

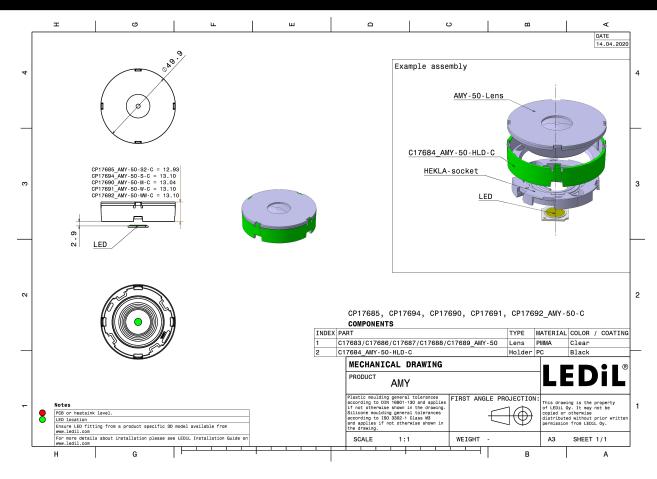
AMY-50-WW-C

~60° wide beam. Assem compatible with LEDiL HEK SPECIFICATION:	bly with holder C LA. Black version.			
Dimensions Height Fastening ROHS compliant	Ø 49.9 mm 13.1 mm socket yes 1	LEDiĽ		
MATERIALS:				
		Material	Colour	Finish
AMY-50-WW AMY-50-HLD-C	Single lens Holder	PMMA PC	clear black	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CP17692_AMY-50-WW-C	510	120	30	8.2
» Box size: 480 x 280 x 300 mm				





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



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 Bender Wirth: 63	
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 F15253_HEKLA	



bridgelux. LED	V6 HD Gen 7		20°
FWHM / FWTM	58.0° / 75.0°		
Efficiency	92 %		60 ⁶
Peak intensity	1.2 cd/lm		
LEDs/each optic	1		
Light colour	White		5.
Required compone	nts:		
F15255_HEKLA	-SOCKET-C		
			31-
bridgelux.		 -	10 ⁵⁷ 0 ⁴⁷ 10 ⁵⁷
LED	V8 Gen 8		
FWHM / FWTM	61.0° / 78.0°		75
Efficiency	93 %		
Peak intensity	1.1 cd/lm		60°-
LEDs/each optic	1		
Light colour	White		g
Required compone			
F15253_HEKLA			×
bridgelux.			
bridgelux. LED	V9 HD Gen7		
	V9 HD Gen7 57.0° / 76.0°		22 <u>9</u> <u>22</u>
LED			
LED FWHM / FWTM	57.0° / 76.0°		
LED FWHM / FWTM Efficiency	57.0° / 76.0° 91 %		
LED FWHM / FWTM Efficiency Peak intensity	57.0° / 76.0° 91 % 1.2 cd/lm		22 <u>0</u> 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	57.0° / 76.0° 91 % 1.2 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts:		201 202 202 202 202 202 202 202 202 202
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts:		201 00 100 100 100 100 100 100 100 100 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts:		310
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts: -SOCKET-I		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts: -SOCKET-I		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA bridgeluX. LED FWHM / FWTM	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts: -SOCKET-I VERO10 58.0° / 77.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA bridgeLUX. LED FWHM / FWTM Efficiency	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts: -SOCKET-I VERO10 58.0° / 77.0° 92 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA bridgelux. LED FWHM / FWTM Efficiency Peak intensity	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts: -SOCKET-I VERO10 58.0° / 77.0°		
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	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts: -SOCKET-I VERO10 58.0° / 77.0° 92 % 1.1 cd/lm 1		
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	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts: -SOCKET-I VERO10 58.0° / 77.0° 92 % 1.1 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts: -SOCKET-I VERO10 58.0° / 77.0° 92 % 1.1 cd/lm 1 White nts:		
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	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts: -SOCKET-I VERO10 58.0° / 77.0° 92 % 1.1 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 76.0° 91 % 1.2 cd/lm 1 White nts: -SOCKET-I VERO10 58.0° / 77.0° 92 % 1.1 cd/lm 1 White nts:		



bridgelux.		90*	90°
LED	Vesta DTW 13mm (21W)		
FWHM / FWTM	53.0° / 78.0°		13.
Efficiency	89 %		60*
Peak intensity	1.2 cd/lm		
LEDs/each optic	1		
Light colour	White	97	45°
Required compone	ents:		
C16142_HEKLA			
Bender Wirth: 49			
		30 ⁺ 1250 127 0 ⁺ 12 ⁺	30°
bridgelux.		90°	90°
LED	Vesta DTW 15mm (33W)		
FWHM / FWTM	52.0° / 78.0°		75*
Efficiency	89 %		
Peak intensity	1.2 cd/lm		60*
LEDs/each optic	1		
Light colour	White	e ^r	45°
Required compone			
C16142_HEKLA			
Bender Wirth: 49			
Dender Wirth. 48			
		30° 15° 0° 15°	36.
bridgelux.		99*	90°
bridgelux. LED	Vesta TW 13mm (18W) DP		90*
	Vesta TW 13mm (18W) DP 54.0° / 80.0°	30*	90° 75°
LED			90° 75° 60°
LED FWHM / FWTM	54.0° / 80.0°		90° 75° 60°
LED FWHM / FWTM Efficiency	54.0° / 80.0° 89 %	99* 75 69* 	90°
LED FWHM / FWTM Efficiency Peak intensity	54.0° / 80.0° 89 % 1.1 cd/lm	99* 75 60* 70 70 70 70	90° 75° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White	99* 99* 60* 60* 60* 60* 60* 60*	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White ints:	91 ⁻ 27 60 ⁻ 400 7- 7- 80	90* 75* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White Ints: SOCKET-K	91 ⁴ 72 61 61 60 60 60 60	90* 75* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White Ints: SOCKET-K		90* 25* 69* 63*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White Ints: SOCKET-K		90° 75° 60° 63°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White Ints: SOCKET-K		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White Ints: IN-SOCKET-K 92 Typ L8		22. 90. 22. 23. 24. 26. 26. 26. 26.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49 bridgeLUX. LED FWHM / FWTM	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K 32 Typ L8 Vesta TW 15mm DP		10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgeLux. LED FWHM / FWTM Efficiency	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White ints: -SOCKET-K 32 Typ L8 Vesta TW 15mm DP 52.0° / 81.0° 89 %		61 25 26 26 26 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 Bender Wirth: 4S bridgeLUX. LED FWHM / FWTM Efficiency Peak intensity	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White ints: -SOCKET-K 32 Typ L8 Vesta TW 15mm DP 52.0° / 81.0°		10 10 10 10 10 10 10 10 10 10 10 10 10 1
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	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White ints: -SOCKET-K 32 Typ L8 Vesta TW 15mm DP 52.0° / 81.0° 89 % 1.1 cd/lm		20 20 20 20 20 20 20 20 20 20 20 20 20 2
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	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White ints: A-SOCKET-K 32 Typ L8 Vesta TW 15mm DP 52.0° / 81.0° 89 % 1.1 cd/lm 1 Tunable White		10 10 10 10 10 10 10 10 10 10 10 10 10 1
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 Required compone	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White ints: INSOCKET-K 92 Typ L8 Vesta TW 15mm DP 52.0° / 81.0° 89 % 1.1 cd/lm 1 Tunable White ints:		10 10 10 10 10 10 10 10 10 10 10 10 10 1
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	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White ints: -SOCKET-K 22 Typ L8 Vesta TW 15mm DP 52.0° / 81.0° 89 % 1.1 cd/lm 1 Tunable White ints: -SOCKET-K		10 10 10 10 10 10 10 10 10 10 10 10 10 1
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 Required compone	54.0° / 80.0° 89 % 1.1 cd/lm 1 Tunable White ints: -SOCKET-K 22 Typ L8 Vesta TW 15mm DP 52.0° / 81.0° 89 % 1.1 cd/lm 1 Tunable White ints: -SOCKET-K		10 10 10 10 10 10 10 10 10 10 10 10 10 1



r			
bridgelux.			90° 90
LED	Vesta TW 6mm DP		
FWHM / FWTM	57.0° / 74.0°		
Efficiency	91 %		
Peak intensity	1.2 cd/lm		
LEDs/each optic	1	and the second se	$ \times / \times \times$
Light colour	Tunable White		ar a
Required compone	ents:		
C16142_HEKLA	A-SOCKET-K		
Bender Wirth: 50	04 Typ L8		
			30 ⁴ 1270 25 ⁴
bridgelux.			90°
LED	Vesta TW 9mm (9W) DP		
FWHM / FWTM	55.0° / 75.0°		
Efficiency	90 %		
Peak intensity	1.2 cd/lm		
LEDs/each optic	1		
Light colour	Tunable White		95*
Required compone	ents:		
C16142_HEKLA			
Bender Wirth: 48			
			15° 0° 15°
I			
CITIZE	N		90*
			9)*
CITIZE	CLL02x/CLU02x (LES10)		95 ⁴ 35 ⁵
LED FWHM / FWTM	CLL02x/CLU02x (LES10)		95 ⁴ 25 ⁴
LED FWHM / FWTM Efficiency	CLL02x/CLU02x (LES10) 57.0° / 77.0°		99* 25 99* 00
LED FWHM / FWTM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 %		99 ⁴ 99 ⁴ 99 ⁴ 90 ⁴ 400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White		90 ⁴ 95 ⁴ 95 ⁴ 95 ⁴ 95 ⁴ 900
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents: A-G2-C		3 ² , 12 ³ , 12 ³ , 22 ³ , 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents: A-G2-C		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents: A-G2-C		135 ⁷ 0 ⁶ 155 ⁸
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents: A-G2-C		135 ⁷ 0 ⁶ 155 ⁸
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents: k-G2-C		135 ⁷ 0 ⁶ 155 ⁸
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA CITTIZE LED FWHM / FWTM	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents: k-G2-C CLL03x/CLU03x 55.0° / 80.0°		135 ⁷ 0 ⁶ 155 ⁸
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA CITTIZE LED FWHM / FWTM Efficiency	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents: A-G2-C N CLL03x/CLU03x 55.0° / 80.0° 90 %		135 ⁷ 0 ⁶ 155 ⁸
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents: A-G2-C CLL03x/CLU03x 55.0° / 80.0° 90 % 1.1 cd/lm		135 ⁷ 0 ⁶ 155 ⁸
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents: A-G2-C 'N CLL03x/CLU03x 55.0° / 80.0° 90 % 1.1 cd/lm 1 White		80% 400 40 32, 22 23
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents: A-G2-C CLL03x/CLU03x 55.0° / 80.0° 90 % 1.1 cd/lm 1 White ents:		80% 400 40 32, 22 23
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents: A-G2-C CLL03x/CLU03x 55.0° / 80.0° 90 % 1.1 cd/lm 1 White ents:		80% 400 40 32, 22 23
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL02x/CLU02x (LES10) 57.0° / 77.0° 91 % 1.1 cd/lm 1 White ents: A-G2-C CLL03x/CLU03x 55.0° / 80.0° 90 % 1.1 cd/lm 1 White ents:		80% 400 40 32, 22 23



CITIZE	N		90° 90°
LED	CLU700/701/702/703		
FWHM / FWTM	58.0° / 75.0°		73*
Efficiency	92 %		
Peak intensity	1.2 cd/lm		60° 60°
LEDs/each optic	1		
Light colour	White		gyr
Required compone			
F17435_HEKLA			
			30° 1200 30*
			15° 0° 15°
CITIZE	Ν		90*
LED	CLU7A2/7A3		
FWHM / FWTM	58.0° / 74.0°		
Efficiency	92 %		60° 400 mm
Peak intensity	1.2 cd/lm		\wedge / / \wedge \wedge \wedge
LEDs/each optic	1		
Light colour	White		φ ² φ ²
Required compone	nts:		
F17435_HEKLA			
			30° 1220 30*
			15° 0° 15°
CITIZE	Ν		90° 90°
LED	CLU7B2		
FWHM / FWTM	58.0° / 73.0°		75.
Efficiency	92 %		400 cot
Peak intensity	1.2 cd/lm		$\wedge / / / \wedge \wedge /$
LEDs/each optic	1		
Light colour	White		g.,
Required compone	nts:		
F17435_HEKLA	-G2-C		
			300 300 300
			15 ⁹ 0 ⁰ 15 ⁹
			90* 90*
LED	CMA1516	And in case of the local division of the loc	73* 75*
FWHM / FWTM	57.0° / 77.0°	1000	
Efficiency	91 %		60° 60°
Peak intensity	1.1 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
F17436_HEKLA	-G2-D		
			30* 1230 36*
			15° 0° 18°



FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CREE > LED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/m LEDs/each optic 1			
EWHM / FWTM 58.0° / 80.0° Efficiency 91 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour While Required components: F15254_HEKLA-SOCKET-B FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour While Required components: F17435_HEKLA-G2-C F17435_HEKLA-G2-1 Image: Colour of the colour			90* 90*
EWHM / FWTM 58.0° / 80.0° Efficiency 91 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: F15254_HEKLA-SOCKET-B CREE\$LED LED CMT14xx FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/m LEDs/each optic 1 LEDs/each opt	LED		
Efficiency 91% Peak intensity 1.1 cd/m LEDP/each optic 1 Light colour White Required components: F15254_HEKLA-SOCKET-B CCEEE CLED LED CMT14xx FWH//FVTM 57.0° /77.0° Efficiency 91% Peak intensity 1.1 cd/m LEDP/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CCEEE CLED LED CMT19xx FWH//FVTM 56.0° /81.0° Efficiency 90% Peak intensity 1.1 cd/m LEDP/each optic 1 Light colour White Required components: F17435_HEKLA-G2-1			13.
Peak intensity 1.1 cd/m LEDSeach optic 1 Light colour White Required components: F15254_HEKLA-SOCKET-B CCREESLED LED CMT14xx EVHM / FVVTM 57.0°/77.0° Efficiency 91% Peak intensity 1.1 cd/m LEDSeach optic 1 Light colour White Required components: F17438_HEKLA-G2-1 F17438_HEKLA-G2-1			
LEDs/each optic 1 Light colour White Required components: F15254_HEKLA-SOCKET-B	-		
Light colour White Required components: F15254_HEKLA-SOCKET-B CREE CLED LED CMT14xx FWHM / FWTM 57.0° / 77.0° Efficiency 91% Peak intensity 1.1 col/m LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CREE CLED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90% Peak intensity 1.1 col/m LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-L			
Required components: F15254_HEKLA-SOCKET-B CCREE CED LED CMT14xx FWHM / FWTM 57.0° 77.0° Efficiency 91 % Peak intensity 1.1 cd/m LEDS/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CCREE CED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/m LEDS/each optic 1 Light colour 1 Light			gr det
F15254_HEKLA-SOCKET-B			
CREE\$LED LED CMT14xx FWHM / FWTM 57.0° / 77.0° Efficiency 91% Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CREE\$LED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90% Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I			
LED CMT14xx FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CREE\$LED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I			
LED CMT14xx FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CREE\$LED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I			30 30
LED CMT14xx FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CREE CED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I			test in the second seco
FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I			90 ⁺ 90 ⁺
Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CREE\$LED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I	LED		75 75
Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CREE\$LED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I			
LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CREE\$LED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I	Efficiency		60* 600
Light colour White Required components: F17435_HEKLA-G2-C CREE LED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I	Peak intensity		
Required components: F17435_HEKLA-G2-C CREE CLED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I			
F17435_HEKLA-G2-C			at a second s
CREECLED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I			
CREE\$LED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I	F17435_HEKLA	-G2-C	
CREE\$LED LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I			
LED CMT19xx FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I			20 ⁴ 120 20 20
FWHM / FWTM 56.0° / 81.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I			2)*
Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I	LED	CMT19xx	
Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I	FWHM / FWTM		
LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I	Efficiency	90 %	
Light colour White Required components: F17438_HEKLA-G2-I	Peak intensity	1.1 cd/lm	
Required components: F17438_HEKLA-G2-I	LEDs/each optic	1	
F17438_HEKLA-G2-I	Light colour	White	
	Required compone	nts:	
34° 32 4° 32	F17438_HEKLA	-G2-I	
30 ⁴ 30 0 ⁴ 30			
			34 ⁴ 35 ⁴ 35 ⁴
			90 [*]
	LED		
	FWHM / FWTM		
	Efficiency	91 %	
			60 ⁴
Peak intensity 1.2 cd/lm			gr ar
Peak intensity 1.2 cd/lm LEDs/each optic 1			84
Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White			
Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:			
Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White			
Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C			30 ¹⁰ 5200 30 ¹ 10 ¹⁰ 0 ¹⁰ 15 ¹⁰



			9	20.4	90*
LED	CXA/B 13xx				
FWHM / FWTM	58.0° / 75.0°		7	75'	
Efficiency	93 %			> N	$\langle \cdot \rangle$
Peak intensity	1.2 cd/lm		e	30° - 400	
LEDs/each optic	1			\times / / –	$\times \Lambda$
Light colour	White		9	e.	65.
Required compone				- 800	
F17439_HEKLA					
				\times \wedge	$\land X$
			э	100	30°
				15° o ^p	15,
			و		90*
LED	CXA/B 15xx		2	75.	3"
FWHM / FWTM	58.0° / 77.0°				$\backslash \land$
Efficiency	92 %		6	50° 400	60.
Peak intensity	1.1 cd/lm				
LEDs/each optic	1			$\times / /$	$\times \Lambda$
Light colour	White		9	5°	da.
Required compone					
F17436_HEKLA	-G2-D				
				\times \wedge	$\land X$
			9	30° 1200	36.
				15% 0%	15*
			9	15 [°] 0°	355
LED	LEDIM/C6		9	75° °°	35°
LED FWHM / FWTM	57.0° / 76.0°		2	137 Ø	35°
LED FWHM / FWTM Efficiency	57.0° / 76.0° 91 %		2	25° 0°	99 25
LED FWHM / FWTM Efficiency Peak intensity	57.0° / 76.0° 91 % 1.1 cd/lm		2	25° 0° 98° 99° 400	22°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	57.0° / 76.0° 91 % 1.1 cd/lm 9		, , ,	135 0° 9° 9°	52°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0° / 76.0° 91 % 1.1 cd/lm 9 White			127 0° 99° 99° 99° 90° 400	10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts:		9 9 9	137 0° 195 195 195 195 195 195 195 195 195 195	25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts:			137 0° 197 197 197 197 197 197 197 197 197 197	35°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts:		, , , ,	137 Ø	32" 99"
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts:			25° (° 25° (°) 25° (°) 25° (°) 25° (°) 25° (°)	32" 39" 99" 99" 99"
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I			g* 400 -	12,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I			25° 400 27° 100 100 100 100 100 100	12,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203			25° 400 27° 100 100 100 100 100 100	10 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203 56.0° / 75.0°			25° 400 27° 100 100 100 100 100 100	12,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 %			25° 400 27° 100 100 100 100 100 100	12,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 % 1.2 cd/lm			25° 400 27° 100 100 100 100 100 100	12,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 % 1.2 cd/lm 1			25° 400 27° 100 100 100 100 100 100	15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 % 1.2 cd/lm 1 White			25° 400 27° 100 100 100 100 100 100	15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 % 1.2 cd/lm 1 White nts:			25° 400 27° 100 100 100 100 100 100	15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 % 1.2 cd/lm 1 White nts:			25° 400 27° 100 100 100 100 100 100	12,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 % 1.2 cd/lm 1 White nts:			25° 400 27° 100 100 100 100 100 100	12°



LUMIL	EDS	59*	90°
LED	LUXEON CoB 1204HD		
FWHM / FWTM	56.0° / 76.0°		75*
Efficiency	91 %		
Peak intensity	1.2 cd/lm		60.
LEDs/each optic	1		
Light colour	White	a.	45°
Required component	nts:		
F17437_HEKLA			
		3/* 2250	36*
	FDS	35° 0° 35°	
		59°	90°
	LUXEON CoB M02/M03	79	75*
FWHM / FWTM	58.0° / 77.0°		
Efficiency Peak intensity	92 %	₩ ⁴	60*
	1.2 cd/lm		
LEDs/each optic	1 White		45*
Light colour			
Required component F17436_HEKLA			
F17430_HEKLA	-02-0		
		36 ⁶ 1230 15 ⁵ 0 ⁵ 15 ⁵	30.
	EDS	5)*	90°
		30'	90*
LUMIL LED FWHM / FWTM	EDS LUXEON CoB S01 58.0° / 75.0°	34* 75*	90* 75*
LED	LUXEON CoB S01	99* 79 10	90°
LED FWHM / FWTM	LUXEON CoB S01 58.0° / 75.0°	99 ⁴ 75 100	804 32.
LED FWHM / FWTM Efficiency	LUXEON CoB S01 58.0° / 75.0° 92 %	35 ⁴	90°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm	54* 75* 57* 57*	90* 75*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White	54* 75* 00* 	90° 75° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts:	54* 75* 6* 6* 60 60	90° 75° 604
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts:	54* 75* 64* 60* 60* 60*	90* 75* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts:		95° 13° 62° 53°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F17439_HEKLA	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts: -G2-J		90° 75° 60° 30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17439_HEKLA	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts: -G2-J		90° 25° 67° 67°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F17439_HEKLA:	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts: -G2-J EDS LUXEON Fusion 12-up (20x24)		90° 27° 60° 30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17439_HEKLA:	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts: -G2-J EDS LUXEON Fusion 12-up (20x24) 56.0° / 78.0°		99° 73° 60° 83° 83°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17439_HEKLA:	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts: -G2-J EDS LUXEON Fusion 12-up (20x24) 56.0° / 78.0° 85 %		90* 75* 60* 35* 25* 25*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17439_HEKLA:	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts: -G2-J EDS LUXEON Fusion 12-up (20x24) 56.0° / 78.0° 85 % 1.1 cd/lm		99* 75* 66* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17439_HEKLA: WIN Efficiency Peak intensity LEDs/each optic	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts: -G2-J EDS LUXEON Fusion 12-up (20x24) 56.0° / 78.0° 85 % 1.1 cd/lm 12		99* 75* 60* 95* 95*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17439_HEKLA: WIM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts: -G2-J EDS LUXEON Fusion 12-up (20x24) 56.0° / 78.0° 85 % 1.1 cd/lm 12 White		99* 73* 60* 93* 95*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17439_HEKLA:	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts: -G2-J EDS LUXEON Fusion 12-up (20x24) 56.0° / 78.0° 85 % 1.1 cd/lm 12 White nts:		90* 73* 90* 90* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17439_HEKLA: WIM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts: -G2-J EDS LUXEON Fusion 12-up (20x24) 56.0° / 78.0° 85 % 1.1 cd/lm 12 White nts: -SOCKET-K		90* 72* 43* 92* 92* 92*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17439_HEKLA:	LUXEON CoB S01 58.0° / 75.0° 92 % 1.2 cd/lm 1 White nts: -G2-J EDS LUXEON Fusion 12-up (20x24) 56.0° / 78.0° 85 % 1.1 cd/lm 12 White nts: -SOCKET-K -RZ-LENS		90* 72* 63* 95* 95*



-		
	.EDS	33*
LED	LUXEON Fusion 21-up (20x24)	
FWHM / FWTM	56.0° / 78.0°	
Efficiency	83 %	
Peak intensity	1 cd/lm	
LEDs/each optic	21	
Light colour	White	gr and a second s
Required compone		
C16142_HEKLA		
F18158_HEKLA		
Bender Wirth: 4	42 Typ L8	30 ⁴ 30 ⁴ 0 ⁴ 13 ⁴
	.EDS	
LED	LUXEON Fusion 27-up (20x24)	
FWHM / FWTM	55.0° / 81.0°	
Efficiency	83 %	
Peak intensity	1 cd/lm	
LEDs/each optic	27	
Light colour	White	gr d
Required compone	ents:	
C16142_HEKLA		
F18158_HEKLA	A-RZ-LENS	
Bender Wirth: 4		
		135 Q ^b 135*
	INUS	90 ⁺
	CTM-14 (Tunable White) Gen2	
		90 ²
LED	CTM-14 (Tunable White) Gen2	
LED FWHM / FWTM	CTM-14 (Tunable White) Gen2 53.0° / 79.0°	
LED FWHM / FWTM Efficiency	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 %	
LED FWHM / FWTM Efficiency Peak intensity	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8 INUS CXM-3 58.0° / 74.0° 92 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8 INUS CXM-3 58.0° / 74.0° 92 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8 INUS CXM-3 58.0° / 74.0° 92 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 53.0° / 79.0° 89 % 1.1 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8 INUS CXM-3 58.0° / 74.0° 92 % 1.2 cd/lm 1 White ents:	



(C) LUM	INUS	50*
LED	CXM-4	
FWHM / FWTM	58.0° / 74.0°	
Efficiency	92 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr a
Required compone	ents:	
F17435_HEKLA	A-G2-C	
		904 129 00 120 1
ØNICHI	N Contraction of the second se	50 ⁴
LED	COB L-Type (LES 11)	
FWHM / FWTM	56.0° / 78.0°	
Efficiency	91 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr a
Required compone	ents:	
F17437_HEKLA	A-G2-H	
		30 ⁴ 12 ⁵ / ₁₀ 25 ⁴
-1		
ØNICHI∕		50 ⁴ 9
	COB L-Type (LES 9)	
		9 ³⁴ 9 75 2
LED	COB L-Type (LES 9)	90° 9
LED FWHM / FWTM	COB L-Type (LES 9) 57.0° / 76.0°	95° 9 75' 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents:	95° 9 25 5° 00 - 6 5° 00 - 6 5° 00 - 6 5° 00 - 6 0 - 7 0 - 7 0 - 7 0 - 7 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0°	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 %	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0°	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 % 1.1 cd/lm 1	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 % 1.1 cd/lm 1 White	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:	15 ⁵ d ⁵ 55 ⁵



PHILI	DS	93 ⁴
LED	Fortimo SLM L09 CoB	
FWHM / FWTM	56.0° / 76.0°	32. 24.
Efficiency	91 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr gr
Required compone	ents:	
F17437_HEKLA		
		36 2250 34
0.0.0.0		100 ¹ 0 ¹ 100 ¹
SAMS	UNG	5)*
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	57.0° / 77.0°	
Efficiency	91 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	er et
Required compone	ents:	
F17435_HEKLA	A-G2-C	
		30" 30
SAMS		
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	56.0° / 82.0°	
Efficiency	90 %	605- 605
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F17438_HEKLA	4-62-1	
		20 ² 0 ² 23 ² 0 ²
SAMSI	ING	90 [*]
LED	LC030C/040C G2	
FWHM / FWTM	56.0° / 78.0°	
Efficiency	91 %	
Peak intensity	1.1 cd/lm	60°
LEDs/each optic	1	
Light colour	White	er la
Required compone		
F17438_HEKLA		
1		30" 12" 1200 12"



SEOUL			
SEOUL SEMICONDUCTOR			90° 90°
LED	MJT COB LES 14.5		
FWHM / FWTM	56.0° / 82.0°		
Efficiency	90 %		50 ⁴
Peak intensity	1.1 cd/lm		400
LEDs/each optic	1		
Light colour	White		45*
Required compone	ents:		
F17438_HEKLA			
			15° 0° 15°
SEOUL			90° 90°
SEOUL SEMICONDUCTOR	MJT COB LES 6		
EED FWHM / FWTM	58.0° / 75.0°		75*
	92 %		
Efficiency			605 605
Peak intensity	1.2 cd/lm		
LEDs/each optic	1		m ²
Light colour	White		
Required compone			
F17435_HEKLA	-62-6		
			36° 3255 36°
SEOUL SEMICONDUCTOR			90° 90°
	MJT COB LES 9.8		
	NOT COD LEG 5.0		75°
I FWHM / FWTM	57 0° / 77 0°		
FWHM / FWTM Efficiency	57.0° / 77.0° 92 %		
Efficiency	92 %		601 602
Efficiency Peak intensity	92 % 1.1 cd/lm		9° - 40 - 6°
Efficiency Peak intensity LEDs/each optic	92 % 1.1 cd/lm 1		6 ⁴ 6 ⁴
Efficiency Peak intensity LEDs/each optic Light colour	92 % 1.1 cd/lm 1 White		6 ⁴ 6 ⁴
Efficiency Peak intensity LEDs/each optic Light colour Required compone	92 % 1.1 cd/lm 1 White ents:		57° 600 60°
Efficiency Peak intensity LEDs/each optic Light colour	92 % 1.1 cd/lm 1 White ents:		60 ¹ 60 ² 60 ²
Efficiency Peak intensity LEDs/each optic Light colour Required compone	92 % 1.1 cd/lm 1 White ents:		6 ¹ 6 ¹
Efficiency Peak intensity LEDs/each optic Light colour Required compone	92 % 1.1 cd/lm 1 White ents:		5°° 400 6°° 5°° 6°° 6°° 3°° 5°° 5°° 5°°
Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	92 % 1.1 cd/lm 1 White ents: -G2-C		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	92 % 1.1 cd/lm 1 White ents: -G2-C		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM	92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0°		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency	92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 %		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity	92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 % 1.1 cd/lm		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 % 1.1 cd/lm 1		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	92 % 1.1 cd/lm 1 White white -G2-C SLE G7 LES09 57.0° / 76.0° 92 % 1.1 cd/lm 1 White		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:		



TRIDON	IIC	90 ⁴
LED FWHM / FWTM Efficiency	SLE G7 LES13 56.0° / 80.0° 90 %	8
Peak intensity LEDs/each optic	1.1 cd/lm 1	
Light colour	White	æ.
Required compone F17438_HEKLA		34 ⁴ 15 ⁷ 15 ⁶ 13 ⁷
TRIDOM	lic	50 ⁺
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	SLE G7 LES15 55.0° / 81.0° 90 % 1.1 cd/lm 1 White nts:	37 67 60 79 100
Į		



bridgelux.		90°
LED	V3 HD Gen 8	
FWHM / FWTM	58.0 + 60.0° / 76.0°	
Efficiency	94 %	50° 400 50°
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	d2
Required components:		
F15253_HEKLA-SO	CKET-A	
		30° 30° 30° 30°
bridgelux.		90° 90°
LED	V3 HD Gen 8 FC	
FWHM / FWTM	62.0 + 63.0° / 76.0°	23.
Efficiency	93 %	
Peak intensity	1.1 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	g*
Required components:		
F15255_HEKLA-SO	CKET-C	200
		30° 30° 30°
bridgelux.		99 ⁴ 90 ⁴ 90 ⁴
bridgelux. LED	V4 HD Gen 8	90 ⁴ 90 ⁴ 90 ⁴
LED	V4 HD Gen 8 60.0° / 76.0°	37 37 37 37 37 37 37 37 37 37
LED FWHM / FWTM		
LED FWHM / FWTM Efficiency	60.0° / 76.0° 94 %	25 ⁴
LED FWHM / FWTM Efficiency Peak intensity	60.0° / 76.0° 94 % 1.2 cd/lm	00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	60.0° / 76.0° 94 % 1.2 cd/lm 1	2. 9. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 76.0° 94 % 1.2 cd/lm	2. 00 05, 3. 30, 30, 30, 30, 30, 30, 30, 30,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 76.0° 94 % 1.2 cd/lm 1 White	31 32 32 32 34 32 32 32 35 32 32 32 37 30 92 32 37 30 92 32 37 30 92 32 37 30 92 32
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 76.0° 94 % 1.2 cd/lm 1 White	20 ¹ 25 ¹ 0 ² 15 ¹ 2 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 76.0° 94 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 76.0° 94 % 1.2 cd/lm 1 White	22, 0, 12, 0, 12, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	60.0° / 76.0° 94 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	60.0° / 76.0° 94 % 1.2 cd/lm 1 White CKET-A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	60.0° / 76.0° 94 % 1.2 cd/lm 1 White CKET-A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	60.0° / 76.0° 94 % 1.2 cd/lm 1 White CKET-A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	60.0° / 76.0° 94 % 1.2 cd/lm 1 White CKET-A V6 Gen 8 62.0° / 77.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgetux. LED FWHM / FWTM Efficiency Peak intensity	60.0° / 76.0° 94 % 1.2 cd/lm 1 White CKET-A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	60.0° / 76.0° 94 % 1.2 cd/lm 1 White CKET-A V6 Gen 8 62.0° / 77.0° 93 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 76.0° 94 % 1.2 cd/lm 1 White CKET-A V6 Gen 8 62.0° / 77.0° 93 % 1.1 cd/lm	99° 99° 99° 99° 99° 99° 99° 99° 99° 99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgetux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 76.0° 94 % 1.2 cd/lm 1 White CKET-A V6 Gen 8 62.0° / 77.0° 93 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 76.0° 94 % 1.2 cd/lm 1 White CKET-A V6 Gen 8 62.0° / 77.0° 93 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC bridgetux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 76.0° 94 % 1.2 cd/lm 1 White CKET-A V6 Gen 8 62.0° / 77.0° 93 % 1.1 cd/lm 1 White	



bridgelux.		90* 90*
LED	V6 HD Gen 8	75°
FWHM / FWTM	60.0° / 77.0 + 76.0°	
Efficiency	93 %	60° 400 60°
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	42. 42.
Required components:		800
F15255_HEKLA-SO	CKET-C	
		36* 35* 36*
bridgelux.		90* 90*
LED	V8 Gen7	
FWHM / FWTM	61.0° / 78.0°	75*
Efficiency	90 %	
Peak intensity	1.1 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	gr da
Required components:	THE STREET	
F15253_HEKLA-SO	CKET-A	
		30*
		15° 0° 15°
bridgelux.		804 804 804 804 804 804 804 804 804 804
bridgelux. LED	V9 HD Gen 8	90°
	V9 HD Gen 8 60.0° / 78.0 + 77.0°	20° 0° 10° 20° 0° 20°
LED		99 ⁵ 73 ⁷ 73 ⁷ 75 ⁷ 75 ⁷ 75 ⁷ 75 ⁷ 75 ⁷
LED FWHM / FWTM	60.0° / 78.0 + 77.0°	60° 00° 00° 00° 00° 00° 00° 00° 00° 00°
LED FWHM / FWTM Efficiency	60.0° / 78.0 + 77.0° 92 %	50° 50° 50° 60° 60° 60° 60° 60° 60° 60° 60° 60° 6
LED FWHM / FWTM Efficiency Peak intensity	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm	40. 90. 30. 90. 30. 90.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1	60* 60 50* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White	92* 92* 92*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White	23 6 12 39 60 62 400 62 62 90 60 62
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White	90. 90. 90. 90. 90. 90. 90. 90.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOU	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White	257 0 ⁴ 12 ⁴ 99 ⁵ 90 ⁶ 90 ⁷ 99 ⁵ 00 90 ⁷ 99 ⁵ 00 90 ⁷ 99 ⁶ 00 90 ⁷ 99 ⁶ 00 90 ⁷ 99 ⁶ 00 90 ⁷ 99 ⁷ 00 00 ⁷ 99 ⁶ 00 00 ⁷ 99 ⁷ 00 ⁷ 00 ⁷ 99 ⁶ 00 ⁷ 00 ⁷ 99 ⁷ 00 ⁷ 00 ⁷ 99 ⁷ 00 ⁷ 00 ⁷ 99 ⁷ 00 ⁷ 00 ⁷
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOG	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I	304 304 304 304 304 304 304 304 304 304 304 304 305 304 306 305 306 305 307 305 308 305 309 305 300 305 305 305 306 305 307 305 308 305 309 305 300 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305 305
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOG	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I	32 34 35 36 36 36 36 36 36 36 36 36 36
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOO	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOU bridgeLux. LED FWHM / FWTM Efficiency	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 %	37 37 39 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOU bridgelux. LED FWHM / FWTM Efficiency Peak intensity	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 % 0.9 cd/lm	32 34 35 36 36 36 36 36 36 36 36 36 36
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOU bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 % 0.9 cd/lm 1	32 34 35 36 36 36 36 36 36 36 36 36 36
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOU bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 % 0.9 cd/lm	32 34 35 36 36 36 36 36 36 36 36 36 36
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOU bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 % 0.9 cd/lm 1 White	32 34 35 36 36 36 36 36 36 36 36 36 36
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOU bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 % 0.9 cd/lm 1 White	37 37 39 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOU bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 % 0.9 cd/lm 1 White	32 34 35 36 36 36 36 36 36 36 36 36 36



bridgelux.		90* 90*
LED	Vesta DTW 6mm	
FWHM / FWTM	60.0° / 76.0°	75°
Efficiency	93 %	
Peak intensity	1.2 cd/lm	60° - 400 - 60°
LEDs/each optic	1	
Light colour	White	47°
Required components: Bender Wirth: 652b		
Bender Wirth. 0520		
		30° 1200 30° 35°
bridgelux.		50*
LED	Vesta DTW 9mm (4W/6W/12W)	
FWHM / FWTM	58.0 + 59.0° / 76.0 + 77.0°	75*
Efficiency	93 %	
-		60° 60°
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	gr
Light colour	White	
Required components:		
Bender Wirth: 652b	Hekla	
		30 ⁶ 1230 30 ⁶
CITIZEN		7 5
CITIZEN		95° 90°
LED	CLU712/713	75
	CLU712/713 59.0° / 77.0°	20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency	CLU712/713	60 60 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM	CLU712/713 59.0° / 77.0°	8 ⁴ 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency	CLU712/713 59.0° / 77.0° 90 %	84 95 96 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm	27 27 27 27 27 27 27 27 27 27 27 27 27 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	27 27 27 27 27 27 27 27 27 27 27 27 27 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	27 27 27 27 27 27 27 27 27 27 27 27 27 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	21 25 27 27 27 27 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	2 ¹⁰ 122 24
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	2 ¹⁰ 122 X.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	2 ¹⁰ 122 X.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -I CXA/B 1830 58.0° / 82.0°	90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -I CXA/B 1830 58.0° / 82.0° 89 %	90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -I CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm	90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -I CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm 1	90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -I CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm 1 White	90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2 CREEC_LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -1 CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm 1 White	90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -1 CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm 1 White	200 - 200 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2 CREEC_LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -1 CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm 1 White	200 - 200 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2 CREEC_LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -1 CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm 1 White	200 - 200 -



UMILE	DS	39 ⁴
LED	LUXEON CoB 1202/1203	75
FWHM / FWTM	58.0° / 76.0 + 78.0°	
Efficiency	92 %	9 ⁴
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	or the second se
Required components		
F15858_HEKLA-S	OCKET-H	
		30 ⁶ 1200 30 10 ⁷ 0 ⁷ 12 ⁵
	DS	<u>22</u>
LED	LUXEON CoB 1202HD	
FWHM / FWTM	60.0° / 76.0°	
Efficiency	93 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	9
Required components	5:	
F15848_HEKLA-S	OCKET-G	
		34
	ns	135 <u>156</u> 135.
		90 ⁴ 9
LED FWHM / FWTM	LUXEON CoB 1204/1205 57.0° / 80.0°	
Efficiency	92 %	
	92 % 1.1 cd/lm	60 ⁶
Peak intensity LEDs/each optic	1	
Light colour	White	
Required components		
ricquireu component.		
Bender Wirth: 632;		
Bender Wirth: 632a		
Bender Wirth: 632a		
	a Hekla XL	940
Bender Wirth: 632a	a Hekla XL	20 ⁴ 20 ³ 20 ³
	a Hekla XL	
🖉 LUMILE	a Hekla XL	
	B Hekla XL DS LUXEON CoB 1208	
ED FWHM / FWTM Efficiency Peak intensity	EDS LUXEON CoB 1208 57.0 + 56.0° / 82.0°	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	EDS LUXEON CoB 1208 57.0 + 56.0° / 82.0° 92 %	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	a Hekla XL EDS LUXEON CoB 1208 57.0 + 56.0° / 82.0° 92 % 1.1 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	a Hekla XL EDS LUXEON CoB 1208 57.0 + 56.0° / 82.0° 92 % 1.1 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	a Hekla XL IDS LUXEON CoB 1208 57.0 + 56.0° / 82.0° 92 % 1.1 cd/lm 1 White S:	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	a Hekla XL IDS LUXEON CoB 1208 57.0 + 56.0° / 82.0° 92 % 1.1 cd/lm 1 White S:	



Μ ΝΙCΗΙΛ		20° 200
LED FWHM / FWTM	COB S-Type (LES 7) 62.0° / 78.0°	
Efficiency	89 %	600 60
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required component		
Bender Wirth: 652	анекіа	
		30° 0° 10°
OSRAM Opto Semiconductors		99 ⁴
LED	Soleriq S15	
FWHM / FWTM	58.0° / 83.0°	72'
Efficiency	89 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required component	ts:	
F17438_HEKLA-G	G2-I	
		30"
TRIDON		100 / 100 /
LED	SLE SNC8 LES06	
FWHM / FWTM	58.0° / 76.0 + 74.0°	72
Efficiency	93 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required component		
F17435_HEKLA-0		
		2 ³⁰ 12 ³ 0 ⁴ 12 ³



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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