficiency 88 % Peak intensity 1.366 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS	Required compon	ents:	
FWHM 31.0° Efficiency 88 % Peak intensity 1.366 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS FWHM 43.0° Efficiency 94 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C FWICHIN LED NJCWL024Z-V1MT: COB L-Type Tunable White FWHM 34.0° Efficiency 81 % Peak intensity 1.300 cd/lm LED NJCWL024Z-V1MT: COB L-Type Tunable White FWHM 34.0° Efficiency 81 % Peak intensity 1.300 cd/lm LED NJCWL024Z-V1MT: COB L-Type Tunable White FWHM 34.0° Efficiency 81 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C14656_BARBARA-RZ-LENS		NUS	50°
Efficiency 88 % Peak intensity 1.300 cd/m LED5 (reach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS	LED	CXM-4	
Peak intensity 1.366 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS	FWHM	31.0°	75
LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS	Efficiency	88 %	400 - 400 - 60°
Light colour White Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-R2-LENS	Peak intensity	1.366 cd/lm	
Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS	LEDs/each optic	1	
F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS	Light colour	White	43 ⁴ 43 ⁴
C14658_BARBARA-RZ-LENS			
Image: Construction of the second			
LED CxM-9 (13.5x13.5) FWHM 43.0° Efficiency 94 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C FIS255_HEKLA-SOCKET-C FICHIN LED NJCWL024Z-V1MT: COB L-Type Tunable White FWHM 34.0° Efficiency 81 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C16458_BARBARA-RZ-LENS	C14658_BARB	ARA-RZ-LENS	12200
LED CxM-9 (13.5x13.5) FWHM 43.0° Efficiency 94 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C NJCWL024Z-V1MT: COB L-Type Tunable White FWHM 34.0° Efficiency 81 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS			30 ⁶ 15 ⁹ 0 ⁶ 35 ⁶
FWHM 43.0° Efficiency 94 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C Image: Source of the source of th		NUS	50° 50°
Efficiency 94 % Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	LED	CxM-9 (13.5x13.5)	
Peak intensity 1.200 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	FWHM	43.0°	
LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C		94 %	50 ⁶ 400 50 ⁴
Light colour White Required components: F15255_HEKLA-SOCKET-C			
Required components: F15255_HEKLA-SOCKET-C			
F15255_HEKLA-SOCKET-C	-		6°. 6.
LED NJCWL024Z-V1MT: COB L-Type Tunable White FWHM 34.0° Efficiency 81 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS			30° 120 0° 12°
FWHM 34.0° Efficiency 81 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS	Ø NICHIΛ		50° 50°
FWHM 34.0° Efficiency 81 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS	A	NJCWL024Z-V1MT: COB L-Type Tunable White	
Efficiency 81 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS			X8. X8.
Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS			60 ⁵ 400
LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS			
Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS	LEDs/each optic		
C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS			47 ¹ 800
C14658_BARBARA-RZ-LENS			
			1200
Bender Wirth: 497 Typ L8	Bender Wirth: 4	.97 Typ L8	30°
	Required compon C16142_HEKL	ents: A-SOCKET-K	

PRODUCT DATASHEET



		
ØNICHIA		90° 90°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth:	NJCWL024Z-V1MT: COB L-Type Tunable White 29.0° 87 % 1.600 cd/lm 1 White nents: A-SOCKET-K	27 27 64 64 550 570 570 570 570 570 570 570
Dender With		30° 30° 33°
ØNICHIA		90* 90*
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	NVCWJ024Z-V1MT: COB J-Type Tunable White 43.0° 84 % 1.100 cd/lm 1 White hents: A-SOCKET-K GARA-RZ-LENS	21 By
ØNICHIA		
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 4	NVCWJ024Z-V1MT: COB J-Type Tunable White 39.0° 90 % 1.300 cd/lm 1 White hents: A-SOCKET-K 498 Typ L8	20 20 20 20 20 20 20 20 20 20
PHILIP	S	90* 90*
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15858_HEKL	Fortimo SLM L09 CoB 45.0° 88 % 1.080 cd/lm 1 White nents:	7. 6. 6. 90 90 90 90 90 90 90 90 90 90

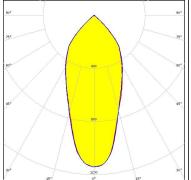


PHOTOMETRIC DATA (MEASURED):

PHILIPS

LEDFortimo SLM L09 CoBFWHM45.0°Efficiency94 %Peak intensity1.140 cd/lmLEDs/each optic1Light colourWhiteRequired components:F15858_HEKLA-SOCKET-H





PHILIPS

LED Fortimo SLM L13 CoB FWHM 51.0° Efficiency 90 % Peak intensity 1.000 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 432 Typ L8



PHILIPS

 LED
 Fortimo SLM L13 CoB

 FWHM
 53.0°

 Efficiency
 84 %

 Peak intensity
 0.920 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C16142_HEKLA-SOCKET-K

 C14658_BARBARA-RZ-LENS
 Bender Wirth: 432 Typ L8



SAMSUNG

LEDCOB D Series LES 9.8 mmFWHM43.0°Efficiency94 %Peak intensity1.200 cd/lmLEDs/each optic1Light colourWhiteRequired components:F15255_HEKLA-SOCKET-C



PHOTOMETRIC DATA (MEASURED):

SAMSU	ING	90*
LED	COB D Series LES 9.8 mm	
FWHM	44.0°	
Efficiency	88 %	605
Peak intensity	1.090 cd/lm	
LEDs/each optic	1	
Light colour	White	65° 4
Required compor		
F15255_HEKL	A-SOCKET-C	
C14658_BARE	ARA-RZ-LENS	
		304 355 1950 355
SAMSU	ING	95 ⁴
LED	LC010C G2	
FWHM	31.0°	
Efficiency	92 %	
Peak intensity	1.500 cd/lm	
LEDs/each optic	1	
Light colour	White	97
Required compor	ients:	
F15255_HEKL		_ 1250
		30* 1000 3
СЛЛАСИ		15 ⁵ 0 ⁶ 15 ⁵
SAMSU		90*
LED	LC010T (Tunable White)	75*
FWHM	40.0°	
Efficiency	85 %	60 ⁴
Efficiency Peak intensity	85 % 1.140 cd/lm	61 - 60 - 1
Efficiency Peak intensity LEDs/each optic	85 % 1.140 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	85 % 1.140 cd/lm 1 Tunable White	61 ⁴
Efficiency Peak intensity LEDs/each optic Light colour Required compor	85 % 1.140 cd/lm 1 Tunable White tents:	gr 00
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	85 % 1.140 cd/lm 1 Tunable White tents: A-SOCKET-K	g., 600
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE	85 % 1.140 cd/lm 1 Tunable White eents: A-SOCKET-K ARA-RZ-LENS	g* 00
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: {	85 % 1.140 cd/lm 1 Tunable White eents: A-SOCKET-K ARA-RZ-LENS 501 Typ L8	25° 60° 6
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: 5	85 % 1.140 cd/lm 1 Tunable White eents: A-SOCKET-K ARA-RZ-LENS 501 Typ L8	94 ⁻ 99 ⁻ 900 9
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: S	85 % 1.140 cd/lm 1 Tunable White eents: A-SOCKET-K ARA-RZ-LENS 501 Typ L8	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE	85 % 1.140 cd/lm 1 Tunable White tents: A-SOCKET-K ARA-RZ-LENS 501 Typ L8	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: S	85 % 1.140 cd/lm 1 Tunable White tents: A-SOCKET-K ARA-RZ-LENS 501 Typ L8 ING LC010T (Tunable White)	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: 4 SAMSU LED FWHM Efficiency Peak intensity	85 % 1.140 cd/lm 1 Tunable White eents: A-SOCKET-K ARA-RZ-LENS 501 Typ L8 ING LC010T (Tunable White) 37.0° 90 % 1.358 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: 4 SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic	85 % 1.140 cd/lm 1 Tunable White tents: A-SOCKET-K ARA-RZ-LENS 501 Typ L8 NG LC010T (Tunable White) 37.0° 90 % 1.358 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: S SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	85 % 1.140 cd/lm 1 Tunable White tents: A-SOCKET-K ARA-RZ-LENS 501 Typ L8 NG LC010T (Tunable White) 37.0° 90 % 1.358 cd/lm 1 Tunable White	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: S SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	85 % 1.140 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS 501 Typ L8 NG LC010T (Tunable White) 37.0° 90 % 1.358 cd/lm 1 Tunable White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: \$ SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	85 % 1.140 cd/lm 1 Tunable White tents: A-SOCKET-K ARA-RZ-LENS 501 Typ L8 ING LC010T (Tunable White) 37.0° 90 % 1.358 cd/lm 1 Tunable White tents: A-SOCKET-K	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: S SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	85 % 1.140 cd/lm 1 Tunable White tents: A-SOCKET-K ARA-RZ-LENS 501 Typ L8 ING LC010T (Tunable White) 37.0° 90 % 1.358 cd/lm 1 Tunable White tents: A-SOCKET-K	
Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL C14658_BARE Bender Wirth: S SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	85 % 1.140 cd/lm 1 Tunable White tents: A-SOCKET-K ARA-RZ-LENS 501 Typ L8 ING LC010T (Tunable White) 37.0° 90 % 1.358 cd/lm 1 Tunable White tents: A-SOCKET-K	

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SAMSU	NG	90° 90°
LED	LC020C G2	
FWHM	38.0°	7
Efficiency	93 %	400
Peak intensity	1.323 cd/lm	60°
LEDs/each optic		
	White	
Light colour		
Required compor		
F15859_HEKL	4-30CKE1-1	
		36° 30° 30°
SAMSU	NG	50° 50°
LED		
	LC020T (Tunable white)	75. 75.
FWHM	53.0°	
Efficiency	83 %	90° × 10°
Peak intensity	0.903 cd/lm	
LEDs/each optic		
Light colour	Tunable White	
Required compor		
C16142_HEKL		
C14658_BARE		
Bender Wirth: 8	501 Тур L8	30° 31°
		15 15
SAMSI	NG	90° 90°
SAMSU		90°
LED	LC020T (Tunable white)	
LED FWHM	LC020T (Tunable white) 48.0°	
LED FWHM Efficiency	LC020T (Tunable white) 48.0° 89 %	
LED FWHM Efficiency Peak intensity	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents: A-SOCKET-K	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents: A-SOCKET-K	25 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents: A-SOCKET-K	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: {	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents: A-SOCKET-K	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: {	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents: A-SOCKET-K 501 Typ L8	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: {	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents: A-SOCKET-K 501 Typ L8 MJT COB LES 6	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: {	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White eents: A-SOCKET-K 501 Typ L8 MJT COB LES 6 32.0°	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: { SEOUL SEMICONDUCTOR LED FWHM Efficiency	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White eents: A-SOCKET-K 501 Typ L8 MJT COB LES 6 32.0° 93 %	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: { SEOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White ents: A-SOCKET-K 501 Typ L8 MJT COB LES 6 32.0° 93 % 1.500 cd/lm	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: { SEOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents: A-SOCKET-K 501 Typ L8 MJT COB LES 6 32.0° 93 % 1.500 cd/lm 1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: { Storu SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents: A-SOCKET-K 501 Typ L8 MJT COB LES 6 32.0° 93 % 1.500 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 5 SEOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents: A-SOCKET-K 501 Typ L8 MJT COB LES 6 32.0° 93 % 1.500 cd/lm 1 White tents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: { SEOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents: A-SOCKET-K 501 Typ L8 MJT COB LES 6 32.0° 93 % 1.500 cd/lm 1 White tents:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 5 SEOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents: A-SOCKET-K 501 Typ L8 MJT COB LES 6 32.0° 93 % 1.500 cd/lm 1 White tents:	25
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16142_HEKL Bender Wirth: 5 SEOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LC020T (Tunable white) 48.0° 89 % 1.080 cd/lm 1 Tunable White tents: A-SOCKET-K 501 Typ L8 MJT COB LES 6 32.0° 93 % 1.500 cd/lm 1 White tents:	25



seout semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	White nents:	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE	SLE G7 LES09 41.0° 91 % 1.200 cd/lm 1 White nents:	27 00 10 10 10 10 10 10 10 10 10 10 10 10
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	SLE G7 LES09 40.0° 94 % 1.200 cd/lm 1 White nents:	30 ⁴ 30 ⁴ 40 ⁴ 50
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	SLE G7 LES13 51.0° 93 % 1.036 cd/lm 1 White nents:	

PRODUCT DATASHEET



PHOTOMETRIC DATA (MEASURED):

TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL C14658_BARE	SLE G7 LES13 53.0° 86 % 0.933 cd/lm 1 White vents: A-SOCKET-I	25 <u>100</u> 26 <u>00</u> 27 <u>00</u> 20 <u>00</u> 27 <u>00</u> 27 <u>00</u> 29 <u>00</u> 20
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL C14658_BARE	SLE G7 LES13 53.0° 86 % 0.900 cd/lm 1 White eents:	200
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	SLE G7 LES13 52.0° 93 % 1.000 cd/lm 1 White nents:	
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15859_HEKL	SLE G7 LES15 55.0° 93 % 1.000 cd/lm 1 White nents:	

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XICATC			-	90°
LED	XOB 14.5 mm			
FWHM	55.0°			$\sim \lambda$ / λ /
Efficiency	94 %			
Peak intensity	0.985 cd/lm			400
LEDs/each optic				
Light colour	White			
Required compor				
F15859_HEKL	A-SOCKET-I			
				36 ⁶
XICATC		1000		90*
LED	XOB 6 mm			
FWHM	27.0°			75
Efficiency	93 %			
Peak intensity	1.554 cd/lm			
LEDs/each optic				
Light colour	White			95*
Required compor	nents:			
F15255_HEKL	A-SOCKET-C			
				30° 1650 15° 0° 15°
XICATC)			90*
				90°
LED	XOB 6 mm	1		99 ⁴
LED FWHM				99°
LED FWHM Efficiency	XOB 6 mm 34.0°			99°
LED FWHM	XOB 6 mm 34.0° 87 % 1.281 cd/lm			99°
LED FWHM Efficiency Peak intensity	XOB 6 mm 34.0° 87 % 1.281 cd/lm			5°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White nents:			99 ⁴ 99 ⁴ 90 ⁴ 90 ⁴ 90 ⁴
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White hents: A-SOCKET-C			5° 5° 5° 60
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White nents:			99° 95° 96° 96° 96° 96° 96°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White hents: A-SOCKET-C			5°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White hents: A-SOCKET-C BARA-RZ-LENS			
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White hents: A-SOCKET-C BARA-RZ-LENS			99°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White hents: A-SOCKET-C BARA-RZ-LENS			594 594 594 594 594 594 594 594
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE XICATC LED FWHM	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White hents: A-SOCKET-C BARA-RZ-LENS XOB 9.8 mm 44.0°			
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE XICATC LED FWHM Efficiency	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White hents: A-SOCKET-C BARA-RZ-LENS XOB 9.8 mm 44.0° 89 %			
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE XICATC LED FWHM Efficiency Peak intensity	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White nents: A-SOCKET-C BARA-RZ-LENS XOB 9.8 mm 44.0° 89 % 1.087 cd/lm			
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE XICATC LED FWHM Efficiency Peak intensity LEDs/each optic	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White nents: A-SOCKET-C BARA-RZ-LENS XOB 9.8 mm 44.0° 89 % 1.087 cd/lm			gr 99' 99' 120 120 120 120 120 120 120 120
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE XICATC LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White hents: A-SOCKET-C BARA-RZ-LENS XOB 9.8 mm 44.0° 89 % 1.087 cd/lm 1 White			
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE XICATC LED FWHM Efficiency Peak intensity LEDs/each optic	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White hents: A-SOCKET-C 3ARA-RZ-LENS XOB 9.8 mm 44.0° 89 % 1.087 cd/lm 1 White hents:			594 594 594 594 594 594 594 594
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE XICATC LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White hents: A-SOCKET-C 3ARA-RZ-LENS XOB 9.8 mm 44.0° 89 % 1.087 cd/lm 1 White hents:			994 994 994 995 997 997 997 997 997 997 997
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL C14658_BARE XICATC LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F15255_HEKL	XOB 6 mm 34.0° 87 % 1.281 cd/lm 1 White hents: A-SOCKET-C 3ARA-RZ-LENS XOB 9.8 mm 44.0° 89 % 1.087 cd/lm 1 White hents: A-SOCKET-C			

PRODUCT DATASHEET



LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compo F15255_HEKL	XOB 9.8 mm 40.0° 94 % 1.224 cd/lm 1 White hents:	94 [*] 900 90 97 [*] 900 90 98 [*] 900 90 99 [*] 900 90 90 [*] 900 900 90 90 [*] 900 900 900 900 900 900 900 900 900 90
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compo C15743_XTM-	XTM - 19mm LES 62.0° 91 % 0.870 cd/lm 1 White	20° - 200 - 20 20° - 200 - 20 20° - 200 - 20 20° - 20
XICATC LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compo C15743_XTM	XTM - 9mm LES 41.0° 94 % 1.200 cd/lm 1 White	



PHOTOMETRIC DATA (SIMULATED):

bridgelux

LED V13 Gen6 FWHM 44.0° Efficiency 91 % Peak intensity 1.339 cd/lm LEDs/each optic 1 Light colour White Required components: F14988_HEKLA-SOCKET-E

bridgelux.

 LED
 V8 Gen6

 FWHM
 42.5°

 Efficiency
 %

 Peak intensity
 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 F15253_HEKLA-SOCKET-A

bridgelux

 LED
 V8 Gen6

 FWHM
 42.5°

 Efficiency
 0 %

 Peak intensity
 0.000 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 F15253_HEKLA-SOCKET-A

CITIZEN

 LED
 CLL02x/CLU02x (LES10)

 FWHM
 45.0°

 Efficiency
 0 %

 Peak intensity
 0.000 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 F15255_HEKLA-SOCKET-C



PHOTOMETRIC DATA (SIMULATED):

CITIZEN LED CLL02x/CLU02x (LES10) FWHM 43.0° Efficiency 92 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C **CITIZEN** LED CLL03x/CLU03x FWHM 47.0° 92 % Efficiency Peak intensity 1.220 cd/lm LEDs/each optic 1 White Light colour Required components: F15859_HEKLA-SOCKET-I CREE 🚖 LED CXA/B 1816 & CXA/B 1820 & CXA 1850 FWHM 46.0° Efficiency % Peak intensity cd/lm LEDs/each optic 1 Light colour White Required components: F15254_HEKLA-SOCKET-B CREE 🚖 LED CXA/B 1816 & CXA/B 1820 & CXA 1850 FWHM 46.0° Efficiency 0 % 0.000 cd/lm Peak intensity LEDs/each optic 1 White Light colour Required components: F15254_HEKLA-SOCKET-B

PRODUCT DATASHEET



PHOTOMETRIC DATA (SIMULATED):

ΜΝΙCΗΙΛ

LED COB L-Type (LES 11) FWHM 48.0° Efficiency 93 % Peak intensity 1.203 cd/lm LEDs/each optic 1 Light colour White Required components: F15858_HEKLA-SOCKET-H

ΜΝΙCΗΙΛ

LED	COB L-Type (LES 9)
FWHM	46.0°
Efficiency	93 %
Peak intensity	1.278 cd/lm
LEDs/each optic	1
Light colour	White
Required compor	nents:
F15858 HEKL	A-SOCKET-H

ØNICHIA		90* 90*
LED	СОВ Т-Туре	
FWHM	42.0°	75°
Efficiency	90 %	60°
Peak intensity	1.420 cd/lm	$\Gamma \times / / \wedge \times \uparrow$
LEDs/each optic 1		
Light colour W	nite	45°
Required component	S:	
F15848_HEKLA-S	OCKET-G	1230
		30. 34.
OSRAM		12 4 12
Opto Semiconductors		90* 90*
LED	Soleriq S13 19x19	
FWHM	43.8°	\uparrow \land \uparrow \uparrow
Efficiency	93 %	400 60°
Peak intensity	1.340 cd/lm	$[\times / / \times]$
LEDs/each optic 1		
3	nite	45° 45°
Required component		
F15859_HEKLA-S	OCKET-I	
		1220
		20° 20° 20°

PRODUCT DATASHEET



PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors

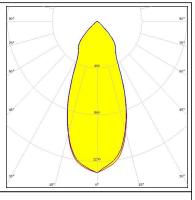
LED Soleriq S9 FWHM 44.3° Efficiency 93 % Peak intensity 1.300 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C

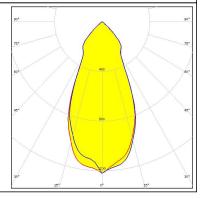
SAMSUNG

LED COB D Series LES 14.5 mm FWHM 49.5° Efficiency 88 % Peak intensity 1.070 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I

XICATO

LED XTM - 9mm LES FWHM 48.0° Efficiency 93 % Peak intensity 1.220 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.

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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