

PRODUCT DATASHEET CP17692_AMY-50-WW-C

AMY-50-WW-C

~60° wide beam. Assemb compatible with LEDiL HEKL				
SPECIFICATION:				
Dimensions	Ø 49.9 mm	a.	()	
Height	13.1 mm			
Fastening	socket			
ROHS compliant	yes 🛈	LEDil'	Annumental Procession	
MATERIALS:				
Component	Туре	Material	Colour	Finish
AMY-50-WW	Single lens	PMMA	clear	

ORDERING INFORMATION:

AMY-50-HLD-C

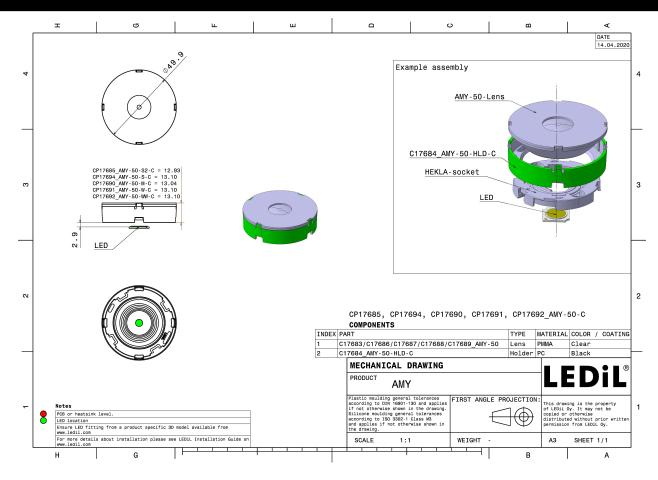
Component	Qty in box	MOQ	MPQ	Box weight (kg)
CP17692_AMY-50-WW-C	510	120	30	8.2
» Box size: 480 x 280 x 300 mm				

PC

black

Holder





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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	
bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA	



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA		20 ³ 20 ³ 20 ⁴ 20
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15253_HEKLA		20° - 20° -
bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA		20°
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15616_HEKLA		201 120 120 201 10 201 10 2



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	-SOCKET-K	g,
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Vesta DTW 15mm (33W) 52.0° / 78.0° 89 % 1.2 cd/lm 1 White	3* 3*<
Required compone C16142_HEKLA Bender Wirth: 49	-SOCKET-K	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA		9° 9° 72° 75° 6° 60 60
Bender Wirth: 4		30 ⁴ 120 120 30 ⁴



bridgelux. LED Vesta TW 6mm DP FWHM / FWTM 57.0° / 74.0° Efficiency 91 % Peak intensity 1.2 cd/lm	90
FWHM / FWTM 57.0° / 74.0° Efficiency 91 %	
Efficiency 91 %	1
	~
	< >
Peak intensity 1.2 cd/lm	
LEDs/each optic 1	\land
Light colour Tunable White	45
Required components:	f
C16142_HEKLA-SOCKET-K	
Bender Wirth: 504 Typ L8	
30 ⁴	15°
bridgelux.	90
LED Vesta TW 9mm (9W) DP	
FWHM / FWTM 55.0° / 75.0°	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Efficiency 90 %	$\langle \cdot \rangle$
Peak intensity 1.2 cd/lm	
LEDs/each optic 1	X
Light colour Tunable White	
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 489 Typ L8	X
30-	
30°	12,
CITIZEN	72°
	35*
LED CLL02x/CLU02x (LES10)	35*
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0°	35*
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 %	15 ³
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm	23
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1	13. 13. 13. 13. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White	23 90 90 90 90 90 90 90
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/Im LEDs/each optic 1 Light colour White Required components:	99 99 90 90 90 90 90
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components:	23. 23. 23. 23. 23. 24. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C	23°
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/Im LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CITIZEN LED CLL03x/CLU03x	23 23 23 23 23 23 23 23 23 23 23 23 23 2
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CITTIZEN LED CLL03x/CLU03x FWHM / FWTM 55.0° / 80.0°	23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CITIZEN LED CLL03x/CLU03x FWHM / FWTM 55.0° / 80.0° Efficiency 90 %	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CITIZEN LED CLL03x/CLU03x FWHM / FWTM 55.0° / 80.0° Efficiency 90 % Peak intensity 1.1 cd/lm	23 124 125 125 125 125 125 125 125 125 125 125
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CITIZEEN LED CLL03x/CLU03x FWHM / FWTM 55.0° / 80.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CITIZEN LED CLL03x/CLU03x FWHM / FWTM 55.0° / 80.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White	23 12° 23 12° 23 12° 23 12°
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CCITTIZEEN LED CLL03x/CLU03x FWHM / FWTM 55.0° / 80.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CITIZEN LED CLL03x/CLU03x FWHM / FWTM 55.0° / 80.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 57.0° / 77.0° Efficiency 91 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C	



CITIZE	N		90° 90°
LED	CLU700/701/702/703		
FWHM / FWTM	58.0° / 75.0°		73*
Efficiency	92 %		
Peak intensity	1.2 cd/lm		60° 60°
LEDs/each optic	1		
Light colour	White		gyr
Required compone			
F17435_HEKLA			
			30° 1200 30*
			15° 0° 15°
CITIZE	Ν		90*
LED	CLU7A2/7A3		
FWHM / FWTM	58.0° / 74.0°		
Efficiency	92 %		60° 400 mm
Peak intensity	1.2 cd/lm		\wedge / / \wedge \wedge \wedge
LEDs/each optic	1		
Light colour	White		φ ² φ ²
Required compone	nts:		
F17435_HEKLA			
			30° 1220 30*
			15° 0° 15°
CITIZE	N		90° 90°
LED	CLU7B2		
FWHM / FWTM	58.0° / 73.0°		75.
Efficiency	92 %		400 cot
Peak intensity	1.2 cd/lm		$\wedge / / / \wedge \wedge /$
LEDs/each optic	1		
Light colour	White		g.,
Required compone	ints:		
F17435_HEKLA	-G2-C		
			300 300 300
			15 ⁹ 0 ⁰ 15 ⁹
			90* 90*
LED	CMA1516	And in case of the local division of the loc	73* 75*
FWHM / FWTM	57.0° / 77.0°	10.00	
Efficiency	91 %		60° 60°
Peak intensity	1.1 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
F17436_HEKLA	-G2-D		
			\times \times \times
			30* 1230 36*
			15° 0° 18°



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



			9	20.4	90*
LED	CXA/B 13xx				
FWHM / FWTM	58.0° / 75.0°		7	75'	
Efficiency	93 %			> N	$\langle \cdot \rangle$
Peak intensity	1.2 cd/lm		e	30° - 400	
LEDs/each optic	1			\times / / –	$\times \Lambda$
Light colour	White		9	e.	65.
Required compone				- 800	
F17439_HEKLA					
				\times \wedge	$\land X$
			э	100	30°
				15° o ^p	15,
			و		90*
LED	CXA/B 15xx		2	75.	3"
FWHM / FWTM	58.0° / 77.0°				$\backslash \land$
Efficiency	92 %		6	50° 400	60.
Peak intensity	1.1 cd/lm				
LEDs/each optic	1			$\times / /$	
Light colour	White		9	5°	da.
Required compone					
F17436_HEKLA	-G2-D				
				\times \wedge	$\land X$
			9	30° 1200	36.
				15% 0%	15*
			9	15 [°] 0°	355
LED	LEDIM/C6		9	75° °°	350
LED FWHM / FWTM	57.0° / 76.0°		2	137 Ø	35°
LED FWHM / FWTM Efficiency	57.0° / 76.0° 91 %		2	25° 0°	99 25
LED FWHM / FWTM Efficiency Peak intensity	57.0° / 76.0° 91 % 1.1 cd/lm		2	25° 0° 98° 99° 400	22°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	57.0° / 76.0° 91 % 1.1 cd/lm 9		, , ,	135 0° 9° 9°	52°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0° / 76.0° 91 % 1.1 cd/lm 9 White			127 0° 99° 99° 99° 90° 400	10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts:		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	137 0° 194 195 195 195 195 195 195 195 195 195 195	35°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts:			137 0° 197 197 197 197 197 197 197 197 197 197	35°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts:		, , , ,	137 Ø	32" 99"
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts:			25° (° 25° (°) 25° (°) 25° (°) 25° (°) 25° (°)	32" 39" 99" 99" 99"
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I			g* 400 -	12,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I			25° 400 25° 100 100 100 100 100 100	12,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203			25° 400 25° 100 100 100 100 100 100	10 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203 56.0° / 75.0°			25° 400 27° 100 100 100 100 100 100	12,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 %			25° 400 27° 100 100 100 100 100 100	12,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 % 1.2 cd/lm			25° 400 27° 100 100 100 100 100 100	12,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 % 1.2 cd/lm 1			25° 400 27° 100 100 100 100 100 100	15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 % 1.2 cd/lm 1 White			25° 400 27° 100 100 100 100 100 100	15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 % 1.2 cd/lm 1 White nts:			25° 400 27° 100 100 100 100 100 100	15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 % 1.2 cd/lm 1 White nts:			25° 400 27° 100 100 100 100 100 100	12,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	57.0° / 76.0° 91 % 1.1 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203 56.0° / 75.0° 91 % 1.2 cd/lm 1 White nts:			25° 400 27° 100 100 100 100 100 100	12°



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



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



(C) LUM	INUS	50*
LED	CXM-4	
FWHM / FWTM	58.0° / 74.0°	
Efficiency	92 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr a
Required compone	ents:	
F17435_HEKLA	A-G2-C	
		904 129 00 120 1
ØNICHI	N Contraction of the second se	50 ⁴
LED	COB L-Type (LES 11)	
FWHM / FWTM	56.0° / 78.0°	
Efficiency	91 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr a
Required compone	ents:	
F17437_HEKLA	A-G2-H	
		30 ⁴ 12 ⁵ / ₁₀ 25 ⁴
-1		
ØNICHI∕		50 ⁴ 9
	COB L-Type (LES 9)	
		9 ³⁴ 9 75 2
LED	COB L-Type (LES 9)	90° 9 75' 20 00° 00
LED FWHM / FWTM	COB L-Type (LES 9) 57.0° / 76.0°	95 ⁴ 9 75 55 ⁴ 100 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents:	95° 9 25 5° 00 - 6 5° 00 - 6 5° 00 - 6 5° 00 - 6 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 0 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0°	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 %	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0°	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 % 1.1 cd/lm 1	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 % 1.1 cd/lm 1 White	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:	15 ⁵ d ⁵ 55 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	COB L-Type (LES 9) 57.0° / 76.0° 91 % 1.1 cd/lm 1 White ents: A-G2-H COB S-Type (LES 7) 59.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:	15 ⁵ d ⁵ 55 ⁵



-		
PHILI	DS	30* 30*
LED	Fortimo SLM L09 CoB	
FWHM / FWTM	56.0° / 76.0°	75. 75.
Efficiency	91 %	
Peak intensity	1.2 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	ggs gg
Required compone		80
F17437_HEKLA		
		290
SAMS	JNG	90* 50*
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	57.0° / 77.0°	73.
Efficiency	91 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required compone	nts:	200
F17435_HEKLA		
		30°
		15, 1230 15,
SAMS	JNG	30, 30,
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	56.0° / 82.0°	$ \lambda $
Efficiency	90 %	60* 60'
Peak intensity	1.1 cd/lm	400
LEDs/each optic	1	
Light colour	White	55°
Required compone		
F17438_HEKLA	-G2-I	
		30'
сллс		
SVWS		90 ⁴ 90 ⁴
LED	LC030C/040C G2	75.
FWHM / FWTM	56.0° / 78.0°	
Efficiency	91 %	60° 400 60°
Peak intensity	1.1 cd/lm	
LLEDa/aaah antia		
LEDs/each optic	1	
Light colour	White	g
Light colour Required compone	White nts:	e-
Light colour	White nts:	e ⁻ e ⁻
Light colour Required compone	White nts:	0° 60
Light colour Required compone	White nts:	



			90*	90°
LED	MJT COB LES 14.5			< .
FWHM / FWTM	56.0° / 82.0°			10.
Efficiency	90 %			60*
Peak intensity	1.1 cd/lm		400	
LEDs/each optic	1			
Light colour	White		99-	45*
Required compone	ents:			
F17438_HEKLA	-G2-I		500	
			30*	36.
			15° 0° 15°	
			90*	90°
LED	MJT COB LES 6			
FWHM / FWTM	58.0° / 75.0°		75	75*
Efficiency	92 %			
Peak intensity	1.2 cd/lm		60 ⁵	-60°
LEDs/each optic	1			
Light colour	White		92"	45°
Required compone				
F17435_HEKLA				
				X
			304 3230	
			15 ⁹ 0 ⁸ 15 ⁹	
			90°	90°
SECUL SECUL SEMICONDUCTOR	MJT COB LES 9.8		95*	90*
SEOUL SEMICONDUCTOR	MJT COB LES 9.8 57.0° / 77.0°	1	75- 264	90°
SEOUL SEMICONDUCTOR			50 ⁴	90°
seoul semiconductor LED FWHM / FWTM Efficiency	57.0° / 77.0°		50 ⁴ 77* 60 ⁴ 400	90* 75* 60*
seoul semiconductor LED FWHM / FWTM	57.0° / 77.0° 92 %		90* 75 60* 400	90°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	57.0° / 77.0° 92 % 1.1 cd/lm		90 ⁴ 77 87 87	90°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	57.0° / 77.0° 92 % 1.1 cd/lm 1 White		95 ⁴ 65 ⁴ 67 80 80	92, 86, 22,
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents:		gr gr 994 904	80°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents:		61. 62. 93. 93.	92, 96, 25,
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents:		34 100 57 67 67 100 100 100 100 100 100 100 10	3%
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents: -G2-C			*98 75 75 75 75
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents: -G2-C		24 26 27 20 20 20 20 20 20 20 20 20 20	80°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents: -G2-C			80°
seou semenouror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents: -G2-C			20° 20° 20° 20°
seou semenouror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents: -G2-C			80, 80, 80, 80, 80, 80, 80, 80, 80, 80,
seou semonourror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0°			80°
seou semonourror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 %			80°
seou semonourror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 % 1.1 cd/lm			80°
seou semonourror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 % 1.1 cd/lm 1 White			90°
seou semeonourror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:			50°
seou semeonourror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:			90" 72 60" 80" 80" 80"
stour semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	57.0° / 77.0° 92 % 1.1 cd/lm 1 White ents: -G2-C SLE G7 LES09 57.0° / 76.0° 92 % 1.1 cd/lm 1 White ents:			



TRIDO	VIC		90 ⁴
LED	SLE G7 LES13		
FWHM / FWTM	56.0° / 80.0°		23.
Efficiency	90 %		
Peak intensity	1.1 cd/lm		
LEDs/each optic	1		
Light colour	White		9°
Required compone	ents:		800
F17438_HEKLA	A-G2-I		
			306
			15° 1250 15°
TDIDON			
TRIDO	VIC		w*
	SLE G7 LES15		
			90 ⁺
LED	SLE G7 LES15		
LED FWHM / FWTM	SLE G7 LES15 55.0° / 81.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES15 55.0° / 81.0° 90 % 1.1 cd/lm 1		37 69 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES15 55.0° / 81.0° 90 % 1.1 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES15 55.0° / 81.0° 90 % 1.1 cd/lm 1 White ents:		20 60 ¹ 400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES15 55.0° / 81.0° 90 % 1.1 cd/lm 1 White ents:		20 60 ¹ 400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES15 55.0° / 81.0° 90 % 1.1 cd/lm 1 White ents:		20 60 ¹ 400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES15 55.0° / 81.0° 90 % 1.1 cd/lm 1 White ents:		20 60 ¹ 400



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



bridgelux.		90°
LED	V6 HD Gen 8	
FWHM / FWTM	60.0° / 77.0 + 76.0°	75*
Efficiency	93 %	
Peak intensity	1.1 cd/lm	60°
LEDs/each optic	1	
Light colour	White	gy*
Required components:		
F15255_HEKLA-SO		
		30° 120 30° 30°
bridgelux.		90* 90*
LED	V8 Gen7	
FWHM / FWTM	61.0° / 78.0°	23. 25.
Efficiency	90 %	
Peak intensity	1.1 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	45° 45°
Required components:		
F15253_HEKLA-SO		
		20 <u>15</u> ° 0° 15°
bridgelux.		90°
bridgelux. LED	V9 HD Gen 8	99° 99°
	V9 HD Gen 8 60.0° / 78.0 + 77.0°	99° 99° 79° 79°
LED		90 ³ 90 ³ 90 ³
LED FWHM / FWTM	60.0° / 78.0 + 77.0°	99 ⁵ 99 ⁵ 99 ⁶ 99 ⁷ 99 ⁶ 99 ⁷ 99 ⁷ 99 ⁷ 99 ⁷ 99 ⁷ 99 ⁷
LED FWHM / FWTM Efficiency	60.0° / 78.0 + 77.0° 92 %	99°
LED FWHM / FWTM Efficiency Peak intensity	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White	90* 90* 72* 60* 60* 60* 60* 60* 60* 60* 60* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 78.0 + 77.0° 92 % 1.1 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:	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White	59° 59° 59° 59° 59° 59° 59° 59° 59° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White	24'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White	59° 73° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO bridgeluk LED FWHM / FWTM	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO bridgeLUX. LED FWHM / FWTM Efficiency	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO bridgetux. LED FWHM / FWTM Efficiency Peak intensity	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 78.0 + 77.0° 92 % 1.1 cd/lm 1 White CKET-I VERO13 64.0° / 84.0° 92 % 0.9 cd/lm 1 White	



bridgelux.		90* 90*
LED	Vesta DTW 6mm	
FWHM / FWTM	60.0° / 76.0°	75°
Efficiency	93 %	
Peak intensity	1.2 cd/lm	60° - 400 - 60°
LEDs/each optic	1	
Light colour	White	47°
Required components: Bender Wirth: 652b		
Bender Wirth. 0520		
		30° 1200 30° 35°
bridgelux.		50*
LED	Vesta DTW 9mm (4W/6W/12W)	
FWHM / FWTM	58.0 + 59.0° / 76.0 + 77.0°	75*
Efficiency	93 %	
-		60° 60°
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	gr
Light colour	White	
Required components:		
Bender Wirth: 652b	Hekla	
		30 ⁶ 1230 30 ⁶
CITIZEN		7 5
CITIZEN		95° 90°
LED	CLU712/713	75
	CLU712/713 59.0° / 77.0°	20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency	CLU712/713	60 60 60 F
LED FWHM / FWTM	CLU712/713 59.0° / 77.0°	8 ⁴ 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency	CLU712/713 59.0° / 77.0° 90 %	84 95 96 96 96 96 97 96 97 96 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm	27 27 27 27 27 27 27 27 27 27 27 27 27 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	27 27 27 27 27 27 27 27 27 27 27 27 27 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	27 27 27 27 27 27 27 27 27 27 27 27 27 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	21 25 27 27 27 27 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	2 ¹⁰ 122 24
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	2 ¹⁰ 122 X.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White	2 ¹⁰ 122 X.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -I CXA/B 1830 58.0° / 82.0°	90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -I CXA/B 1830 58.0° / 82.0° 89 %	90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -I CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm	90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -I CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm 1	90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -I CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm 1 White	90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2 CREEC_LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -1 CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm 1 White	90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -1 CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm 1 White	200 - 200 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2 CREEC_LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -1 CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm 1 White	200 - 200 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2 CREEC_LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLU712/713 59.0° / 77.0° 90 % 1.1 cd/lm 1 White -1 CXA/B 1830 58.0° / 82.0° 89 % 1.1 cd/lm 1 White	200 - 200 -



	DS	90° 3
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F15858_HEKLA-S		
	DS	50° 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F15848_HEKLA-S	LUXEON CoB 1202HD 60.0° / 76.0° 93 % 1.1 cd/lm 1 White S:	
	SUS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 632	LUXEON CoB 1204/1205 57.0° / 80.0° 92 % 1.1 cd/lm 1 White s: a Hekla XL	
COMILE	DS	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F15858_HEKLA-S	LUXEON CoB 1205HD 58.0 + 59.0° / 80.0° 92 % 1.1 cd/lm 1 White S:	91 - 500 - 5



)S	30 ⁴	90
LED	LUXEON CoB 1208	75	
FWHM / FWTM	57.0 + 56.0° / 82.0°		
Efficiency	92 %	690	400
Peak intensity	1.1 cd/lm		
LEDs/each optic	1	\sim	
Light colour	White	¢.	\times
Required components:			
Bender Wirth: 632a H	lekla XL		
		\checkmark	
		20*	15° 1830 15° 3
Μ ΝΙCΗΙΛ		<u>w</u> .	
LED	COB S-Type (LES 7)		$A \wedge A$
FWHM / FWTM	62.0° / 78.0°	75	
Efficiency	89 %		
Peak intensity	1 cd/lm	60°~	400
LEDs/each optic	1		
Light colour	White	¢.	er de la companya de
Required components:			
Bender Wirth: 652a H	lekla		
		- 20*	
OSRAM Opto Semiconductors		50*	90
LED	Soleriq S15		
FWHM / FWTM		75	
	58.0° / 83.0°		
Efficiency	58.0° / 83.0° 89 %		
Efficiency Peak intensity	89 %	91. 	
Peak intensity		05	60
Peak intensity LEDs/each optic	89 % 1 cd/lm	65- 5-	400
Peak intensity	89 % 1 cd/lm 1	97	400
Peak intensity LEDs/each optic Light colour	89 % 1 cd/lm 1 White	9.	400 C
Peak intensity LEDs/each optic Light colour Required components:	89 % 1 cd/lm 1 White	9) 	
Peak intensity LEDs/each optic Light colour Required components:	89 % 1 cd/lm 1 White	97	
Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	89 % 1 cd/lm 1 White	99 	
Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	89 % 1 cd/lm 1 White	97 97 97	
Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2-	89 % 1 cd/lm 1 White SLE SNC8 LES06	97 97 97 97 97	
Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- TRIDONIC LED FWHM / FWTM	89 % 1 cd/lm 1 White SLE SNC8 LES06 58.0° / 76.0 + 74.0°	97 0 97 97 25	
Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- TRIDONIC LED FWHM / FWTM Efficiency	89 % 1 cd/lm 1 White SLE SNC8 LES06 58.0° / 76.0 + 74.0° 93 %	97 07 36 37 37 39	
Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- TRIDONIC LED FWHM / FWTM Efficiency Peak intensity	89 % 1 cd/lm 1 White SLE SNC8 LES06 58.0° / 76.0 + 74.0° 93 % 1.2 cd/lm	91 0 24 29 29 29 29	
Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	89 % 1 cd/lm 1 White SLE SNC8 LES06 58.0° / 76.0 + 74.0° 93 % 1.2 cd/lm 1	99 97 30 30 30 30 30 30 30 30 30 30 30 30 30	
Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	89 % 1 cd/lm 1 White SLE SNC8 LES06 58.0° / 76.0 + 74.0° 93 % 1.2 cd/lm	99 57 59 59 59 50 50 50 50 50 50 50 50 50 50 50 50 50	
Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	89 % 1 cd/lm 1 White SLE SNC8 LES06 58.0° / 76.0 + 74.0° 93 % 1.2 cd/lm 1 White	97 57 39 39 39 39 39 39	
Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	89 % 1 cd/lm 1 White SLE SNC8 LES06 58.0° / 76.0 + 74.0° 93 % 1.2 cd/lm 1 White	97 97 97 99 99 99 90	
Peak intensity LEDs/each optic Light colour Required components: F17438_HEKLA-G2- TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	89 % 1 cd/lm 1 White SLE SNC8 LES06 58.0° / 76.0 + 74.0° 93 % 1.2 cd/lm 1 White	97 97 97 99 99 99 99 99 99 99 99 99 99 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:

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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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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