

AMY-50-W-C

~36° wide beam. Assembly with holder C compatible with LEDiL HEKLA. Black version.

SPECIFICATION:

Dimensions	Ø 49.9 mm
Height	13.2 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIALS:

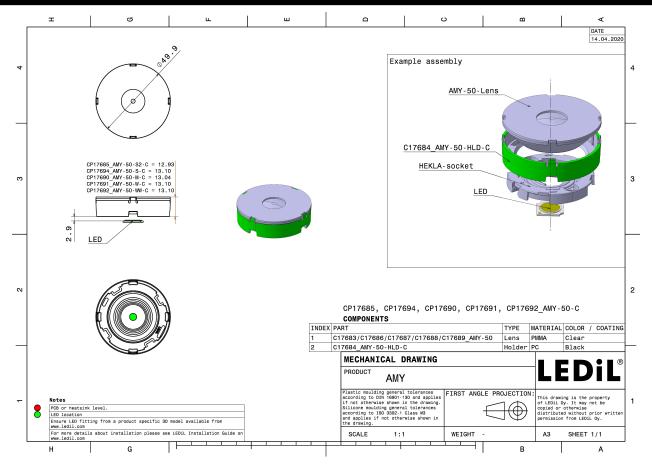
Component	Туре	Material	Colour	Finish
AMY-50-W	Single lens	PMMA	clear	
AMY-50-HLD-C	Holder	PC	black	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CP17691_AMY-50-W-C	510	120	30	9.0
» Box size: 480 x 280 x 300 mm				



PRODUCT DATASHEET CP17691_AMY-50-W-C



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



bridgelux.			90° 90°
LED	V10 Gen 8		
FWHM / FWTM	35.0° / 61.0°		
Efficiency	88 %		
Peak intensity	2 cd/lm		
LEDs/each optic	1		
Light colour	White		er
Required compone	ents:		
F15255_HEKLA			
			300 300
			125 00 125*
bridgelux.			90* 90*
LED	V11 HD Gen 8		75'
FWHM / FWTM	35.0° / 62.0°		$\square [\lambda] \land [\lambda]$
Efficiency	88 %		60° 60°
Peak intensity	2 cd/lm		800
LEDs/each optic	1		
Light colour	White		er er
Required compone			
Bender Wirth: 63	33d Hekla		1630
			38 ⁴ 35 ⁵ 0 ⁶ 35 ⁴
bridgelux.			50° 50°
LED	V13 Gen 8		
FWHM / FWTM	37.0° / 69.0°		75*
Efficiency	85 %		
Peak intensity	1.6 cd/lm		
LEDs/each optic	1		
Light colour	White		97° (3°
Required compone	ents:		1200
F15859_HEKLA	-SOCKET-I		
			30* 30*
bridgolus			90° 90°
brídgelux.			
	V4 HD Gen 7		75*
FWHM / FWTM	36.0° / 56.0°		
Efficiency	89 %		60° 60°
Peak intensity	2.1 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			1600
F15253_HEKLA	-SOCKET-A		
			36° 157 00 100 36°
1			



bridgelux.			90° 90°
LED	V6 HD Gen 7		
FWHM / FWTM	36.0° / 58.0°		
Efficiency	88 %		
Peak intensity	2.1 cd/lm		
LEDs/each optic	1		
Light colour	White		42.
Required compone	nts:		
F15255_HEKLA			1630
			30°
			 159 00 159
bridgelux.			90° 90°
LED	V8 Gen 8		25*
FWHM / FWTM	36.0° / 60.0°		
Efficiency	89 %		60 ⁴ 60 ⁴
Peak intensity	2.1 cd/lm		
LEDs/each optic	1		
Light colour	White		42*
Required compone	nts:	•	
F15253_HEKLA	-SOCKET-A		
			30° 56°
			155° 0° 355
bridgelux.			90° 90°
LED	V9 HD Gen7		75*
FWHM / FWTM	34.0° / 59.0°		
L Efficiency			
Efficiency	86 %		60° 60°
Peak intensity	2.1 cd/lm		60° 60°
Peak intensity LEDs/each optic	2.1 cd/lm 1		
Peak intensity LEDs/each optic Light colour	2.1 cd/lm 1 White		gr 20 gr 20
Peak intensity LEDs/each optic Light colour Required compone	2.1 cd/lm 1 White nts:		gg
Peak intensity LEDs/each optic Light colour	2.1 cd/lm 1 White nts:		61 62 62 62 62 62 62 62 62 62 62 62 62 62
Peak intensity LEDs/each optic Light colour Required compone	2.1 cd/lm 1 White nts:		61 61 61 61 61 61 61 61 61 61 61 61 61 6
Peak intensity LEDs/each optic Light colour Required compone	2.1 cd/lm 1 White nts:		30 30 40 50 50 50 50 50 50 50 50 50 5
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	2.1 cd/lm 1 White nts:		30 32 6 32 30 12 6 6 30 12 6 6
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	2.1 cd/lm 1 White nts: -SOCKET-I		30 10 00 00 30 100 00 00
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	2.1 cd/lm 1 White nts: -SOCKET-I		32. 33. 34. 36. 30. 30. 30. 30. 30. 30. 30. 30
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA bridgetux LED FWHM / FWTM	2.1 cd/lm 1 White nts: -SOCKET-I VERO10 34.0° / 60.0°		32. 33. 36. 25. 36. 25. 36. 35. 36. 35.
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA bridgetux. LED FWHM / FWTM Efficiency	2.1 cd/lm 1 White nts: -SOCKET-I VERO10 34.0° / 60.0° 87 %		90 90 90 90 90 90 90 90 90 90
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA bridgetux. LED FWHM / FWTM Efficiency Peak intensity	2.1 cd/lm 1 White nts: -SOCKET-I VERO10 34.0° / 60.0° 87 % 2 cd/lm		84 23 23
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	2.1 cd/lm 1 White nts: -SOCKET-I VERO10 34.0° / 60.0° 87 % 2 cd/lm 1		84 23 23
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA bridgeLUX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	2.1 cd/lm 1 White nts: -SOCKET-1 VERO10 34.0° / 60.0° 87 % 2 cd/lm 1 White		84 23 23
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	2.1 cd/lm 1 White nts: -SOCKET-I VERO10 34.0° / 60.0° 87 % 2 cd/lm 1 White nts:		84 23
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA bridgeLUX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	2.1 cd/lm 1 White nts: -SOCKET-I VERO10 34.0° / 60.0° 87 % 2 cd/lm 1 White nts:		g. 61 22 24
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	2.1 cd/lm 1 White nts: -SOCKET-I VERO10 34.0° / 60.0° 87 % 2 cd/lm 1 White nts:		g. 61 22 24
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	2.1 cd/lm 1 White nts: -SOCKET-I VERO10 34.0° / 60.0° 87 % 2 cd/lm 1 White nts:		g. 61 22 24



bridgelux.		50° 50°
LED	Vesta DTW 13mm (21W)	
FWHM / FWTM	35.0° / 65.0°	
Efficiency	82 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	gr
Required compone		1200
C16142_HEKLA		
Bender Wirth: 49		
		N ⁰
bridgelux.		
LED	Vooto DT/// 15mm (22)///	
ED FWHM / FWTM	Vesta DTW 15mm (33W) 37.0° / 67.0°	72
	37.0° / 67.0° 83 %	
Efficiency	83 % 1.6 cd/lm	
Peak intensity		
LEDs/each optic	1	
Light colour	White	
Required compone C16142_HEKLA		
Bender Wirth: 49	91 Typ L8	
		20 ¹⁰ 20 ¹⁰ 20 ¹⁰ 20 ¹⁰
bridgelux.		30* 30*
bridgelux. LED	Vesta TW 13mm (18W) DP	301
	Vesta TW 13mm (18W) DP 36.0° / 66.0°	90°
LED		
LED FWHM / FWTM	36.0° / 66.0°	
LED FWHM / FWTM Efficiency	36.0° / 66.0° 83 %	
LED FWHM / FWTM Efficiency Peak intensity	36.0° / 66.0° 83 % 1.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K 92 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K 32 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgeLUX. LED FWHM / FWTM Efficiency	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K 32 Typ L8 Vesta TW 15mm DP 38.0° / 68.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S bridgeLUX. LED FWHM / FWTM Efficiency Peak intensity	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K 32 Typ L8 Vesta TW 15mm DP 38.0° / 68.0° 79 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K 32 Typ L8 Vesta TW 15mm DP 38.0° / 68.0° 79 % 1.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4S bridgeLUX. LED FWHM / FWTM Efficiency Peak intensity	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K 32 Typ L8 Vesta TW 15mm DP 38.0° / 68.0° 79 % 1.4 cd/lm 1 Tunable White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgeLux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K 32 Typ L8 Vesta TW 15mm DP 38.0° / 68.0° 79 % 1.4 cd/lm 1 Tunable White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgeLux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K 22 Typ L8 Vesta TW 15mm DP 38.0° / 68.0° 79 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 45 bridgeLux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White nts: -SOCKET-K 22 Typ L8 Vesta TW 15mm DP 38.0° / 68.0° 79 % 1.4 cd/lm 1 Tunable White nts: -SOCKET-K	



bridgelux.	90°
LED Vesta TW 6mm DP	\wedge
FWHM / FWTM 36.0° / 57.0°	
Efficiency 86 %	60*
Peak intensity 2.1 cd/lm	
LEDs/each optic 1	
Light colour Tunable White	43.
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 504 Typ L8	
20 m	0° 13° 30°
bridgelux.	90*
LED Vesta TW 9mm (9W) DP	\land
FWHM / FWTM 35.0° / 60.0°	
Efficiency 85 %	
Peak intensity 2 cd/lm	BU
LEDs/each optic 1	
Light colour Tunable White	45°
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 489 Typ L8	
	30
30 [°]	o" 15"
	90* 35*
CITIZEN LED CLL02x/CLU02x (LES10)	
	· · · · · · · · · · · · · · · · · · ·
LED CLL02x/CLU02x (LES10)	67 257 997 997
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0°	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 %	00 15°
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1	000
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White	67 157 997 997 997 997 997 997 997 9
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: **	00
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CITIZEN LED CLL03x/CLU03x	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CITTIZEN LED CLL03x/CLU03x FWHM / FWTM 36.0° / 67.0°	0 th 12 th 30 th
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CITTIZEN LED CLL03x/CLU03x FWHM / FWTM 36.0° / 67.0° Efficiency 84 %	0 th 12 th 30 th
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C F17435_HEKLA-G2-C ************************************	0 th 12 th 30 th
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C F17435_HEKLA-G2-C ************************************	0 th 12 th 30 th
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CLL03x/CLU03x FWHM / FWTM 36.0° / 67.0° Efficiency 84 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White	400 00 00 00 00 00 00 00 00 00
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CITIZEEN LED CLL03x/CLU03x FWHM / FWTM 36.0° / 67.0° Efficiency 84 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components:	
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CLL03x/CLU03x FWHM / FWTM 36.0° / 67.0° Efficiency 84 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White	400 00 00 00 00 00 00 00 00 00
LED CLL02x/CLU02x (LES10) FWHM / FWTM 34.0° / 60.0° Efficiency 86 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CITIZEEN LED CLL03x/CLU03x FWHM / FWTM 36.0° / 67.0° Efficiency 84 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components:	400 00 00 00 00 00 00 00 00 00



CITIZE	Ν	20 ⁴ 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CLU700/701/702/703 35.0° / 57.0° 87 % 2.1 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CLU7A2/7A3 36.0° / 56.0° 87 % 2.1 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	CLU7B2 36.0° / 55.0° 88 % 2.1 cd/lm 1 White ents:	
CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17436_HEKLA	CMA1516 35.0° / 60.0° 87 % 2 cd/lm 1 White ents:	



			50° 90
LED	 CMA1825		
FWHM / FWTM	35.0° / 64.0°		75* 75
Efficiency	86 %		
Peak intensity	1.8 cd/lm		
LEDs/each optic	1		
Light colour	White		67 ⁴ 1220
Required compone	nts:		
F15254_HEKLA	-SOCKET-B		
			1600
			304 255 3000 257 30
			90* 99
LED	CMT14xx		
FWHM / FWTM	34.0° / 60.0°		
Efficiency	86 %		
Peak intensity	2 cd/lm		
LEDs/each optic	1		
Light colour	White		937 43
Required compone			
F17435_HEKLA	-G2-C		- 1699
			360 137 01 137 30
			90*
	CMT19xx		90°
			99 ¹ 99 79 00 72
LED	CMT19xx		50 ⁴
LED FWHM / FWTM	CMT19xx 36.0° / 67.0°		99 ⁴ 99 75 ⁴ (0) 69 ⁴ 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CMT19xx 36.0° / 67.0° 84 %		99 ⁴ 90 75 60 ⁴ 60 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White		5 ⁴ 5 ⁴ 5 ⁴ 5 ⁴ 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts:		99 ⁴ 99 ⁴ 99 ⁴ 99 ⁴ 99 ⁴ 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts: -G2-I		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts: -G2-I		2530. 2550. 2550. 2550. 250. 250. 250. 250.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts: -G2-1		2530. 2550. 2550. 2550. 250. 250. 250. 250.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts: -G2-1 CMU10xx		2530. 2550. 2550. 2550. 250. 250. 250. 250.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts: -G2-I CMU10xx 35.0° / 61.0°		2530. 2550. 2550. 2550. 250. 250. 250. 250.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts: -G2-I CMU10xx 35.0° / 61.0° 87 % 2 cd/lm 1		2530. 2550. 2550. 2550. 250. 250. 250. 250.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts: -G2-I CMU10xx 35.0° / 61.0° 87 % 2 cd/lm 1 White		2530. 2550. 2550. 2550. 250. 250. 250. 250.
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 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts: -G2-1 CMU10xx 35.0° / 61.0° 87 % 2 cd/lm 1 White nts:		2530. 2550. 2550. 2550. 250. 250. 250. 250.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts: -G2-1 CMU10xx 35.0° / 61.0° 87 % 2 cd/lm 1 White nts:		2530. 2550. 2550. 2550. 250. 250. 250. 250.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts: -G2-1 CMU10xx 35.0° / 61.0° 87 % 2 cd/lm 1 White nts:		2530. 2550. 2550. 2550. 250. 250. 250. 250.
ED WHM / FWTM Efficiency Peak intensity EDS/each optic .ight colour Required compone F17438_HEKLA CREE (LEC ED WHM / FWTM Efficiency Peak intensity EDS/each optic .ight colour Required compone	CMT19xx 36.0° / 67.0° 84 % 1.6 cd/lm 1 White nts: -G2-1 CMU10xx 35.0° / 61.0° 87 % 2 cd/lm 1 White nts:		2230. 2009 2009 2009 2009 2009 2009 2009 20



			900
LED	CXA/B 13xx		
FWHM / FWTM	36.0° / 57.0°		75
Efficiency	88 %		
Peak intensity	2.1 cd/lm		60° · · · · · · · · · · · · · · · · · · ·
LEDs/each optic	1		
Light colour	White		434 435
Required compone			
F17439_HEKLA			1600
			30°
			15° 0° 15°
			30* 30*
LED	CXA/B 15xx		
FWHM / FWTM	35.0° / 59.0°		
Efficiency	87 %		60
Peak intensity	2.1 cd/lm		
LEDs/each optic	1		
Light colour	White		43° 43°
Required compone	nts:		
F17436_HEKLA	-G2-D		
			36
			15° 0° 15°
LEDIM			90*
LED	LEDIM/C6		94 ³
LED FWHM / FWTM	35.0° / 60.0°		90 ⁴
LED FWHM / FWTM Efficiency	35.0° / 60.0° 87 %		201 202 202 202 203 202
LED FWHM / FWTM Efficiency Peak intensity	35.0° / 60.0° 87 % 2 cd/lm		90 ⁴ 90 ⁴ 90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	35.0° / 60.0° 87 % 2 cd/lm 9		90 ⁴ 90 90 ⁴ 90 90 ⁴ 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 60.0° 87 % 2 cd/lm 9 White		20 ¹ 00 20 ¹ 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	35.0° / 60.0° 87 % 2 cd/lm 9 White nts:		90* 99 90* 99 90* 90 90* 90* 90 90* 90* 90 90* 90* 90* 90 90* 90* 90* 90 90* 90* 90* 90 90* 90* 90* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 60.0° 87 % 2 cd/lm 9 White nts:		90 ⁴ 99 95 95 95 95 95 95 95 95 95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	35.0° / 60.0° 87 % 2 cd/lm 9 White nts:		94 ⁴ 95 ⁴ 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	35.0° / 60.0° 87 % 2 cd/lm 9 White nts:		20° 20° 00° 00° 20° 00° 00° 20° 00° 00° 20° 00° 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	35.0° / 60.0° 87 % 2 cd/lm 9 White nts: -G2-1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	35.0° / 60.0° 87 % 2 cd/lm 9 White nts: -G2-1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	35.0° / 60.0° 87 % 2 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	35.0° / 60.0° 87 % 2 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203 34.0° / 59.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	35.0° / 60.0° 87 % 2 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203 34.0° / 59.0° 86 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	35.0° / 60.0° 87 % 2 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203 34.0° / 59.0° 86 % 2 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	35.0° / 60.0° 87 % 2 cd/lm 9 White nts: -G2-I EDS LUXEON CoB 1202/1203 34.0° / 59.0° 86 % 2 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	35.0° / 60.0° 87 % 2 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203 34.0° / 59.0° 86 % 2 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	35.0° / 60.0° 87 % 2 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203 34.0° / 59.0° 86 % 2 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA	35.0° / 60.0° 87 % 2 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203 34.0° / 59.0° 86 % 2 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17438_HEKLA COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	35.0° / 60.0° 87 % 2 cd/lm 9 White nts: -G2-1 EDS LUXEON CoB 1202/1203 34.0° / 59.0° 86 % 2 cd/lm 1 White nts:		



	EDC	
CUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17437_HEKLA	LUXEON CoB 1204HD 35.0° / 60.0° 86 % 2 cd/lm 1 White ents:	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17436_HEKLA	LUXEON CoB M02/M03 35.0° / 60.0° 87 % 2.1 cd/lm 1 White ents:	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17439_HEKLA	LUXEON CoB S01 36.0° / 57.0° 88 % 2.1 cd/lm 1 White	
C16142_HEKLA Bender Wirth: 4	LUXEON Fusion 12-up (20x24) 35.0° / 61.0° 80 % 1.8 cd/lm 12 White ents: A-SOCKET-K A-RZ-LENS	



🕐 LUMIL	.EDS	2 ³ 2 ³
LED	LUXEON Fusion 21-up (20x24)	
FWHM / FWTM	35.0° / 62.0°	
Efficiency	79 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	21	
Light colour	White	gr or or
Required compone		
C16142_HEKL		
		100
Bender Wirth: 4		20 ⁵ 20 ⁵ 0 ⁴ 10 ⁵ 50 ⁵
	EDS	94°
LED	LUXEON Fusion 27-up (20x24)	
FWHM / FWTM	35.0° / 65.0°	37
Efficiency	78 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	27	
Light colour	White	g, a,
Required compone	ents:	
C16142_HEKL	A-SOCKET-K	
F18158_HEKLA	A-RZ-LENS	
Bender Wirth: 4		
		225 OF 225
ELUM	INUS	50° 50°
	CTM-14 (Tunable White) Gen2	
LED FWHM / FWTM	CTM-14 (Tunable White) Gen2 36.0° / 66.0°	25 ¹ 25 ²
LED	CTM-14 (Tunable White) Gen2	
LED FWHM / FWTM Efficiency Peak intensity	CTM-14 (Tunable White) Gen2 36.0° / 66.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CTM-14 (Tunable White) Gen2 36.0° / 66.0° 83 % 1.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CTM-14 (Tunable White) Gen2 36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CTM-14 (Tunable White) Gen2 36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CTM-14 (Tunable White) Gen2 36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compose	CTM-14 (Tunable White) Gen2 36.0° / 66.0° 83 % 1.7 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 36.0° / 66.0° 83 % 1.7 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 36.0° / 66.0° 83 % 1.7 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 36.0° / 66.0° 83 % 1.7 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 36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8	2500 2500 2500 2500 2500 2500 2500 2500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 36.0° / 66.0° 83 % 1.7 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 36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8 INUS CXM-3 36.0° / 55.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8 INUS CXM-3 36.0° / 55.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8 INUS CXM-3 36.0° / 55.0° 88 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4	CTM-14 (Tunable White) Gen2 36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8 INUS CXM-3 36.0° / 55.0° 88 % 2.1 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 36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8 INUS CXM-3 36.0° / 55.0° 88 % 2.1 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 36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8 INUS CXM-3 36.0° / 55.0° 88 % 2.1 cd/lm 1 White ents:	2500 2500 2500 2500 2500 2500 2500 2500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-14 (Tunable White) Gen2 36.0° / 66.0° 83 % 1.7 cd/lm 1 Tunable White ents: A-SOCKET-K 42 Typ L8 INUS CXM-3 36.0° / 55.0° 88 % 2.1 cd/lm 1 White ents:	



LED	CXM-4	<u>90</u> *
FWHM / FWTM	36.0° / 56.0°	
Efficiency	88 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required component F17435_HEKLA		160.
I IT 435_HEREA	-02-0	
~		
		90* 50
LED	COB L-Type (LES 11)	75
FWHM / FWTM	34.0° / 62.0°	
Efficiency	85 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componen		
F17437_HEKLA	-G2-H	50
		30 ⁶ 2000 36 25 ⁹ 0 ⁶ 25 ⁹
	k	90*
LED	COB L-Type (LES 9)	
LED FWHM / FWTM	35.0° / 59.0°	75
FWHM / FWTM Efficiency	35.0° / 59.0° 86 %	6v. 22
FWHM / FWTM Efficiency Peak intensity	35.0° / 59.0° 86 % 2 cd/lm	23 ⁵ 60 ⁴ 000 000
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	35.0° / 59.0° 86 % 2 cd/lm 1	25
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 59.0° 86 % 2 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	35.0° / 59.0° 86 % 2 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 59.0° 86 % 2 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	35.0° / 59.0° 86 % 2 cd/lm 1 White ents:	27 97 97 1530 1530
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	35.0° / 59.0° 86 % 2 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	35.0° / 59.0° 86 % 2 cd/lm 1 White ents: -G2-H	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17437_HEKLA	35.0° / 59.0° 86 % 2 cd/lm 1 White ents: -G2-H	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17437_HEKLA:	35.0° / 59.0° 86 % 2 cd/lm 1 White ents: G2-H	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F17437_HEKLA:	35.0° / 59.0° 86 % 2 cd/lm 1 White ents: -G2-H COB S-Type (LES 7)	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17437_HEKLA:	35.0° / 59.0° 86 % 2 cd/lm 1 White ents: -G2-H COB S-Type (LES 7) 35.0° / 58.0°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17437_HEKLA:	35.0° / 59.0° 86 % 2 cd/lm 1 White ents: -G2-H COB S-Type (LES 7) 35.0° / 58.0° 88 % 2.1 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17437_HEKLA:	35.0° / 59.0° 86 % 2 cd/lm 1 White ents: -G2-H COB S-Type (LES 7) 35.0° / 58.0° 88 % 2.1 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17437_HEKLA:	35.0° / 59.0° 86 % 2 cd/lm 1 White ents: -G2-H COB S-Type (LES 7) 35.0° / 58.0° 88 % 2.1 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17437_HEKLA:	35.0° / 59.0° 86 % 2 cd/lm 1 White ents: -G2-H COB S-Type (LES 7) 35.0° / 58.0° 88 % 2.1 cd/lm 1 White ents:	8 ⁴ 80 80 80 80 80 80 80 80 80 80 80 80 80
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17437_HEKLA:	35.0° / 59.0° 86 % 2 cd/lm 1 White ents: -G2-H COB S-Type (LES 7) 35.0° / 58.0° 88 % 2.1 cd/lm 1 White ents:	8 ⁴ 80 80 80 80 80 80 80 80 80 80 80 80 80



PHILIF	25	90* 90
LED	Fortimo SLM L09 CoB	
FWHM / FWTM	34.0° / 60.0°	73
Efficiency	86 %	
Peak intensity	2 cd/lm	₩
LEDs/each optic	1	
Light colour	White	45*
Required compone	nts:	
F17435_HEKLA	-G2-C	1630
		36* 38
00000		157 00 354
SAMSI	JNG	90* 90
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	34.0° / 60.0°	
Efficiency	86 %	60.5
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	43 ⁺
Required compone		
F17435_HEKLA	-G2-C	1630
		30* 30
SΛΜSI		10 ⁻) V 30 ⁻
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	38.0° / 70.0°	
Efficiency	84 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		-
F17438_HEKLA	-G2-I	
0.0.0.0.0.		
SVWSI	JNG	90* 90
LED	LC030C/040C G2	75*
FWHM / FWTM	35.0° / 63.0°	
Efficiency	85 %	60 ⁰
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45
0		
Required compone	nts:	
		2000
Required compone		
Required compone		200 9** 200 %



SEOUL		90* 90*
LED	MJT COB LES 14.5	75'
FWHM / FWTM	37.0° / 68.0°	400
Efficiency	84 %	60° 60°
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		1220
F17438_HEKLA	-G2-I	
		300 200 300 300
SEOUL		
SEOUL SEMICONDUCTOR		90°
LED	MJT COB LES 6	75'
FWHM / FWTM	36.0° / 57.0°	
Efficiency	87 %	60° 60°
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	42*
Required compone		1600
F17435_HEKLA	-G2-C	
		39 ⁴ 25 ⁵ 9 ⁴ 25 ⁴
		8°
SEOUL SEMICONDUCTOR	MJT COB LES 9.8	90°
SEOUL SEMICONDUCTOR	MJT COB LES 9.8 34.0° / 60.0°	73°
seoul semiconductor LED FWHM / FWTM	34.0° / 60.0°	36. 30. 36. 30.
seoul semiconductor LED FWHM / FWTM Efficiency	34.0° / 60.0° 86 %	50°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	34.0° / 60.0° 86 % 2 cd/lm	94 [*] 97 98 90 90 90 90 90
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	34.0° / 60.0° 86 % 2 cd/lm 1	94 90 90 90 90 90 90 90 90 90 90 90 90 90
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	34.0° / 60.0° 86 % 2 cd/lm 1 White	94* 90* 74* 90* 94* 90* 95* 95*
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	34.0° / 60.0° 86 % 2 cd/lm 1 White nts:	94* 95% 94* 96% 96* 96% 96% 96%
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	34.0° / 60.0° 86 % 2 cd/lm 1 White nts:	er er
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	34.0° / 60.0° 86 % 2 cd/lm 1 White nts:	er er
stout stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	34.0° / 60.0° 86 % 2 cd/lm 1 White nts: -G2-C	er er
stout stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	34.0° / 60.0° 86 % 2 cd/lm 1 White nts: -G2-C	er er
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	34.0° / 60.0° 86 % 2 cd/lm 1 White nts: -G2-C	er 200 200 200 200 200 200 200 200 200 20
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17435_HEKLA:	34.0° / 60.0° 86 % 2 cd/lm 1 White nts: -G2-C	er 200 200 200 200 200 200 200 200 200 20
seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17435_HEKLA:	34.0° / 60.0° 86 % 2 cd/lm 1 White nts: -G2-C	er 200 200 200 200 200 200 200 200 200 20
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F17435_HEKLA: TRIDON LED FWHM / FWTM	34.0° / 60.0° 86 % 2 cd/lm 1 White nts: -G2-C SLE G7 LES09 34.0° / 59.0°	er 200 200 200 200 200 200 200 200 200 20
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17435_HEKLA: TRIDON LED FWHM / FWTM Efficiency Peak intensity	34.0° / 60.0° 86 % 2 cd/lm 1 White nts: -G2-C SLE G7 LES09 34.0° / 59.0° 86 %	e, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F17435_HEKLA: TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	34.0° / 60.0° 86 % 2 cd/lm 1 White nts: -G2-C SLE G7 LES09 34.0° / 59.0° 86 % 2 cd/lm 1	e, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F17435_HEKLA: TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	34.0° / 60.0° 86 % 2 cd/lm 1 White nts: -G2-C SLE G7 LES09 34.0° / 59.0° 86 % 2 cd/lm 1 White	e, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F17435_HEKLA: TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	34.0° / 60.0° 86 % 2 cd/lm 1 White nts: -G2-C SLE G7 LES09 34.0° / 59.0° 86 % 2 cd/lm 1 White nts:	er 200 200 200 200 200 200 200 200 200 20
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F17435_HEKLA: TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	34.0° / 60.0° 86 % 2 cd/lm 1 White nts: -G2-C SLE G7 LES09 34.0° / 59.0° 86 % 2 cd/lm 1 White nts:	er 200 200 200 200 200 200 200 200 200 20
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F17435_HEKLA: TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	34.0° / 60.0° 86 % 2 cd/lm 1 White nts: -G2-C SLE G7 LES09 34.0° / 59.0° 86 % 2 cd/lm 1 White nts:	er 200 200 200 200 200 200 200 200 200 20



TRIDOM	lic	30*	90*
LED	SLE G7 LES13		
FWHM / FWTM	35.0° / 65.0°	78'	400
Efficiency	84 %	bee -	505
Peak intensity	1.8 cd/lm		
LEDs/each optic	1		
Light colour	White	9×	45*
Required compone	nts:		1230
F17438_HEKLA	-G2-I		$ \times$
			1630
		30	36°
		359	0 ⁶ 723
TRIDOM	NIC	90*	90*
LED	SLE G7 LES15	75	2
FWHM / FWTM	37.0° / 68.0°		
Efficiency	84 %	605	
Peak intensity	1.6 cd/lm		
LEDs/each optic	1		800
Light colour	White	σ·	45*
Required compone	nts:		1230
F17438_HEKLA	-G2-I		
		30" 30"	36*



bridgelux.		90* 90*
LED	V3 HD Gen 8	
FWHM / FWTM	37.0° / 56.0 + 55.0°	75*
Efficiency	91 %	
Peak intensity	2.2 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	g* 63*
Required components:		
F15253_HEKLA-SOC	CKET-A	
		30° 15° 2480 15° 30°
bridgelux.		90* 90*
LED	V3 HD Gen 8 FC	
FWHM / FWTM	38.0 + 37.0° / 55.0°	75*
Efficiency	91 %	
Peak intensity	2.2 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	43*
Required components:	WIIG	
F15255_HEKLA-SOC	rket-C	1679
1 10200_HEREA-000		
		36° <u>15°</u> <u>5680</u> <u>15°</u> <u>36</u> °
bridgelux.		30 ⁴ 35 ⁵ 36 ³⁰ 25 ⁴ 36 ⁴
bridgelux.	V4 HD Gen 8	50° 50° 50° 50°
LED	V4 HD Gen 8 37 0° / 56 0°	<u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30,</u> <u>30, <u>30, <u>30, <u>30, <u>30, <u>30, <u>30, <u>30, </u></u></u></u></u></u></u></u>
LED FWHM / FWTM	37.0° / 56.0°	32. 30. 20. 20. 20. 20. 20. 20. 20. 2
LED FWHM / FWTM Efficiency	37.0° / 56.0° 91 %	60 00 00 30 220 260 20 30 20 20
LED FWHM / FWTM Efficiency Peak intensity	37.0° / 56.0° 91 % 2.2 cd/lm	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	37.0° / 56.0° 91 % 2.2 cd/lm 1	6. 6. 9. 9. 12. 9. 12. 9. 12. 12. 12. 12. 12. 12. 12. 12
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	37.0° / 56.0° 91 % 2.2 cd/lm	22. 64. 900 96. 96. 96. 96. 96. 96. 96. 96.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	37.0° / 56.0° 91 % 2.2 cd/lm 1 White	60 - 100 - 20 90 - 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	37.0° / 56.0° 91 % 2.2 cd/lm 1 White	33* 30* 30* 99* 30* 30* 100 100 10*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	37.0° / 56.0° 91 % 2.2 cd/lm 1 White	25. 26. 90. 90. 90. 90. 90. 90. 90. 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	37.0° / 56.0° 91 % 2.2 cd/lm 1 White	20- 20- 20- 20- 20- 20- 20- 20-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	37.0° / 56.0° 91 % 2.2 cd/lm 1 White	30, 30, 30, 30, 30, 30, 30, 30,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	37.0° / 56.0° 91 % 2.2 cd/lm 1 White SKET-A	Bit Bit 30, 31, 31, 31, 62, 310, 31, 31, 93, 310, 31, 31, 33, 32, 36, 32, 33, 32, 36, 32,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	37.0° / 56.0° 91 % 2.2 cd/lm 1 White CKET-A	22 23 23 23 25 25 25 25 25 25 25 25 25 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	37.0° / 56.0° 91 % 2.2 cd/lm 1 White CKET-A V6 Gen 8 36.0 + 37.0° / 57.0°	32. 32. 94. 94. 95. 10. 96. 96. 96. 96. 96. 96. 96. 96. 96. 96. 96. 96. 96. 96. 96. 96. 97. 10. 96. 96. 97. 10. 96. 96. 97. 10. 96. 96. 97. 10. 96. 96. 97. 10. 96. 10. 97. 10. 96. 10. 97. 10. 96. 10. 97. 10. 96. 10. 97. 10. 96. 10. 97. 10. 96. 10. 97. 10. 97. 10. 97. 10. 97. 10. 97. 10. 97. 10. 97. 10. 97. 10. 97. 10. 97. 10. 97. 10.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	37.0° / 56.0° 91 % 2.2 cd/lm 1 White CKET-A V6 Gen 8 36.0 + 37.0° / 57.0° 90 %	60, 00 00, 30, 10, 10,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	37.0° / 56.0° 91 % 2.2 cd/lm 1 White CKET-A V6 Gen 8 36.0 + 37.0° / 57.0° 90 % 2.2 cd/lm	
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	37.0° / 56.0° 91 % 2.2 cd/lm 1 White CKET-A V6 Gen 8 36.0 + 37.0° / 57.0° 90 % 2.2 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	37.0° / 56.0° 91 % 2.2 cd/lm 1 White CKET-A V6 Gen 8 36.0 + 37.0° / 57.0° 90 % 2.2 cd/lm	50 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -
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 Required components:	37.0° / 56.0° 91 % 2.2 cd/lm 1 White XET-A V6 Gen 8 36.0 + 37.0° / 57.0° 90 % 2.2 cd/lm 1 White	50 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -
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	37.0° / 56.0° 91 % 2.2 cd/lm 1 White XET-A V6 Gen 8 36.0 + 37.0° / 57.0° 90 % 2.2 cd/lm 1 White	50 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -
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 Required components:	37.0° / 56.0° 91 % 2.2 cd/lm 1 White XET-A V6 Gen 8 36.0 + 37.0° / 57.0° 90 % 2.2 cd/lm 1 White	50 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -



bridgelux.		94°	90*
LED	V6 HD Gen 8	75	25*
FWHM / FWTM	36.0° / 57.0 + 58.0°		K
Efficiency	90 %	50°	60*
Peak intensity	2.2 cd/lm		$\langle \ \rangle$
LEDs/each optic	1		\setminus \bigvee
Light colour	White	*** \	45*
Required components		100	
F15255_HEKLA-SO	OCKET-C		$\langle \rangle$
		344	34.0
		107 <u>of</u>	155
bridgelux.		99 ⁴	90*
LED	V8 Gen7	73	25*
FWHM / FWTM	36.0° / 58.0°		\wedge
Efficiency	86 %	99	60.
Peak intensity	2.2 cd/lm		$\langle \ \rangle$
LEDs/each optic	1		\setminus
Light colour	White	<i>∽</i> ∕	45*
Required components		100 - 1	\sim
F15253_HEKLA-S	OCKET-A		$\langle \rangle$
		<u>a</u> .	3(*
		10 <u>10</u>	15°
bridgelux.		50 ⁴	90*
bridgelux. LED	V9 HD Gen 8	3 9*	90*
	V9 HD Gen 8 35.0 + 34.0° / 60.0 + 58.0°	99 ⁴	90*
LED		54 75	90* 75*
LED FWHM / FWTM Efficiency	35.0 + 34.0° / 60.0 + 58.0°	94 77 64 60	90°
LED FWHM / FWTM	35.0 + 34.0° / 60.0 + 58.0° 89 %	94 75 64 00	9°
LED FWHM / FWTM Efficiency Peak intensity	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm	91 71 97 97	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White	94 77 67 6. 50	91* 737 00*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White	94 77 69 6 6	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White	94 77 60 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White	54 72 67 67 67 70 70 70 70 70 70 70 70 70 70 70 70 70	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White	94 77 69 6 7 7 7 7 7 7 7 7 7 7 7 7	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-So	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White S: DCKET-I	51 ⁴	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-So	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White S: DCKET-I	94 94 94 94 94 95 94 95 95 95 95 95 95 95 95 95 95 95 95 95	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-So bridgeLux LED FWHM / FWTM	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White S: DCKET-I Vero SE 13 34.0° / 61.0°		9° 9° 9° 9° 9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St bridgeLux. LED FWHM / FWTM Efficiency	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White :: DCKET-I Vero SE 13 34.0° / 61.0° 80 %	50°	9° 9° 9° 9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St bridgeLux. LED FWHM / FWTM Efficiency Peak intensity	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White :: DCKET-I Vero SE 13 34.0° / 61.0° 80 % 1.9 cd/lm	50°	9° 9° 9° 9° 9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St bridgeLux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White :: DCKET-I Vero SE 13 34.0° / 61.0° 80 % 1.9 cd/lm 1	50°	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White :: DCKET-I Vero SE 13 34.0° / 61.0° 80 % 1.9 cd/lm 1 White	50°	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White :: DCKET-I Vero SE 13 34.0° / 61.0° 80 % 1.9 cd/lm 1 White ::	54° 77 78 60 60 60	9° 9° 9° 9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White :: DCKET-I Vero SE 13 34.0° / 61.0° 80 % 1.9 cd/lm 1 White ::	94 27 64 67 123	9° 9° 9° 9° 9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White :: DCKET-I Vero SE 13 34.0° / 61.0° 80 % 1.9 cd/lm 1 White ::	54° 77 60 60 60	9° 9° 9° 9° 9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15859_HEKLA-St bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	35.0 + 34.0° / 60.0 + 58.0° 89 % 2.2 cd/lm 1 White :: DCKET-I Vero SE 13 34.0° / 61.0° 80 % 1.9 cd/lm 1 White ::	94 27 64 67 123	9°



bridgelux.		50*	90*
LED	VERO13		
FWHM / FWTM	34.0° / 65.0 + 64.0°	27 400	75
Efficiency	88 %		
Peak intensity	2 cd/lm	ege -	60.
LEDs/each optic	1		
Light colour	White		
Required components			
C16142_HEKLA-S	UCKET-K		
		30 ⁵ 50 ⁷ 50 ⁷	35°
bridgelux.		99*	90*
LED	Vesta DTW 6mm		
FWHM / FWTM	36.0° / 58.0°	73	75'
Efficiency	36.0° / 58.0° 90 %		
	90 % 2.2 cd/lm	600 - 500	60.
Peak intensity			
LEDs/each optic	1		
Light colour	White		\times
Required components			
Bender Wirth: 652b	Hekla		
		30* 137 0*	15° 30°
bridgolup		90°	90*
bridgelux.		»·	90*
LED	Vesta DTW 9mm (4W/6W/12W)	50°	90*
LED FWHM / FWTM	35.0° / 59.0°	50°	25
LED FWHM / FWTM Efficiency	35.0° / 59.0° 90 %	59* 59*	90 95
LED FWHM / FWTM Efficiency Peak intensity	35.0° / 59.0° 90 % 2.2 cd/lm	99* 79: 60* 800	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	35.0° / 59.0° 90 % 2.2 cd/lm 1	90* 72 60* 00	6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 59.0° 90 % 2.2 cd/lm 1 White	90* 77 90 90	99 99 99 99 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	35.0° / 59.0° 90 % 2.2 cd/lm 1 White	99* 99* 99* 800 800	99 [,]
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 59.0° 90 % 2.2 cd/lm 1 White	99* 95* 60* • 509	39 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	35.0° / 59.0° 90 % 2.2 cd/lm 1 White	92* 75* 60* •	39'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	35.0° / 59.0° 90 % 2.2 cd/lm 1 White	50 ⁴ 75 60 60 60 60 60 60 60 60 60 60 60 60 60	99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t	35.0° / 59.0° 90 % 2.2 cd/lm 1 White :: 9 Hekla		39 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t	35.0° / 59.0° 90 % 2.2 cd/lm 1 White :: • Hekla	5° (100)	99 99 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t	35.0° / 59.0° 90 % 2.2 cd/lm 1 White :: • Hekla	5° (100)	30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t CITTIZEN LED FWHM / FWTM	35.0° / 59.0° 90 % 2.2 cd/lm 1 White :: • Hekla CLU700/701/702/703 36.2° / 56.3°	5° (100)	99 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t Ender Wirth: 652t ED FWHM / FWTM Efficiency	35.0° / 59.0° 90 % 2.2 cd/lm 1 White 5 Hekla CLU700/701/702/703 36.2° / 56.3° 87 %	5° (100)	22 25 25 25 25 25 25 25 25 25 25 25 25 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t Bender Wirth: 652t ED FWHM / FWTM Efficiency Peak intensity	35.0° / 59.0° 90 % 2.2 cd/lm 1 White T 0 Hekla CLU700/701/702/703 36.2° / 56.3° 87 % 2.1 cd/lm		59 59 59 59 59 59 59 59 59 59 59 59 59 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t Bender Wirth: 652t ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	35.0° / 59.0° 90 % 2.2 cd/lm 1 White T CLU700/701/702/703 36.2° / 56.3° 87 % 2.1 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t Ender Wirth: 652t ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 59.0° 90 % 2.2 cd/lm 1 White T CLU700/701/702/703 36.2° / 56.3° 87 % 2.1 cd/lm 1 White		99 99 99 99 99 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t EDE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	35.0° / 59.0° 90 % 2.2 cd/lm 1 White T CLU700/701/702/703 36.2° / 56.3° 87 % 2.1 cd/lm 1 White ::		99' 99' 99' 99' 99' 99' 99' 99' 99' 99'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t Ender Wirth: 652t ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 59.0° 90 % 2.2 cd/lm 1 White T CLU700/701/702/703 36.2° / 56.3° 87 % 2.1 cd/lm 1 White ::		99' 99' 99' 99' 99' 99'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t CITIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	35.0° / 59.0° 90 % 2.2 cd/lm 1 White T CLU700/701/702/703 36.2° / 56.3° 87 % 2.1 cd/lm 1 White ::		50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components Bender Wirth: 652t CITIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	35.0° / 59.0° 90 % 2.2 cd/lm 1 White T CLU700/701/702/703 36.2° / 56.3° 87 % 2.1 cd/lm 1 White ::		



CITIZEN		90°
	CLU712/713	
	36.0° / 60.0°	75.
	87 %	
	2.1 cd/lm	50*
-	1	
	White	gg4 igg
Required components:		
F17438_HEKLA-G2-I		1600
_		
		20 15° 0° 35°
UMILED	S	90* 90*
	LUXEON CX Plus CoB L08 (Gen2)	
	34.0° / 66.0°	75°
	87 %	
-	1.9 cd/lm	60*60*
	1	
	White	42. 42.
Required components:		
Bender Wirth: 637a He	ekla	
		1699
1		a
		30 15° 23000 15°
	S	25 ⁴ 25 ⁴ 25 ⁴ 25 ⁴
	S LUXEON CoB 1202/1203	29 ⁴ 237 29 ⁴⁰ 237 29 ⁴⁰
LED		30° 30° 30° 30°
LED FWHM / FWTM	LUXEON CoB 1202/1203	
LED FWHM / FWTM Efficiency	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0°	60 00 00 99 99 15 00
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 %	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOCI	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White KET-H	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOCI	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White KET-H	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOCI	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White KET-H	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOCI	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White KET-H S LUXEON CoB 1202/1203 34.2° / 59.3 + 58.3°	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOCI	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White KET-H S LUXEON CoB 1202/1203 34.2° / 59.3 + 58.3° 85 %	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOCI	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White KET-H S LUXEON CoB 1202/1203 34.2° / 59.3 + 58.3° 85 % 2.1 cd/lm	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOCI	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White KET-H S LUXEON CoB 1202/1203 34.2° / 59.3 + 58.3° 85 % 2.1 cd/lm 1	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOCI	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White KET-H S LUXEON CoB 1202/1203 34.2° / 59.3 + 58.3° 85 % 2.1 cd/lm	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOCI CONTINUED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White KET-H S LUXEON CoB 1202/1203 34.2° / 59.3 + 58.3° 85 % 2.1 cd/lm 1 White	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOCI	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White KET-H S LUXEON CoB 1202/1203 34.2° / 59.3 + 58.3° 85 % 2.1 cd/lm 1 White	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SOCI ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1202/1203 35.0 + 34.0° / 60.0° 89 % 2.2 cd/lm 1 White KET-H S LUXEON CoB 1202/1203 34.2° / 59.3 + 58.3° 85 % 2.1 cd/lm 1 White	000 000 000 000 000 000 000 000



UMILE	DS	90*	
LED	LUXEON CoB 1202HD		
FWHM / FWTM	36.0° / 58.0°		
Efficiency	90 %	600-	
Peak intensity	2.2 cd/lm		
LEDs/each optic	1		
Light colour	White	g.	
Required components:		500	
F15848_HEKLA-SC	OCKET-G		
		34	
	DC	1 10 ⁷ 360	12,
		90*	9
LED	LUXEON CoB 1204/1205		\rightarrow
FWHM / FWTM	35.0 + 34.0° / 64.0°		
Efficiency	87 %	90 × 1	\times \rightarrow
Peak intensity	2 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
Bender Wirth: 632a	Hekla XL		
		30* 2000 125 0*	12,
	DS	99*	90
LED	LUXEON CoB 1205HD		
LED FWHM / FWTM		72	~
	LUXEON CoB 1205HD	77	
FWHM / FWTM Efficiency	LUXEON CoB 1205HD 34.0° / 62.0°	79. 60. 00	~
FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1205HD 34.0° / 62.0° 88 %	22	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm	75 60 00	
FWHM / FWTM	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White	97. 90 90	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White	97. 000 - 000 - 100 -	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White	79. 60. 00.	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White	25 69 70 70 70 70 70 70 70 70 70 70 70 70 70	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SC	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White DCKET-H		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SC	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White CCKET-H		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SC	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White DCKET-H		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SC	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White CKET-H DS LUXEON CoB 1208 31.0° / 64.0°	30 ⁴ 10 ⁹ 0 ⁴	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SC	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White DCKET-H LUXEON CoB 1208 31.0° / 64.0° 86 %	30 ⁴ 10 ⁹ 0 ⁴	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SC	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White DCKET-H DS LUXEON CoB 1208 31.0° / 64.0° 86 % 2 cd/lm	30 ⁴ 10 ⁹ 0 ⁴	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SC	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White DCKET-H DS LUXEON CoB 1208 31.0° / 64.0° 86 % 2 cd/lm 1	30 ⁴ 10 ⁹ 0 ⁴	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SC	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White DCKET-H DS LUXEON CoB 1208 31.0° / 64.0° 86 % 2 cd/lm 1 White	30 ⁴ 10 ⁹ 0 ⁴	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SC CONTINUE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White DCKET-H DS LUXEON CoB 1208 31.0° / 64.0° 86 % 2 cd/lm 1 White	30 ⁴ 10 ⁹ 0 ⁴	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SC CONTINUE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White DCKET-H DS LUXEON CoB 1208 31.0° / 64.0° 86 % 2 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15858_HEKLA-SC CONTINUE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1205HD 34.0° / 62.0° 88 % 2.1 cd/lm 1 White DCKET-H DS LUXEON CoB 1208 31.0° / 64.0° 86 % 2 cd/lm 1 White		



	DS	50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F15254_HEKLA-S		
	DS	90 ⁺ 0 90 ⁺
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F15256_HEKLA-S		
A		10 ¹ 10 ²
NICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Bender Wirth: 652		
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F15255_HEKLA-S	LC003D / LC006D / LC009D / LC013D 35.2° / 60.3° 84 % 2 cd/lm 1 White S:	



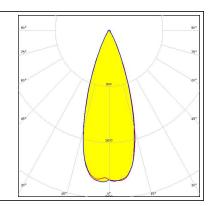
TRIDONIC

F17435_HEKLA-G2-C

LED

FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour

SLE SNC8 LES06 36.0° / 57.0 + 56.0° 90 % 2.2 cd/lm 1 White Required components:





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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