

PRODUCT DATASHEET F14739_BROOKE-G2-M

BROOKE-G2-M

 ${\sim}30^\circ$ medium beam compatible with LEDiL HEKLA.

SPECIFICATION:

Dimensions	Ø 45.0 mm
Height	18.9 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIALS:

Component	Туре	Material	Colour	Finish	Coating
BROOKE-G2-M	Reflector	PC	metal		HMDS

ORDERING INFORMATION:

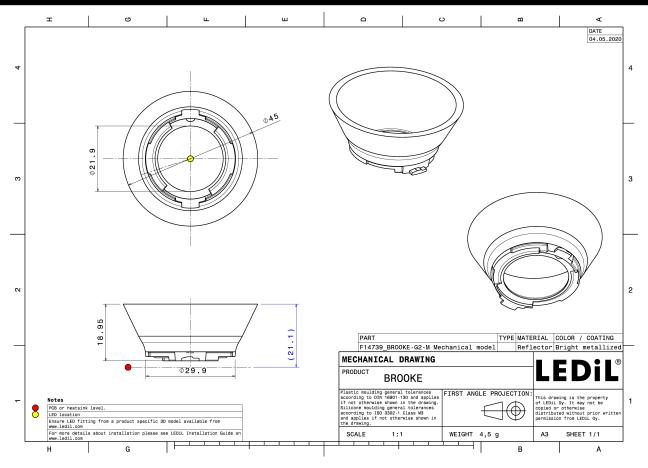
Component

- F14739_BROOKE-G2-M
- » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
720	45	45	5.0



PRODUCT DATASHEET F14739_BROOKE-G2-M



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



ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C14658_BARBA	-SOCKET-A	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARBA	-SOCKET-C	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C14658_BARBA	-SOCKET-I	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15616_HEKLA		



bridgelux.			90*	
LED	VERO13		75*	$\lambda \land \land \downarrow $
FWHM / FWTM	34.0° / 87.0°			400
Efficiency	90 %		608	
Peak intensity	1.6 cd/lm	100 100 100		
LEDs/each optic	1			
Light colour	White		95*	de la constante
Required compone				1230
C16142_HEKLA	-SOCKET-K			
			300	15° 0° 35°
bridgelux.			90¢	
LED	VERO18	1	30	
FWHM / FWTM	50.0° / 93.0°			
Efficiency	89 %		60.8	
Peak intensity	1.1 cd/lm			400
LEDs/each optic	1			///
Light colour	White		424	
Required compone	nts:			800
C16142_HEKLA	-SOCKET-K			
			30.	159 00 154 30
bridgelux.			904	
bridgelux. LED	Vesta DTW 13mm (21W)		90*	
	Vesta DTW 13mm (21W) 38.0° / 88.0°		90 Y	
LED			90° 73°	400
LED FWHM / FWTM	38.0° / 88.0°		994 725 805	400
LED FWHM / FWTM Efficiency	38.0° / 88.0° 90 %		904 732 794	
LED FWHM / FWTM Efficiency Peak intensity	38.0° / 88.0° 90 % 1.4 cd/lm		904 954 954	400 800 800
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts:		904 75 105 105	400 - 600 - 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts:		904 32 914	400 K 800 K 910 K
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K		90°	400 - 500 - 1229
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K		30 25 25 25 25 25 25	229 et 22
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K		994 75 75 75 75 75 75 75 75 75	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K 21 Typ L8		904 904 904 904 904 904	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K 91 Typ L8 Vesta DTW 13mm (21W)		90 ⁴ 90 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49 bridgeLUX. LED FWHM / FWTM	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K 31 Typ L8 Vesta DTW 13mm (21W) 41.0° / 91.0°		944 954 954 954 954 954 954 954	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgeLux. LED FWHM / FWTM Efficiency	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K 31 Typ L8 Vesta DTW 13mm (21W) 41.0° / 91.0° 84 %		94 	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S bridgeLUX. LED FWHM / FWTM Efficiency Peak intensity	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K 31 Typ L8 Vesta DTW 13mm (21W) 41.0° / 91.0°		94 75 75 95 95 95 95 95	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgeLux. LED FWHM / FWTM Efficiency	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K 21 Typ L8 Vesta DTW 13mm (21W) 41.0° / 91.0° 84 % 1.2 cd/lm		94 95 95 95 95 95 95 95 95 95 95 95 95 95	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K 21 Typ L8 Vesta DTW 13mm (21W) 41.0° / 91.0° 84 % 1.2 cd/lm 1 Tunable White		32 32 32 32 32 32 32 32 32 32 32 32 32 3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgetux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K 21 Typ L8 Vesta DTW 13mm (21W) 41.0° / 91.0° 84 % 1.2 cd/lm 1 Tunable White nts:		94 95 95 95 95 95 95 95	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K 21 Typ L8 Vesta DTW 13mm (21W) 41.0° / 91.0° 84 % 1.2 cd/lm 1 Tunable White nts: -SOCKET-K		94 95 95 95 95 95 95 95	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	38.0° / 88.0° 90 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K 21 Typ L8 Vesta DTW 13mm (21W) 41.0° / 91.0° 84 % 1.2 cd/lm 1 Tunable White nts: -SOCKET-K RA-RZ-LENS			



bridgelux.		50 ⁴
LED	Vesta DTW 15mm (33W)	
FWHM / FWTM	40.0° / 89.0°	
Efficiency	84 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	e ⁻
Required componer	nts:	
C16142_HEKLA	SOCKET-K	
C14658_BARBA	RA-RZ-LENS	
Bender Wirth: 49	1 Typ L8	20 ⁴ 22 ⁴ 0 ⁴ 22 ⁴ 20
bridgelux.		94 ⁴
LED	Vesta DTW 15mm (33W)	
FWHM / FWTM	41.0° / 90.0°	
Efficiency	90 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	gr 000 gr
Required componer		
C16142_HEKLA		
Bender Wirth: 49		1200
		200 Q ² 120 ⁴ 120 ⁴
bridgelux.		90 ⁴ 90
bridgelux. LED	Vesta DTW 9mm (4W/6W/12W)	
	Vesta DTW 9mm (4W/6W/12W) 31.0° / 88.0°	39 ⁴
LED		
LED FWHM / FWTM	31.0° / 88.0°	
LED FWHM / FWTM Efficiency	31.0° / 88.0° 86 %	
LED FWHM / FWTM Efficiency Peak intensity	31.0° / 88.0° 86 % 1.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	31.0° / 88.0° 86 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	31.0° / 88.0° 86 % 1.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	31.0° / 88.0° 86 % 1.5 cd/lm 1 White nts: SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	31.0° / 88.0° 86 % 1.5 cd/lm 1 White tts: SOCKET-K RA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA	31.0° / 88.0° 86 % 1.5 cd/lm 1 White tts: SOCKET-K RA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 49	31.0° / 88.0° 86 % 1.5 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 0 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 49	31.0° / 88.0° 86 % 1.5 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 0 Typ L8 Vesta TW 13mm (25W) CSP	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 49 bridgetux. LED FWHM / FWTM	31.0° / 88.0° 86 % 1.5 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 0 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 49 bridgeLUX. LED FWHM / FWTM Efficiency	31.0° / 88.0° 86 % 1.5 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 0 Typ L8 Vesta TW 13mm (25W) CSP 36.0° / 87.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 49 bridgetux. LED FWHM / FWTM	31.0° / 88.0° 86 % 1.5 cd/lm 1 White tts: SOCKET-K RA-RZ-LENS 0 Typ L8 Vesta TW 13mm (25W) CSP 36.0° / 87.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 49 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	31.0° / 88.0° 86 % 1.5 cd/m 1 White hts: SOCKET-K RA-RZ-LENS 0 Typ L8 Vesta TW 13mm (25W) CSP 36.0° / 87.0° 84 % 1.4 cd/m	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 49 bridgelux. LED FWHM / FWTM Efficiency Peak intensity	31.0° / 88.0° 86 % 1.5 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 0 Typ L8 Vesta TW 13mm (25W) CSP 36.0° / 87.0° 84 % 1.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 49 bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	31.0° / 88.0° 86 % 1.5 cd/lm 1 White tts: SOCKET-K RA-RZ-LENS 0 Typ L8 Vesta TW 13mm (25W) CSP 36.0° / 87.0° 84 % 1.4 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 49 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	31.0° / 88.0° 86 % 1.5 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 0 Typ L8 Vesta TW 13mm (25W) CSP 36.0° / 87.0° 84 % 1.4 cd/lm 1 White hts: SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 49 bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	31.0° / 88.0° 86 % 1.5 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 0 Typ L8 Vesta TW 13mm (25W) CSP 36.0° / 87.0° 84 % 1.4 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS	



bridgelux.		95*	90°
LED	Vesta TW 6mm DP		
FWHM / FWTM	22.0° / 82.0°	73	
Efficiency	89 %	60°	- 800
Peak intensity	2.5 cd/lm		
LEDs/each optic	1		
Light colour	White	g	1600
Required componer	nts:		
C16142_HEKLA	SOCKET-K		
Bender Wirth: 50	4 Typ L8		3120
		30- 25-	0° 25°
bridgelux.		99*	30*
LED	Vesta TW 6mm DP	75*	
FWHM / FWTM	27.0° / 86.0°		400
Efficiency	85 %	601	
Peak intensity	1.8 cd/lm		
LEDs/each optic	1		
Light colour	White	gr.	1200
Required componer	nts:		
C16142_HEKLA	SOCKET-K		
C14658_BARBA	RA-RZ-LENS		1630
Bender Wirth: 50	4 Typ L8	30* 32	34.0
\frown			1
bridgelux.		50*	90*
bridgelux. LED	Vesta TW 9mm (12W) CSP	994	90*
	Vesta TW 9mm (12W) CSP 27.0° / 84.0°	99 ⁴ 2017	90 ⁴
LED		90 ⁴ 73 80 ¹	9' 9'
LED FWHM / FWTM	27.0° / 84.0°	63 33 36 34	94 97 97
LED FWHM / FWTM Efficiency	27.0° / 84.0° 91 %	62. 23. 39.	97 - 50 - 50
LED FWHM / FWTM Efficiency Peak intensity	27.0° / 84.0° 91 % 2 cd/lm	dr 67 22 32 33	99 99 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	27.0° / 84.0° 91 % 2 cd/lm 1 White	dt 27. 27. 27. 27. 27.	99 - 99 - 99 - 99 - 99 - 99 - 99 - 99 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 84.0° 91 % 2 cd/lm 1 White nts:	91 91	90 - 50 - 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	27.0° / 84.0° 91 % 2 cd/lm 1 White hts: SOCKET-K	gr 95	90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	27.0° / 84.0° 91 % 2 cd/lm 1 White hts: SOCKET-K	34 34 34 37 37 37 37 37 37	6, 72, 25, 25, 25, 25, 25, 25, 25, 25, 25, 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	27.0° / 84.0° 91 % 2 cd/lm 1 White hts: SOCKET-K		99 90 90 90 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 49	27.0° / 84.0° 91 % 2 cd/lm 1 White hts: SOCKET-K		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 49	27.0° / 84.0° 91 % 2 cd/lm 1 White hts: SOCKET-K 0 Typ L8	97 97 97 97 97 97 97 97	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 49	27.0° / 84.0° 91 % 2 cd/lm 1 White hts: SOCKET-K 0 Typ L8 Vesta TW 9mm (12W) CSP		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 49 bridgetux. LED FWHM / FWTM	27.0° / 84.0° 91 % 2 cd/lm 1 White hts: SOCKET-K 0 Typ L8 Vesta TW 9mm (12W) CSP 30.0° / 86.0°		The second secon
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 49	27.0° / 84.0° 91 % 2 cd/lm 1 White tts: SOCKET-K 0 Typ L8 Vesta TW 9mm (12W) CSP 30.0° / 86.0° 85 %		A
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 49 bridgetux, LED FWHM / FWTM Efficiency Peak intensity	27.0° / 84.0° 91 % 2 cd/lm 1 White hts: SOCKET-K 0 Typ L8 Vesta TW 9mm (12W) CSP 30.0° / 86.0° 85 % 1.6 cd/lm		A
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 49 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	27.0° / 84.0° 91 % 2 cd/lm 1 White hts: SOCKET-K 0 Typ L8 Vesta TW 9mm (12W) CSP 30.0° / 86.0° 85 % 1.6 cd/lm 1 White		400 - 07 00 - 07
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 49 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 84.0° 91 % 2 cd/lm 1 White hts: SOCKET-K 0 Typ L8 Vesta TW 9mm (12W) CSP 30.0° / 86.0° 85 % 1.6 cd/lm 1 White hts:		- 40 - 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 49 bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	27.0° / 84.0° 91 % 2 cd/lm 1 White nts: SOCKET-K 0 Typ L8 Vesta TW 9mm (12W) CSP 30.0° / 86.0° 85 % 1.6 cd/lm 1 White nts: SOCKET-K		400 - 07 00 - 07
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 49 bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	27.0° / 84.0° 91 % 2 cd/lm 1 White nts: SOCKET-K 0 Typ L8 Vesta TW 9mm (12W) CSP 30.0° / 86.0° 85 % 1.6 cd/lm 1 White nts: SOCKET-K RA-RZ-LENS		46 60 80 80 87



CITIZE	Ν	504 5
LED	CLC020 Series (Dim-To-Warm)	
FWHM / FWTM	31.0° / 86.0°	77
Efficiency	84 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	g. d
Required compone	nts:	
C16142_HEKLA	-SOCKET-K	
C14658_BARBA	RA-RZ-LENS	
Bender Wirth: 48	37 Typ L8	30 ¹⁴ 25 ¹ 0 ¹ 15 ¹
CITIZE	N	90 ⁴
LED	CLC030 Series (Dim-To-Warm)	
FWHM / FWTM	41.0° / 90.0°	
Efficiency	82 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	ar a
Required compone		
C16142_HEKLA		
C14658_BARBA		
Bender Wirth: 43		
		125 Oc 155
CITIZE	N	3 2*
	N CLC030 Series (Dim-To-Warm) 38.0° / 88.0°	90 ⁴
LED	CLC030 Series (Dim-To-Warm)	30 ¹ 37 40
LED FWHM / FWTM	CLC030 Series (Dim-To-Warm) 38.0° / 88.0°	90+ 70 60 60
LED FWHM / FWTM Efficiency	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 %	90 ⁴ 70 67 67
LED FWHM / FWTM Efficiency Peak intensity	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts:	901 72 60 67 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts:	99 ¹ 72 61 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts: -SOCKET-K N CLU700/701/702/703	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA CI6142_HEKLA	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts: -SOCKET-K N CLU700/701/702/703 26.0° / 85.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA CITIZE LED FWHM / FWTM Efficiency	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts: -SOCKET-K N CLU700/701/702/703 26.0° / 85.0° 91 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA CITIZE LED FWHM / FWTM Efficiency Peak intensity	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts: -SOCKET-K N CLU700/701/702/703 26.0° / 85.0° 91 % 2.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts: -SOCKET-K N CLU700/701/702/703 26.0° / 85.0° 91 % 2.1 cd/lm 1 White nts: -SOCKET-C	900 gr 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLC030 Series (Dim-To-Warm) 38.0° / 88.0° 88 % 1.4 cd/lm 1 White nts: -SOCKET-K N CLU700/701/702/703 26.0° / 85.0° 91 % 2.1 cd/lm 1 White nts: -SOCKET-C	900 gr 000



CITIZE	N	90*
LED	CLU700/701/702/703	
FWHM / FWTM	23.0° / 84.0°	
Efficiency	94 %	
Peak intensity	2.6 cd/lm	
LEDs/each optic	1	
Light colour	White	gr 3000
Required compone		
F15255_HEKLA		
_		200
		25% 0 ⁴ 15%
CITIZE	Ν	59*
LED	CLU7A2/7A3	
FWHM / FWTM	16.0° / 68.0°	
Efficiency	94 %	
Peak intensity	3.2 cd/lm	
LEDs/each optic	1	
Light colour	White	g+ at
Required compone	ents:	
F15255_HEKLA	-SOCKET-C	
		30-
		125 ⁴ q ⁴ 125
CITIZE	N	50*
LED	LCN-C01B (Tunable White)	
FWHM / FWTM	29.0° / 85.0°	
Efficiency	86 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
C14658_BARBA	ARA-RZ-LENS	100
Bender Wirth: 4	81 Typ L8	
СІТІ7Е	N	
CITIZE		90°
LED	LCN-C02B (Tunable White)	37
FWHM / FWTM	36.0° / 87.0°	
Efficiency	90 %	692
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	9
Light colour	White	
Required compone		
C16142_HEKLA	A-SUCKET-K	
		30" 30" 30"
		(



CITIZE	N	354 359
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 48	LCN-C02B (Tunable White) 39.0° / 89.0° 84 % 1.1 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA	CMA1516 29.0° / 90.0° 94 % 1.8 cd/lm 1 White nts:	
CREE LEC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15254_HEKLA	CMA1825 36.0° / 92.0° 94 % 1.4 cd/lm 1 White nts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CMT14xx 29.0° / 90.0° 94 % 1.8 cd/lm 1 White nts:	



	D	994
LED	CXA/B 13xx	
FWHM / FWTM	25.0° / 88.0°	
Efficiency	94 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	<i>σ</i> .
Required compone	ents:	
F15956_HEKLA	A-SOCKET-J	
		30 ⁴ 200 10 ⁷ e ³ 10 ⁵
	D	E) ⁴
LED	CXA/B 15xx	
FWHM / FWTM	32.0° / 90.0°	73
Efficiency	94 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	g.
Required compone	ents:	- 120
F15256_HEKLA		
		100
		30
C LUMIL	.EDS	90 ⁴
		9×
LED	LUXEON CX Plus CoB L08 (Gen2)	27
LED FWHM / FWTM	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0°	25
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 %	51 25 26 40
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0°	60 ⁴ 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm	81. 100 101
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White	97 97 97 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compose	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS 37a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS 37a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS 37a Hekla LUXEON CX Plus CoB L08 (Gen2)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 40.0° / 92.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 40.0° / 92.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 40.0° / 92.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6 WIM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 40.0° / 92.0° 92 % 1.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6 WIM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS 37a Hekla EDS LUXEON CX Plus CoB L08 (Gen2) 40.0° / 92.0° 92 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6 WIM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 40.0° / 92.0° 92 % 1.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6 C14658_BARB/ Bender Wirth: 6 C14658_BARB/ C14658_BAR	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 40.0° / 92.0° 92 % 1.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6 C14658_BARB/ Bender Wirth: 6 C14658_BARB/ C14658_BAR	LUXEON CX Plus CoB L08 (Gen2) 41.0° / 91.0° 84 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 40.0° / 92.0° 92 % 1.3 cd/lm 1 White ents:	



🥙 LUMIL	EDS	80*	90*
LED	LUXEON CoB 1202HD		
FWHM / FWTM	22.0° / 87.0°	78	25
Efficiency	95 %		
Peak intensity	2.4 cd/lm		
LEDs/each optic	1		
Light colour	White	97	45°
Required compone			1600
F15848_HEKLA			
		26-	
	EDC		00 350
UMIL	EDS	99*	90*
LED	LUXEON CoB 1204HD	75	
FWHM / FWTM	28.0° / 89.0°		
Efficiency	96 %	μ ^τ	60*
Peak intensity	1.9 cd/lm		
LEDs/each optic	1		
Light colour	White		43*
Required compone			
F15858_HEKLA	-SOCKET-H		1600
		\times	
		¥*	2000 30°
	EDS	30*	90*
LED	LUXEON CoB 1205HD		\land
LED FWHM / FWTM	LUXEON CoB 1205HD	73*	
FWHM / FWTM	33.0° / 90.0°	75	- 400
FWHM / FWTM Efficiency	33.0° / 90.0° 94 %	757	60
FWHM / FWTM Efficiency Peak intensity	33.0° / 90.0°	25	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	33.0° / 90.0° 94 % 1.6 cd/lm	52	-00 -00 -00 -00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	33.0° / 90.0° 94 % 1.6 cd/lm 1 White	93 93	00 - 00 - 00 - 00 - 00 - 00 - 00 - 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts:	59 57	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts:	57 57	520 60 60 67 67
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts:		- 60 - 60 - 67 - 67 - 67 - 67 - 67 - 67 - 67 - 67
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts: -SOCKET-H		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts: -SOCKET-H		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CoB 1208		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CoB 1208 41.0° / 90.0°		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CoB 1208 41.0° / 90.0° 92 %		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CoB 1208 41.0° / 90.0° 92 % 1.3 cd/lm		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CoB 1208 41.0° / 90.0° 92 % 1.3 cd/lm 1		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CoB 1208 41.0° / 90.0° 92 % 1.3 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA WIM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CoB 1208 41.0° / 90.0° 92 % 1.3 cd/lm 1 White nts:		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CoB 1208 41.0° / 90.0° 92 % 1.3 cd/lm 1 White nts:		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA WIM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	33.0° / 90.0° 94 % 1.6 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CoB 1208 41.0° / 90.0° 92 % 1.3 cd/lm 1 White nts:		



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	EDS	50* 30*
LED	LUXEON CX Plus CoB - HD S04H9	
FWHM / FWTM	29.0° / 87.0°	75°
Efficiency	86 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	gr et
Required compone	nts:	1200
C14658_BARBA	RA-RZ-LENS	
Bender Wirth: 6	34c Hekla	
		36- 15% 0° 15°
	EDS	50* 50°
LED	LUXEON CX Plus CoB - HD S04H9	
FWHM / FWTM	26.0° / 88.0°	400
Efficiency	93 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	57 57 57
Required compone	nts:	
Bender Wirth: 6	34c Hekla	1500
		30° 2000 34°
	EDS	90* 90*
LED	LUXEON CX Plus CoB L04 / L05 (Gen2)	
FWHM / FWTM	34.0° / 89.0°	
Efficiency	85 %	400
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	43 ¹ 63 ⁰
Required compone	nts:	
C14658_BARBA	RA-RZ-LENS	1200
Bender Wirth: 6	37a Hekla	
		36° 36° 36°
	EDS	30 ⁴
LED	LUXEON CX Plus CoB L04 / L05 (Gen2)	75 75
FWHM / FWTM	33.0° / 89.0°	400
Efficiency	92 %	60° 60°
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	a,
Required compone		2200
Bender Wirth: 6	37a Hekla	
		34



MUMIL 🌕	EDS	50* 50*
LED	LUXEON CX Plus CoB M02 / M03 (Gen2)	
FWHM / FWTM	25.0° / 86.0°	73-
Efficiency	92 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr de la companya de
Required compone	nts:	
Bender Wirth: 64	11a Hekla	
	FDS	25° 0° 13°
	LUXEON CX Plus CoB M02 / M03 (Gen2)	77
FWHM / FWTM Efficiency	27.0° / 86.0° 86 %	
-	86 % 1.7 cd/lm	60 ¹ 60 ⁴
Peak intensity		
LEDs/each optic	1	
Light colour	White	
Required compone		
C14658_BARBA		
Bender Wirth: 64		200
		304 205 05 205
UMIL	EDS	30, 30,
	EDS LUXEON CX Plus CoB S01 (Gen2)	
		90 ⁴ 90 ⁵
LED	LUXEON CX Plus CoB S01 (Gen2)	
LED FWHM / FWTM	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0°	99° 90° 72° 69° 000 68°
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 %	99 ⁴ 99 ⁵ 27 99 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts:	99° 95° 75° 75° 000 96° 91° 000 96°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: IRA-RZ-LENS	99° 95° 75° 75° 000 96° 97° 000 96° 97° 000 96°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: IRA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: RA-RZ-LENS 84c Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: IRA-RZ-LENS 34c Hekla	94 95 95 95 95 95 95 95 95 95 95 95 95 95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: IRA-RZ-LENS 84c Hekla EDS LUXEON CX Plus CoB S01 (Gen2)	26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: IRA-RZ-LENS 34c Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: RA-RZ-LENS 84c Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 17.0° / 83.0° 93 %	94 95 95 95 95 95 95 95 95 95 95 95 95 95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: RA-RZ-LENS 84c Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 17.0° / 83.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: RA-RZ-LENS B4c Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 17.0° / 83.0° 93 % 2.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: RA-RZ-LENS 34c Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 17.0° / 83.0° 93 % 2.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 63 CLUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: RA-RZ-LENS 34c Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 17.0° / 83.0° 93 % 2.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63 C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: RA-RZ-LENS 34c Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 17.0° / 83.0° 93 % 2.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 63 COMPUTE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB S01 (Gen2) 22.0° / 84.0° 86 % 2.1 cd/lm 1 White nts: RA-RZ-LENS 34c Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 17.0° / 83.0° 93 % 2.9 cd/lm 1 White nts:	



Ce		
	INUS	90 ⁴ 30 ⁴
LED	CDM-14 (Dim-To-Warm)	75
FWHM / FWTM	36.0° / 87.0°	
Efficiency	87 %	60× 60×
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	9° (***
Required compone		
C16142_HEKLA		
Bender Wirth: 49	91 Тур L8	30° 100 10
	INUS	20 ¹ 20 ⁴ 20 ⁴
LED	CDM-14 (Dim-To-Warm)	
FWHM / FWTM	38.0° / 89.0°	
Efficiency	82 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	at at
Required compone	ints:	
C16142_HEKLA	-SOCKET-K	
C14658_BARBA	ARA-RZ-LENS	
Bender Wirth: 49	91 Typ L8	344 220
6-		
	INUS	*0e
LED	CDM-6 (Dim-To-Warm)	
LED FWHM / FWTM	CDM-6 (Dim-To-Warm) 26.0° / 84.0°	
LED FWHM / FWTM Efficiency	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 %	
LED FWHM / FWTM Efficiency Peak intensity	CDM-6 (Dim-To-Warm) 26.0° / 84.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White white -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White white -SOCKET-K ARA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White Ints: INSOCKET-K ARA-RZ-LENS 20 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 45	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White white white white white Whit	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 45	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White Ints: INSOCKET-K ARA-RZ-LENS 20 Typ L8	250 550 94 ⁶ 25 [°] 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 45	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White Ints: -SOCKET-K ARA-RZ-LENS 30 Typ L8 INUS CDM-9 (Dim-To-Warm)	250 550 94 ⁶ 25 [°] 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 45	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White Ints: -SOCKET-K ARA-RZ-LENS 20 Typ L8 INUS CDM-9 (Dim-To-Warm) 30.0° / 86.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 45 Ender Wirth: 45 ENDER LED FWHM / FWTM Efficiency	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White mts: -SOCKET-K ARA-RZ-LENS 20 Typ L8 INUS CDM-9 (Dim-To-Warm) 30.0° / 86.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 45 C14658_BARBA Bender Wirth: 45 Efficiency Peak intensity LEDs/each optic	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White white white white MA-RZ-LENS 20 Typ L8 CDM-9 (Dim-To-Warm) 30.0° / 86.0° 84 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 49 Efficiency Peak intensity	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White white white COKET-K ARA-RZ-LENS 90 Typ L8 CDM-9 (Dim-To-Warm) 30.0° / 86.0° 84 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 45 Efficiency Peak intensity LEDs/each optic Light colour	CDM-6 (Dim-To-Warm) 26.0° / 84.0° 85 % 2 cd/lm 1 White white white SOCKET-K ARA-RZ-LENS 30 Typ L8 INUS CDM-9 (Dim-To-Warm) 30.0° / 86.0° 84 % 1.6 cd/lm 1 White white statesting Multiple	
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LED CDM-140/EVTM 28.0° 44.0° Ellowing 89 % Peak Intensity 2.2 cd/m LED weak pipe 1 Lipt colour White Required components: C1614.2, HELA-SOCKET-K Bender With: 490 Typ L3	FWHM /FVTM 28.0° / 84.0° Efficiency 89% Peak intensity 2.2 dd/m LED&each optic 1 LIph colour White Reguied components: C16142_HEKLA-SOCKET-K Bender With: 49 Typ L3			
LED CDA-14 (Dom-To-Warm) PWH/h / FWTM 28.07 / 94.07 Emolency 89 % Peak Intensity 2.2 cd/m LEDS/each optic 1 Lipt colour White Required components: C11142_HEXLA-SOCKET-K Bender Wirt: 480 Typ L8 C11142_HEXLA-SOCKET-K Bender Wirt: 480 Typ L8 C11142_HEXLA-SOCKET-K C11468_BARBARA-R2LENS Bender Wirt: 485 Typ L8 C11142_HEXLA-SOCKET-K C11468_BARBARA-R2LENS Bender Wirt: 485 Typ L8 C11142_HEXLA-SOCKET-K C11468_BARBARA-R2LENS Bender Wirt: 485 Typ L8 C11142_HEXLA-SOCKET-K C11468_BARBARA-R2LENS Bender Wirt: 485 Typ L8 C11142_HEXLA-SOCKET-K C11468_BARBARA-R2LENS Bender Wirt: 495 Typ L8 C11142_HEXLA-SOCKET-K C1142_HEXLA-SOCKET-K C1142_HEXLA-SOCKET-K C1142_HEXLA-SOCKET-K C1142_HEXLA-SOCKET-K C1142_HEXLA-SOCKET-K C1142_HEXLA-SOCKET-K C1142_HEXLA-SOCKET-K C1142_HEXLA-SOCKET-K C1142_HEXLA-SOCKET-K C1142_HEXLA-SOCKET-K C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-SOCKET-I C1142_HEXLA-	LED CDM-0(Dm-To-Warm) PVMH / FWTM 28.07 / 84.07 Eliciancy 29.% Peak itenaity 2.2 cd/m LeD each of 21 Liph colour White Required components: C16142, HEKLASSOCKET K Bender Wint: 480 T/p LB ED CTM-9 (Tunable White) PVMH / FVTM 30.07 / 80.02 Eliciancy 08.5 % Peak itenaity 1.7 cd/m LED CTM-9 (Tunable White) PVMH / FVTM 30.07 / 80.02 Eliciancy 08.5 % Peak itenaity 1.7 cd/m LED CAM-44 (19819) PVMH / 4.07 / 91.07 Eliciancy 08.5 % Peak itenaity 1.4 cd/m LED CAM-44 (19819) PVMH / 4.07 / 91.07 Eliciancy 08.5 % Peak itenaity 1.4 cd/m LED CAM-44 (19819) PVMH / 4.07 / 91.07 Eliciancy 08.5 % Peak itenaity 1.4 cd/m LED CAM-44 (19819) PVMH / FVTM 40.07 / 91.07 Eliciancy 08.5 % Peak itenaity 1.4 cd/m LED CAM-44 (19819) PVMH / FVTM 10.07 / 74.07 ELD CAM-4 PVMH / FV		NUS	50° 50°
PWHM / PWTM 28 0 / 94.07 Efficiency 89 % Peak Intensity 2 2 cd/m LEDS/each optic 1 LEDS/each optic 1 LEDS/each optic 1 LEDS/each optic 1 LEDS/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Ender White ASO Typ LB	FivMent/FVTM 28.0 / 18.4 ar Elifonopo 99.9 % Pesk intensity 2.2 cd/m LEDSeach pgite 1 Letterson LEDSeach pgite 1 Letterson LED CTM-42 / HEXL-SOCKET-K Bender Writh: 480 Typ L8 Image: Components: CTG142_HEXL-SOCKET-K Emoder Writh: 480 Typ L8 ELD CTM-9 (fundatio Write) PVMMIN VST 3.0 / 3.6 ar Bender Writh: 480 Typ L8 Image: Components: CTG142_HEXL-SOCKET-K Components: CTG142_HEXL-SOCKET-K Components: CTG142_HEXL-SOCKET-K Components: CTG142_HEXL-SOCKET-K Components: F16000/ GAM-14 (15x19) PVMMIN / Writh: 485 Typ L8 Image: Components: ELD CAM-14 (15x19) PVMMIN / Writh: 480 Typ L3 Image: Components: F15669_HEXL-SOCKET-1 Image: Components: F16600/ GAM-14 (15x19) PVMMIN / Writh: 480 Typ L3 Image: Components: F16600/ GAM-14 (15x19) PVMMIN / Writh Gamma /			
Peak Intensity 2.2 od/m LEDWaveh optic 1 LEDWaveh optic 1 LEDWa	Peak intensity 2.2 colim LEDs/seach optic 1 LEDs/seach optic 2 C16142_FEKLASOCKET-K Bender Wirh: 490 Typ L8	FWHM / FWTM		8. 2.
LEDsleach optic 1 Light clour White Required components: C16142_HEKLA-SOCKET-K Bender Wirkt: 490 Typ L8	LEDekach optic 1 Light colour While Required components: C15142_HEKLASOCKET-K Bender Wint: 490 Typ L8	Efficiency	89 %	
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Light colour White Required components: C16142_HEKLASOCKET-K Bender Wirth: 490 Typ L8	Light color White Required components: CTIF42_HERLA_SOCKET-K Bender With: 490 Typ L3 CTIF42_HERLA_SOCKET-K ELD CTM-9 (Tunable White) FWHM /FWTM 30.0° / 86.0° ERGiency 36.% Peak intensity 1.7 cd/m LED is down White Required components: CTIF42_HERLA_SOCKET-I ED CMM-4 (1919) FWHM /FWTM 30.0° / 91.0° ERGiency 94 % Peak intensity 1.4 cd/m LED is CMM-4 ED	-	1	
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Bender With: 490 Typ L3	Bender Wirh: 480 Typ L3	-	nts:	
Bender With: 490 Typ L3	Bender Wirh: 480 Typ L3	C16142_HEKLA	-SOCKET-K	200
Image: Contract Sector Sect	Image: Construction of the construc			
LED CTM-9 (Tunable White) FWHM /FVTTM 30.0° / 86.0° Enclidency 85 % Peak intensity 1.7 cd/m LEDS/each optic 1 Light colour White Required components: C161452_HEKLA-SOCKET+K C14658_BARBARA-R2-LENS Bender Wint: 495 Typ L8	LED CTM-9 (Tunable White) FWHM / FWTM 30.07 / 86.0° Efficiency 85 % Peak intensity 1.7 cd/m LED/sech optic 1 LED/sech optic 1 LED/se			3 ²
LED CTM-9 (Tunable White) FWHM /FVTTM 30.0° / 86.0° Enclidency 85 % Peak intensity 1.7 cd/m LEDS/each optic 1 Light colour White Required components: C161452_HEKLA-SOCKET+K C14658_BARBARA-R2-LENS Bender Wint: 495 Typ L8	LED CTM-9 (Tunable White) FWHM / FWTM 30.07 / 86.0° Efficiency 85 % Peak intensity 1.7 cd/m LED/sech optic 1 LED/sech optic 1 LED/se		INUS	59' 58'
FWHM / FWTM 30.0° / 86.0° Efficiency 85 % Peak intensity 1.7 col/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 495 Typ L3	FWHM /FWTM 90.0° /86.0° Efficiency 85 % Peak intensity 1.7. cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C14685_BARBARA-RA-ZLENS Bender With: 495 Typ L8 Efficiency 94 % Peak intensity 1.4. cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I ED CXM-4 FWHM /FWTM 1907 /74.0° Efficiency 33 % Peak intensity 2.9 cd/m LED CXM-4 FWHM /FWTM 1907 /74.0° Efficiency 33 % Peak intensity 2.9 cd/m LED CXM-4 FWHM FWTM 1907 /74.0° Efficiency 33 % Peak intensity 2.9 cd/m LED / CXM-4 FWHM FWTM 1907 /74.0° Efficiency 33 % Peak intensity 2.9 cd/m LED / CXM-4 FWHM FWTM 1907 /74.0° Efficiency 33 % Peak intensity 2.9 cd/m LED / CXM-4 FWHM FWTM 1907 /74.0° Efficiency 33 % Peak intensity 2.9 cd/m LED / CXM-4 FWHM FWTM 1907 /74.0° Efficiency 33 % Peak intensity 2.9 cd/m LED / CXM-4 FWHM FWTM 1907 /74.0° Efficiency 33 % Peak intensity 2.9 cd/m LED/FWTM FWTM 1907 /74.0° Efficiency 35 % FIS255_HEKLA-SOCKET-C	~		
Efficiency 85 % Peak intensity 1.7 col/m LED / each optic 1 Light colour White Required components: C 16142_HEKLA-SOCKET-K C 16142_HEKLA-SOCKET-K C 16142_HEKLA-SOCKET-K C 16142_HEKLA-SOCKET-K C 16142_HEKLA-SOCKET-K C 16142_HEKLA-SOCKET-K C 16142_HEKLA-SOCKET-K C 16142_HEKLA-SOCKET-K ELD C CM-14 (19x19) FWHM / FWTM 40.0° / 91.0° Efficiency 94 % Peak intensity 1.4 col/m LED / each optic 1 Light colour White Required components: F 15859_HEKLA-SOCKET-1 EFICIENCY LED C CM-4 FWHM / FWTM 19.0° / 74.0° Efficiency 93 % Peak intensity 2.9 col/m LED / each optic 1 Light colour White Required components: F 15859_HEKLA-SOCKET-1	Efficiency 85% Peak intensity 1.7 cd/m LEDs (each optic 1 Light colour White Required components: C16142_PERLA-SOCKET-K C14658_BARBARA-R2LENS Bender Wirth: 495 Typ L8			8
Peak intensity 1.7 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C16468_BARBARA-RA-RZ-LENS Bender Wirk: 495 Typ L8	Peak intensity 1.7 cd/m LEDs/ach optic 1 LEDs/ach optic 1 C16142_HEXLA-SOCKET-K C14658_BARBARA-R2-LENS Bender With: 495 Typ LB			
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Required components: C16142_HEKLA-SOCKET-K C1638_BARBARA-RZ-LENS Bender Wirth: 495 Typ L8	Required components: C1612_HEKLA-SOCKET-K C14658_BARBARARZ-LENS Bender Wirth: 495 Typ L3			an ar
C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 495 Typ L8	C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 495 Typ L8 Image: Luminus Image: Luminus LED CxM-14 (19x19) FWHM / FWTM 40.0° / 91.0° Efficiency 94 % Peak intensity 1.4 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I FUMM / FWTM 19.0° / 74.0° Efficiency 93 % Peak intensity 2.9 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-I F15255_HEKLA-SOCKET-C Image: Components			1220
C14658_BARBARA-RZ-LENS Bender Wirth: 495 Typ L8	C14659_BARBARA-RZ-LENS Bender Wirth: 495 Typ L8			
Bender Wirth: 495 Typ L8	Bender Wirth: 495 Typ L8 ED CxM-14 (19x19) FWHM / FWTM 40.0° / 91.0° Efficiency 94 % Peak intensity 1.4 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I FWHM / FWTM 19.0° / 74.0° Efficiency 93 % Peak intensity 2.9 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C			
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Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1	Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I LED CXM-4 FWHM / FWTM 19.0° / 74.0° Efficiency 93 % Peak intensity 2.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	LED	CxM-14 (19x19)	
Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I	Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I LED CXM-4 FWHM / FWTM 19.0° / 74.0° Efficiency 93 % Peak intensity 2.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	FWHM / FWTM	40.0° / 91.0°	
LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEKLA-SOCKET-I F15959_HEK	LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I LED CXM-4 FWHM / FWTM 19.0° / 74.0° Efficiency 93 % Peak intensity 2.9 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	Efficiency	94 %	60
Light colour White Required components: F15859_HEKLA-SOCKET-I F15859_HEKLA-SOCKET-I F15859_HEKLA-SOCKET-I F15859_HEKLA-SOCKET-I FUNINUS LED CXM-4 FWHM / FWTM 19.0° / 74.0° Efficiency 93 % Peak intensity 2.9 cd/lm LEDs/each optic 1 Light colour White Required components:	Light colour White Required components: F15859_HEKLA-SOCKET-I	Peak intensity	1.4 cd/lm	
Required components: F15859_HEKLA-SOCKET-I	Required components: F15859_HEKLA-SOCKET-I FUHM / FWTM 19.0° / 74.0° Efficiency 93 % Peak intensity 2.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	LEDs/each optic	1	
F15859_HEKLA-SOCKET-I	F15859_HEKLA-SOCKET-I	Light colour	White	a, a
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Light colour White Required components:	Light colour White Required components: F15255_HEKLA-SOCKET-C			
Required components:	Required components: F15255_HEKLA-SOCKET-C			50
	F15255_HEKLA-SOCKET-C			
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LED	CXM-4	and the second se	
FWHM / FWTM	24.0° / 85.0°		75*
Efficiency	89 %		
Peak intensity	2.1 cd/lm		60°
LEDs/each optic	1		
Light colour	White		9°
Required compone			$X \land X$
F15255_HEKLA			1630
C14658_BARBA			
			30° 30° 30°
	NUS		90° 90°
LED	CxM-9 (13.5x13.5)		
FWHM / FWTM	32.0° / 90.0°		73° 75°
Efficiency	94 %		
Peak intensity	1.7 cd/lm		
LEDs/each optic	1		- 000
Light colour	White		95* 45*
Required compone	nts:		1230
F15255_HEKLA			
_			
			15° 0° 15°
ØNICHI			90* 90*
			99 ⁴ 99 ⁴
	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0°		34. 25.
LED	NJCWL024Z-V1MT: COB L-Type Tunable White		30° 30°
LED FWHM / FWTM	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0°		64 00 64
LED FWHM / FWTM Efficiency Peak intensity	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 %		59° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm		81. 10. 10. 10. 10. 10. 10. 10. 1
LED FWHM / FWTM Efficiency Peak intensity	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White		90° 90° 97° 90° 98° 90° 98° 90° 98° 98° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/Im 1 White nts:		5° 50° 5° 50° 5° 6° 5° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K		gr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K		30° 20' 30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K 07 Typ L8		90° 90° 30° 90° 40° 90° 40° 40° 90° 40° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K 97 Typ L8		Na. Na 12.0 0,0 22.0 10,0 23.0 10,0 26.0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K 07 Typ L8		22. 23. 24. 25. 26. 20. 20. 20. 20. 20. 20. 20. 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49 MICHIM LED FWHM / FWTM	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K 07 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 26.0° / 84.0°		32. 90 92. 36. 92. 92. 36. 92. 92. 36. 92. 92. 36. 92. 92. 36. 92. 92. 36. 92. 92. 36. 92. 92. 36. 92. 92.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 MICHIM LED FWHM / FWTM Efficiency	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K 77 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 26.0° / 84.0° 81 %		73'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S MICHIA LED FWHM / FWTM Efficiency Peak intensity	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K 77 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 26.0° / 84.0° 81 % 1.8 cd/lm		73'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K 77 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 26.0° / 84.0° 81 % 1.8 cd/lm 1		73'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K 77 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 26.0° / 84.0° 81 % 1.8 cd/lm 1 White		8. 64 90 90 97 97 97 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K 77 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 26.0° / 84.0° 81 % 1.8 cd/lm 1 White		73'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K 07 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 26.0° / 84.0° 81 % 1.8 cd/lm 1 White nts:		gr gr gr gr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49 MICHIA Bender Wirth: 49 Efficiency Peak intensity LEDs/each optic Light colour Required compone	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K 77 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 26.0° / 84.0° 81 % 1.8 cd/lm 1 White nts: -SOCKET-K		8. 64 90 90 97 97 97 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 ONICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	NJCWL024Z-V1MT: COB L-Type Tunable White 24.0° / 82.0° 86 % 2.3 cd/lm 1 White nts: -SOCKET-K 77 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 26.0° / 84.0° 81 % 1.8 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS		gr gr 60 - 123 - 123



<i>⊘</i> NICHI∕	L		90* 90*
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White		
FWHM / FWTM	43.0° / 92.0°		75°
Efficiency	84 %		
Peak intensity	1.1 cd/lm		400 - 400
LEDs/each optic	1		
Light colour	White		43*
Required compone	ents:		
C16142_HEKLA			
C14658_BARBA			
Bender Wirth: 4	98 Typ L8		30° 35° 35°
ØNICHI/	N Contraction of the second seco		90* 90 ⁴
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White		
FWHM / FWTM	30.0° / 84.0°		25°
Efficiency	90 %		
Peak intensity	1.8 cd/lm		
LEDs/each optic	1		
Light colour	White		53. 53.
Required compone	ents:		
C16142_HEKLA			
Bender Wirth: 4			1600
			159 2000 159
PHILIF	DS		90* 90*
LED	Fortimo SLM L09 CoB	and the second se	
FWHM / FWTM	28.0° / 89.0°		75'
Efficiency	%		
Peak intensity	1.8 cd/lm		90°
LEDs/each optic	1		
Light colour	White		ga
Required compone			
F15858_HEKLA			
_			1600
			15° 35°
PHILIF	PS		50° 50°
LED	Fortimo SLM L09 CoB		75
FWHM / FWTM	30.0° / 89.0°		400
Efficiency	88 %		60.
Peak intensity	1.6 cd/lm		
LEDs/each optic	1		
Light colour	White		45* 43*
Required compone	ents:		1230
F15858_HEKLA	A-SOCKET-H		
C14658_BARBA	ARA-RZ-LENS		
			364 36.
1			15° 0° 15°



PHILIPS

 LED
 Fortimo SLM L13 CoB

 FWHM / FWTM
 36.0° / 89.0°

 Efficiency
 89 %

 Peak intensity
 1.4 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 / FWTM	39.0° / 90.0°
Efficiency	84 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White
Required componen	its:
C16142_HEKLA-SOCKET-K	
C14658_BARBA	RA-RZ-LENS
Bender Wirth: 432	2 Typ L8



SAMSUNG

 LED
 LC003D/LC

 FWHM/FWTM
 28.0°/87.0°

 Efficiency
 94 %

 Peak intensity
 2 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components
 F15255_HEKLA-SOCKET-C

LC003D / LC006D / LC009D / LC013D 28.0° / 87.0° 94 % 2 cd/lm 1 White ts:

SAMSUNG

 LED
 LC003D / I

 FWHM / FWTM
 28.0° / 87.0

 Efficiency
 94 %

 Peak intensity
 2 cd/lm

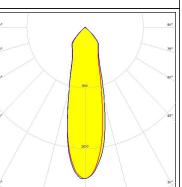
 LEDs/each optic
 1

 Light colour
 White

 Required components
 F15255_HEKLA-SOCKET-C

LC003D / LC006D / LC009D / LC013D 28.0° / 87.0° 94 % 2 cd/lm 1 White ts: SOCKET-C







0			
SAMSU	JNG		90°
LED	LC010C G2		
FWHM / FWTM	23.0° / 86.0°		75
Efficiency	93 %		60 ⁸
Peak intensity	2.4 cd/lm		
LEDs/each optic	1		
Light colour	White		5× /
Required compone	nts:		
F15255_HEKLA	-SOCKET-C		
			30"
SAMSI	ING		50*
LED	LC010T (Tunable White)		
EED FWHM / FWTM	27.0° / 84.0°		78*
Efficiency	90 %		
Peak intensity	2.1 cd/lm		60 ⁵
LEDs/each optic	1		
Light colour	Tunable White		gr /
Required compone			
C16142_HEKLA			1600
Bender Wirth: 50			
	51 T)p 20		
			15° 0° 15°
SAMSU	JNG		90*
			80
LED	LC010T (Tunable White) 30.0° / 85.0°		90 ¹
	LC010T (Tunable White)		201 201
LED FWHM / FWTM	LC010T (Tunable White) 30.0° / 85.0°		94 72 60
LED FWHM / FWTM Efficiency	LC010T (Tunable White) 30.0° / 85.0° 86 %		91 72 61 60
LED FWHM / FWTM Efficiency Peak intensity	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm		5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White		94 77 60 94 94
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White ints:		91 91 92 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White ints: -SOCKET-K		91 77 60 97 97 128
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White Ints: INSOCKET-K ARA-RZ-LENS		24 25 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White Ints: INSOCKET-K ARA-RZ-LENS 01 Typ L8		50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White Ints: INSOCKET-K ARA-RZ-LENS D1 Typ L8		90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White Ints: INSOCKET-K ARA-RZ-LENS D1 Typ L8 ING LC020C G2		22 24 25 26 27 26 27 26 27 26 27 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SAMSU LED FWHM / FWTM	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White Ints: ASOCKET-K ARA-RZ-LENS D1 Typ L8 JNG LC020C G2 31.0° / 88.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SANSU LED FWHM / FWTM Efficiency	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White I SOCKET-K ARA-RZ-LENS D1 Typ L8 ING LC020C G2 31.0° / 88.0° 94 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SAMSU LED FWHM / FWTM Efficiency Peak intensity	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White Ints: ASOCKET-K ARA-RZ-LENS D1 Typ L8 JNG LC020C G2 31.0° / 88.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White ints: A-SOCKET-K ARA-RZ-LENS D1 Typ L8 JNG LC020C G2 31.0° / 88.0° 94 % 1.8 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White ints: -SOCKET-K ARA-RZ-LENS D1 Typ L8 JNG LC020C G2 31.0° / 88.0° 94 % 1.8 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White ints: A-SOCKET-K ARA-RZ-LENS D1 Typ L8 JNGC LC020C G2 31.0° / 88.0° 94 % 1.8 cd/lm 1 White ints:		77 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White ints: A-SOCKET-K ARA-RZ-LENS D1 Typ L8 JNGC LC020C G2 31.0° / 88.0° 94 % 1.8 cd/lm 1 White ints:		77 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 30.0° / 85.0° 86 % 1.7 cd/lm 1 Tunable White ints: A-SOCKET-K ARA-RZ-LENS D1 Typ L8 JNGC LC020C G2 31.0° / 88.0° 94 % 1.8 cd/lm 1 White ints:		71 61 90 97 - 129



	JNG	89*
	LC020T (Tunable white) 38.0° / 86.0°	
FWHM / FWTM	38.0° / 86.0° 85 %	
Efficiency Peak intensity		6 ¹
	1.3 cd/lm	
LEDs/each optic	1 Turachia Milita	
Light colour	Tunable White	
Required compone		
C16142_HEKLA C14658_BARBA		
Bender Wirth: 50		39*
รกพรเ		
LED	LC020T (Tunable white)	31
FWHM / FWTM	36.0° / 87.0°	
Efficiency	90 %	eg.
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	gr
Required compone		
C16142_HEKLA		
Bender Wirth: 50	01 Тур L8	
		90° 5000 150° 6° 150°
SEOUL SEMICONDUCTOR		30*
LED	MJT COB LES 6	
FWHM / FWTM	20.0° / 82.0°	
Efficiency	93 %	60 ⁵
Efficiency	93 % 2.7 cd/lm	
Efficiency Peak intensity		
	2.7 cd/lm	91
Efficiency Peak intensity LEDs/each optic	2.7 cd/lm 1 White	e .
Efficiency Peak intensity LEDs/each optic Light colour	2.7 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	2.7 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	2.7 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	2.7 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	2.7 cd/lm 1 White ents: A-SOCKET-C	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	2.7 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	2.7 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8 31.0° / 89.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SEQUESTION SEMICONDUCTOR LED FWHM / FWTM Efficiency	2.7 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8 31.0° / 89.0° 93 %	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SEQUESTION SEQ	2.7 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8 31.0° / 89.0° 93 % 1.8 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	2.7 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8 31.0° / 89.0° 93 % 1.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	2.7 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8 31.0° / 89.0° 93 % 1.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	2.7 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8 31.0° / 89.0° 93 % 1.8 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	2.7 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8 31.0° / 89.0° 93 % 1.8 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	2.7 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8 31.0° / 89.0° 93 % 1.8 cd/lm 1 White ents:	



TDIDO		
TRIDO		90 ¹ 90 ²
LED	SLE G7 LES09	87
FWHM / FWTM	31.0° / 89.0°	
Efficiency	94 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15255_HEKLA	A-SOCKET-C	200
		30° 300 30°
TRIDO	VIC	90'
LED	SLE G7 LES09	
FWHM / FWTM	30.0° / 87.0°	
Efficiency	91 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15255_HEKLA		
C14658_BARB		
		0° 35'
TRIDO	VIC	50*
LED	SLE G7 LES13	
FWHM / FWTM	38.0° / 91.0°	
Efficiency	93 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
F15859_HEKLA	A-SOCKET-I	
TRIDO		10 V
	SLE G7 LES13	3
FWHM / FWTM	39.0° / 91.0°	
Efficiency	87 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15859_HEKLA		
C14658_BARB	AKA-KZ-LENS	120
		30° en at at



TRIDO	VIC		30*
LED	SLE G7 LES13		
FWHM / FWTM	40.0° / 90.0°		78
Efficiency	86 %		
Peak intensity	1.3 cd/lm		60°
LEDs/each optic	1		
Light colour	White		934
Required compone			
F15859_HEKLA			
C14658_BARB			
			30° 1250 0° 15°
TRIDO			W*
LED	SLE G7 LES13		
FWHM / FWTM	39.0° / 91.0°		
Efficiency	93 %		
Peak intensity	1.4 cd/lm		
LEDs/each optic	1		
Light colour	White		er / 000
Required compone	ents:		
F15859_HEKLA			
			30*
			15 ⁹ 0 ⁰ 15 ⁹
TDIDOM			
TRIDO			50*
LED	SLE G7 LES15		
LED FWHM / FWTM	SLE G7 LES15 42.0° / 92.0°		
LED FWHM / FWTM Efficiency	SLE G7 LES15 42.0° / 92.0° 94 %		50 ³
LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White		5° 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents:		5°. 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents:		90 ⁴ 100 100 100 100 100 100 100 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents:		200 200 200 200 200 200 400 400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents: A-SOCKET-I		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents: A-SOCKET-I		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents: A-SOCKET-I		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents: A-SOCKET-1 XOB 14.5 mm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 42.0° / 92.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA Efficiency	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents: A-SOCKET-J XOB 14.5 mm 42.0° / 92.0° 94 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA Efficiency Peak intensity	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 42.0° / 92.0° 94 % 1.3 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA Efficiency Peak intensity LEDs/each optic	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 42.0° / 92.0° 94 % 1.3 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES15 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 42.0° / 92.0° 94 % 1.3 cd/lm 1 White ents:		



XICATO		
LED	XOB 6 mm	
FWHM / FWTM	25.0° / 87.0°	
Efficiency	94 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15255_HEKLA	-SOCKET-C	
XICATO		50°
LED	XOB 6 mm	
EED FWHM / FWTM	27.0° / 86.0°	73
Efficiency	88 %	
Peak intensity	00 % 1.9 cd/lm	est /
LEDs/each optic Light colour	1 White	
	White	
Required compone		
F15255_HEKLA		1600
C14658_BARBA	ARA-RZ-LENS	
		30° 300 30
XICATO		90 ⁴ 90 ⁷
LED	XOB 9.8 mm	
FWHM / FWTM	32.0° / 90.0°	73
Efficiency	94 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	gr c
Required compone	nts:	
F15255_HEKLA		
		160
		27 <u>135</u> <u>0¹</u> <u>135</u> <u>0</u>
XICATO		50°
LED	XOB 9.8 mm	75
FWHM / FWTM	32.0° / 89.0°	
Efficiency	89 %	
Emonority	89 %	60 ²
Peak intensity	09 % 1.6 cd/lm	
Peak intensity		60°
Peak intensity LEDs/each optic	1.6 cd/lm	51
Peak intensity LEDs/each optic Light colour	1.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone	1.6 cd/lm 1 White nts:	er er 120
Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	1.6 cd/lm 1 White nts: -SOCKET-C	
Peak intensity LEDs/each optic Light colour Required compone	1.6 cd/lm 1 White nts: -SOCKET-C	



XICATO		9) ⁴ 90 ⁵
LED	XTM - 19mm LES	
FWHM / FWTM	48.0° / 95.0°	27
Efficiency	91 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	9°
Required compone	ents:	
C15743_XTM-A	DAPTER-50-B	
XICATO		20 ² 20 ² 20 ²
LED	XTM - 9mm LES	72
FWHM / FWTM	28.0° / 90.0°	
Efficiency	94 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C15743_XTM-A	DAPTER-50-B	30° 300 30°



bridgelux.		90* 90*
LED	V13 Gen6	
FWHM / FWTM	28.0° / 80.0°	73.
Efficiency	91 %	
Peak intensity	2.2 cd/lm	60 ⁵ - 800
LEDs/each optic	1	
Light colour	White	g
	White	
Required components:		1650
F14988_HEKLA-SC	CKET-E	
		30°
bridgelux.		
LED	V8 Gen6	
FWHM / FWTM	25.0°	
Efficiency	%	
LEDs/each optic	1	
Light colour	White	
Required components:		
F15253_HEKLA-SC	CKET-A	
bridgelux.		
LED	V8 Gen6	
FWHM / FWTM	25.0°	
Efficiency	0 %	
LEDs/each optic	1	
Light colour	White	
Required components:		
F15253_HEKLA-SC	CKET-A	
bridgelux.		90* 90*
LED	V8 Gen7	
FWHM / FWTM	24.0° / 83.0°	25
Efficiency	92 %	
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	97
Required components:		
F15253_HEKLA-SC	CKET-0	
F 10203_HEKLA-SC		
		2430
		30° 30° 30°
		······································



bridgelux

LED	Vesta TW 9mm (9W) DP	
FWHM / FWTM	28.0° / 84.0°	
Efficiency	87 %	
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C16142_HEKLA-SOCKET-K		
C14658_BARBARA-RZ-LENS		
Bender Wirth: 489 Typ L8		

CITIZEN

LED	CLL02x/CLU02x (LES10)		
FWHM / FWTM	26.0°		
Efficiency	0 %		
LEDs/each optic	1		
Light colour	White		
Required components:			
F15255_HEKLA-SOCKET-C			

CITIZEN

 LED
 CLL02x/CLU02x (LES10)

 FWHM / FWTM
 26.0° / 78.0°

 Efficiency
 %

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 F15255_HEKLA-SOCKET-C

CITIZEN

 LED
 CLL02

 FWHM / FWTM
 26.0° //

 Efficiency
 92 %

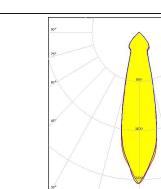
 Peak intensity
 2.5 cd

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 F15255_HEKLA-SOCKET-C

CLL02x/CLU02x (LES10) 26.0° / 81.0° 92 % 2.5 cd/lm 1 White





CITIZEN

 LED
 CLL03x/CLU03x

 FWHM / FWTM
 36.0° / 87.0°

 Efficiency
 93 %

 Peak intensity
 1.6 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 F15859_HEKLA-SOCKET-I

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	31.0°
Efficiency	0 %
LEDs/each optic	1
Light colour	White
Required components:	
F15254_HEKLA-SOC	KET-B

 LED
 CXA/B 1816 & CXA/B 1820 & CXA 1850

 FWHM / FWTM
 31.0°

 Efficiency
 %

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 F15254_HEKLA-SOCKET-B

		50 ⁴ 50 ⁷
LED	CxM-6 (13.5x13.5)	75
FWHM / FWTM	22.0° / 56.0°	
Efficiency	93 %	601
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required componen	ts:	
F17435_HEKLA-(G2-C	
		344 303 34
		15° 0° 15°



ØNICHIA		7
LED	COB L-Type (LES 11)	24
FWHM / FWTM	28.0° / 82.0°	
Efficiency	93 %	er
Peak intensity	2.2 cd/lm	
LEDs/each optic	1	
Light colour	White	9°
Required components	:	360
F15858_HEKLA-SO	DCKET-H	
		20 ⁴ 20 - 20/2 20 ⁷
Μ ΝΙCΗΙΛ		24
LED	COB L-Type (LES 9)	
FWHM / FWTM	26.0° / 80.0°	
Efficiency	93 %	et on
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	97
Required components	:	
F15858_HEKLA-SO	DCKET-H	
		304
Ø ΝΙCΗΙΛ		854
LED	СОВ Т-Туре	
	24.0° / 77.0°	3
Efficiency	24.0° / 77.0° 90 %	72 61
Efficiency Peak intensity	24.0° / 77.0°	27 50 50
Efficiency Peak intensity LEDs/each optic	24.0° / 77.0° 90 % 2.7 cd/lm	57 500 57 250
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	24.0° / 77.0° 90 % 2.7 cd/lm 1 White	27 91 97 97 100
Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 77.0° 90 % 2.7 cd/lm 1 White	5 ⁷ 500
Efficiency Peak intensity LEDs/each optic Light colour Required components	24.0° / 77.0° 90 % 2.7 cd/lm 1 White	27 er 57 100 100 100
Efficiency Peak intensity LEDs/each optic Light colour Required components	24.0° / 77.0° 90 % 2.7 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components F15848_HEKLA-S(24.0° / 77.0° 90 % 2.7 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components F15848_HEKLA-SC	24.0° / 77.0° 90 % 2.7 cd/lm 1 White :: DCKET-G	
Efficiency Peak intensity LEDs/each optic Light colour Required components F15848_HEKLA-SC	24.0° / 77.0° 90 % 2.7 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components F15848_HEKLA-SC	24.0° / 77.0° 90 % 2.7 cd/lm 1 White :: DCKET-G	
Efficiency Peak intensity LEDs/each optic Light colour Required components F15848_HEKLA-SC VICHIN LED FWHM / FWTM Efficiency	24.0° / 77.0° 90 % 2.7 cd/lm 1 White :: DCKET-G NFSWE11A 24.0° / 64.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required components F15848_HEKLA-SC VICHIN LED FWHM / FWTM Efficiency Peak intensity	24.0° / 77.0° 90 % 2.7 cd/lm 1 White : DCKET-G NFSWE11A 24.0° / 64.0° 86 %	
Efficiency Peak intensity LEDs/each optic Light colour Required components F15848_HEKLA-SC WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 77.0° 90 % 2.7 cd/lm 1 White : DCKET-G NFSWE11A 24.0° / 64.0° 86 % 2.6 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required components F15848_HEKLA-SC WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 77.0° 90 % 2.7 cd/lm 1 White :: DCKET-G NFSWE11A 24.0° / 64.0° 86 % 2.6 cd/lm 30 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components F15848_HEKLA-S(24.0° / 77.0° 90 % 2.7 cd/lm 1 White :: DCKET-G NFSWE11A 24.0° / 64.0° 86 % 2.6 cd/lm 30 White :	
Efficiency Peak intensity LEDs/each optic Light colour Required components F15848_HEKLA-SC VICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	24.0° / 77.0° 90 % 2.7 cd/lm 1 White :: DCKET-G NFSWE11A 24.0° / 64.0° 86 % 2.6 cd/lm 30 White :	
Efficiency Peak intensity LEDs/each optic Light colour Required components F15848_HEKLA-SC VICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	24.0° / 77.0° 90 % 2.7 cd/lm 1 White :: DCKET-G NFSWE11A 24.0° / 64.0° 86 % 2.6 cd/lm 30 White :	



OSRAM Opto Semiconductors		50°
LED	Soleriq S13 19x19	
FWHM / FWTM	28.2° / 81.4°	75
Efficiency	93 %	
Peak intensity	2.2 cd/lm	60 ¹ 800
LEDs/each optic	1	
Light colour	White	gr. ar
Required component		169)
F15859_HEKLA-S		
		30° 300 30° 15° 0° 25°
OSRAM Opto Semiconductors		90* 90*
LED	Soleriq S9	
FWHM / FWTM	25.7° / 80.8°	
Efficiency	93 %	
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	gr. <u>100</u>
Required component	s:	
F15255_HEKLA-S	OCKET-C	
		36-
		15° 0° 15°
SAMSU	NG	30,4
LED	LC016D / LC019D / LC026D / LC033D	77
FWHM / FWTM	35.0° / 86.5°	
Efficiency	88 %	60.0
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	a, a.
Required component	s:	
F15859_HEKLA-S	OCKET-I	
		3/* 200
		125° 0° 15°



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:

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