

PRODUCT DATASHEET CP17783\_AMY-70-M-C

# AMY-70-M-C

~24° medium beam. Assembly with holder C compatible with LEDiL HEKLA. Black version.

#### **SPECIFICATION:**

Dimensions	Ø 69.9 mm
Height	16.6 mm
Fastening	socket
ROHS compliant	yes 🛈



#### **MATERIALS:**

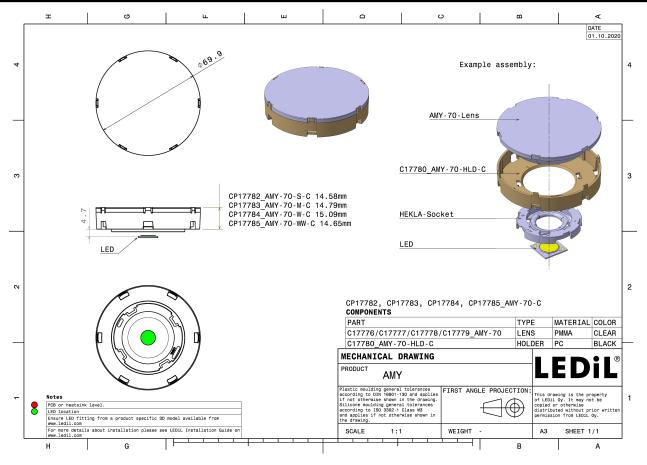
Component	Туре	Material	Colour	Finish
AMY-70-M	Single lens	PMMA		
AMY-70-HLD-C	Holder	PC	black	

#### **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CP17783_AMY-70-M-C	210	210	15	8.7
» Box size: 480 x 280 x 300 mm				



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



## **OPTICAL RESULTS (MEASURED):**

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bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		200 200 200 200 200 200 200 200
bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63		300 300 300 300 300 900 900 900
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA		31, 0, 12, 0, 12, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2
bridgeluX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA		20° 0° 12° 0° 12° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°



## **OPTICAL RESULTS (MEASURED):**

CITIZE	N	90 <sup>4</sup> 90 <sup>4</sup>
	CLL02x/CLU02x (LES10)	
FWHM / FWTM	22.0° / 41.0°	77
Efficiency	90 %	
Peak intensity	4.8 cd/lm	
LEDs/each optic	1	
Light colour	White	9 <sup>11</sup>
Required compone		
F17435_HEKLA		
	_	
		90* 90*
LED	CMU15xx	
FWHM / FWTM	26.0° / 51.0°	
Efficiency	88 %	50°
Peak intensity	3.2 cd/lm	
LEDs/each optic	1	
Light colour	White	ei.
Required compone	nts:	200
F17438_HEKLA	-G2-I	
		30"
<b>A</b>	EDC	
MUMIL 🌕	EDS	90* 90*
		<u>Bi</u> , <u>Bi</u> ,
	LUXEON Fusion 12-up (20x24) 22.0° / 41.0°	32. 22. 25. 25. 25. 25.
LED	LUXEON Fusion 12-up (20x24)	80 32 35 35 35 35 35 35 35
LED FWHM / FWTM	LUXEON Fusion 12-up (20x24) 22.0° / 41.0°	62 200 664 230 252 264 264
LED FWHM / FWTM Efficiency	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 %	6. 200 8. 22. 24. 25. 25. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26
LED FWHM / FWTM Efficiency Peak intensity	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White	y y
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K	y y
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K -RZ-LENS	y y
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K -RZ-LENS 12 Typ L8	97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K -RZ-LENS 42 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K -RZ-LENS 42 Typ L8 EDS LUXEON Fusion 21-up (20x24)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K -RZ-LENS 42 Typ L8 EDS LUXEON Fusion 21-up (20x24) 23.0° / 42.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K -RZ-LENS 42 Typ L8 EDS LUXEON Fusion 21-up (20x24) 23.0° / 42.0° 82 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44 CONTINUE LED FWHM / FWTM Efficiency Peak intensity	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K -RZ-LENS 42 Typ L8 EDS LUXEON Fusion 21-up (20x24) 23.0° / 42.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44 CONTINUE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K -RZ-LENS 42 Typ L8 EDS LUXEON Fusion 21-up (20x24) 23.0° / 42.0° 82 % 4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44 CONTINUE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K -RZ-LENS 12 Typ L8 EDS LUXEON Fusion 21-up (20x24) 23.0° / 42.0° 82 % 4 cd/lm 21 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44 CONTRACTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K -RZ-LENS 42 Typ L8 EDS LUXEON Fusion 21-up (20x24) 23.0° / 42.0° 82 % 4 cd/lm 21 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44 CONTINUE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K -RZ-LENS 42 Typ L8 EDS LUXEON Fusion 21-up (20x24) 23.0° / 42.0° 82 % 4 cd/lm 21 White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44 CONTRACTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Fusion 12-up (20x24) 22.0° / 41.0° 84 % 4.3 cd/lm 12 White nts: -SOCKET-K -RZ-LENS 22 Typ L8 EDS LUXEON Fusion 21-up (20x24) 23.0° / 42.0° 82 % 4 cd/lm 21 White nts: -SOCKET-K -RZ-LENS	



## **OPTICAL RESULTS (MEASURED):**

EWHM / FWTM 26.0° / 48.0° Efficiency 82 % Peak intensity 3.1 cd/lm LEDs/each optic 27 Light colour White Required components: C16142_HEKLA-SOCKET-K F18158_HEKLA-RZ-LENS Bender Wirth: 442 Typ L8 EED CTM-14 (Tunable White) Gen2 EWHM / FWTM 24.5° / 48.0° Efficiency 89 % Peak intensity 3.5 cd/lm LEDs/each optic 1	-		
EWHM / FWTM 26.0° / 48.0° Efficiency 82 % Peak intensity 3.1 cd/m EDD/each optic 27 Light colour White Required components: C16142_HEKLA-SOCKET-K F18158_HEKLA-RZ-LENS Bender Wirth: 442 Typ L8 ED CTM-14 (Tunable White) Gen2 EVMH / FWTM 24.5° / 48.0° Efficiency 89 % Peak intensity 3.5 cd/m LEDS/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8 ED CO16D / LC016D / LC026D / LC033D EWHM / FWTM 27.0° / 53.0° EFICiency 90 % Peak intensity 3.1 cd/m LEDS/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8 ED LC016D / LC016D / LC026D / LC033D EWHM / FWTM 27.0° / 53.0° EVIEND 3.1 cd/m LEDS/each optic 1 Light colour White Required components: EIGioency 90 % Peak intensity 3.1 cd/m LEDS/each optic 1 Light colour White Required components:	M LUMIL	EDS	50° 50°
Efficiency 82 % Peak intensity 3.1 cd/m LEDs/each optic 27 Light colour White Required components: C16142_HEKLA-SOCKET-K F18158_HEKLA-RZ-LENS Bender Wirh: 442 Typ L8 ED CTM-14 (Tunable White) Gen2 FWHM / FVTM 24.5° / 48.0° Efficiency 89 % Peak intensity 3.5 cd/m LEDs/each optic 1 LEDs/each optic 1 LEDs	LED	LUXEON Fusion 27-up (20x24)	
Peak intensity 3.1 cd/m EDS/each optic 27 Light colour White Required components: C16142_HEKLA-SOCKET-K F16159_HEKLA-R2_LENS Bender Wirth: 442 Typ L8	FWHM / FWTM	26.0° / 48.0°	
LEDs/each optic 27 Light colour While Required components: C16142_HEKLA-SOCKET-K F18158_HEKLA-RZ-LENS Bender Wirth: 442 Typ L8	Efficiency	82 %	60° 60°
Light colour White Required components: C 16142_HEKLA-SOCKET-K F18158_HEKLA-R2_LENS Bender Wirth: 442 Typ L8	Peak intensity	3.1 cd/lm	
Required components: C16142_HEKLA-SOCKET-K F18158_HEKLA-RZ-LENS Bender Wirth: 442 Typ L8	LEDs/each optic	27	
C16142_HEKLA-SOCKET-K F18158_HEKLA-RZ-LENS Bender Wirth: 442 Typ L8	Light colour	White	
F18158_HEKLA-RZ-LENS Bender Wirth: 442 Typ L8	Required compone	ents:	
Bender Wirth: 442 Typ L8	C16142_HEKL/	A-SOCKET-K	
Image: Description of the second	F18158_HEKLA	A-RZ-LENS	$\times$
LED CTM-14 (Tunable White) Gen2 FWHM / FWTM 24.5° / 48.0° Efficiency 89 % Peak intensity 3.5 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8 ESAMSSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 27.0° / 53.0° Efficiency 90 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	Bender Wirth: 4	42 Тур L8	204 250 30* 30*
FWHM / FWTM 24.5° / 48.0° Efficiency 89 % Peak intensity 3.5 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C 16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8 SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 27.0° / 53.0° Efficiency 90 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	<b>E</b> LUM	INUS	90 <sup>,</sup>
FWHM / FWTM 24.5° / 48.0° Efficiency 89 % Peak intensity 3.5 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8 SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 27.0° / 53.0° Efficiency 90 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	LED		
Peak intensity 3.5 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8	FWHM / FWTM	24.5° / 48.0°	72 000 75*
LEDS/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8 C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8 C16142_HEKLA-SOCKET-K C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8 C16142_HEKLA-SOCKET-K C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8 C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8 C16142_HEKLA-SOCKET-	Efficiency	89 %	
LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8	Peak intensity	3.5 cd/lm	
Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8 SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 27.0° / 53.0° Efficiency 90 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	LEDs/each optic	1	
Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 442 Typ L8 SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 27.0° / 53.0° Efficiency 90 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	Light colour	Tunable White	ar ar
Bender Wirth: 442 Typ L8	Required compone	ents:	
SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 27.0° / 53.0° Efficiency 90 % Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White Required components:	C16142_HEKL/	A-SOCKET-K	
LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 27.0° / 53.0° Efficiency 90 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	Bender Wirth: 4	42 Typ L8	300
LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 27.0° / 53.0° Efficiency 90 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:			30-
LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 27.0° / 53.0° Efficiency 90 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	сллс		12 <sup>9</sup> 0 <sup>4</sup> 15 <sup>9</sup>
FWHM / FWTM 27.0° / 53.0° Efficiency 90 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:			39° 59'
Efficiency 90 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:			72
Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:			
LEDs/each optic 1 Light colour White Required components:	-		
Light colour White Required components:			
Required components:	-		e <sup>-</sup>
200			
			200
30 <sup>16</sup> 2500 30 127 0 <sup>1</sup> 127	1 13039_HEKL		
30 <sup>4</sup> 3350 30 <sup>4</sup>			
			30 <sup>4</sup> 2200 30 <sup>4</sup>



USGELD.       LED       V13 Gen7         LED       V13 Gen7         PMM /FVTM       24.0 / 51.0 ''         ElDReach optic       1         LEDReach optic       1         LED       V19 Gen 8         FVMM /FVTM       32.0 / 62.0 + 60.0 ''         ElDereach optic       1         LEDreach optic       1 <t< th=""><th></th><th></th><th></th></t<>			
LED V18 Gen 8 FWHM / FWTM 32.0° / 62.0 + 60.0° Efficiency 86 % Peak intensity 2.4 cd/m LEDs/each optic 1 LEDs/each optic 1 LEDs/each optic 1 LED V3 HD Gen 8 FWHM / FWTM 21.0 + 22.0° / 32.0° Efficiency 94 % Peak intensity 7.1 cd/m LEDS/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 51.0° 92 % 3.8 cd/lm 1	9° 600 6°
LED V18 Gen 8 FWHM / FWTM 32.0° / 62.0 + 60.0° Efficiency 86 % Peak intensity 2.4 cd/m LEDs/each optic 1 LEDs/each optic 1 LEDs/each optic 1 LED V3 HD Gen 8 FWHM / FWTM 21.0 + 22.0° / 32.0° Efficiency 94 % Peak intensity 7.1 cd/m LEDS/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A			7 7
FWHM / FWTM 32.0° / 62.0 + 60.0° Efficiency 86 % Peak intensity 2.4 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 639b Hekla XL bridgeLux LED V3 HD Gen 8 FWHM / FWTM 21.0 + 22.0° / 32.0° Efficiency 94 % Peak intensity 7.1 cd/m LEDs/each optic 1 LED/ White Required components: F15253_HEKLA-SOCKET-A bridgeLux LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED/ V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED/ LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED/ LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED/ LED/ LD V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED/ LED/ LD V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED/ LED/ LD V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED/ LED/ LD V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED/ LED/ LD V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED/ LED/ LD V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED/ LED/ LD V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m	brídgelux.		90° 90°
Efficiency 86 % Peak intensity 2.4 cd/m LEDS / 2.4 cd/m LEDS / 2.4 cd/m LEDS / 2.4 cd/m Required components: Bender Winth: 639b Hekla XL	LED	V18 Gen 8	
Peak intensity 2.4 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirh: 639b Hekia XL brdgeLuX. LED V3 HD Gen 8 FWHM / FWTM 21.0 + 22.0 * / 32.0° Efficiency 94 % Peak intensity 7.1 cd/m LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A The action of the a	FWHM / FWTM	32.0° / 62.0 + 60.0°	
LEDs/each optic 1 Light colour White Required components: Bender Wirth: 639b Hekla XL Crocelux. LED V3 HD Gen 8 FWHM / FWTM 21.0 + 22.0° / 32.0° Efficiency 94 % Peak intensity 7.1 cd/m LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A Crocelux. LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 1 LED 1 LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 33 % Peak intensity 7.1 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	Efficiency	86 %	60° 000 00°
Light colour White Required components: Bender Wirth: 639b Hekla XL LED V3 HD Gen 8 FWHM / FWTM 21.0 + 22.0° / 32.0° Efficiency 94 % Peak intensity 7.1 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C	Peak intensity	2.4 cd/lm	$\land$ /// $\land$ $\land$ /
Required components: Bender Wint: 639b Hekla XL brogelux. LED V3 HD Gen 8 FWHM / FWTM 21.0 + 22.0° / 32.0° Efficiency 94 % Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A brogelux. LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	LEDs/each optic	1	
Bender Wirth: 639b Hekla XL  Drdgeluk  LED V3 HD Gen 8 FWHM / FWTM 21.0 + 22.0° / 32.0° Efficiency 94 % Peak intensity 7.1 cd/m LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-C	Light colour	White	a. a.
bridgeluk         LED       V3 HD Gen 8         FWHM / FWTM       21.0 + 22.0° / 32.0°         Efficiency       94 %         Peak intensity       7.1 cd/lm         LEDs/each optic       1         Light colour       White         Required components:       F15253_HEKLA-SOCKET-A         bridgeluk       Image: Comparison of the second o	Required components:		- 1539
bridgetuk. LED V3 HD Gen 8 FWHM / FWTM 21.0 + 22.0° / 32.0° Efficiency 94 % Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A bridgetuk. LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	Bender Wirth: 639b H	lekla XL	
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bridgeLX. LED V3 HD Gen 8 FWHM / FWTM 21.0 + 22.0° / 32.0° Efficiency 94 % Peak Intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A bridgeLX. LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak Intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C			30° 2450 36°
LED V3 HD Gen 8 FWHM / FWTM 21.0 + 22.0° / 32.0° Efficiency 94 % Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C			15° ° 15°
LED V3 HD Gen 8 FWHM / FWTM 21.0 + 22.0° / 32.0° Efficiency 94 % Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	bridgelux.		90* 90*
FWHM / FWTM 21.0 + 22.0° / 32.0° Efficiency 94 % Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-C		V3 HD Gen 8	
Efficiency 94 % Peak intensity 7.1 cd/m LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SUCKET-C FMTM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SUCKET-C			75
Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A bridgetuk LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C			
LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A brdgetuk LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	Efficiency	94 %	
Light colour White Required components: F15253_HEKLA-SOCKET-A bridgetuX. LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/lm LEDS/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C			100 60 <sup>+</sup>
Required components: F15253_HEKLA-SOCKET-A bridgetuX LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	Peak intensity	7.1 cd/lm	200 Kr
F15253_HEKLA-SOCKET-A       Image: Constraint of the second	Peak intensity LEDs/each optic	7.1 cd/lm 1	g
bragelux. LED V3 HD Gen 8 FC FWHM / FWTM 22.0 + 21.0° / 32.0° Efficiency 93 % Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SUCKET-C	Peak intensity LEDs/each optic Light colour	7.1 cd/lm 1	g
LED     V3 HD Gen 8 FC       FWHM / FWTM     22.0 + 21.0° / 32.0°       Efficiency     93 %       Peak intensity     7.1 cd/lm       LEDs/each optic     1       Light colour     White       Required components:     ***       F15255_HEKLA-SUCKET-C     ***	Peak intensity LEDs/each optic Light colour Required components:	7.1 cd/lm 1 White	g
LED     V3 HD Gen 8 FC       FWHM / FWTM     22.0 + 21.0° / 32.0°       Efficiency     93 %       Peak intensity     7.1 cd/lm       LEDs/each optic     1       Light colour     White       Required components:     ***       F15255_HEKLA-SUCKET-C     ***	Peak intensity LEDs/each optic Light colour Required components:	7.1 cd/lm 1 White	g
LED     V3 HD Gen 8 FC       FWHM / FWTM     22.0 + 21.0° / 32.0°       Efficiency     93 %       Peak intensity     7.1 cd/lm       LEDs/each optic     1       Light colour     White       Required components:     ***       F15255_HEKLA-SUCKET-C     ***	Peak intensity LEDs/each optic Light colour Required components:	7.1 cd/lm 1 White	g
LED     V3 HD Gen 8 FC       FWHM / FWTM     22.0 + 21.0° / 32.0°       Efficiency     93 %       Peak intensity     7.1 cd/lm       LEDs/each optic     1       Light colour     White       Required components:     ***       F15255_HEKLA-SUCKET-C     ***	Peak intensity LEDs/each optic Light colour Required components:	7.1 cd/lm 1 White	g
FWHM / FWTM     22.0 + 21.0° / 32.0°       Efficiency     93 %       Peak intensity     7.1 cd/lm       LEDs/each optic     1       Light colour     White       Required components:     1       F15255_HEKLA-SUCKET-C     1	Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	7.1 cd/lm 1 White	g
Efficiency 93 % Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SUCKET-C	Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	7.1 cd/lm 1 White CKET-A	g
Peak intensity 7.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	7.1 cd/lm 1 White CKET-A V3 HD Gen 8 FC	27°
LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C	Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux. LED FWHM / FWTM	7.1 cd/lm 1 White CKET-A V3 HD Gen 8 FC 22.0 + 21.0° / 32.0°	27°
Light colour White F15255_HEKLA-SOCKET-C	Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency	7.1 cd/lm 1 White CKET-A V3 HD Gen 8 FC 22.0 + 21.0° / 32.0° 93 %	27°
Required components: F15255_HEKLA-SOCKET-C	Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity	7.1 cd/lm 1 White XKET-A V3 HD Gen 8 FC 22.0 + 21.0° / 32.0° 93 % 7.1 cd/lm	27°
F15255_HEKLA-SOCKET-C	Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	7.1 cd/lm 1 White SKET-A V3 HD Gen 8 FC 22.0 + 21.0° / 32.0° 93 % 7.1 cd/lm 1	27°
	Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	7.1 cd/lm 1 White SKET-A V3 HD Gen 8 FC 22.0 + 21.0° / 32.0° 93 % 7.1 cd/lm 1	27. 000 000 000 000 000 000 000 0
30° 0° 15° 30°	Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	7.1 cd/lm 1 White CKET-A V3 HD Gen 8 FC 22.0 + 21.0° / 32.0° 93 % 7.1 cd/lm 1 White	27°
30° 31° 31°	Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	7.1 cd/lm 1 White CKET-A V3 HD Gen 8 FC 22.0 + 21.0° / 32.0° 93 % 7.1 cd/lm 1 White	200 000 000 000 000 000 000 000
	Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	7.1 cd/lm 1 White CKET-A V3 HD Gen 8 FC 22.0 + 21.0° / 32.0° 93 % 7.1 cd/lm 1 White	200 000 000 000 000 000 000 000



r		
bridgelux.		50°
LED	V4 HD Gen 8	75'
FWHM / FWTM	22.0° / 33.0 + 34.0°	1000
Efficiency	94 %	60°
Peak intensity	7 cd/lm	329
LEDs/each optic	1	
Light colour	White	45"
Required components:		4800
F15253_HEKLA-SO	CKET-A	
		6130
		30* 30*
		15% 0% 15%
bridgelux.		90* 90*
LED	V6 Gen 8	75*
FWHM / FWTM	22.0° / 35.0°	1000
Efficiency	94 %	60°
Peak intensity	6.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 45°
Required components:		
F15253_HEKLA-SO	CKET-A	
		30° 31°
		15° 0° 15°
$\bigcirc$		
bridgelux.		80*
bridgelux. LED	V6 HD Gen 8	50°
	V6 HD Gen 8 22.0° / 35.0 + 36.0°	99 <sup>5</sup> 75 75
LED		01 01 02 02 02 02 02 02 02 02 02 02
LED FWHM / FWTM	22.0° / 35.0 + 36.0°	601 517 517 517 507 507 507
LED FWHM / FWTM Efficiency	22.0° / 35.0 + 36.0° 93 %	220 61 23 24 25 25 26 25 26 26 27 26 27 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm	61
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1	G, 200 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White	601 1000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White	G, 200 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White	200 gr gr (00 (00 (00 (00 (0) (0) (0) (0)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOG	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White	c. 259 61 700 700
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOG	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White CKET-C	3v* 692 X*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOG	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White CKET-C	3v* 692 X*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOO	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White CKET-C V8 Gen7 22.0° / 38.0°	gr         100           gr         100           gr         600           gr         600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOO bridgeLux. LED FWHM / FWTM Efficiency	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White CKET-C V8 Gen7 22.0° / 38.0° 91 %	3v* 692 X*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOO bridgelux. LED FWHM / FWTM Efficiency Peak intensity	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White CKET-C V8 Gen7 22.0° / 38.0°	gr         100           gr         100           gr         600           gr         600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOO bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White CKET-C V8 Gen7 22.0° / 38.0° 91 % 5.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOO bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White CKET-C V8 Gen7 22.0° / 38.0° 91 % 5.6 cd/lm	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOG bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White CKET-C V8 Gen7 22.0° / 38.0° 91 % 5.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOO bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White CKET-C V8 Gen7 22.0° / 38.0° 91 % 5.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOG bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White CKET-C V8 Gen7 22.0° / 38.0° 91 % 5.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SOG bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 35.0 + 36.0° 93 % 6.2 cd/lm 1 White CKET-C V8 Gen7 22.0° / 38.0° 91 % 5.6 cd/lm 1 White	



bridgelux.		90* 90*
LED	V9 HD Gen 8	
FWHM / FWTM	22.0° / 38.0 + 37.0°	75
Efficiency	93 %	1500
Peak intensity	5.9 cd/lm	60°
LEDs/each optic	1	
Light colour	White	er
Required components:		
F15859_HEKLA-SO	CKET-I	4530
_		
		30" 34.
		15° 6600 15°
bridgelux.		90*
LED	VERO10	
FWHM / FWTM	22.0° / 39.0°	75
Efficiency	91 %	1600
Peak intensity	5.4 cd/lm	
LEDs/each optic	1	
Light colour	White	93 <sup>4</sup> - 3230 - 65°
Required components:		
F15616_HEKLA-SO	CKET-F	
		4530
		307 307
		15° 0° 15°
bridgelux.		90° 90°
bridgelux. LED	VERO13	50°
	VERO13 24.0° / 44.0°	<u>37</u>
LED		9°
LED FWHM / FWTM	24.0° / 44.0°	61 100 65 21 25 24 25
LED FWHM / FWTM Efficiency	24.0° / 44.0° 89 %	91 <sup>*</sup> 92 <sup>*</sup> 92 <sup>*</sup> 90 <sup>*</sup> 90 <sup>*</sup> 90 <sup>*</sup>
LED FWHM / FWTM Efficiency Peak intensity	24.0° / 44.0° 89 % 4.4 cd/lm	a. (1) (2) (2) (2) (2) (2) (2) (2) (2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 44.0° 89 % 4.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 44.0° 89 % 4.4 cd/lm 1 White	¢.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 44.0° 89 % 4.4 cd/lm 1 White	¢.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 44.0° 89 % 4.4 cd/lm 1 White	¢.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO	24.0° / 44.0° 89 % 4.4 cd/lm 1 White	x* 300 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO	24.0° / 44.0° 89 % 4.4 cd/lm 1 White CKET-K	g. 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO	24.0° / 44.0° 89 % 4.4 cd/lm 1 White CKET-K	200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO	24.0° / 44.0° 89 % 4.4 cd/lm 1 White CKET-K VERO18 33.0 + 32.0° / 62.0°	200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO bridgetux. LED FWHM / FWTM Efficiency	24.0° / 44.0° 89 % 4.4 cd/lm 1 White CKET-K VERO18 33.0 + 32.0° / 62.0° 90 %	200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO bridgelux. LED FWHM / FWTM Efficiency Peak intensity	24.0° / 44.0° 89 % 4.4 cd/lm 1 White CKET-K VERO18 33.0 + 32.0° / 62.0° 90 % 2.3 cd/lm	x* 300 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 44.0° 89 % 4.4 cd/lm 1 White CKET-K VERO18 33.0 + 32.0° / 62.0° 90 % 2.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO Drdgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 44.0° 89 % 4.4 cd/lm 1 White CKET-K VERO18 33.0 + 32.0° / 62.0° 90 % 2.3 cd/lm	61 00 00 91 00 91 00 90 00 91 00 90 00 91 00 90 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 44.0° 89 % 4.4 cd/lm 1 White CKET-K VERO18 33.0 + 32.0° / 62.0° 90 % 2.3 cd/lm 1 White	500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO Drdgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 44.0° 89 % 4.4 cd/lm 1 White CKET-K VERO18 33.0 + 32.0° / 62.0° 90 % 2.3 cd/lm 1 White	0°. 00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 44.0° 89 % 4.4 cd/lm 1 White CKET-K VERO18 33.0 + 32.0° / 62.0° 90 % 2.3 cd/lm 1 White	0°. 00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 44.0° 89 % 4.4 cd/lm 1 White CKET-K VERO18 33.0 + 32.0° / 62.0° 90 % 2.3 cd/lm 1 White	0°. 00 00 00 00 00 00 00 00 00 00 00 00 00



bridgelux.		90 <sup>5</sup>
LED	Vesta DTW 13mm (21W)	73.
FWHM / FWTM	22.0° / 36.0°	100
Efficiency	93 %	60°
Peak intensity	6.1 cd/lm	
LEDs/each optic	1	
Light colour	White	\$7 V
Required components:		400
Bender Wirth: 632b	Hekia XL	
		30° 6450 30° 30°
bridgelux.		30° <b>A</b> 90°
LED	Vesta DTW 15mm (33W)	
FWHM / FWTM	27.0 + 26.0° / 50.0 + 49.0°	73 - 73 -
Efficiency	91 %	
Peak intensity	3.6 cd/lm	1000 - 60°
LEDs/each optic	1	
Light colour	White	43* 43*
Required components:		
Bender Wirth: 632b	Hekla XL	
		200
		30° 30°
		15° 4880 25°
$\bigcirc$		
bridgelux.		90° 90°
LED	Vesta DTW 6mm	30 <sup>+</sup> 90 <sup>+</sup> 90 <sup>+</sup>
LED FWHM / FWTM	22.0° / 36.0°	
LED FWHM / FWTM Efficiency	22.0° / 36.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity	22.0° / 36.0° 93 % 6.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	22.0° / 36.0° 93 % 6.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	22.0° / 36.0° 93 % 6.2 cd/lm 1 White	60. 25. 26.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 36.0° 93 % 6.2 cd/lm 1 White	5. 61. 25. 26. 26. 26. 26. 26. 26.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	22.0° / 36.0° 93 % 6.2 cd/lm 1 White	60. 25. 26.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 36.0° 93 % 6.2 cd/lm 1 White	5. 61. 25. 26. 26. 26. 26. 26. 26.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 36.0° 93 % 6.2 cd/lm 1 White	5. 61. 25. 26. 26. 26. 26. 26. 26.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 652b	22.0° / 36.0° 93 % 6.2 cd/lm 1 White	3, 615 3, 6, 6, 6, 6, 7, 100 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 652b	22.0° / 36.0° 93 % 6.2 cd/lm 1 White Hekla	3, 615 3, 6, 6, 6, 6, 7, 100 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 652b	22.0° / 36.0° 93 % 6.2 cd/lm 1 White	3, 613 3, 2, 42, 42, 42, 42, 42, 42, 42, 42, 42,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 652b	22.0° / 36.0° 93 % 6.2 cd/lm 1 White Hekla Vesta DTW 9mm (4W/6W/12W)	3, 615 3, 6, 6, 6, 6, 7, 100 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 652b bridgelux LED FWHM / FWTM	22.0° / 36.0° 93 % 6.2 cd/lm 1 White Hekla Vesta DTW 9mm (4W/6W/12W) 23.0° / 39.0°	22. 23. 24. 25. 26. 27. 26. 27. 27. 27. 27. 27. 27. 27. 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 652b	22.0° / 36.0° 93 % 6.2 cd/lm 1 White Hekla Vesta DTW 9mm (4W/6W/12W) 23.0° / 39.0° 87 %	22. 23. 24. 25. 26. 26. 27. 26. 27. 26. 27. 26. 27. 27. 27. 27. 27. 27. 27. 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 652b bridgetux. LED FWHM / FWTM Efficiency Peak intensity	22.0° / 36.0° 93 % 6.2 cd/lm 1 White Hekla Vesta DTW 9mm (4W/6W/12W) 23.0° / 39.0° 87 % 5.1 cd/lm	22. 23. 24. 25. 26. 27. 26. 27. 27. 27. 27. 27. 27. 27. 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 652b bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	22.0° / 36.0° 93 % 6.2 cd/lm 1 White Hekla Vesta DTW 9mm (4W/6W/12W) 23.0° / 39.0° 87 % 5.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 652b bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	22.0° / 36.0° 93 % 6.2 cd/lm 1 White Hekla Vesta DTW 9mm (4W/6W/12W) 23.0° / 39.0° 87 % 5.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 652b bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	22.0° / 36.0° 93 % 6.2 cd/lm 1 White Hekla Vesta DTW 9mm (4W/6W/12W) 23.0° / 39.0° 87 % 5.1 cd/lm 1 White -LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 652b bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F18158_HEKLA-RZ	22.0° / 36.0° 93 % 6.2 cd/lm 1 White Hekla Vesta DTW 9mm (4W/6W/12W) 23.0° / 39.0° 87 % 5.1 cd/lm 1 White -LENS	



bridgelux. LED	Vesta DTW 9mm (4W/6W/12W)	90°
FWHM / FWTM	22.0° / 37.0°	75'
		1600
Efficiency	91 % 6 cd/lm	60°
Peak intensity		
LEDs/each optic	1 White	45°
Light colour	White	
Required components: Bender Wirth: 652b H		
Dender Wirth 03201	ισκια	
		30° 50° 50° 30°
bridgelux.		90*
LED	Vesta TW 13mm (18W) DP	25*
FWHM / FWTM	24.0° / 46.0 + 44.0°	
Efficiency	90 %	50 <sup>4</sup> 50 <sup>4</sup>
Peak intensity	4.3 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	42× 42×
Required components:		320
C16142_HEKLA-SO	CKET-K	
Bender Wirth: 492 Ty	/p L8	
		30* 31*
		15° 0° 15°
$\bigcirc$		
bridgelux.		90° 90°
bridgelux. LED	Vesta TW 15mm DP	<u>97</u> 97
	Vesta TW 15mm DP 27.0° / 50.0°	<u>9</u> , <u>9</u> , <u>9</u> ,
LED		000 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM	27.0° / 50.0°	59° 73° 60° 60°
LED FWHM / FWTM Efficiency	27.0° / 50.0° 89 %	5 <sup>1</sup> 5 <sup>1</sup> 5 <sup>1</sup> 5 <sup>1</sup> 5 <sup>1</sup> 5 <sup>1</sup> 5 <sup>1</sup> 5 <sup>1</sup>
LED FWHM / FWTM Efficiency Peak intensity	27.0° / 50.0° 89 % 3.4 cd/lm	27 00 64
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	27.0° / 50.0° 89 % 3.4 cd/lm 1	73* 25* 66* 67*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White	61 200 200 200 200 200 200 200 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White CKET-K	64 500 64 500 57 57 57 57 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White CKET-K	gr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White CKET-K	61 200 200 200 200 200 200 200 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO Bender Wirth: 482 Ty	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White CKET-K	by         by           bit         bit           bit
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO Bender Wirth: 482 Ty	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White CKET-K /p L8	61 200 200 200 200 200 200 200 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO Bender Wirth: 482 Ty bridgelux. LED	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White CKET-K /p L8 Vesta TW 9mm (9W) DP	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO Bender Wirth: 482 Ty bridgelux. LED FWHM / FWTM	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White CKET-K rp L8 Vesta TW 9mm (9W) DP 24.0 + 25.0° / 43.0 + 45.0°	by         by           bit         bit           bit
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO Bender Wirth: 482 Ty bridgetux. LED FWHM / FWTM Efficiency	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White CKET-K /p L8 Vesta TW 9mm (9W) DP 24.0 + 25.0° / 43.0 + 45.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO Bender Wirth: 482 Ty bridgelux. LED FWHM / FWTM Efficiency Peak intensity	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White CKET-K rp L8 Vesta TW 9mm (9W) DP 24.0 + 25.0° / 43.0 + 45.0° 93 % 4.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO Bender Wirth: 482 Ty bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White CKET-K /p L8 Vesta TW 9mm (9W) DP 24.0 + 25.0° / 43.0 + 45.0° 93 % 4.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO Bender Wirth: 482 Ty bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White CKET-K rp L8 Vesta TW 9mm (9W) DP 24.0 + 25.0° / 43.0 + 45.0° 93 % 4.6 cd/lm 1 Tunable White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO Bender Wirth: 482 Ty bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	27.0° / 50.0° 89 % 3.4 cd/lm 1 Tunable White CKET-K rp L8 Vesta TW 9mm (9W) DP 24.0 + 25.0° / 43.0 + 45.0° 93 % 4.6 cd/lm 1 Tunable White CKET-K	



CITIZEN	·	50
LED	CLL03x/CLU03x	
FWHM / FWTM	23.0 + 22.0° / 50.0 + 48.0°	77 500
Efficiency	89 %	
Peak intensity	3.9 cd/lm	9 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	Ø
Required components:		
F15859_HEKLA-SC		200
		$\times$ / $\vee$ $\times$
		30* 630
CITIZEN	,	207 of 107
		30°
LED	CLU700/701/702/703	7
FWHM / FWTM	20.0° / 36.0°	500
Efficiency	92 %	90
Peak intensity	6.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
F15255_HEKLA-SC	CKET-C	
		30 <sup>6</sup> 600 13 <sup>5</sup>
CITIZEN		50°
LED	CLU700/701/702/703	
FWHM / FWTM	21.0° / 36.0 + 37.0°	75
Efficiency	93 %	
Peak intensity	6.1 cd/lm	9e- X
LEDs/each optic	1	
Light colour		<b>a</b>
Light colour Required components:	White	¢.
Required components:	White	g. 200 400
-	White	·
Required components:	White	e.
Required components:	White	·
Required components:	White	e. 20 20
Required components: F15255_HEKLA-SC	White	e. 20 20
Required components: F15255_HEKLA-SC	White ICKET-C	e. 20 20
Required components: F15255_HEKLA-SC	White PCKET-C CMA1825	
Required components: F15255_HEKLA-SC	White PCKET-C CMA1825 24.0° / 45.0°	e. 20 20
Required components: F15255_HEKLA-SC CREE LED LED FWHM / FWTM Efficiency	White PCKET-C CMA1825 24.0° / 45.0° 90 %	
Required components: F15255_HEKLA-SC ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White PCKET-C CMA1825 24.0° / 45.0° 90 % 4.4 cd/lm 1 White	
Required components: F15255_HEKLA-SC ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White PCKET-C CMA1825 24.0° / 45.0° 90 % 4.4 cd/lm 1 White	
Required components: F15255_HEKLA-SC ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White PCKET-C CMA1825 24.0° / 45.0° 90 % 4.4 cd/lm 1 White	
Required components: F15255_HEKLA-SC ED ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	White PCKET-C CMA1825 24.0° / 45.0° 90 % 4.4 cd/lm 1 White	



		90*
LED	CMT14xx	
FWHM / FWTM	22.0° / 39.0°	75*
Efficiency	91 %	1000
Peak intensity	5.7 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	- <u> </u>
Required components:		
F17435_HEKLA-G2		
		400
		90 <sup>4</sup>
LED	CMU10xx	
FWHM / FWTM	22.0° / 40.0°	$\square \land \square \land \square \land \square$
Efficiency	91 %	500 500
Peak intensity	5.5 cd/lm	
LEDs/each optic	1	
Light colour	White	43 <sup>2</sup>
Required components:		
F17435_HEKLA-G2	-C	
		30*
		90°
LED	CXA/B 15xx	30°
LED FWHM / FWTM	20.0° / 40.0°	37 37 97
LED FWHM / FWTM Efficiency	20.0° / 40.0° 91 %	90 <sup>-</sup> 32 61 <sup>-</sup> 1000
LED FWHM / FWTM Efficiency Peak intensity	20.0° / 40.0° 91 % 5.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	20.0° / 40.0° 91 % 5.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	20.0° / 40.0° 91 % 5.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	20.0° / 40.0° 91 % 5.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	20.0° / 40.0° 91 % 5.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	20.0° / 40.0° 91 % 5.7 cd/lm 1 White	e.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	20.0° / 40.0° 91 % 5.7 cd/lm 1 White	e.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	20.0° / 40.0° 91 % 5.7 cd/lm 1 White DCKET-D	er er (c) (c) (c) (c) (c) (c) (c) (c) (c) (c)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15256_HEKLA-SC	20.0° / 40.0° 91 % 5.7 cd/lm 1 White DCKET-D	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15256_HEKLA-SC	20.0° / 40.0° 91 % 5.7 cd/lm 1 White DCKET-D	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15256_HEKLA-SC	20.0° / 40.0° 91 % 5.7 cd/lm 1 White DCKET-D	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15256_HEKLA-SC	20.0° / 40.0° 91 % 5.7 cd/lm 1 White DCKET-D DS LUXEON CoB 1202/1203 22.0° / 38.0°	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15256_HEKLA-SC	20.0° / 40.0° 91 % 5.7 cd/lm 1 White DCKET-D DS LUXEON CoB 1202/1203 22.0° / 38.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15256_HEKLA-SC	20.0° / 40.0° 91 % 5.7 cd/lm 1 White DCKET-D DS LUXEON CoB 1202/1203 22.0° / 38.0° 93 % 6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15256_HEKLA-SC	20.0° / 40.0° 91 % 5.7 cd/lm 1 White DCKET-D DS LUXEON CoB 1202/1203 22.0° / 38.0° 93 % 6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15256_HEKLA-SC	20.0° / 40.0° 91 % 5.7 cd/lm 1 White DCKET-D DS LUXEON CoB 1202/1203 22.0° / 38.0° 93 % 6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15256_HEKLA-SC COMPLENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	20.0° / 40.0° 91 % 5.7 cd/lm 1 White DCKET-D DS LUXEON CoB 1202/1203 22.0° / 38.0° 93 % 6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15256_HEKLA-SC	20.0° / 40.0° 91 % 5.7 cd/lm 1 White DCKET-D DS LUXEON CoB 1202/1203 22.0° / 38.0° 93 % 6 cd/lm 1 White	



UMILE	DS	30°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1202HD 22.0° / 36.0° 94 % 6.5 cd/lm	75
LEDs/each optic	1	300
Light colour	White	gr.
Required components		
F15848_HEKLA-SC		20 <sup>4</sup> 22 <sup>3</sup> 0 <sup>4</sup> 22 <sup>3</sup>
	DS	50°
LED	LUXEON CoB 1204/1205	
FWHM / FWTM	25.0 + 24.0° / 45.0 + 46.0°	
Efficiency	92 %	
Peak intensity	4.3 cd/lm	. 200
LEDs/each optic	1	
Light colour	White	94
Required components: Bender Wirth: 632a Hekla XL		200
		90° - 100 - 100
UMILE	DS	34*
	LUXEON CoB 1204HD	
LED		77
LED FWHM / FWTM	LUXEON CoB 1204HD	77
LED FWHM / FWTM Efficiency	LUXEON CoB 1204HD 22.0° / 40.0°	33
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1204HD 22.0° / 40.0° 93 %	37
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1204HD 22.0° / 40.0° 93 % 5.5 cd/lm 1 White	97 69 77 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1204HD 22.0° / 40.0° 93 % 5.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-SC	LUXEON CoB 1204HD 22.0° / 40.0° 93 % 5.5 cd/lm 1 White : DCKET-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-SC	LUXEON CoB 1204HD 22.0° / 40.0° 93 % 5.5 cd/lm 1 White : DCKET-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-SC	LUXEON CoB 1204HD 22.0° / 40.0° 93 % 5.5 cd/lm 1 White CCKET-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-SC	LUXEON CoB 1204HD 22.0° / 40.0° 93 % 5.5 cd/lm 1 White DCKET-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-SC	LUXEON CoB 1204HD 22.0° / 40.0° 93 % 5.5 cd/lm 1 White DCKET-H DCKET-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-SC	LUXEON CoB 1204HD 22.0° / 40.0° 93 % 5.5 cd/lm 1 White CKET-H DCKET-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-SC	LUXEON CoB 1204HD 22.0° / 40.0° 93 % 5.5 cd/lm 1 White CKET-H DS LUXEON CoB 1208 24.0 + 25.0° / 48.0° 92 % 3.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-SC	LUXEON CoB 1204HD 22.0° / 40.0° 93 % 5.5 cd/lm 1 White SOCKET-H DS LUXEON CoB 1208 24.0 + 25.0° / 48.0° 92 % 3.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-SC <b>WIM / FWTM</b> Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1204HD 22.0° / 40.0° 93 % 5.5 cd/lm 1 White DCKET-H DS LUXEON CoB 1208 24.0 + 25.0° / 48.0° 92 % 3.9 cd/lm 1 White :	



UMILE	DS	90** · · · · · · · · · · · · · · · · · ·
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC		51 61 73 75 75 75 75 75 75 75 75 75 75 75 75 75
<b>Μ</b> ΝΙCΗΙΛ		30'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17437_HEKLA-G2		
		125 <sup>°</sup> 0 <sup>4</sup> 115 <sup>°</sup>
PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a	Fortimo SLM L15 CoB 26.0° / 48.0° 90 % 3.8 cd/lm 1 White Hekla XL	
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	LC003D / LC006D / LC009D / LC013D 20.0° / 40.0° 92 % 5.6 cd/lm 1 White	90* 90* 60* 60* 800 800 800 800 800 800 800 800 800 8

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SAMSUI	NG	50° <b>A</b> 50°
LED	LC020T (Tunable white)	
FWHM / FWTM	20.0° / 42.0 + 43.0°	27
Efficiency	91 %	1000
Peak intensity	5.1 cd/lm	
LEDs/each optic	1	
Light colour	White	57° 3230 63°
Required components:		
F15859_HEKLA-SC	CKET-I	26 <sup>4</sup> 12 <sup>5</sup> 0 <sup>4</sup> 25 <sup>5</sup> 26 <sup>4</sup>
		90*
LED	MJT COB LES 14.5	
FWHM / FWTM	26.0° / 51.0°	75
Efficiency	89 %	607
Peak intensity	3.6 cd/lm	
LEDs/each optic	1	
Light colour	White	63 <sup>-</sup> 2130
Required components: F17438_HEKLA-G2	1	34 13 15 15 15
XICATO		90* 90*
LED	XOB 14.5 mm	
FWHM / FWTM	26.0° / 45.0°	73
Efficiency	82 %	60°
Peak intensity	3.8 cd/lm	
LEDs/each optic	1	
Light colour	White	47 <sup>5</sup> 2430 47 <sup>5</sup>
Required components: F17438_HEKLA-G2	1	



#### **GENERAL INFORMATION:**

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

#### **MATERIALS:**

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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