

PRODUCT DATASHEET F14740_BROOKE-G2-W

BROOKE-G2-W

~50° wide beam compatible with LEDiL HEKLA.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 45.0 mm
Height	18.9 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component BROOKE-G2-W

Type Reflector **Material** PC

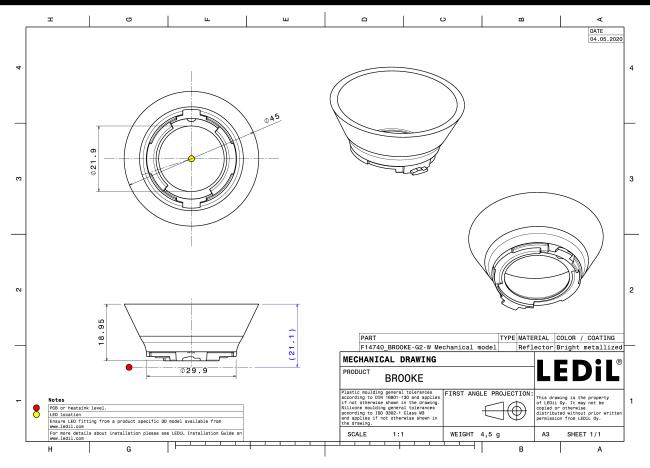
Colour	Finish	Coating
metal		lacquer

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F14740_BROOKE-G2-W	720	45	45	5.2
» Box size: 480 x 280 x 300 mm				



PRODUCT DATASHEET F14740_BROOKE-G2-W



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



bridgelux.			-	90*	90°
LED	V10 Gen7				
FWHM / FWTM	40.0° / 94.0°			75°	
Efficiency	94 %				400
Peak intensity	1.2 cd/lm				
LEDs/each optic	1				
Light colour	White			95	65*
Required compone	ents:				
F15255_HEKLA	-SOCKET-C				
				36°	0° 15° 30°
bridgelux.				90*	90°
LED	V10 Gen7				
FWHM / FWTM	44.0° / 94.0°			78*	
Efficiency	88 %				
Peak intensity	1.1 cd/lm				400
LEDs/each optic	1				
Light colour	White			95°	65.
Required compone	ents:				200
F15255_HEKLA	-SOCKET-C				
C14658_BARBA					
				30° 35°	22. 35°
bridgelux.			1000	90°	90*
bridgelux. LED	V4 HD			904	90*
LED	V4 HD 30.0° / 92.0°		1	94 75	90*
LED FWHM / FWTM	V4 HD 30.0° / 92.0° 89 %			32	50°
LED	30.0° / 92.0°			64 99	9°
LED FWHM / FWTM Efficiency	30.0° / 92.0° 89 %			90 ⁴	40 B*
LED FWHM / FWTM Efficiency Peak intensity	30.0° / 92.0° 89 % 1.8 cd/lm			90 ⁴ 77 64 0	00 9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 92.0° 89 % 1.8 cd/lm 1 White			99 ⁹ 77 69 69	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents:			99 ⁵ 33 97	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: -SOCKET-A			99 ⁶ 97 0. 0.	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: -SOCKET-A			90 ⁵ 73 97 97 97 97 97	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: -SOCKET-A				200 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C14658_BARB/	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: -SOCKET-A			30- 157	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C14658_BARB/	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: -SOCKET-A ARA-RZ-LENS			300 200	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C14658_BARB/ bridgeLux. LED FWHM / FWTM Efficiency	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: ARA-RZ-LENS V4 HD 21.0° / 92.0° 94 %			30- 157	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C14658_BARB/ bridgeLux LED FWHM / FWTM Efficiency Peak intensity	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: -SOCKET-A ARA-RZ-LENS			33* _ 25*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C14658_BARB/ Dridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: ARA-RZ-LENS V4 HD 21.0° / 92.0° 94 %			33* _ 25*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C14658_BARBA C14658_BARBA bridgeLUX LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: ASOCKET-A ARA-RZ-LENS V4 HD 21.0° / 92.0° 94 % 1.7 cd/lm 1 White			33* _ 25*	40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C14658_BARB/ Dridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: ASOCKET-A ARA-RZ-LENS V4 HD 21.0° / 92.0° 94 % 1.7 cd/lm 1 White ents:			g. 33 35 35 35 35	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C14658_BARBA C14658_BARBA bridgeLUX LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: ASOCKET-A ARA-RZ-LENS V4 HD 21.0° / 92.0° 94 % 1.7 cd/lm 1 White ents:			g. 33 35 35 35 35	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C14658_BARB/ Dridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: ASOCKET-A ARA-RZ-LENS V4 HD 21.0° / 92.0° 94 % 1.7 cd/lm 1 White ents:			g. 33 35 35 35 35	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C14658_BARB/ Dridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	30.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: ASOCKET-A ARA-RZ-LENS V4 HD 21.0° / 92.0° 94 % 1.7 cd/lm 1 White ents:			g. 33 35 35 35 35	



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA: C14658_BARBA	SOCKET-C	50° (0) 50°
bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		51 52 64 60 60 60 60 60 60 60 60 60 60
bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA: C14658_BARBA	SOCKET-I	20, 150 Ex 20, 00 - 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
bridgeluX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA		59 ⁴ 97 79 69 67 60 60 60 60 60 60 60



bridgelux.		50° 50°
LED	VERO10	
FWHM / FWTM	41.0° / 94.0°	
Efficiency	92 %	600 50°
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	97× 95*
Required compone	nts:	
F15616_HEKLA	-SOCKET-F	
C14658_BARBA	RA-RZ-LENS	
		30° 30° 30°
bridgelux.		90*
LED	VERO10	
FWHM / FWTM	39.0° / 94.0°	
Efficiency	94 %	400
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	97 · 800 93*
Required component		
F15616_HEKLA	-SOCKET-F	
		1200
		36 ¹⁶ 15 ¹⁷ 9 ¹⁶ 15 ¹⁷
(
bridgelux.		90° 90°
bridgelux. LED	VERO13	5°
	VERO13 44.0° / 92.0°	30 ³
LED		99 ⁴ 90 ⁴
LED FWHM / FWTM	44.0° / 92.0°	99 ⁴ 90 ⁴ 25 ⁵ 60 ⁴ 60 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	44.0° / 92.0° 90 % 1.2 cd/lm 1	50 ⁴ 50 ⁴ 35 ⁴ 60 ⁴ 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	44.0° / 92.0° 90 % 1.2 cd/lm 1 White	9 ¹ 9 ¹ 9 ¹ 9 ¹ 9 ¹ 9 ¹ 9 ¹ 9 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts:	50 ⁴ 75 ⁵ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts:	50 ⁴ 50 ⁴ 72 ⁵ 600 60 ⁴ 5 ⁴ 600 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts:	99 ⁴ 99 ⁴ 75 ⁴ 66 ⁴ 66 66 66 66 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts:	25 00 127 26 00 00 27 00 29 00 29 00 20 0 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts: -SOCKET-K	<u>1354</u> 04 <u>156</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts: -SOCKET-K	<u>1354</u> 04 <u>156</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts: -SOCKET-K	<u>1354</u> 04 <u>156</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	44.0° / 92.0° 90 % 1.2 cd/m 1 White nts: -SOCKET-K	<u>1354</u> 04 <u>156</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Dridgelux. LED FWHM / FWTM Efficiency Peak intensity	44.0° / 92.0° 90 % 1.2 cd/m 1 White nts: -SOCKET-K	<u>1354</u> 04 <u>156</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Dridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts: -SOCKET-K VERO18 62.0° / 97.0° 89 % 0.9 cd/lm	<u>1354</u> 04 <u>156</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Dridgelux. LED FWHM / FWTM Efficiency Peak intensity	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts: -SOCKET-K VERO18 62.0° / 97.0° 89 % 0.9 cd/lm 1 White	<u>1394</u> 94 199
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA DFMGgeLUX LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts: -SOCKET-K VERO18 62.0° / 97.0° 89 % 0.9 cd/lm 1 White nts:	<u>1354</u> 04 <u>156</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts: -SOCKET-K VERO18 62.0° / 97.0° 89 % 0.9 cd/lm 1 White nts:	<u>1354</u> 04 <u>156</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	44.0° / 92.0° 90 % 1.2 cd/lm 1 White nts: -SOCKET-K VERO18 62.0° / 97.0° 89 % 0.9 cd/lm 1 White nts:	<u>1354</u> 04 <u>156</u>



bridgelux.	90°
LED Vesta DTW 13mm (21W)	
FWHM / FWTM 55.0° / 96.0°	200
Efficiency 83 %	
Peak intensity 0.9 cd/lm	
LEDs/each optic 1	400
Light colour Tunable White	45*
Required components:	600
C16142_HEKLA-SOCKET-K	
C14658_BARBARA-RZ-LENS	
Bender Wirth: 491 Typ L8	
	0° 15° 3¢*
bridgelux.	90*
LED Vesta DTW 13mm (21W)	
FWHM / FWTM 50.0° / 94.0°	
Efficiency 89 %	
Peak intensity 1 cd/lm	400
LEDs/each optic 1	
Light colour Tunable White	65*
Required components:	X
C16142_HEKLA-SOCKET-K	**
Bender Wirth: 491 Typ L8	
	300
15	0. 32.
bridgelux.	90*
bridgelux.	90*
LED Vesta DTW 15mm (33W)	30,
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0°	
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 %	50
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm	99
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1	99 99 90
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White	80
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: ••••••••••••••••••••••••••••••••••••	
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K	60
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: •	60 00
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K	
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8	
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8 bridgeLX. LED Vesta DTW 15mm (33W)	900 900 900 900 900 900 900 900 900 900
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8 bridgeLX. LED Vesta DTW 15mm (33W)	
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8 bridgeluk LED Vesta DTW 15mm (33W) FWHM / FWTM 53.0° / 95.0°	
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8 bridgeluk. LED Vesta DTW 15mm (33W) FWHM / FWTM 53.0° / 95.0° Efficiency 83 %	
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8 bridgetuk LED Vesta DTW 15mm (33W) FWHM / FWTM 53.0° / 95.0° Efficiency 83 % Peak intensity 0.9 cd/lm	
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8 bridgetux. LED Vesta DTW 15mm (33W) FWHM / FWTM 53.0° / 95.0° Efficiency 83 % Peak intensity 0.9 cd/lm LEDs/each optic 1	
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8 bridgeLX. LED Vesta DTW 15mm (33W) FWHM / FWTM 53.0° / 95.0° Efficiency 83 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White	
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8 bridget/K LED Vesta DTW 15mm (33W) FWHM / FWTM 53.0° / 95.0° Efficiency 83 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:	
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8 bridgeLR. LED Vesta DTW 15mm (33W) FWHM / FWTM 53.0° / 95.0° Efficiency 83 % Peak intensity 0.9 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K	
LED Vesta DTW 15mm (33W) FWHM / FWTM 52.0° / 93.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8 bridget/K LED Vesta DTW 15mm (33W) FWHM / FWTM 53.0° / 95.0° Efficiency 83 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components:	



bridgelux.		90*	90*
LED	Vesta DTW 9mm (4W/6W/12W)		\land
FWHM / FWTM	34.0° / 89.0°	73	
Efficiency	90 %		- 400
Peak intensity	1.5 cd/lm	69°	60*
LEDs/each optic	1		
Light colour	White		870
Required componer			
C16142_HEKLA			
Bender Wirth: 49			
		70' 327	18 ⁰ 0 30°
bridgelux.		8 ³	90*
LED	Vesta DTW 9mm (4W/6W/12W)		\frown
FWHM / FWTM	41.0° / 92.0°	33	200
Efficiency	85 %		
Peak intensity	1.1 cd/lm		400
LEDs/each optic	1		
Light colour	White	er de la companya de	43*
Required componer	nts:		600
C16142_HEKLA			
C14658_BARBA			
Bender Wirth: 49		30	30"
		15	1000 15°
bridgelux.		99*	90*
bridgelux. LED	Vesta TW 13mm (25W) CSP	59 ⁴	50*
	Vesta TW 13mm (25W) CSP 48.0° / 94.0°	99 ⁴	200
LED		99° 25	20
LED FWHM / FWTM	48.0° / 94.0°	60× 22- 24-	200
LED FWHM / FWTM Efficiency	48.0° / 94.0° 83 %	80. 23 24	20
LED FWHM / FWTM Efficiency Peak intensity	48.0° / 94.0° 83 % 1 cd/lm	47. 59. 59.	20 57 20 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	48.0° / 94.0° 83 % 1 cd/lm 1 White	5° 5°	20 59 20 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	48.0° / 94.0° 83 % 1 cd/lm 1 White nts:	57 57 60 77	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	48.0° / 94.0° 83 % 1 cd/lm 1 White hts: SOCKET-K	5° 5° 6°	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA	48.0° / 94.0° 83 % 1 cd/lm 1 White hts: -SOCKET-K RA-RZ-LENS	20- 20- 22- 23- 23- 23-	200 59° 200 60° 600 60° 000 60° 000 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA C14658_BARBA	48.0° / 94.0° 83 % 1 cd/lm 1 White hts: -SOCKET-K RA-RZ-LENS		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA C14658_BARBA Bender Wirth: 49	48.0° / 94.0° 83 % 1 cd/lm 1 White hts: -SOCKET-K RA-RZ-LENS		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49	48.0° / 94.0° 83 % 1 cd/lm 1 White hts: -SOCKET-K RA-RZ-LENS 2 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49	48.0° / 94.0° 83 % 1 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 2 Typ L8 Vesta TW 6mm DP		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA C14658_BARBA Bender Wirth: 49	48.0° / 94.0° 83 % 1 cd/lm 1 White hts: -SOCKET-K RA-RZ-LENS 2 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	48.0° / 94.0° 83 % 1 cd/lm 1 White ts: SOCKET-K RA-RZ-LENS 2 Typ L8 Vesta TW 6mm DP 27.0° / 89.0° 89 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49 bridgelux. LED FWHM / FWTM Efficiency Peak intensity	48.0° / 94.0° 83 % 1 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 2 Typ L8 Vesta TW 6mm DP 27.0° / 89.0° 89 % 1.6 cd/lm		200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	48.0° / 94.0° 83 % 1 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 2 Typ L8 Vesta TW 6mm DP 27.0° / 89.0° 89 % 1.6 cd/lm 1 White		200 400 600 600 600 600 600 600 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA C14658_BARBA Bender Wirth: 49 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	48.0° / 94.0° 83 % 1 cd/lm 1 White hts: -SOCKET-K RA-RZ-LENS 2 Typ L8 Vesta TW 6mm DP 27.0° / 89.0° 89 % 1.6 cd/lm 1 White hts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA C14658_BARBA Bender Wirth: 49 bridgetux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	48.0° / 94.0° 83 % 1 cd/lm 1 White hts: -SOCKET-K RA-RZ-LENS 2 Typ L8 Vesta TW 6mm DP 27.0° / 89.0° 89 % 1.6 cd/lm 1 White hts: -SOCKET-K		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49 Drogelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA:	48.0° / 94.0° 83 % 1 cd/lm 1 White hts: -SOCKET-K RA-RZ-LENS 2 Typ L8 Vesta TW 6mm DP 27.0° / 89.0° 89 % 1.6 cd/lm 1 White hts: -SOCKET-K		



bridgelux.		
LED	Vesta TW 6mm DP	
FWHM / FWTM	36.0° / 92.0°	
Efficiency	84 %	
Peak intensity	1.2 cd/lm	
-		
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA		
C14658_BARBA		
Bender Wirth: 50	14 Typ L8	
bridgelux.		10 ⁴
LED	Vesta TW 9mm (12W) CSP	
FWHM / FWTM	36.0° / 90.0°	
Efficiency	84 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	gr.
Required component		
C16142_HEKLA		
C14658_BARBA		
_		1270
Bender Wirth: 48	этур со	36*
		125 07 125*
CITIZE	N	***
		90 ⁴
CITIZE	N CLC020 Series (Dim-To-Warm) 38.0° / 91.0°	25 de 15.
CITIZE LED FWHM / FWTM	CLC020 Series (Dim-To-Warm) 38.0° / 91.0°	
CITIZE LED FWHM / FWTM Efficiency	CLC020 Series (Dim-To-Warm)	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 %	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 48	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 17 Typ L8	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 48 CITTIZE	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 7 Typ L8	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 48 CITTIZE LED	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 7 Typ L8 N CLC020 Series (Dim-To-Warm)	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C16142_HEKLA C14658_BARBA Bender Wirth: 48 CITTIZE LED FWHM / FWTM	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 87 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° / 91.0°	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C16142_HEKLA C14658_BARBA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 7 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 %	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C16142_HEKLA C14658_BARBA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 57 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C16142_HEKLA C14658_BARBA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 17 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C16142_HEKLA C14658_BARBA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 17 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA C14658_BARBA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: SOCKET-K RA-RZ-LENS 7 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 7 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 7 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C14658_BARBA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 7 Typ L8 N CLC020 Series (Dim-To-Warm) 38.0° / 91.0° 83 % 1.2 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS	



CITIZE	N	8° 8
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 C14658_BARB/ Bender Wirth: 4	CLC030 Series (Dim-To-Warm) 53.0° / 96.0° 81 % 0.9 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS	77 64 67 67 60 70 60 70 70 70 70 70 70 70 70 70 70 70 70 70
CITIZE	N	90 ⁴
LED	CLC030 Series (Dim-To-Warm)	
FWHM / FWTM	49.0° / 94.0°	
Efficiency	87 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone C16142_HEKLA		
	NT	200 20°
CITIZE	N	90 ⁴
LED	CLU700/701/702	27
FWHM / FWTM	33.0° / 91.0°	
Efficiency	90 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone F15255_HEKLA		
C14658_BARB/		30 ⁴ 23 ³ 0 ⁴ 35 ¹
CITIZE	N	94
	CLU700/701/702	77
FWHM / FWTM	32.0° / 93.0°	
FWHM / FWTM Efficiency	32.0° / 93.0° 94 %	50 - 40 - 50 - 50 - 50 - 50 - 50 - 50 -
FWHM / FWTM Efficiency Peak intensity	32.0° / 93.0° 94 % 1.5 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	32.0° / 93.0° 94 % 1.5 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	32.0° / 93.0° 94 % 1.5 cd/lm 1 White	gr gr gr
FWHM / FWTM Efficiency	32.0° / 93.0° 94 % 1.5 cd/lm 1 White ents:	



CITIZE	N	39 ¹⁴
LED	CLU7A2 (LES 4.2mm)	
FWHM / FWTM	24.0° / 92.0°	77
Efficiency	93 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	e.
Required compone	ents:	
F15255_HEKLA		
		20°
CITIZE	N	90°
LED	LCN-C01B (Tunable White)	
FWHM / FWTM	38.0° / 92.0°	
Efficiency	84 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
C14658_BARBA	ARA-RZ-LENS	
Bender Wirth: 4	81 Typ L8	346 1220 3
OTTIZE	N.T.	322, 64, 32,
CITIZE	.IN	50° -
LED	LCN-C02B (Tunable White)	79
		75 200
LED FWHM / FWTM	LCN-C02B (Tunable White) 48.0° / 95.0° 83 %	
LED FWHM / FWTM Efficiency Peak intensity	LCN-C02B (Tunable White) 48.0° / 95.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1	27 - 20 99 - 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS 81 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 44	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS 81 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARB/ Bender Wirth: 44	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS 81 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARB/ Bender Wirth: 44 CI4658_LED FWHM / FWTM	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS 81 Typ L8 N LCN-C02B (Tunable White)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 44 CITTIZE LED FWHM / FWTM Efficiency	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS 81 Typ L8 N LCN-C02B (Tunable White) 45.0° / 92.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARB/ Bender Wirth: 44 CITTIZE LED FWHM / FWTM Efficiency Peak intensity	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS 81 Typ L8 X LCN-C02B (Tunable White) 45.0° / 92.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 C14658_BARB/ Bender Wirth: 44 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS 81 Typ L8 VN LCN-C02B (Tunable White) 45.0° / 92.0° 88 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARB/ Bender Wirth: 4	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS 81 Typ L8 VN LCN-C02B (Tunable White) 45.0° / 92.0° 88 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 C14658_BARB/ Bender Wirth: 44 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS 81 Typ L8 CN -C02B (Tunable White) 45.0° / 92.0° 88 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARB/ Bender Wirth: 4: CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS 81 Typ L8 CN -C02B (Tunable White) 45.0° / 92.0° 88 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARB/ Bender Wirth: 4: CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LCN-C02B (Tunable White) 48.0° / 95.0° 83 % 1 cd/lm 1 White ents: A-SOCKET-K ARA-RZ-LENS 81 Typ L8 CN -C02B (Tunable White) 45.0° / 92.0° 88 % 1.1 cd/lm 1 White ents:	



	D	1.000	90*	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA	CMA1516 45.0° / 95.0° 93 % 1.1 cd/lm 1 White ents:		71 72 72 77 77 80 80 80 80 80	
	2	1000	15° 1500	72,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15254_HEKLA			25°	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	3			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CMT14xx 45.0° / 95.0° 93 % 1.1 cd/lm 1 White ents:		25°	52°
CREE CLEO ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	CXA/B 13xx 34.0° / 94.0° 94 % 1.4 cd/lm 1 White ents:		90* 735 65* 65* 600 1000 1000	90°



	D	90° 90°
LED	CXA/B 15xx	
FWHM / FWTM	41.0° / 95.0°	
Efficiency	93 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr cr
Required compone		
F15256_HEKL4		
		30
		100 100 100 100 100 100 100 100 100 100
	D	<u>90</u> ° 90'
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM / FWTM	51.0° / 95.0°	
Efficiency	94 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	er d
Required compone		
F15256_HEKLA	A-SOCKET-D	
		340 30 00 100 30
	.EDS	90 ⁴ 90 ⁴
LED FWHM / FWTM	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0°	
LED	LUXEON CX Plus CoB L08 (Gen2)	
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0°	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compose	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compose	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents: 37a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents: 37a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L08 (Gen2)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 84 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 Mediate Compone Bender Wirth: 6 Component Bender Wirth: 6 Component Be	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 84 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 WIM / WITH: 6 FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 84 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 COMPART LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 84 % 0.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 CLUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 84 % 0.9 cd/lm 1 White ents: ARA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 COMPART Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 84 % 0.9 cd/lm 1 White ents: ARA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 CLUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB	LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 92 % 1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L08 (Gen2) 55.0° / 95.0° 84 % 0.9 cd/lm 1 White ents: ARA-RZ-LENS	



	EDS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	LUXEON CoB 1202HD 32.0° / 93.0° 93 % 1.4 cd/lm 1 White nts:	
	EDS	25° 25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA		
	EDS	90 ⁴ 90 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 50.0° / 95.0° 93 % 1.1 cd/lm 1 White nts:	
UMIL	EDS	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CoB 1208 54.0° / 95.0° 91 % 1 cd/lm 1 White nts:	



🖉 LUMIL	.EDS	90%
LED	LUXEON CX Plus CoB - HD S01H4	
FWHM / FWTM	32.0° / 90.0°	
Efficiency	86 %	400
Peak intensity	1.4 cd/lm	60° 60
LEDs/each optic	1	
Light colour	White	95° as
Required compone		
C14658_BARB		
Bender Wirth: 6		1230
		30° 0° 13° 50
	.EDS	90
LED	LUXEON CX Plus CoB - HD S01H4	
FWHM / FWTM	25.0° / 90.0°	75°
Efficiency	92 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	67
Required compone	ents:	1230
Bender Wirth: 6		
		100
		30"
	.EDS	
LED	LUXEON CX Plus CoB - HD S01H6 / HD S02H6	
FWHM / FWTM	32.0° / 90.0°	
Efficiency	86 %	400
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gr as
Required compone	ents:	
C14658_BARB	ARA-RZ-LENS	
Bender Wirth: 6	34c Hekla	1220
		36° 15° 0° 15° 30
	.EDS	90*
LED	LUXEON CX Plus CoB - HD S01H6 / HD S02H6	
FWHM / FWTM	27.0° / 90.0°	73* 73
Efficiency	92 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	g. a
Required compone	ents:	1230
Bender Wirth: 6		
		34



M LUMIL	.EDS	80° - 90°
LED	LUXEON CX Plus CoB - HD S04H9	
FWHM / FWTM	43.0° / 92.0°	
Efficiency	86 %	60 ⁻ 60 ⁻
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required compone	ents:	
C14658_BARBA	ARA-RZ-LENS	
Bender Wirth: 6	34c Hekla	
	EDC	20° 15° 150° 15°
	EUS	50' 50'
LED	LUXEON CX Plus CoB - HD S04H9	75.
FWHM / FWTM	42.0° / 92.0°	
Efficiency	92 %	601 (400 -) () () () () () () () () ()
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
Bender Wirth: 6	34c Hekla	
		30 ⁴ 10 ⁵ 0 ⁴ 10 ⁵
🖉 LUMIL	.EDS	90'
	LUXEON CX Plus CoB L04 / L05 (Gen2)	
		39 ⁴ 73
LED	LUXEON CX Plus CoB L04 / L05 (Gen2)	
LED FWHM / FWTM	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0°	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents: 37a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents: 37a Hekla	10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents: 37a Hekla	10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White white STA Hekla LUXEON CX Plus CoB L04 / L05 (Gen2)	10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L04 / L05 (Gen2) 48.0° / 94.0°	10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents: 37a Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 48.0° / 94.0° 85 %	10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L04 / L05 (Gen2) 48.0° / 94.0° 85 % 1 cd/lm	10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 WIM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents: 37a Hekla EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 48.0° / 94.0° 85 % 1 cd/lm 1 White	10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 With Compose EUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L04 / L05 (Gen2) 48.0° / 94.0° 85 % 1 cd/lm 1 White ents:	10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 COMPARTMENTINE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L04 / L05 (Gen2) 48.0° / 94.0° 85 % 1 cd/lm 1 White ents: ARA-RZ-LENS	10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L04 / L05 (Gen2) 50.0° / 94.0° 92 % 1.1 cd/lm 1 White ents: 37a Hekla LUXEON CX Plus CoB L04 / L05 (Gen2) 48.0° / 94.0° 85 % 1 cd/lm 1 White ents: ARA-RZ-LENS	127 129 127



UMIL	EDS	90 ⁴ 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6		
	EDS	90* 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6	LUXEON CX Plus CoB M02 / M03 (Gen2) 40.0° / 91.0° 86 % 1.2 cd/lm 1 White ents: ARA-RZ-LENS 41a Hekla	
UMIL	.EDS	90'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	34c Hekla	
	.EDS	94*9V
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6	ARA-RZ-LENS	



C LUMI	NUS	84	90*
LED	CDM-14 (Dim-To-Warm)		
FWHM / FWTM	51.0° / 95.0°	25	75*
Efficiency	81 %		
Peak intensity	0.9 cd/lm		
LEDs/each optic	1		х
Light colour	White	gr.	
Required componer			
C16142_HEKLA			
C14658_BARBA			
Bender Wirth: 49		26 207 100	35°
	NUS		90*
LED	CDM-14 (Dim-To-Warm)		
FWHM / FWTM	46.0° / 93.0°	79	73'
Efficiency	86 %		$\langle \ $
Peak intensity	1.1 cd/lm		
LEDs/each optic	1		
Light colour	White	gr	45°
Required componer			
C16142_HEKLA			
Bender Wirth: 49			\sim
	<u>, , , , , , , , , , , , , , , , , , , </u>		X
		157	150
L			
	NUS	30*	90*
			90*
	NUS CDM-6 (Dim-To-Warm) 33.0° / 91.0°	27	90*
LED	CDM-6 (Dim-To-Warm)		90°
LED FWHM / FWTM	CDM-6 (Dim-To-Warm) 33.0° / 91.0°	50 ⁴ 27 89 ⁴	99°
LED FWHM / FWTM Efficiency	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 %		39*
LED FWHM / FWTM Efficiency Peak intensity	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm		90"
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White		62"
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts:		87 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts: -SOCKET-K		80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS		82. 95. 95. 95.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA C14658_BARBA Bender Wirth: 49	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 10 Typ L8		80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA C14658_BARBA	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 10 Typ L8		22 25 26 26 26 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA C14658_BARBA Bender Wirth: 49	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 10 Typ L8		20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 10 Typ L8		25 26 26 26 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White hts: -SOCKET-K RA-RZ-LENS 10 Typ L8 NUS CDM-9 (Dim-To-Warm) 40.0° / 92.0°		81 10 10 10 10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA C14658_BARBA Bender Wirth: 49	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 10 Typ L8 NUS CDM-9 (Dim-To-Warm) 40.0° / 92.0° 84 %		100 100 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C14658_BARBA Bender Wirth: 49	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 10 Typ L8 NUS CDM-9 (Dim-To-Warm) 40.0° / 92.0° 84 % 1.1 cd/lm		64 10- 10- 10- 10- 10- 10- 10- 10-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49 CEC LUMI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 10 Typ L8 NUS CDM-9 (Dim-To-Warm) 40.0° / 92.0° 84 % 1.1 cd/lm 1 White		10°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA C14658_BARBA Bender Wirth: 49 C1658_BARBA Bender Wirth: 49 C1658_BARBA C1658_BARBA Bender Wirth: 49 C1658_BARBA	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 10 Typ L8 NUS CDM-9 (Dim-To-Warm) 40.0° / 92.0° 84 % 1.1 cd/lm 1 White nts:		85 10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA C14658_BARBA Bender Wirth: 49 CCL4658_BARBA Bender Wirth: 49 CL4658_BARBA Bender Wirth: 40 CL4658_BARBA Bender Wirth: 49 CL4658_BARBA Bender Wirth: 40 CL4658_BARBA Bender Wir	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts: SOCKET-K RA-RZ-LENS 10 Typ L8 NUS CDM-9 (Dim-To-Warm) 40.0° / 92.0° 84 % 1.1 cd/lm 1 White nts: -SOCKET-K		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 componen C16142_HEKLA C14658_BARBA Bender Wirth: 49 C1658_BARBA Bender Wirth: 49 C1658_BARBA C1658_BARBA Bender Wirth: 49 C1658_BARBA C1658_BARBA C1658_BARBA Bender Wirth: 49 C1658_BARBA C1658	CDM-6 (Dim-To-Warm) 33.0° / 91.0° 85 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 00 Typ L8 NUS CDM-9 (Dim-To-Warm) 40.0° / 92.0° 84 % 1.1 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS		10 10 10 10 10 10 10 10 10 10 10 10 10 1



	INUS	304	9
LED FWHM / FWTM	CDM-9 (Dim-To-Warm) 35.0° / 90.0°		
Efficiency	88 %	59×	6
Peak intensity	1.5 cd/lm		
LEDs/each optic	1		
Light colour	White		/
Required compone			
C16142_HEKLA Bender Wirth: 49		- 1220	
Bender Wirth, 43		30° 0°	3
	INUS		91
LED	CTM-9 (Tunable White)		
FWHM / FWTM	37.0° / 91.0°		
Efficiency	84 %		6
Peak intensity	1.2 cd/lm		
LEDs/each optic	1		
Light colour	White	gr and a second s	a
Required compone	ents:		
C16142_HEKLA	A-SOCKET-K		
C14658_BARBA	ARA-RZ-LENS		
Bender Wirth: 49	95 Typ L8	30 ⁴ 15 ⁵ 0 ⁴ 15 ⁵	3
	INUS		9
LED	CxM-14 (19x19)		
			-6
FWHM / FWTM	51.0° / 96.0°		
	51.0° / 96.0° 93 %		6
Efficiency		5 ⁴	8
Efficiency Peak intensity	93 %		*
Efficiency Peak intensity LEDs/each optic	93 % 1 cd/lm	5 .	e
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	93 % 1 cd/lm 1 White ents:		6
Efficiency Peak intensity LEDs/each optic Light colour	93 % 1 cd/lm 1 White ents:	54	er az
Efficiency Peak intensity LEDs/each optic Light colour Required compone	93 % 1 cd/lm 1 White ents:		e
Efficiency Peak intensity LEDs/each optic Light colour Required compone	93 % 1 cd/lm 1 White ents:		6
Efficiency Peak intensity LEDs/each optic Light colour Required compone	93 % 1 cd/lm 1 White ents: -SOCKET-I		6
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	93 % 1 cd/lm 1 White ents: -SOCKET-I		•
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	93 % 1 cd/lm 1 White ents: -SOCKET-I		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	93 % 1 cd/lm 1 White ents: -SOCKET-I		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	93 % 1 cd/lm 1 White ents: -SOCKET-I INUS CXM-4 31.0° / 92.0°		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	93 % 1 cd/lm 1 White ents: -SOCKET-I INUS CXM-4 31.0° / 92.0° 88 %		6 4 9 9 7 7 6
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	93 % 1 cd/lm 1 White ents: A-SOCKET-I INUS CXM-4 31.0° / 92.0° 88 % 1.4 cd/lm		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	93 % 1 cd/lm 1 White ents: A-SOCKET-I CXM-4 31.0° / 92.0° 88 % 1.4 cd/lm 1 White		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	93 % 1 cd/lm 1 White ents: -SOCKET-I CXM-4 31.0° / 92.0° 88 % 1.4 cd/lm 1 White ents:		
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	93 % 1 cd/lm 1 White ents: -SOCKET-I CXM-4 31.0° / 92.0° 88 % 1.4 cd/lm 1 White ents: -SOCKET-C		



6-		
	NUS	90* 90
LED	CXM-4	
FWHM / FWTM	20.0° / 91.0°	75°
Efficiency	93 %	
Peak intensity	1.9 cd/lm	80
LEDs/each optic	1	
Light colour	White	95° a
Required componer		
F15255_HEKLA-		\times
		1600
		304 30
	NUC	13% 2000 15°
		90* 90
LED	CxM-9 (13.5x13.5)	75:
FWHM / FWTM	43.0° / 95.0°	
Efficiency	94 %	600 600
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required componer	nts:	Sec. 1
F15255_HEKLA-	SOCKET-C	
		30°
MNICHIA		90* 90
		<u>90*</u>
LED	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0°	91 92 72
LED FWHM / FWTM	NJCWL024Z-V1MT: COB L-Type Tunable White	
	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0°	91 91 00 00
LED FWHM / FWTM Efficiency	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 %	97 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White nts:	91 92 60 60 60 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA:	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White hts: -SOCKET-K RA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 7 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 7 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White hts: -SOCKET-K RA-RZ-LENS 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 29.0° / 88.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White hts: -SOCKET-K RA-RZ-LENS 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 29.0° / 88.0° 87 %	31
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White nts: SOCKET-K RA-RZ-LENS 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 29.0° / 88.0° 87 % 1.6 cd/lm	71
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49 ONICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White nts: -SOCKET-K RA-RZ-LENS 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 29.0° / 88.0° 87 % 1.6 cd/lm 1	77' 60' 800
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49 CONCHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White nts: SOCKET-K RA-RZ-LENS 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 29.0° / 88.0° 87 % 1.6 cd/lm 1 White	77' 60' 800
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49 WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 29.0° / 88.0° 87 % 1.6 cd/lm 1 White hts:	77° 60° 800
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49 WICHIA Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA:	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 29.0° / 88.0° 87 % 1.6 cd/lm 1 White hts: SOCKET-K	gr 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA: C14658_BARBA Bender Wirth: 49 WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	NJCWL024Z-V1MT: COB L-Type Tunable White 34.0° / 90.0° 81 % 1.3 cd/lm 1 White hts: SOCKET-K RA-RZ-LENS 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 29.0° / 88.0° 87 % 1.6 cd/lm 1 White hts: SOCKET-K	77 60 60 60 60



ØNICHI/			90* 90*
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White		
FWHM / FWTM	43.0° / 92.0°		75
Efficiency	84 %		
Peak intensity	1.1 cd/lm		60° - 400 - 60°
LEDs/each optic	1		
Light colour	White		47* 47*
Required compone			
C16142_HEKLA			
C14658_BARB			
Bender Wirth: 4	98 Typ L8		30" 35" 35"
ØNICHI/			50°
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White		
FWHM / FWTM	39.0° / 90.0°		
Efficiency	90 %		400
Peak intensity	1.3 cd/lm		
LEDs/each optic	1		
Light colour	White		95* 600 63*
Required compone	ents:		
C16142_HEKLA	A-SOCKET-K		
Bender Wirth: 4	98 Typ L8		1200
			30. 34.
			15° 0° 15°
PHILIP	PS	A CONTRACTOR OF A CONTRACTOR OFTA A	90* 90*
	Fortimo SLM L09 CoB		<u>y</u> , <u>y</u> ,
			25. 26. 26.
LED	Fortimo SLM L09 CoB		
LED FWHM / FWTM Efficiency Peak intensity	Fortimo SLM L09 CoB 45.0° / 94.0°		64 69 69 F
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L09 CoB 45.0° / 94.0° 88 %		92 ⁴ 92 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White		a. ev b. ev b. ev
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White ents:		94 ¹ 97 94 94 96 96 96 96 96 96 96 96 96 96 96 96 96
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White ents: -SOCKET-H		94 [*] 99 [*] 94 [*] 99 [*] 96 [*] 400 90 [*] 60 [*] 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White ents: -SOCKET-H		54 54 55 66 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White ents: -SOCKET-H		54 54 54 54 54 54 54 54 54 54
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA C14658_BARB/	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White ents: -SOCKET-H ARA-RZ-LENS		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White ents: -SOCKET-H ARA-RZ-LENS		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA C14658_BARB/	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White white -SOCKET-H ARA-RZ-LENS		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA C14658_BARB/	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White ents: -SOCKET-H ARA-RZ-LENS		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA C14658_BARB/	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White ents: -SOCKET-H ARA-RZ-LENS Fortimo SLM L09 CoB 45.0° / 95.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA C14658_BARB/	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White ents: -SOCKET-H ARA-RZ-LENS Fortimo SLM L09 CoB 45.0° / 95.0° 94 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA C14658_BARB/ EFMHM / FWTM Efficiency Peak intensity	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White onts: -SOCKET-H ARA-RZ-LENS Fortimo SLM L09 CoB 45.0° / 95.0° 94 % 1.1 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA C14658_BARB/ DHILLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White Mite SS Fortimo SLM L09 CoB 45.0° / 95.0° 94 % 1.1 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA C14658_BARB/ DHILLIE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White white SOCKET-H ARA-RZ-LENS Fortimo SLM L09 CoB 45.0° / 95.0° 94 % 1.1 cd/lm 1 White mts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA C14658_BARB/ PHILLIE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White white SOCKET-H ARA-RZ-LENS Fortimo SLM L09 CoB 45.0° / 95.0° 94 % 1.1 cd/lm 1 White mts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA C14658_BARB/ PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L09 CoB 45.0° / 94.0° 88 % 1.1 cd/lm 1 White white SOCKET-H ARA-RZ-LENS Fortimo SLM L09 CoB 45.0° / 95.0° 94 % 1.1 cd/lm 1 White mts:		



PHILIPS

 LED
 Fortimo SLM L13 CoB

 FWHM / FWTM
 51.0° / 93.0°

 Efficiency
 90 %

 Peak intensity
 1 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C16142_HEKLA-SOCKET-K

 Bender Wirth: 432 Typ L8



PHILIPS

LED Fortimo SLM L13 CoB FWHM / FWTM 53.0° / 95.0° Efficiency 84 % Peak intensity 0.9 cd/lm LEDs/each optic 1 White Light colour Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 432 Typ L8



SAMSUNG

 LED
 LC003D / LC006D / LC009D / LC013D

 FWHM / FWTM
 44.0° / 94.0°

 Efficiency
 88 %

 Peak intensity
 1.1 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 F15255_HEKLA-SOCKET-C

 C14658_BARBARA-RZ-LENS
 C14658_BARBARA-RZ



SAMSUNG

 LED
 LC003D / I

 FWHM / FWTM
 43.0° / 94.0

 Efficiency
 94 %

 Peak intensity
 1.2 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components
 F15255_HEKLA-SOCKET-C

LC003D / LC006D / LC009D / LC013D 43.0° / 94.0° 94 % 1.2 cd/lm 1 White ts:

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SAMSI	UNG	30, 30,
LED	LC010C G2	
FWHM / FWTM	31.0° / 92.0°	7
Efficiency	92 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15255_HEKLA		1200
		20 <u>1500</u> 20 15 ⁵ 0 ⁴ 15 ⁹
SAMSI	UNG	50°
LED	LC010T (Tunable White)	
FWHM / FWTM	40.0° / 92.0°	
Efficiency	85 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	er er
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
C14658_BARB	ARA-RZ-LENS	
Bender Wirth: 5	01 Typ L8	20 220 24
SAMS	ING	50× 500
SAMSI		90 ⁴
LED	LC010T (Tunable White)	
LED FWHM / FWTM	LC010T (Tunable White) 37.0° / 90.0°	
LED FWHM / FWTM Efficiency	LC010T (Tunable White) 37.0° / 90.0° 90 %	
LED FWHM / FWTM Efficiency Peak intensity	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 5	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8	30° 15° 0° 15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 5	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8	30° 15° 0° 15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 5	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 UNG LC020C G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 5 SAMSS LED FWHM / FWTM	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 UNG LC020C G2 38.0° / 93.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 5 SAMSS LED FWHM / FWTM Efficiency	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 UNG LC020C G2 38.0° / 93.0° 93 %	30° 15° 0° 15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 Bender Wirth: 5 SAMSS LED FWHM / FWTM Efficiency Peak intensity	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 UNC LC020C G2 38.0° / 93.0° 93 % 1.3 cd/lm	30° 15° 0° 15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 5 SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 UNC LC020C G2 38.0° / 93.0° 93 % 1.3 cd/lm 1 White	30° 15° 0° 15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 5 SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 UNC LC020C G2 38.0° / 93.0° 93 % 1.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 Bender Wirth: 5 SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 UNC LC020C G2 38.0° / 93.0° 93 % 1.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 Bender Wirth: 5 SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 37.0° / 90.0° 90 % 1.4 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 UNC LC020C G2 38.0° / 93.0° 93 % 1.3 cd/lm 1 White ents:	



J/11VI J	JNG		90°	
LED	LC020T (Tunable white)			N K-L
FWHM / FWTM	53.0° / 96.0°		180	200
Efficiency	83 %			
Peak intensity	0.9 cd/lm			400
LEDs/each optic	1		$\times / /$	
Light colour	Tunable White		5°	
Required compone	ents:			····
C16142_HEKLA	A-SOCKET-K		~ 1	
C14658_BARBA	ARA-RZ-LENS			800
Bender Wirth: 50	01 Typ L8		30* 15*	150
SAMSI	JNG		90*	<u> </u>
LED	LC020T (Tunable white)			
FWHM / FWTM	48.0° / 93.0°			
Efficiency	89 %		60°	
Peak intensity	1.1 cd/lm			400
LEDs/each optic	1		\times / /	
Light colour	Tunable White		93 v	
Required compone	ents:			810
C16142_HEKLA	A-SOCKET-K			
Bender Wirth: 50	01 Typ L8			
			30" 35"	00 250
SEQUE			90°	
SEQUE SEMICONDUCTOR			90*	<u>^</u>
	MJT COB LES 6		50"	\land
LED	MJT COB LES 6 32.0° / 92.0°		73*	
LED FWHM / FWTM	32.0° / 92.0°		76	
LED FWHM / FWTM Efficiency	32.0° / 92.0° 93 %		99°	
LED FWHM / FWTM Efficiency Peak intensity	32.0° / 92.0°		50°	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	32.0° / 92.0° 93 % 1.5 cd/lm		90°	60 04
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	32.0° / 92.0° 93 % 1.5 cd/lm 1 White		80°	60
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents:		77. 09. 97.	60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents:		77. 09. 97.	40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents:		77.	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents:		77.	442 542 542 542 542 543 543 543 543 543 543 543 543 543 543
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents: -SOCKET-C		77. 00.	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8		77. 00.	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8 20.0° / 59.0°		50 ⁻ 50 ⁻ 50 ⁻ 50 ⁻ 50 ⁻	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8 20.0° / 59.0° 92 %		50 ⁻ 50 ⁻ 50 ⁻ 50 ⁻ 50 ⁻	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents: X-SOCKET-C MJT COB LES 9.8 20.0° / 59.0° 92 % 3.3 cd/lm		50 ⁻ 50 ⁻ 50 ⁻ 50 ⁻ 50 ⁻	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA stoul stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8 20.0° / 59.0° 92 % 3.3 cd/lm 1		50 ⁻ 50 ⁻ 50 ⁻ 50 ⁻ 50 ⁻	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents: -SOCKET-C MJT COB LES 9.8 20.0° / 59.0° 92 % 3.3 cd/lm 1 White		50 ⁻ 50 ⁻ 50 ⁻ 50 ⁻ 50 ⁻	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents: A-SOCKET-C MJT COB LES 9.8 20.0° / 59.0° 92 % 3.3 cd/lm 1 White ents:		g-	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents: A-SOCKET-C MJT COB LES 9.8 20.0° / 59.0° 92 % 3.3 cd/lm 1 White ents:		g-	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SEQUESEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	32.0° / 92.0° 93 % 1.5 cd/lm 1 White ents: A-SOCKET-C MJT COB LES 9.8 20.0° / 59.0° 92 % 3.3 cd/lm 1 White ents:		g-	



TRIDON	IIC		90%		90°
LED	SLE G7 LES09				
FWHM / FWTM	41.0° / 93.0°	and a start of	23*		
Efficiency	91 %		60*	400	
Peak intensity	1.2 cd/lm				$\Lambda \setminus 7$
LEDs/each optic	1			\times /	$ \land \times $
Light colour	White		950		
Required compone	nts:			800	$K \setminus$
F15255_HEKLA	-SOCKET-C				\wedge
C14658_BARBA	RA-RZ-LENS				$\wedge \times$
			36*	1250	36
TRIDON	IIC		90*		90'
LED	SLE G7 LES09				
FWHM / FWTM	40.0° / 95.0°		75*		75
Efficiency	94 %			400	$\wedge \sim$
Peak intensity	1.2 cd/lm		Bae		\land
LEDs/each optic	1			$\times / 1$	
Light colour	White		930		45
Required compone					$X \to X$
F15255_HEKLA					$\Lambda \sim$
_					
			36*	1230	
			/	15% 0%	12,
TRIDON			90°		90
	SLE G7 LES13		90 ⁺ 25*		90*
			90° 75		30
LED FWHM / FWTM Efficiency	SLE G7 LES13 51.0° / 96.0° 93 %		904 785 892		27
LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES13 51.0° / 96.0°		90 ⁴ 79 60 ⁴		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1		94 75 89	40	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White		94 79 97 97		99 (22) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts:		94 792 894	409	99'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts:		95 75 61	400	6, 6, 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts:		94 75 97		6. 52
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts:		94 72 67 97 97	400	99 72 60 62
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts: -SOCKET-I		94 75 95 94 94 94	400	22' 22' 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts: -SOCKET-I		94 72 84 97 97 97	400	99 00 00 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts: -SOCKET-I		945 72 64 95 95 95 95 95	400	99 72 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts: -SOCKET-I SIEC SLE G7 LES13		94 92 97 97 97 97 97		13- 13- 13- 13- 13- 13- 13- 13- 13- 13-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts: -SOCKET-I SLE G7 LES13 53.0° / 96.0° 86 %		94 92 07 94 94 94 94 94 94 94 94 94 94 94 94 94		9 73 60 73 60 73 60 73 75 75 75 75 75 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts: -SOCKET-I SLE G7 LES13 53.0° / 96.0°		92 92 97 97 97 97 97 97 97 97 97 97 97 97		99 (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts: -SOCKET-I SLE G7 LES13 53.0° / 96.0° 86 % 0.9 cd/lm 1		24 92 97 97 97 97 97 97 97 97 97 97 97 97 97		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts: -SOCKET-I SLE G7 LES13 53.0° / 96.0° 86 % 0.9 cd/lm 1 White		94 95 97 96 97 96 96 96 96 96 96 96 96 96 96 96 96 96		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts: SOCKET-1 SLE G7 LES13 53.0° / 96.0° 86 % 0.9 cd/lm 1 White nts:		94 72 95 97 97 97 97 97 97 97 97 97		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts: -SOCKET-1 SLE G7 LES13 53.0° / 96.0° 86 % 0.9 cd/lm 1 White nts: -SOCKET-1		94 72 95 97 97 97 97 97 97 97 97 97		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES13 51.0° / 96.0° 93 % 1 cd/lm 1 White nts: -SOCKET-1 SLE G7 LES13 53.0° / 96.0° 86 % 0.9 cd/lm 1 White nts: -SOCKET-1		94 97 97 97 97 97 97 97 97 97 97 97		99 72 00 00 00 00 00 00 00 00 00 00 00 00 00



TRIDO	VIC		50*	904
LED	SLE G7 LES13			
FWHM / FWTM	53.0° / 96.0°		75*	
Efficiency	86 %			
Peak intensity	0.9 cd/lm		607	
LEDs/each optic	1			
Light colour	White		47 ¹	
Required compone	ents:			
F15859_HEKLA	A-SOCKET-I			
C14658_BARB	ARA-RZ-LENS			Λ \vee
			30° 159	15°
TRIDON			90*	90
LED	SLE G7 LES13			
FWHM / FWTM	52.0° / 96.0°		73	
Efficiency	93 %			
Peak intensity	1 cd/lm		400	
LEDs/each optic	1			
Light colour	White		93*	
Required compone	ents:			X
F15859_HEKLA				-K
			30*	36
			15° 0°	15*
TRIDON			90*	90
	SLE G7 LES15		90 ⁴	30
			80	90
LED	SLE G7 LES15		01 23 24	
LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES15 55.0° / 97.0°		90 ⁴	27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1		90 ⁴ 97 98	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White		50 50 50 50	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents:		9°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents:		6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹	25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compose	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents:		94 95 97 90 90	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents:		30 ⁴ 27 29 20 20 20 20 20 20 20 20 20 20 20 20 20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents: A-SOCKET-I			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents: A-SOCKET-I			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compose	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents: A-SOCKET-I			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents: -SOCKET-I XOB 14.5 mm 55.0° / 97.0°			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 55.0° / 97.0° 94 %			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 55.0° / 97.0° 94 % 1 cd/lm			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 55.0° / 97.0° 94 % 1 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 55.0° / 97.0° 94 % 1 cd/lm 1 White ents:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 55.0° / 97.0° 94 % 1 cd/lm 1 White ents:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES15 55.0° / 97.0° 93 % 1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 55.0° / 97.0° 94 % 1 cd/lm 1 White ents:			



FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15255_HEKLA-S	DCKET-C	27 60 67 80 80 80 80 80 80 80 80 80 80 80 80 80
C14658_BARBAR	4-KZ-LENS	200 20° 200 200 200
XICATO		90 ⁴
FWHM / FWTM	KOB 6 mm 27.0° / 92.0° 33 % J.6 cd/lm	gr
-		
•	Vhite	5°
Required components F15255_HEKLA-S		25° 0° 12° 0
XICATO		90*
LED	(OB 9.8 mm	75*
	14.0° / 95.0°	
,	39 %	60 ⁶ 400 6
	.1 cd/lm	$\mathbb{N} \subset \mathbb{A} \setminus \mathbb{A} \setminus \mathbb{A}$
	Vhite	
Required components		
F15255_HEKLA-S C14658_BARBAR	DCKET-C	34 15 19 19 3
XICATO		90°
	KOB 9.8 mm	
	10.0° / 94.0°	
	94 %	60* 400 6
-	.2 cd/lm	
	Vhite	¢
Required components		.
F15255_HEKLA-S		200



XICATO	0	<u>p</u> [*]
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15743_XTM-A	XTM - 19mm LES 62.0° / 99.0° 91 % 0.9 cd/lm 1 White ents:	
XICATO	0	20 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15743_XTM-A	XTM - 9mm LES 41.0° / 95.0° 94 % 1.2 cd/lm 1 White ents:	



bridgelux.		90*
LED	V13 Gen6	
FWHM / FWTM	44.0° / 90.0°	78*
Efficiency	91 %	
Peak intensity	1.3 cd/lm	ear ear
LEDs/each optic	1	
Light colour	White	₫ [*] 000
Required components		
F14988_HEKLA-SC		
		220
		- 35° 0° 35°
bridgelux.		
LED	V8 Gen6	
FWHM / FWTM	42.5°	
Efficiency	0 %	
LEDs/each optic	1	
Light colour	White	
Required components		
F15253_HEKLA-SO		
bridgelux.		
LED	V8 Gen6	
FWHM / FWTM	42.5°	
Efficiency	%	
LEDs/each optic	1	
Light colour	White	
Required components		
F15253_HEKLA-SO		
CITIZEN		
CITIZEN		
LED	CLL02x/CLU02x (LES10)	
FWHM / FWTM	45.0°	
Efficiency	0 %	
LEDs/each optic	1	
Light colour	White	
Required components		
F15255_HEKLA-SC	CKET-C	



CITIZEN			90*
LED	CLL02x/CLU02x (LES10)		
FWHM / FWTM	43.0° / 91.0°		
Efficiency	92 %		400
Peak intensity	1.3 cd/lm		605
LEDs/each optic	1		
Light colour	White		924 000
Required components:			
F15255_HEKLA-SO	CKET-C		
1.0100_01000			1220
			36° 15° 0° 15°
CITIZEN			90*
	CLL03x/CLU03x		75
FWHM / FWTM	47.0° / 92.0°		
Efficiency	92 %		50* 400
Peak intensity	1.2 cd/lm		
LEDs/each optic	1		
Light colour	White		⁷ / <u>***</u>
Required components:			
F15859_HEKLA-SO	CKET-I		
			30*
CITIZEN			
			90*
LED	CLL03x/CLU03x		75.
FWHM / FWTM	47.0° / 92.0°		
Efficiency	92 %		60
Peak intensity	1.3 cd/lm		
LEDs/each optic	1		
Light colour	White		^{47°}
Required components:			
F17438_HEKLA-G2-	1		
F17438_HEKLA-G2	1		100
F17438_HEKLA-G2	1		200
	1		20° 125° 0° 125°
F17438_HEKLA-G2	1		30 ⁴
	I CXA/B 1816 & CXA/B 1820 & CXA 18	50	30 ⁴ 12 ⁵ 0 ⁴ 12 ⁵
		50	200 200 200 200
	CXA/B 1816 & CXA/B 1820 & CXA 18 46.0°	50	20 ⁴ 25 ⁴ 0 ⁴ 25 ⁴
LED FWHM / FWTM Efficiency	CXA/B 1816 & CXA/B 1820 & CXA 18	50	200
LED FWHM / FWTM Efficiency LEDs/each optic	CXA/B 1816 & CXA/B 1820 & CXA 18 46.0° 0 %	50	200 200 200 200
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 18 46.0° 0 % 1	50	200
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	CXA/B 1816 & CXA/B 1820 & CXA 18 46.0° 0 % 1 White	50	30 ⁴ 20 ⁴ 20 ⁴
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 18 46.0° 0 % 1 White	50	30, 25, 0, 15,
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	CXA/B 1816 & CXA/B 1820 & CXA 18 46.0° 0 % 1 White	50	200 <u>100</u> 200 <u>100</u>



LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM / FWTM	46.0°	
Efficiency	%	
LEDs/each optic	1	
Light colour	White	
Required components:		
F15254_HEKLA-SOCKET-B		

LED	CxM-6 (13.5x13.5)
FWHM / FWTM	38.0° / 88.0°
Efficiency	93 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
F17435_HEKLA-G2-C)

ΜΝΙCΗΙΛ

 LED
 COB L-Type (LES 11)

 FWHM / FWTM
 48.0° / 92.0°

 Efficiency
 93 %

 Peak intensity
 1.2 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 F15858_HEKLA-SOCKET-H

ΜΝΙCΗΙΛ

 LED
 COB L-Type (LES 9)

 FWHM / FWTM
 46.0° / 92.0°

 Efficiency
 93 %

 Peak intensity
 1.3 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 F15858_HEKLA-SOCKET-H

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Μ ΝΙCΗΙΛ		90* 90*
LED	СОВ Т-Туре	
FWHM / FWTM	42.0° / 92.0°	75*
Efficiency	90 %	400
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	ar
Required components:		
F15848_HEKLA-SO	CKET-G	
		30°
		15% 00 15%
Μ ΝΙCΗΙΛ		90° 90°
LED	NFSWE11A	75"
FWHM / FWTM	46.0° / 91.0°	
Efficiency	86 %	60 ⁴ 60°
Peak intensity	1.2 cd/lm	
LEDs/each optic	30	
Light colour	White	42° 42°
Required components:		
C16142_HEKLA-SC	CKET-K	
		36* 36* 36*
OSRAM		90 ⁴ 90 ⁴
Opto Semiconductors	Salaria 512 10v10	50°
Opto Semiconductors	Soleriq S13 19x19	91
opto Semiconductors LED FWHM / FWTM	43.8° / 90.5°	90 ⁴
^{opto semiconductors} LED FWHM / FWTM Efficiency	43.8° / 90.5° 93 %	51 51 51 60 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	43.8° / 90.5° 93 % 1.3 cd/lm	90 ⁴ 90 ⁴ 90 ⁴ 90 ⁴ 90 ⁴ 90 ⁴ 90 ⁴ 90 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	43.8° / 90.5° 93 % 1.3 cd/lm 1	97 97 97 97 90 90 97 97 97 97 97 97 97 97 97
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	43.8° / 90.5° 93 % 1.3 cd/lm	g,
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	43.8° / 90.5° 93 % 1.3 cd/lm 1 White	gr 90 07
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	43.8° / 90.5° 93 % 1.3 cd/lm 1 White	9*
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	43.8° / 90.5° 93 % 1.3 cd/lm 1 White	5* 57 72 6* 60 6* 6* 80 120 120
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components: F15859_HEKLA-SO	43.8° / 90.5° 93 % 1.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	43.8° / 90.5° 93 % 1.3 cd/lm 1 White	Na Dia Dia Dia
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO	43.8° / 90.5° 93 % 1.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components: F15859_HEKLA-SO	43.8° / 90.5° 93 % 1.3 cd/lm 1 White CKET-I	100 100 100 100 100 100 100 100
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO	43.8° / 90.5° 93 % 1.3 cd/lm 1 White CKET-I Soleriq S9	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO OSRAM Opto Semiconductors LED FWHM / FWTM	43.8° / 90.5° 93 % 1.3 cd/lm 1 White CKET-I Soleriq S9 44.3° / 92.1°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	43.8° / 90.5° 93 % 1.3 cd/lm 1 White CKET-I Soleriq S9 44.3° / 92.1° 93 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	43.8° / 90.5° 93 % 1.3 cd/lm 1 White CKET-I Soleriq S9 44.3° / 92.1° 93 % 1.3 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	43.8° / 90.5° 93 % 1.3 cd/lm 1 White CKET-I Soleriq S9 44.3° / 92.1° 93 % 1.3 cd/lm 1 White	a, 60 b, 20 b, 20 b, 20 b, 60 b, 70 b,
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	43.8° / 90.5° 93 % 1.3 cd/lm 1 White CKET-I Soleriq S9 44.3° / 92.1° 93 % 1.3 cd/lm 1 White	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	43.8° / 90.5° 93 % 1.3 cd/lm 1 White CKET-I Soleriq S9 44.3° / 92.1° 93 % 1.3 cd/lm 1 White	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SO Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	43.8° / 90.5° 93 % 1.3 cd/lm 1 White CKET-I Soleriq S9 44.3° / 92.1° 93 % 1.3 cd/lm 1 White	G. 80 6, 80 6, 12, 25 8, 12, 12, 25 10, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12



SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	49.5° / 92.4°	
Efficiency	88 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
F15859_HEKLA-SOCKET-I		

SEOUL

 Stour stemiconouction
 MJT C

 LED
 MJT C

 FWHM / FWTM
 48.0° /

 Efficiency
 93 %

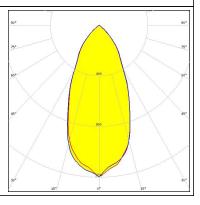
 Peak intensity
 1.2 cd/

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 F15859_HEKLA-SOCKET-I

MJT COB LES 14.5 48.0° / 92.0° 93 % 1.2 cd/lm 1 White





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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