

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:

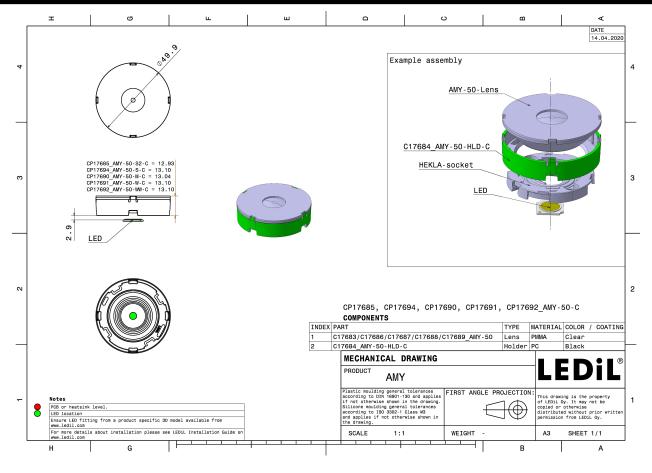
Component	Туре	Material	Colour	Finish
AMY-50-M	Single lens	PMMA	clear	
AMY-50-HLD-C	Holder	PC	black	

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° 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°	64 500 540 540 540 540 540 540 540 540 54
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 ⁴
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	pr.
Required componer	nts:	
C16142_HEKLA-		
Bender Wirth: 49		
		20
bridgelux.		
	Vesta DTW 15mm (33W)	
FWHM / FWTM	29.0° / 58.0°	
Efficiency	86 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer		
C16142_HEKLA		
Bender Wirth: 49	1 Typ L8	
		30 ⁴ 20 ⁵ 0 ⁴ 15°
bridgelux.		90°
bridgelux. LED	Vesta TW 13mm (18W) DP	
	Vesta TW 13mm (18W) DP 29.0° / 58.0°	75°
LED		
LED FWHM / FWTM	29.0° / 58.0°	99* 275 69.h
LED FWHM / FWTM Efficiency	29.0° / 58.0° 87 %	55° (50) (50)
LED FWHM / FWTM Efficiency Peak intensity	29.0° / 58.0° 87 % 2.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts:	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA-	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- Bender Wirth: 49	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- Bender Wirth: 49	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: SOCKET-K 2 Typ L8	200 - 10 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- Bender Wirth: 49	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: SOCKET-K 2 Typ L8	200 - 10 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- Bender Wirth: 49	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: SOCKET-K 2 Typ L8 Vesta TW 15mm DP 32.0° / 63.0°	200 - 10 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- Bender Wirth: 49	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: SOCKET-K 2 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 %	200 - 10 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- Bender Wirth: 49 bridgelux. LED FWHM / FWTM Efficiency Peak intensity	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: SOCKET-K 2 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm	200 - 10 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA Bender Wirth: 49 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: SOCKET-K 2 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm 1	200 - 10 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA Bender Wirth: 49 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: SOCKET-K 2 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm 1 Tunable White	200 - 10 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA Bender Wirth: 49 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: -SOCKET-K 2 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm 1 Tunable White hts:	200 - 10 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- Bender Wirth: 49 Dridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA-	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: -SOCKET-K 2 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm 1 Tunable White hts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA Bender Wirth: 49 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	29.0° / 58.0° 87 % 2.4 cd/lm 1 Tunable White hts: -SOCKET-K 2 Typ L8 Vesta TW 15mm DP 32.0° / 63.0° 86 % 2 cd/lm 1 Tunable White hts: -SOCKET-K	



bridgelux.		90° 997
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	at at a second sec
Required compone	ents:	
C16142_HEKLA		2200
Bender Wirth: 5		
bridgelux.		90 ⁴
LED	Vesta TW 9mm (9W) DP	75
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	A-SOCKET-K	
Bender Wirth: 4	89 Typ L8	200
		30.
CITIZE	'N	
LED	CLL02x/CLU02x (LES10)	73
FWHM / FWTM	25.0° / 48.0°	
Efficiency	89 %	
Peak intensity	3.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F17435_HEKLA	4-62-6	
		30 ⁴ 25 ⁴ 0 ⁴ 15 ⁴
CITIZE	^N	90' 90'
LED	CLL03x/CLU03x	
FWHM / FWTM	29.0° / 58.0°	8 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 ×
Efficiency	87 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gr A a
Required compone		
F17438_HEKLA		
	. == .	
		30° 30 125' 0 ⁸ 15°



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 27 27 27 27 27 27 27 27 27 27 27 27 27
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		



LED CXA/B 15xx FWHM / FWTM 25.0° / 46.0° Efficiency 90 % Peak intensity 3.7 cd/m LEDs/each optic 1 Light colour White Required components: F17436_HEKLA-G2-D F17436_HEKLA-G2-D #*
LED CXA/B 15xx FWHM / FWTM 25.0° / 46.0° Efficiency 90 % Peak intensity 3.7 cd/lm LEDs/each optic 1 Light colour White Required components: F17436_HEKLA-G2-D
FWHM / FWTM 25.0° / 46.0° Efficiency 90 % Peak intensity 3.7 cd/lm LEDs/each optic 1 Light colour White Required components: F17436_HEKLA-G2-D F17436_HEKLA-G2-D ***
Efficiency 90 % Peak intensity 3.7 cd/lm LEDs/each optic 1 Light colour White Required components: F17436_HEKLA-G2-D
Peak intensity 3.7 cd/lm LEDs/each optic 1 Light colour White Required components: F17436_HEKLA-G2-D
LEDs/each optic 1 Light colour White Required components: F17436_HEKLA-G2-D
Light colour White Required components: F17436_HEKLA-G2-D
Required components: F17436_HEKLA-G2-D
F17436_HEKLA-G2-D
LED LEDIM/C6
FWHM / FWTM 26.0° / 46.0°
Efficiency 90 %
Peak intensity 3.8 cd/lm
LEDs/each optic 9
Light colour White
Required components:
F17438_HEKLA-G2-I
30 ⁴ 400 37 e ⁴ 37
LED LUXEON CoB 1202/1203
FWHM / FWTM 25.0° / 46.0°
Efficiency 89 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F17437_HEKLA-G2-H
30
LED LUXEON CoB 1204HD
FWHM / FWTM 25.0° / 47.0°
FWHM / FWTM 25.0° / 47.0° Efficiency 89 %
FWHM / FWTM 25.0° / 47.0° Efficiency 89 % Peak intensity 3.6 cd/lm
FWHM / FWTM 25.0° / 47.0° Efficiency 89 % Peak intensity 3.6 cd/lm LEDs/each optic 1
FWHM / FWTM 25.0° / 47.0° Efficiency 89 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour White
FWHM / FWTM 25.0° / 47.0° Efficiency 89 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour White Required components:
FWHM / FWTM 25.0° / 47.0° Efficiency 89 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour White
FWHM / FWTM 25.0° / 47.0° Efficiency 89 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour White Required components: *** F17437_HEKLA-G2-H ***



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> 50'
		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 I2 White I2 White I2 White I2 White I2 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 COMPARENTION 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		- 2130
F17437_HEKLA		\times
_		320
		15°15°
SAMSI	JNG	90* 90*
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	25.0° / 48.0°	
Efficiency	89 %	90° 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*



SAMSI	JNG	90*	91
LED	LC016D / LC019D / LC026D / LC033D		
FWHM / FWTM	31.0° / 62.0°		
Efficiency	87 %	655	
Peak intensity	2.1 cd/lm		
LEDs/each optic	1		
Light colour	White	97*	
Required compone	ents:		» A
F17438_HEKLA	A-G2-I		
		30'	110
SAMSI	JNG	80*	
LED	LC030C/040C G2		
FWHM / FWTM	26.0° / 52.0°	75	
Efficiency	88 %		X / M
Peak intensity	3 cd/lm		$ \setminus X $
LEDs/each optic	1		
Light colour	White	w. / /	
Required compone	ents:		NX
F17438_HEKLA			» / / /
		304 32	20
			**
SEOUL		90*	
SEOUL SEMICONDUCTOR		90 ⁴	
seoul semiconductor	MJT COB LES 14.5	50 ⁺	
seoul semiconductor LED FWHM / FWTM	30.0° / 60.0°	59°	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	30.0° / 60.0° 87 %	59* 72* 	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	30.0° / 60.0° 87 % 2.2 cd/lm	99* 75* 69*	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 60.0° 87 % 2.2 cd/lm 1	99* 25 69* 57	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 60.0° 87 % 2.2 cd/lm 1 White	994 255 695 575	
stoul 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 ents:	99* 19* 19* 19* 19* 19* 19* 19* 19* 19*	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 60.0° 87 % 2.2 cd/lm 1 White ents:	99* 75* 64* 97 70 75* 70 75* 70 75* 75* 75* 75* 75* 75* 75* 75* 75* 75*	
stoul 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 ents:		
stoul 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 ents:		
stour stimiconductor 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 ents: I-G2-I		
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 ents: I-G2-I MJT COB LES 6		
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 ents: -G2-I MJT COB LES 6 24.0° / 42.0°		
stour stimonourton 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 ents: c-G2-I MJT COB LES 6 24.0° / 42.0° 91 %		
stour stimiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA Stour stimiconductor LED FWHM / FWTM Efficiency Peak intensity	30.0° / 60.0° 87 % 2.2 cd/lm 1 White ents: A-G2-I MJT COB LES 6 24.0° / 42.0° 91 % 4.2 cd/lm	30 ⁴ 35 ⁷ 38	
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	30.0° / 60.0° 87 % 2.2 cd/lm 1 White ents: A-G2-I MJT COB LES 6 24.0° / 42.0° 91 % 4.2 cd/lm 1	30 ⁴ 35 ⁷ 38	
stoul stimiconductor 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 ents: A-G2-I MJT COB LES 6 24.0° / 42.0° 91 % 4.2 cd/lm 1 White	30 ⁴ 35 ⁷ 38	
stour stanconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA stour stanconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	30.0° / 60.0° 87 % 2.2 cd/lm 1 White ents: G2-I MJT COB LES 6 24.0° / 42.0° 91 % 4.2 cd/lm 1 White ents:	30 ⁴ 35 ⁷ 38	
SEQUE SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA SEQUE SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 60.0° 87 % 2.2 cd/lm 1 White ents: G2-I MJT COB LES 6 24.0° / 42.0° 91 % 4.2 cd/lm 1 White ents:		
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 Required compone	30.0° / 60.0° 87 % 2.2 cd/lm 1 White ents: G2-I MJT COB LES 6 24.0° / 42.0° 91 % 4.2 cd/lm 1 White ents:		



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			2400
F17435_HEKLA			
			30° 15° 0° 25° 30°
TRIDOM	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°
LED	SLE G7 LES13		2°
LED FWHM / FWTM			94 92 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 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
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
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
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
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
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
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° 50°
LED	V4 HD Gen 7	
FWHM / FWTM	26.1° / 42.2°	75*
Efficiency	92 %	
Peak intensity	4.4 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	' White	45* 45*
Required components:	Winte	X
F15255_HEKLA-SO	YKET_C	3230
110200_1121(2/1000		
		30° 30° 30°
bridgelux.		90° 90°
LED	V8 Gen7	
FWHM / FWTM	24.0° / 46.0°	73
Efficiency	90 %	
Peak intensity	4 cd/lm	50°
LEDs/each optic	1	
Light colour	White	gr
Required components:		
F15253_HEKLA-SO	CKET-A	3230
		30°
		15° 0° 15°
bridgelux		90° 90° 90°
bridgelux.	Vesta TW 9mm (12)W) CSP	50° - 50° - 50°
LED	Vesta TW 9mm (12W) CSP	22. 23. 29. 29. 20. 20. 20. 20. 20. 20. 20. 20.
LED FWHM / FWTM	24.1° / 46.3°	22. 00 00. 00. 00. 00. 00. 00. 00. 00. 0
LED FWHM / FWTM Efficiency	24.1° / 46.3° 82 %	60 57 57 57 57 57 57 57 57 57 57
LED FWHM / FWTM Efficiency Peak intensity	24.1° / 46.3° 82 % 3.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.1° / 46.3° 82 % 3.6 cd/lm 1	231 01 321 90* 00 02* 90* 00 02* 90* 00 00*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.1° / 46.3° 82 % 3.6 cd/lm	57 0 ¹ 12 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.1° / 46.3° 82 % 3.6 cd/lm 1 White	e [.] e.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.1° / 46.3° 82 % 3.6 cd/lm 1 White	e ⁻ e ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.1° / 46.3° 82 % 3.6 cd/lm 1 White	er. 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO	24.1° / 46.3° 82 % 3.6 cd/lm 1 White	ø. 209
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SO	24.1° / 46.3° 82 % 3.6 cd/lm 1 White	ju. 200 c.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SOU	24.1° / 46.3° 82 % 3.6 cd/lm 1 White CKET-K	ju. 200 c.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SOU	24.1° / 46.3° 82 % 3.6 cd/lm 1 White CKET-K	ju. 200 c.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SOU CITTIZEN LED FWHM / FWTM	24.1° / 46.3° 82 % 3.6 cd/lm 1 White CKET-K CLU700/701/702/703 26.1 + 25.1° / 42.2°	ju. 200 c.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SOU CITIZEN LED FWHM / FWTM Efficiency	24.1° / 46.3° 82 % 3.6 cd/lm 1 White CKET-K CLU700/701/702/703 26.1 + 25.1° / 42.2° 91 %	ju. 200 c.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SOU CITIZEN LED FWHM / FWTM Efficiency Peak intensity	24.1° / 46.3° 82 % 3.6 cd/lm 1 White CKET-K CLU700/701/702/703 26.1 + 25.1° / 42.2° 91 % 4.3 cd/lm	32 32 34 35 35 35 35 35
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SOU CITIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.1° / 46.3° 82 % 3.6 cd/lm 1 White CKET-K CLU700/701/702/703 26.1 + 25.1° / 42.2° 91 % 4.3 cd/lm 1	32 32 34 35 35 35 35 35
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SOU CITIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.1° / 46.3° 82 % 3.6 cd/lm 1 White CKET-K CLU700/701/702/703 26.1 + 25.1° / 42.2° 91 % 4.3 cd/lm	6. 6. 700 700 700 700 700 700 700 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SOU CITIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.1° / 46.3° 82 % 3.6 cd/lm 1 White CKET-K CLU700/701/702/703 26.1 + 25.1° / 42.2° 91 % 4.3 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SOU CITIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.1° / 46.3° 82 % 3.6 cd/lm 1 White CKET-K CLU700/701/702/703 26.1 + 25.1° / 42.2° 91 % 4.3 cd/lm 1 White	6. 700 31.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C16142_HEKLA-SOU CITIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	24.1° / 46.3° 82 % 3.6 cd/lm 1 White CKET-K CLU700/701/702/703 26.1 + 25.1° / 42.2° 91 % 4.3 cd/lm 1 White	6. 6. 700 700 700 700 700 700 700 70



OPTICAL RESULTS (SIMULATED):

CITIZEN		90* 90*
LED	CLU712/713	
FWHM / FWTM	24.0° / 46.0°	73*
Efficiency	90 %	
Peak intensity	4.2 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	g54 are
Required components:		
F17438_HEKLA-G2-		3230
		20 15° 0° 15°
		90*
LED	CMA1306	
FWHM / FWTM	24.0° / 43.0°	
Efficiency	91 %	50* 50*
Peak intensity	4.5 cd/lm	
LEDs/each optic	1	
Light colour	White	42. 42.
Required components:		- 3200
F17439_HEKLA-G2-	J	
		30. 30.
		135 4690 153
)S	80., 80., 80., 80., 80., 80., 80., 80.,
	DS LUXEON CoB 1202/1203	
		15° 489° 15° 39° 50° 15° 29° 75° 75°
LED	LUXEON CoB 1202/1203	
LED FWHM / FWTM	LUXEON CoB 1202/1203 24.1° / 46.3°	60 ⁴ 360 15 ²
LED FWHM / FWTM Efficiency	LUXEON CoB 1202/1203 24.1° / 46.3° 89 %	80 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1	99° 99° 99° 99° 99° 99° 99° 99° 99° 99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White	99° 99° 79° 00° 60° 2800 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White	9° 6° 6° 200 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White	9° 6° 6° 200 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOG	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White	9° 9° 60° 500 500 500 500 500 500 500 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOO	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White CKET-H	9° 9° 60° 500 500 500 500 500 500 500 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOO	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White CKET-H	99° 99° 99 75° 000 75° 60° 3300 76°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOC	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White CKET-H COB S-Type (LES 7) NULL	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOO	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White CKET-H COB S-Type (LES 7) NULL 25.0° / 44.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOO	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White CKET-H COB S-Type (LES 7) NULL 25.0° / 44.0° 89 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOO ENICHIA LED Assembly FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White CKET-H COB S-Type (LES 7) NULL 25.0° / 44.0° 89 % 4.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOO F15858_HEKLA-SOO EED Assembly FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White CKET-H COB S-Type (LES 7) NULL 25.0° / 44.0° 89 % 4.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOO F15858_HEKLA-SOO EED Assembly FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White CKET-H COB S-Type (LES 7) NULL 25.0° / 44.0° 89 % 4.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOO WICHIN LED Assembly FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White CKET-H COB S-Type (LES 7) NULL 25.0° / 44.0° 89 % 4.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOO WINCHIN LED Assembly FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202/1203 24.1° / 46.3° 89 % 3.9 cd/lm 1 White CKET-H COB S-Type (LES 7) NULL 25.0° / 44.0° 89 % 4.2 cd/lm 1 White	



OPTICAL RESULTS (SIMULATED):

LED LC003D / LC006D / LC009D / LC013D FWHM / FWTM 25.1° / 48.3° Efficiency 87 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C TRIDONICC LED SLE SNC8 LES06 FWHM / FWTM 24.0° / 42.0 + 41.0° Efficiency 93 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C	SAMSU	NG	50°
FWHM / FWTM 25.1° / 48.3° Efficiency 87 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C Image: Component in the i	LED	LC003D / LC006D / LC009D / LC013D	
Peak intensity 3.6 cd/ln LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C TRIDONIC LED SLE SNC8 LES06 FWHM / FWTM 24.0° / 42.0 + 41.0° Efficiency 93 % Peak intensity 4.7 cd/ln LEDs/each optic 1 Light colour White Required components: 50	FWHM / FWTM	25.1° / 48.3°	
LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C TRIDONIC LED SLE SNC8 LES06 FWHM / FWTM 24.0° / 42.0 + 41.0° Efficiency 93 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components:	Efficiency	87 %	
Light colour White Required components: F15255_HEKLA-SOCKET-C TRIDONIC LED SLE SNC8 LES06 FWHM / FWTM 24.0° / 42.0 + 41.0° Efficiency 93 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components:	Peak intensity	3.6 cd/lm	
Required components: F15255_HEKLA-SOCKET-C TRIDONIC LED SLE SNC8 LES06 FWHM / FWTM 24.0° / 42.0 + 41.0° Efficiency 93 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components:	LEDs/each optic	1	
Required components: F15255_HEKLA-SOCKET-C F15255_HEKLA-SOCKET-C Image: Component State Sta	Light colour	White	g. a.
TRIDONIC LED SLE SNC8 LES06 FWHM / FWTM 24.0° / 42.0 + 41.0° Efficiency 93 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components: 30	Required components	S:	
TRIDONIC LED SLE SNC8 LES06 FWHM / FWTM 24.0° / 42.0 + 41.0° Efficiency 93 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components: 50	F15255_HEKLA-S	OCKET-C	
TRIDONIC LED SLE SNC8 LES06 FWHM / FWTM 24.0° / 42.0 + 41.0° Efficiency 93 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components: 30			2 ²
LEDSLE SNC8 LES06FWHM / FWTM24.0° / 42.0 + 41.0°Efficiency93 %Peak intensity4.7 cd/lmLEDs/each optic1Light colourWhiteRequired components:300			
Efficiency 93 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components:	TRIDON	IC	р ⁴ р ⁴
Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************			50°
Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	LED	SLE SNC8 LES06	30. 20.
Light colour White Required components:	LED FWHM / FWTM	SLE SNC8 LES06 24.0° / 42.0 + 41.0°	75
Required components:	LED FWHM / FWTM Efficiency	SLE SNC8 LES06 24.0° / 42.0 + 41.0° 93 %	75
Required components:	LED FWHM / FWTM Efficiency Peak intensity	SLE SNC8 LES06 24.0° / 42.0 + 41.0° 93 % 4.7 cd/lm	75
F17435_HEKLA-G2-C	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE SNC8 LES06 24.0° / 42.0 + 41.0° 93 % 4.7 cd/lm 1	37
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE SNC8 LES06 24.0° / 42.0 + 41.0° 93 % 4.7 cd/lm 1 White	77 - 27 - 27 - 27 - 27 - 27 - 27 - 27 -
and the second se	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	SLE SNC8 LES06 24.0° / 42.0 + 41.0° 93 % 4.7 cd/lm 1 White S:	77 - 27 - 27 - 27 - 27 - 27 - 27 - 27 -
2º	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	SLE SNC8 LES06 24.0° / 42.0 + 41.0° 93 % 4.7 cd/lm 1 White S:	37



GENERAL INFORMATION:

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

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

MATERIALS:

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

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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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