

PRODUCT DATASHEET CP17690_AMY-50-M-C

AMY-50-M-C

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

SPECIFICATION:

Dimensions	Ø 49.9 mm
Height	13.1 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIALS:

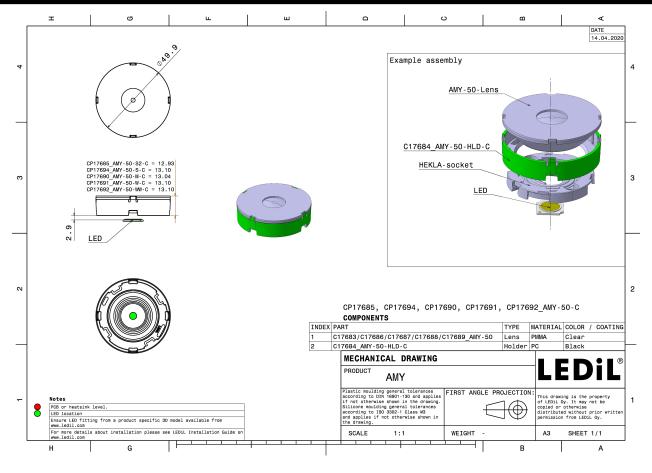
Component	Туре	Material	Colour	Finish
AMY-50-M	Single lens	PMMA	clear	
AMY-50-HLD-C	Holder	PC	black	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CP17690_AMY-50-M-C	510	120	30	9.1
» Box size: 480 x 280 x 300 mm				



PRODUCT DATASHEET CP17690_AMY-50-M-C



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: 6	
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.		90*
LED	V6 HD Gen 7	
FWHM / FWTM	24.0° / 43.0°	73.
Efficiency	91 %	
Peak intensity	4.2 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	97°
Required componer		
F15255_HEKLA-		330
		dv 15° 0° 15° 30
bridgelux.		30°* 30°
LED	V8 Gen 8	
FWHM / FWTM	25.0° / 46.0°	73
Efficiency	92 %	
Peak intensity	3.8 cd/lm	50°
LEDs/each optic	1	
Light colour	White	45 ⁻ 2430, 47 ⁻
Required componer		
F15253_HEKLA-		
		30" 4000 30" 15" 0 ⁶ 15"
bridgelux.		50° 50°
bridgelux. LED	V9 HD Gen7	90°
bridgelux. LED FWHM / FWTM	V9 HD Gen7 25.0° / 46.0°	22. 26. 26.
LED FWHM / FWTM		20 21 24 26 26 26 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency	25.0° / 46.0°	60 ⁴ 90 ⁴ 95 ⁴
LED FWHM / FWTM	25.0° / 46.0° 90 %	60° 60°
LED FWHM / FWTM Efficiency Peak intensity	25.0° / 46.0° 90 % 3.8 cd/lm	gr 600 75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	25.0° / 46.0° 90 % 3.8 cd/lm 1 White	60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	25.0° / 46.0° 90 % 3.8 cd/lm 1 White nts:	e. 200 51 52 52 52 52 52 52 52 52 52 52
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	25.0° / 46.0° 90 % 3.8 cd/lm 1 White nts:	27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	25.0° / 46.0° 90 % 3.8 cd/lm 1 White nts:	77° 00 77° 60° 60° 60° 60° 500 60° 500 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	25.0° / 46.0° 90 % 3.8 cd/lm 1 White nts:	90 97 97 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	25.0° / 46.0° 90 % 3.8 cd/lm 1 White nts:	77° 00 77° 60° 60° 60° 60° 500 60° 500 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA-	25.0° / 46.0° 90 % 3.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA-	25.0° / 46.0° 90 % 3.8 cd/m 1 White nts: SOCKET-I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA-	25.0° / 46.0° 90 % 3.8 cd/m 1 White nts: SOCKET-I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA- bridgelux. LED FWHM / FWTM	25.0° / 46.0° 90 % 3.8 cd/m 1 White nts: SOCKET-I VERO10 25.0° / 47.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA- bridgeLUX. LED FWHM / FWTM Efficiency	25.0° / 46.0° 90 % 3.8 cd/lm 1 White hts: SOCKET-I VERO10 25.0° / 47.0° 90 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA- DFUTGGELUX. LED FWHM / FWTM Efficiency Peak intensity	25.0° / 46.0° 90 % 3.8 cd/lm 1 White hts: SOCKET-I VERO10 25.0° / 47.0° 90 % 3.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA- DFUTGGELUX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	25.0° / 46.0° 90 % 3.8 cd/m 1 White hts: SOCKET-I VERO10 25.0° / 47.0° 90 % 3.6 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA- bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	25.0° / 46.0° 90 % 3.8 cd/lm 1 White hts: SOCKET-I VERO10 25.0° / 47.0° 90 % 3.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA- bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	25.0° / 46.0° 90 % 3.8 cd/lm 1 White hts: SOCKET-I VERO10 25.0° / 47.0° 90 % 3.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA- bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	25.0° / 46.0° 90 % 3.8 cd/lm 1 White hts: SOCKET-I VERO10 25.0° / 47.0° 90 % 3.6 cd/lm 1 White hts:	



bridgelux.		90° 90°
LED	Vesta DTW 13mm (21W)	
FWHM / FWTM	30.0° / 57.0°	
Efficiency	86 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gr av
Required compone	ents:	
C16142_HEKLA		
Bender Wirth: 4		
		316 337
bridgelux.		90 ⁴
LED	Vesta DTW 15mm (33W)	31 21
FWHM / FWTM	29.0° / 58.0°	
Efficiency	86 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	a, a,
Required compone		
C16142_HEKLA	-SOCKET-K	
Bender Wirth: 4	91 Typ L8	
		30° 555 50°
bridgelux.		90 ⁴ 90 ⁴
LED	Vesta TW 13mm (18W) DP	
FWHM / FWTM	29.0° / 58.0°	
Efficiency	87 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic		
	1	
Light colour	1 Tunable White	er det
Light colour Required compone	Tunable White	gr - 100 - 01
Required compone	Tunable White	gr
Required compone C16142_HEKLA	Tunable White ints: -SOCKET-K	
Required compone	Tunable White ints: -SOCKET-K	
Required compone C16142_HEKL/ Bender Wirth: 4	Tunable White ints: -SOCKET-K	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Required compone C16142_HEKLA Bender Wirth: 4	Tunable White Ints: I-SOCKET-K 92 Typ L8	
Required compone C16142_HEKLA Bender Wirth: 4 bridgelux. LED	Tunable White Ints: I-SOCKET-K 92 Typ L8 Vesta TW 15mm DP	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Required compone C16142_HEKLA Bender Wirth: 4 bridgelux, LED FWHM / FWTM	Tunable White Ints: I-SOCKET-K 32 Typ L8 Vesta TW 15mm DP 32.0° / 63.0°	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Required compone C16142_HEKLA Bender Wirth: 4 bridgelux. LED FWHM / FWTM Efficiency	Tunable White Ints: INSOCKET-K 92 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 %	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Required compone C16142_HEKLA Bender Wirth: 4 bridgelux, LED FWHM / FWTM Efficiency Peak intensity	Tunable White Ints: IN-SOCKET-K 92 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Required compone C16142_HEKLA Bender Wirth: 4 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Tunable White Ints: INSOCKET-K 92 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm 1	20- 20- 20- 20-
Required compone C16142_HEKLA Bender Wirth: 4 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Tunable White Ints: INSOCKET-K 92 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm 1 Tunable White	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Required compone C16142_HEKLA Bender Wirth: 4 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Tunable White Ints: INFSOCKET-K 22 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm 1 Tunable White Ints:	
Required compone C16142_HEKLA Bender Wirth: 4 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	Tunable White Ints: INSOCKET-K 22 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm 1 Tunable White Ints: INSOCKET-K	20-
Required compone C16142_HEKLA Bender Wirth: 4 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Tunable White Ints: INSOCKET-K 22 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm 1 Tunable White Ints: INSOCKET-K	
Required compone C16142_HEKLA Bender Wirth: 4 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	Tunable White Ints: INSOCKET-K 22 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm 1 Tunable White Ints: INSOCKET-K	



bridgelux.		9y* 9y
LED	Vesta TW 6mm DP	
FWHM / FWTM	24.0° / 43.0°	
Efficiency	90 %	
Peak intensity	4.1 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
Bender Wirth: 5	04 Typ L8	
bridgelux.		90 ⁴
LED	Vesta TW 9mm (9W) DP	8
FWHM / FWTM	25.0° / 47.0°	
Efficiency	89 %	
Peak intensity	3.6 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	
Required compone		
C16142_HEKLA		
Bender Wirth: 4	89 Тур L8	
		30° 50 50°
CITIZE	N	59'
LED	CLL02x/CLU02x (LES10)	
FWHM / FWTM	25.0° / 48.0°	70
Efficiency	89 %	
Peak intensity	3.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	200
F17435_HEKLA		
		220
CITIZE	'N	
LED	CLL03x/CLU03x	
FWHM / FWTM	29.0° / 58.0°	
Efficiency	87 %	9
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	4 ⁴
Required compone		
F17438_HEKLA	N-G2-I	
		304
		15° 0° 15°

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CITIZE	N	30° 30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CLU700/701/702/703 24.0° / 43.0° 90 % 4.1 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CLU7A2/7A3 24.0° / 40.0° 90 % 4.4 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CLU7B2 24.0° / 39.0° 91 % 4.6 cd/lm 1 White ents:	
CREE LEC FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17436_HEKLA	CMA1516 25.0° / 47.0° 90 % 3.6 cd/lm 1 White ents:	



			900
LED	 CMA1825		
FWHM / FWTM	27.0° / 54.0°		75
Efficiency	89 %		
Peak intensity	2.8 cd/lm		
LEDs/each optic	1		
Light colour	White		45* 45
Required compone			
F15254_HEKLA			2430
			30° 30
			90 ⁴ 90
LED	CMT14xx		
FWHM / FWTM	25.0° / 48.0°		73
Efficiency	89 %		
Peak intensity	3.5 cd/lm		60.0
LEDs/each optic	1		1600
Light colour	White		er e
Required compone			2430
F17435_HEKLA			
_			2230
	D		90* <u>90</u>
	CMT19xx		
			25
LED	CMT19xx		
LED FWHM / FWTM	CMT19xx 29.0° / 58.0°		
LED FWHM / FWTM Efficiency	CMT19xx 29.0° / 58.0° 87 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White		și a
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White ints:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White ints:		și a
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White ints:		și a
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White ints:		și a
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White Ints: -G2-I		și a
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White Ints: -G2-I		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White Ints: -G2-I CXA/B 13xx		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White Ints: -G2-I		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White Ints: -G2-I CXA/B 13xx 24.0° / 42.0° 91 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White Ints: -G2-I CXA/B 13xx 24.0° / 42.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White Ints: -G2-I CXA/B 13xx 24.0° / 42.0° 91 % 4.3 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White onts: -G2-I CXA/B 13xx 24.0° / 42.0° 91 % 4.3 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White onts: -G2-I CXA/B 13xx 24.0° / 42.0° 91 % 4.3 cd/lm 1 White white		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White onts: -G2-I CXA/B 13xx 24.0° / 42.0° 91 % 4.3 cd/lm 1 White white		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT19xx 29.0° / 58.0° 87 % 2.4 cd/lm 1 White onts: -G2-I CXA/B 13xx 24.0° / 42.0° 91 % 4.3 cd/lm 1 White white		



	D	90°
LED	CXA/B 15xx	
FWHM / FWTM	25.0° / 46.0°	78'
Efficiency	90 %	
Peak intensity	3.7 cd/lm	69* (61)
LEDs/each optic	1	
Light colour	White	at a
Required compone		
F17436_HEKLA		
		30"
		15° 4000 15°
LEDIM		30" 30"
LED	LEDIM/C6	
FWHM / FWTM	26.0° / 46.0°	
Efficiency	90 %	
Peak intensity	3.8 cd/lm	
LEDs/each optic	9	
Light colour	White	er- 2000
Required compone	ents:	
F17438_HEKLA	-G2-I	20
		30"
<i>M</i>	EDC	23 ⁷ 0 ⁴ 13 ⁹
LUMIL	EDS	50° 50°
LED	LUXEON CoB 1202/1203	75
FWHM / FWTM	25.0° / 46.0°	
Efficiency	89 %	
Peak intensity	3.6 cd/lm	
LEDs/each optic	1	
Light colour	White	47* 40
Required compone		
F17437_HEKLA	л-G2-Н	200
		\times / \vee \times
		30° 30 137 - 60° - 137
	EDS	50°
LED	LUXEON CoB 1204HD	
LED FWHM / FWTM		73
Efficiency	25.0° / 47.0° 89 %	
Peak intensity LEDs/each optic	3.6 cd/lm 1	
LEDs/each optic	White	
Required compone		- 202
F17437_HEKLA		
FII431_HEKLA	-02-11	300
		\times / \vee \setminus λ
		20 ⁴ 20 ⁷ 40 ₀₀ 20 ⁷



COMIL		
	EDS	50° 51°
LED	LUXEON CoB M02/M03	
FWHM / FWTM	25.0° / 47.0°	
Efficiency	90 %	
Peak intensity	3.7 cd/lm	
LEDs/each optic	1	
Light colour	White	er 200
Required compone	nts:	
F17436_HEKLA	-G2-D	
		20
		304 315
	EDS	1 207
		50° 50°
	LUXEON CoB S01	75'
FWHM / FWTM	24.0° / 42.0°	
Efficiency	91 %	60°
Peak intensity LEDs/each optic	4.3 cd/lm 1	
Light colour	White	
Required compone F17439_HEKLA		
T TT459_HEREA	-62-0	
		\times / \vee \setminus λ
		30° 155 0° 55°
UMIL	.EDS	50 ⁴ 30 ⁴
COLUMIL	EDS LUXEON Fusion 12-up (20x24)	<u>50'</u>
		72
LED	LUXEON Fusion 12-up (20x24)	90 ⁴ 99 ⁷
LED FWHM / FWTM	LUXEON Fusion 12-up (20x24) 25.0° / 47.0°	72
LED FWHM / FWTM Efficiency	LUXEON Fusion 12-up (20x24) 25.0° / 47.0° 83 %	72
LED FWHM / FWTM Efficiency Peak intensity	LUXEON Fusion 12-up (20x24) 25.0° / 47.0° 83 % 3.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Fusion 12-up (20x24) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LUXEON Fusion 12-up (20x24) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White mts: -SOCKET-K	73 - 75 - 75 - 75 - 75 - 75 - 75 - 75 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA	LUXEON Fusion 12-up (20x24) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White Ints: INSOCKET-K -RZ-LENS	73 - 75 - 75 - 75 - 75 - 75 - 75 - 75 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LUXEON Fusion 12-up (20x24) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White Ints: INSOCKET-K -RZ-LENS	73 - 75 - 75 - 75 - 75 - 75 - 75 - 75 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA	LUXEON Fusion 12-up (20x24) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White Ints: INSOCKET-K INSOCKET-K INSOCKET-K INSOCKET-K INSOCKET-K INSOCKET-K	
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) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White Ints: INSOCKET-K INSOCKET-K INSOCKET-K INSOCKET-K INSOCKET-K INSOCKET-K	
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) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White Ints: -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) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White I2 White Mite Mite Mite Mite Mite Mite Mite 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) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White Ints: -SOCKET-K -RZ-LENS 42 Typ L8 .EDS LUXEON Fusion 21-up (20x24) 26.0° / 48.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44 COMPARENTIC LED FWHM / FWTM Efficiency	LUXEON Fusion 12-up (20x24) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White Ints: -SOCKET-K -RZ-LENS 42 Typ L8 EDS LUXEON Fusion 21-up (20x24) 26.0° / 48.0° 82 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA F18158_HEKLA Bender Wirth: 44 CONTINUAL Efficiency Peak intensity LEDs/each optic	LUXEON Fusion 12-up (20x24) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White I2 White M	
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) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White mts: -SOCKET-K -RZ-LENS 42 Typ L8 EDS LUXEON Fusion 21-up (20x24) 26.0° / 48.0° 82 % 3 cd/lm 21 White	
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) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White I2 White White White EDS LUXEON Fusion 21-up (20x24) 26.0° / 48.0° 82 % 3 cd/lm 21 White IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
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	LUXEON Fusion 12-up (20x24) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White I2 White M-SOCKET-K -RZ-LENS 42 Typ L8 EDS LUXEON Fusion 21-up (20x24) 26.0° / 48.0° 82 % 3 cd/lm 21 White IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
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) 25.0° / 47.0° 83 % 3.2 cd/lm 12 White I2 White White White SOCKET-K -RZ-LENS LUXEON Fusion 21-up (20x24) 26.0° / 48.0° 82 % 3 cd/lm 21 White mts: -SOCKET-K -RZ-LENS	



UMIL	.EDS	50°
LED	LUXEON Fusion 27-up (20x24)	
FWHM / FWTM	29.0° / 55.0°	8
Efficiency	80 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	27	
Light colour	White	g.
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
F18158_HEKLA	-RZ-LENS	
Bender Wirth: 44	42 Typ L8	30* <u>300</u> 10* 0* 12*
	INUS	50*
LED	CXM-3	
FWHM / FWTM	24.0° / 40.0°	
Efficiency	91 %	601 2000
Peak intensity	4.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F17435_HEKLA	-G2-C	
		30* <u>400</u> 25 [°] 0* 15*
(C LUM	INUS	50°
	CXM-4	50*
~		35*
LED	CXM-4	39* 725 60*
LED FWHM / FWTM	CXM-4 24.0° / 40.0°	39* 75 60* 500
LED FWHM / FWTM Efficiency	CXM-4 24.0° / 40.0° 91 %	39' 75' 69' 100
LED FWHM / FWTM Efficiency Peak intensity	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm	39' 77 691 - 100 74
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White	59* 57 57 57 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents:	5.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents:	5.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents:	5.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents: -G2-C	5° 30'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents: -G2-C	er. 30' (10) 30' (10)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents: -G2-C	5° 5° 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents: -G2-C COB L-Type (LES 11)	er. 30' (10) 30' (10)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents: -G2-C COB L-Type (LES 11) 27.0° / 52.0°	5° 5° 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents: -G2-C COB L-Type (LES 11) 27.0° / 52.0° 88 %	5° 5° 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents: -G2-C COB L-Type (LES 11) 27.0° / 52.0° 88 % 3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White onts: -G2-C COB L-Type (LES 11) 27.0° / 52.0° 88 % 3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents: -G2-C COB L-Type (LES 11) 27.0° / 52.0° 88 % 3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents: -G2-C COB L-Type (LES 11) 27.0° / 52.0° 88 % 3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CXM-4 24.0° / 40.0° 91 % 4.5 cd/lm 1 White ents: -G2-C COB L-Type (LES 11) 27.0° / 52.0° 88 % 3 cd/lm 1 White ents:	



ØNICHI/		90* 90*
LED	COB L-Type (LES 9)	
FWHM / FWTM	25.0° / 46.0°	75* 75*
Efficiency	89 %	
Peak intensity	3.7 cd/lm	
LEDs/each optic	1	
Light colour	White	g
Required compone	nts:	
F17437_HEKLA	-G2-H	
		36* 35* 4000 35*
ØNICHI/		90° 99°
LED	COB S-Type (LES 7)	
FWHM / FWTM	24.0° / 44.0°	75*
Efficiency	91 %	
Peak intensity	4 cd/lm	1000 B0"
LEDs/each optic	1	
Light colour	White	6°
Required compone	nts:	
F15848_HEKLA		3230
		345
PHILI	20	90 ⁴ 90 ⁴ 90 ⁴
LED FWHM / FWTM	Fortimo SLM L09 CoB 25.0° / 47.0°	75. 75.
Efficiency	89 %	
Peak intensity	3.6 cd/lm	80 ⁺ / / / / / / / / / / / / / / / / / / /
LEDs/each optic	1	1600
Light colour	White	g* g*
Required compone		- 2430
F17437_HEKLA		\times
_		320
		15°15°
SAMSI	JNG	90* 90*
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	25.0° / 48.0°	
Efficiency	89 %	60°
Peak intensity	3.5 cd/lm	100
LEDs/each optic	1	
Light colour	White	e. e.
Required compone		2430
F17435_HEKLA	-G2-C	X
		3200
		30*



S ΛΜS	JNG	50*	90
LED	LC016D / LC019D / LC026D / LC033D		H.
FWHM / FWTM	31.0° / 62.0°		A
Efficiency	87 %	00	$\langle \ \rangle$
Peak intensity	2.1 cd/lm		
LEDs/each optic	1		
Light colour	White	9° / /	
Required compone			
F17438_HEKLA	-G2-I		
		30 ¹	15° 3
SAMSI	JNG	90°	5
LED	LC030C/040C G2		
FWHM / FWTM	26.0° / 52.0°		$\wedge \uparrow$
Efficiency	88 %		XX
Peak intensity	3 cd/lm		
LEDs/each optic	1		
Light colour	White	e.	
Required compone	nts:		
F17438_HEKLA		2430	
_			
		34" 300	1
		13% 0	15°
SEOUL		99*	9
SEOUL SEMICONDUCTOR		90°	9
seoul semiconductor	MJT COB LES 14.5	<u>36.</u>	
seoul semiconductor LED FWHM / FWTM	30.0° / 60.0°	<u>501</u>	
seoul semiconductor LED FWHM / FWTM Efficiency	30.0° / 60.0° 87 %	50 ⁺	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	30.0° / 60.0° 87 % 2.2 cd/lm	90* 75: 60* 90	
stoul staticonductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 60.0° 87 % 2.2 cd/lm 1	90' 90' 90'	
stoul stanconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 60.0° 87 % 2.2 cd/lm 1 White	e.	
stour stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts:	50' 75' 61' 90 90 90 90 90 90 90 90 90 90	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts:	e.	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts:	e.	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts:	e.	
stour stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts:	e.	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts: -G2-I	e- 30- 30- 32- 30- 30- 30- 30- 30- 30- 30- 30- 30- 30	
scoul structure LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts: -G2-I MJT COB LES 6	e- 30- 30- 32- 30- 30- 30- 30- 30- 30- 30- 30- 30- 30	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA SEOUL SEMICONDUCTOR LED FWHM / FWTM	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts: -G2-I	e- 30- 30- 32- 30- 30- 30- 30- 30- 30- 30- 30- 30- 30	
seoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts: -G2-I MJT COB LES 6 24.0° / 42.0° 91 %	e- 30- 30- 32- 30- 30- 30- 30- 30- 30- 30- 30- 30- 30	
seoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts: -G2-I MJT COB LES 6 24.0° / 42.0°		
stoul structure LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts: -G2-1 MJT COB LES 6 24.0° / 42.0° 91 % 4.2 cd/lm		
stoul striktonbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts: -G2-I MJT COB LES 6 24.0° / 42.0° 91 % 4.2 cd/lm 1 White	g. g. 30' 30' 30' 30' 30' 30' 30' 30'	
seoul semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts: -G2-1 MJT COB LES 6 24.0° / 42.0° 91 % 4.2 cd/lm 1 White nts:		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts: -G2-1 MJT COB LES 6 24.0° / 42.0° 91 % 4.2 cd/lm 1 White nts:	g. g. 30' 30' 30' 30' 30' 30' 30' 30'	
SECUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA SECUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	30.0° / 60.0° 87 % 2.2 cd/lm 1 White nts: -G2-1 MJT COB LES 6 24.0° / 42.0° 91 % 4.2 cd/lm 1 White nts:	g. g. 30' 30' 30' 30' 30' 30' 30' 30'	



r			
SEOUL			90* 90*
SEOUL SEMICONDUCTOR	MJT COB LES 9.8		
FWHM / FWTM	25.0° / 48.0°		75* 75*
Efficiency	90 %		
Peak intensity	3.5 cd/lm		602 60
LEDs/each optic	1		1600
Light colour	White		45°
Required compone			2430
F17435_HEKLA			
			30° 15° 0° 25° 30°
TRIDON	NIC		90° 90°
LED	SLE G7 LES09		
FWHM / FWTM	25.0° / 47.0°		75* 75*
Efficiency	90 %		
Peak intensity	3.7 cd/lm		60°
LEDs/each optic	1		
Light colour	White		47° 47°
Required compone			
F17435_HEKLA			
			3200
			15° 4030 15°
TRIDO	NIC		90*
			99° 99°
LED	SLE G7 LES13		2°
LED FWHM / FWTM			94 95 75 72 90
LED FWHM / FWTM Efficiency	SLE G7 LES13 28.0° / 55.0° 87 %		94 97 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm		99 ⁴ 97 69 ⁴ 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES13 28.0° / 55.0° 87 %		6. 150 64 66 66 60 60 60 66 60 66 66 66 66 66 66
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents:		6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents: L-G2-I		6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents: L-G2-I		6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents: L-G2-I		210 210 210 210 210 210 210 210 210 210
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents: L-G2-I		210 210 210 210 210 210 210 210 210 210
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents: G2-I		210 210 210 210 210 210 210 210 210 210
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents: G2-I SLE G7 LES15 30.0° / 60.0°		210 210 210 210 210 210 210 210 210 210
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA TRIDON LED FWHM / FWTM Efficiency	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents: G2-I SLE G7 LES15 30.0° / 60.0° 87 %		210 210 210 210 210 210 210 210 210 210
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents: A-G2-I SLE G7 LES15 30.0° / 60.0° 87 % 2.2 cd/lm		210 210 210 210 210 210 210 210 210 210
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents: x-G2-I SLE G7 LES15 30.0° / 60.0° 87 % 2.2 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents: -G2-I SLE G7 LES15 30.0° / 60.0° 87 % 2.2 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents: -G2-I SLE G7 LES15 30.0° / 60.0° 87 % 2.2 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES13 28.0° / 55.0° 87 % 2.6 cd/lm 1 White ents: -G2-I SLE G7 LES15 30.0° / 60.0° 87 % 2.2 cd/lm 1 White ents:		



OPTICAL RESULTS (SIMULATED):

-		
bridgelux.		50°
LED	V4 HD Gen 7	
FWHM / FWTM	26.1° / 42.2°	
Efficiency	92 %	
Peak intensity	4.4 cd/lm	
LEDs/each optic	1	
Light colour	White	a
Required components	:	200
F15255_HEKLA-SO	OCKET-C	
		30*
		10 480 10'
bridgelux.		50*
LED	V8 Gen7	75
FWHM / FWTM	24.0° / 46.0°	
Efficiency	90 %	99
Peak intensity	4 cd/lm	- 199
LEDs/each optic	1	
Light colour	White	St.
Required components		
F15253_HEKLA-SO	OCKET-A	
		24*
		155 [°] 0 [°] 15 [°]
\bigcirc		
bridgelux.		50°
bridgelux. LED	Vesta DTW 9mm (4W/6W/12W)	90 ⁴
	Vesta DTW 9mm (4W/6W/12W) 24.0° / 44.0°	94°
LED		24 72 81
LED FWHM / FWTM	24.0° / 44.0°	54°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 44.0° 91 %	54* 75 58* 100
LED FWHM / FWTM Efficiency Peak intensity	24.0° / 44.0° 91 % 4.3 cd/lm	54 57 61 61
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	24.0° / 44.0° 91 % 4.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 44.0° 91 % 4.3 cd/lm 1 White	.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	24.0° / 44.0° 91 % 4.3 cd/lm 1 White	.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	24.0° / 44.0° 91 % 4.3 cd/lm 1 White	.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652b	24.0° / 44.0° 91 % 4.3 cd/lm 1 White	.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t	24.0° / 44.0° 91 % 4.3 cd/lm 1 White 5: 9 Hekla	.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t	24.0° / 44.0° 91 % 4.3 cd/lm 1 White :: • Hekla Vesta DTW 9mm (4W/6W/12W)	.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t bridgelux LED FWHM / FWTM	24.0° / 44.0° 91 % 4.3 cd/lm 1 White S: • Hekla Vesta DTW 9mm (4W/6W/12W) 26.0° / 47.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652b bridgelux, LED FWHM / FWTM Efficiency	24.0° / 44.0° 91 % 4.3 cd/lm 1 White :: 9 Hekla Vesta DTW 9mm (4W/6W/12W) 26.0° / 47.0° 85 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t bridgetux. LED FWHM / FWTM Efficiency Peak intensity	24.0° / 44.0° 91 % 4.3 cd/lm 1 White :: b Hekla Vesta DTW 9mm (4W/6W/12W) 26.0° / 47.0° 85 % 3.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 44.0° 91 % 4.3 cd/lm 1 White :: b Hekla Vesta DTW 9mm (4W/6W/12W) 26.0° / 47.0° 85 % 3.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 44.0° 91 % 4.3 cd/lm 1 White :: b Hekla Vesta DTW 9mm (4W/6W/12W) 26.0° / 47.0° 85 % 3.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	24.0° / 44.0° 91 % 4.3 cd/lm 1 White : b Hekla Vesta DTW 9mm (4W/6W/12W) 26.0° / 47.0° 85 % 3.6 cd/lm 1 White :	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t bridgelux, LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F18158_HEKLA-R:	24.0° / 44.0° 91 % 4.3 cd/lm 1 White S: D Hekla Vesta DTW 9mm (4W/6W/12W) 26.0° / 47.0° 85 % 3.6 cd/lm 1 White S: Z-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	24.0° / 44.0° 91 % 4.3 cd/lm 1 White S: D Hekla Vesta DTW 9mm (4W/6W/12W) 26.0° / 47.0° 85 % 3.6 cd/lm 1 White S: Z-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t bridgelux, LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F18158_HEKLA-R:	24.0° / 44.0° 91 % 4.3 cd/lm 1 White S: D Hekla Vesta DTW 9mm (4W/6W/12W) 26.0° / 47.0° 85 % 3.6 cd/lm 1 White S: Z-LENS	



OPTICAL RESULTS (SIMULATED):

bridgelux.		90* 90*
LED	Vesta TW 9mm (12W) CSP	
FWHM / FWTM	24.1° / 46.3°	75 - 75 -
Efficiency	82 %	
Peak intensity	3.6 cd/lm	9°*
LEDs/each optic	1	
Light colour	White	57
Required components:		200
C16142_HEKLA-SO	CKET-K	
_		
		30 30 15° 48%0 35°
CITIZEN		90* 90*
LED	CLU700/701/702/703	
FWHM / FWTM	26.1 + 25.1° / 42.2°	75.
Efficiency	91 %	
Peak intensity	4.3 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	gr
Required components:		
F15255_HEKLA-SO	CKET-C	
		300 300
		30'
		12° 0° 15°
CITIZEN		50° 0 ¹ 10° 0°
	CI U712/713	90° 90° 90°
LED	CLU712/713 24.0° / 46.0°	25. 26. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27
LED FWHM / FWTM	24.0° / 46.0°	33. 04 30. 80. 90. 90.
LED FWHM / FWTM Efficiency	24.0° / 46.0° 90 %	64 66 66 66 66 66 67 99 99 99 99 99 99 99 99 99 99 99 99 99
LED FWHM / FWTM Efficiency Peak intensity	24.0° / 46.0° 90 % 4.2 cd/lm	2001 2001 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 46.0° 90 % 4.2 cd/lm 1	500 57 60 57 57 57 57 57 57 57 57 57 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 46.0° 90 % 4.2 cd/lm	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 46.0° 90 % 4.2 cd/lm 1 White	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 46.0° 90 % 4.2 cd/lm 1 White	gr or
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 46.0° 90 % 4.2 cd/lm 1 White	gr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 46.0° 90 % 4.2 cd/lm 1 White	gr or
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.0° / 46.0° 90 % 4.2 cd/lm 1 White	gr or
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	24.0° / 46.0° 90 % 4.2 cd/lm 1 White	94 94 95 95 95 95 95 95 95 95 95 95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	24.0° / 46.0° 90 % 4.2 cd/lm 1 White	gr or
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	24.0° / 46.0° 90 % 4.2 cd/lm 1 White	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	24.0° / 46.0° 90 % 4.2 cd/lm 1 White CMA1306 24.0° / 43.0° 91 %	94 94 95 95 95 95 95 95 95 95 95 95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	24.0° / 46.0° 90 % 4.2 cd/lm 1 White CMA1306 24.0° / 43.0°	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	24.0° / 46.0° 90 % 4.2 cd/lm 1 White CMA1306 24.0° / 43.0° 91 % 4.5 cd/lm 1	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	24.0° / 46.0° 90 % 4.2 cd/lm 1 White CMA1306 24.0° / 43.0° 91 % 4.5 cd/lm	gr gr gr gr gr gr gr gr gr gr gr gr gr g
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	24.0° / 46.0° 90 % 4.2 cd/lm 1 White CMA1306 24.0° / 43.0° 91 % 4.5 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: F17438_HEKLA-G2-	24.0° / 46.0° 90 % 4.2 cd/lm 1 White CMA1306 24.0° / 43.0° 91 % 4.5 cd/lm 1 White	9 ⁹ 9 ⁹ 9 ⁹ 9 ⁹ 9 ⁹ 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	24.0° / 46.0° 90 % 4.2 cd/lm 1 White CMA1306 24.0° / 43.0° 91 % 4.5 cd/lm 1 White	gr gr gr gr gr gr gr gr gr gr gr gr gr g



OPTICAL RESULTS (SIMULATED):

LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component: F15858_HEKLA-S	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White	
ØNICHIA		31 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652s		
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-S	LC003D / LC006D / LC009D / LC013D 25.1° / 48.3° 87 % 3.6 cd/lm 1 White 3: OCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F17435_HEKLA-G	SLE SNC8 LES06 24.0° / 42.0 + 41.0° 93 % 4.7 cd/lm 1 White	9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9



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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The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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