

PRODUCT DATASHEET F16002_MIRELLA-G2-WW

MIRELLA-G2-WW

~50° wide beam compatible with LEDiL HEKLA

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.9 mm
Height	22.6 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component MIRELLA-G2-WW

Type Reflector **Material** PC

Colour	Finish	Coating
metal		

MPQ

28

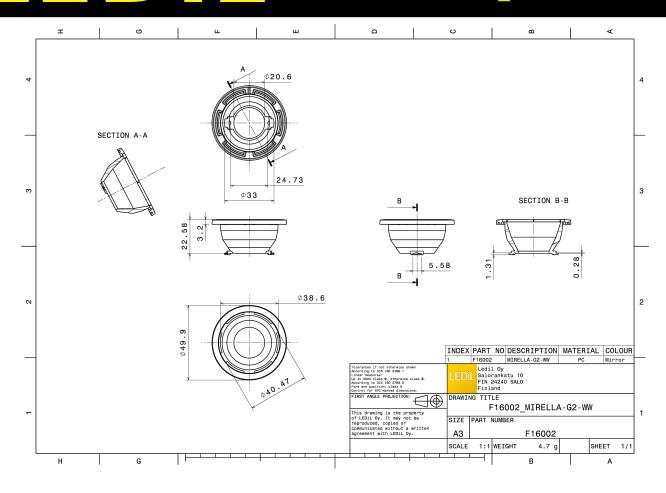
Box weight (kg)

3.7

ORDERING INFORMATION:

Component	Qty in box	MOQ
F16002_MIRELLA-G2-WW	336	
» Box size: 480 x 280 x 300 mm		

PRODUCT DATASHEET F16002_MIRELLA-G2-WW



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



bridgelux. LED	V4 HD	20 ⁴	90*
FWHM / FWTM	53.0° / 88.0°	75	75*
Efficiency	77 %		≤ 1
Peak intensity	0.9 cd/lm		60*
LEDs/each optic	1		\times
Light colour	White	g-	45°
Required compone			/
F15253_HEKLA			$\left\langle \right\rangle$
C13723_MIREL			$\langle \rangle$
		96° 25° 1950 25°	36.
bridgelux.		**	90*
LED	V4 HD		25*
FWHM / FWTM	38.0° / 78.0°		_/]
Efficiency	85 %		60.
Peak intensity	1.4 cd/lm		
LEDs/each optic	1		
Light colour	White		45°
Required compone			/
F15253_HEKLA	SOCKET-A	120	$\langle \rangle$
			$\langle \rangle$
		30 ⁴ 337 0 ⁴ 337	36.0
bridgelux.		<u>50</u> *	90*
LED	V4 HD	25	90°
LED FWHM / FWTM	49.0° / 75.0°	32	90*
LED FWHM / FWTM Efficiency	49.0° / 75.0° 79 %	94 - 60 95*	90° 75° 69°
LED FWHM / FWTM Efficiency Peak intensity	49.0° / 75.0° 79 % 1.2 cd/lm		90* 23* 66*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	49.0° / 75.0° 79 % 1.2 cd/lm 1		90°*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 75.0° 79 % 1.2 cd/lm 1 White		90* 23* 64*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	49.0° / 75.0° 79 % 1.2 cd/lm 1 White hts:		90* 75* 69*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA	49.0° / 75.0° 79 % 1.2 cd/lm 1 White nts: SOCKET-A		99* 99*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	49.0° / 75.0° 79 % 1.2 cd/lm 1 White nts: SOCKET-A		99* 99*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA	49.0° / 75.0° 79 % 1.2 cd/lm 1 White nts: SOCKET-A		87 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C13333_MIREL	49.0° / 75.0° 79 % 1.2 cd/lm 1 White nts: SOCKET-A A-CL		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C13333_MIREL	49.0° / 75.0° 79 % 1.2 cd/lm 1 White nts: SOCKET-A _A-CL		87. 87. 87. 86. 86. 86. 86.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C13333_MIREL bridgeLux LED FWHM / FWTM	49.0° / 75.0° 79 % 1.2 cd/lm 1 White nts: SOCKET-A _A-CL V6 HD 54.0° / 89.0°		99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C13333_MIREL bridgeLux. LED FWHM / FWTM Efficiency	49.0° / 75.0° 79 % 1.2 cd/lm 1 White nts: SOCKET-A A-CL V6 HD 54.0° / 89.0° 75 %		80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C13333_MIREL bridgeLux LED FWHM / FWTM Efficiency Peak intensity	49.0° / 75.0° 79 % 1.2 cd/lm 1 White hts: SOCKET-A A-CL V6 HD 54.0° / 89.0° 75 % 0.9 cd/lm		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C13333_MIREL bridgeLux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	49.0° / 75.0° 79 % 1.2 cd/lm 1 White hts: SOCKET-A .A-CL V6 HD 54.0° / 89.0° 75 % 0.9 cd/lm 1		97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C13333_MIREL bridgeLuX LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 75.0° 79 % 1.2 cd/lm 1 White hts: SOCKET-A .A-CL V6 HD 54.0° / 89.0° 75 % 0.9 cd/lm 1 White		97. 97. 97. 96. 96.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C13333_MIREL bridgeLux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	49.0° / 75.0° 79 % 1.2 cd/lm 1 White hts: SOCKET-A A-CL V6 HD 54.0° / 89.0° 75 % 0.9 cd/lm 1 White hts:		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C13333_MIREL bridgeLuX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	49.0° / 75.0° 79 % 1.2 cd/lm 1 White nts: SOCKET-A A-CL V6 HD 54.0° / 89.0° 75 % 0.9 cd/lm 1 White nts: SOCKET-C		97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C13333_MIREL bridgeLux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	49.0° / 75.0° 79 % 1.2 cd/lm 1 White nts: SOCKET-A A-CL V6 HD 54.0° / 89.0° 75 % 0.9 cd/lm 1 White nts: SOCKET-C		97 97 97 97 97 97 97 97 97 97 97 97 97 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA C13333_MIREL bridgeLux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	49.0° / 75.0° 79 % 1.2 cd/lm 1 White nts: SOCKET-A A-CL V6 HD 54.0° / 89.0° 75 % 0.9 cd/lm 1 White nts: SOCKET-C		97 97 97 97 97 97 97 97 97 97



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIRELI	-SOCKET-I	
bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15616_HEKLA		



bridgelux.		9°	90*
LED	Vesta DTW 13mm (21W)		
FWHM / FWTM	54.0° / 91.0°		
Efficiency	73 %		
Peak intensity	0.8 cd/lm		$\langle \rangle$
LEDs/each optic	1		\sim
Light colour	Tunable White	gr	45°
Required compone	nts:		\times
C16142_HEKLA			$\langle \rangle$
C13723_MIRELI			
Bender Wirth: 49	91 Typ L8	30" <u>80</u> 201 <u>80</u> 201	36.
bridgelux.		3 ¹	90*
LED	Vesta DTW 13mm (21W)		
FWHM / FWTM	59.0° / 84.0°		25*
Efficiency	81 %		\sim
Peak intensity	0.9 cd/lm		60°
LEDs/each optic	1		\sim
Light colour	Tunable White		45*
Required compone			
C16142_HEKLA			\sum
Bender Wirth: 49			\sim
			36.
bridgelux.		50°	90*
bridgelux. LED	Vesta DTW 9mm (4W/6W/12W)	50°	90*
bridgelux. LED FWHM / FWTM	Vesta DTW 9mm (4W/6W/12W) 50.0° / 85.0°	30- 30-	90*
LED		99 ⁴	90*
LED FWHM / FWTM Efficiency	50.0° / 85.0°	99* 797 60*	86.
LED FWHM / FWTM Efficiency Peak intensity	50.0° / 85.0° 71 %	99* 75 60*	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	50.0° / 85.0° 71 % 0.9 cd/lm	90* 75 60* 00*	90°
LED FWHM / FWTM Efficiency Peak intensity	50.0° / 85.0° 71 % 0.9 cd/lm 1 White	90 ⁴ 20 00 ⁴ 00 00	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts:		99* 25* 6*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K		9 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K LA-RZL		90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIRELI	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K LA-RZL		81 81 81 81 81 81 81 81 81 81 81 81 81 8
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIRELI Bender Wirth: 49	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K LA-RZL 20 Typ L8		90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIRELI Bender Wirth: 49	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K LA-RZL		95 97 95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIRELI Bender Wirth: 49	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K LA-RZL 20 Typ L8		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIRELI Bender Wirth: 49 bridgeLUX. LED FWHM / FWTM Efficiency	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K LA-RZL 30 Typ L8 Vesta TW 13mm (25W) CSP 53.0° / 90.0° 69 %		90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIRELI Bender Wirth: 45 bridgelux LED FWHM / FWTM Efficiency Peak intensity	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K LA-RZL 30 Typ L8 Vesta TW 13mm (25W) CSP 53.0° / 90.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIRELI Bender Wirth: 45 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K LA-RZL 20 Typ L8 Vesta TW 13mm (25W) CSP 53.0° / 90.0° 69 % 0.7 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIRELI Bender Wirth: 49 bridgeLux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K LA-RZL 20 Typ L8 Vesta TW 13mm (25W) CSP 53.0° / 90.0° 69 % 0.7 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIRELI Bender Wirth: 45 bridgetuX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K LA-RZL 20 Typ L8 Vesta TW 13mm (25W) CSP 53.0° / 90.0° 69 % 0.7 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIRELI Bender Wirth: 45 bridgetux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K LA-RZL 20 Typ L8 Vesta TW 13mm (25W) CSP 53.0° / 90.0° 69 % 0.7 cd/lm 1 White nts: -SOCKET-K		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIRELI Bender Wirth: 45 bridgetuX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	50.0° / 85.0° 71 % 0.9 cd/lm 1 White nts: -SOCKET-K LA-RZL 0 Typ L8 Vesta TW 13mm (25W) CSP 53.0° / 90.0° 69 % 0.7 cd/lm 1 White nts: -SOCKET-K LA-RZL		90°



bridgelux.		
LED	Vesta TW 6mm DP	
FWHM / FWTM	50.0° / 85.0°	
Efficiency	74 %	
-	0.9 cd/lm	
Peak intensity		
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA		
C13723_MIREL		
Bender Wirth: 5	04 Тур L8	
bridgelux.		
LED	Vesta TW 6mm DP	
FWHM / FWTM	41.0° / 77.0°	
Efficiency	81 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKL4		
Bender Wirth: 5		
bridgelux.		55 ⁴ 55 ¹
LED	Vesta TW 9mm (12W) CSP	
FWHM / FWTM	46.0° / 77.0°	8 20
Efficiency	77 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	a, a
Required compone	nts:	
C16142_HEKLA		
Bender Wirth: 4		
		at
		137 [°] 0 ⁴ 137 [°]
bridgelux.		50° 50°
LED	Vesta TW 9mm (12W) CSP	10
FWHM / FWTM	50.0° / 85.0°	
Efficiency	70 %	61 ⁴
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	a, a,
Required compone		
C16142_HEKLA	-SOCKET-K	
C13723_MIREL	LA-RZL	
Bender Wirth: 4	39 Tvn I 8	
	55 Typ E0	



CITIZE	N	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CLC020 Series (Dim-To-Warm) 49.0° / 78.0° 77 % 1.1 cd/lm 1 White ents:	
CITIZE	'N	30 ³ 205 0 ⁴ 10 ⁵ X
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4	CLC020 Series (Dim-To-Warm) 50.0° / 85.0° 70 % 0.8 cd/lm 1 White ents: A-SOCKET-K LA-RZL	
CITIZE	^I N	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLL02x/CLU02x (LES10) 59.0° / 83.0° 82 % 1 cd/lm 1 White ents: A-SOCKET-C	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU700/701/702 45.0° / 79.0° 85 % 1.3 cd/lm 1 White ents:	



CITIZE	N	90 ⁴ 90
LED	CLU700/701/702	
FWHM / FWTM	44.0° / 79.0°	
Efficiency	85 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	g. 800 55
Required compone		
F15255_HEKLA		
C13723_MIREL		1270
		24
CITIZE	'N	225 00 220
LED	CLU710/711	75
FWHM / FWTM	53.0° / 81.0°	
Efficiency	80 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15859_HEKLA	A-SOCKET-I	
		30 ⁴
CITIZE	N	20*
LED	CLU7A2 (LES 4.2mm)	
FWHM / FWTM	38.0° / 77.0°	
Efficiency	83 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	a ⁴ a
Required compone		
F15255_HEKLA		
		20* 30
CITIZE	N	23 ³ 0 ⁴ 13 ⁵
	LCN-C01B (Tunable White)	
	50.0° / 86.0°	77
FWHM / FWTM Efficiency	50.0° / 86.0° 70 %	
Peak intensity		
LEDs/each optic	0.8 cd/lm	
	1 White	
Light colour	White	
Required compone		
C16142_HEKLA		
C13723_MIREL		
Bender Wirth: 4	81 Typ L8	304
		133 [°] 0 [°] 33 [°]



		50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA	CMA1516 57.0° / 83.0° 84 % 1 cd/lm 1 White nts:	
		90' 90'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		
		50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	CXA/B 13xx 43.0° / 78.0° 86 % 1.4 cd/lm 1 White nts:	
		90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA		



	D	84* 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 15xx 51.0° / 81.0° 89 % 1.2 cd/lm 1 White	
Required compone F15256_HEKLA	ents:	90 91 12 12 10 12 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10
	EDS	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA C12479_MIREL	LUXEON CoB 1202/1203 56.0° / 82.0° 83 % 1 cd/lm 1 White ents: -SOCKET-H	
		30 27 27
🤭 LUMIL	.EDS	50 [°]
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA		
UMIL	.EDS	50 ⁺
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	LUXEON CoB 1202HD 48.0° / 80.0° 83 % 1.2 cd/lm 1 White ents:	
		36° 1250 13°



	EDS	50°
LED	LUXEON CoB 1204HD	
FWHM / FWTM	56.0° / 83.0°	
Efficiency	84 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr /
Required compone	ints:	
F15858_HEKLA	-SOCKET-H	
		30
	EDS	9°
LED	LUXEON CoB 1205HD	
FWHM / FWTM	59.0° / 85.0°	20
Efficiency	81 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15858_HEKLA		
		30- 500
	EDS	30° 15°
LED	LUXEON CX Plus CoB - HD S01H4	
FWHM / FWTM	53.0 + 52.0° / 88.0°	72
Efficiency	73 %	
	0.9 cd/lm	
reak intensity		
	1	
LEDs/each optic	1 White	or a second s
Peak intensity LEDs/each optic Light colour Required compone	White	
LEDs/each optic	White Ints:	¢.
LEDs/each optic Light colour Required compone	White ints: LA-RZL	
LEDs/each optic Light colour Required compone C13723_MIREL	White ints: LA-RZL	
LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6:	White ints: LA-RZL 34c Hekla	
LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6:	White Ints: LA-RZL 34c Hekla	
LEDs/each optic Light colour Required compone C13723_MIREL	White ints: LA-RZL 34c Hekla	
LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6:	White ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4	
LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6:	White Ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 42.0° / 78.0° 79 %	
LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6:	White Ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 42.0° / 78.0°	
LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 63	White Ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 42.0° / 78.0° 79 % 1.2 cd/lm 1	
LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 63 COMPUTE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White Ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 42.0° / 78.0° 79 % 1.2 cd/lm 1 White	
LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6: LUMIL LED FWHM / FWTM	White Ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 42.0° / 78.0° 79 % 1.2 cd/lm 1 White Ints:	
LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 63 COMPARENT EDS/EACH OPTIC LEDS/each optic Light colour Required compone	White Ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 42.0° / 78.0° 79 % 1.2 cd/lm 1 White Ints:	



	EDS	50*
LED	LUXEON CX Plus CoB - HD S01H6 / HD S02H6	
FWHM / FWTM	52.0° / 87.0°	23'
Efficiency	73 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	gr
Required compone	ents:	
C13723_MIREL	LA-RZL	
Bender Wirth: 6	34c Hekla	200
		34° 22 0° 25
	.EDS	R'
LED	LUXEON CX Plus CoB - HD S01H6 / HD S02H6	
FWHM / FWTM	42.0° / 78.0°	
Efficiency	79 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	g.
Required compone	ents:	
Bender Wirth: 6	34c Hekla	
		30°
	.EDS	R*
LED	LUXEON CX Plus CoB - HD S04H9	
FWHM / FWTM	54.0° / 89.0°	28'
	74 %	
Efficiency Peak intensity	74 % 0.8 cd/lm	
Efficiency Peak intensity		
Efficiency	0.8 cd/lm	61* 60
Efficiency Peak intensity LEDs/each optic	0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White ents:	ex 460
Efficiency Peak intensity LEDs/each optic Light colour Required compose	0.8 cd/lm 1 White ents: LA-RZL	
Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL	0.8 cd/lm 1 White ents: LA-RZL	
Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL	0.8 cd/lm 1 White ents: LA-RZL 34c Hekla	
Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6	0.8 cd/lm 1 White ents: LA-RZL 34c Hekla	
Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6	0.8 cd/lm 1 White ents: LA-RZL 34c Hekla	
Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6	0.8 cd/lm 1 White ents: LA-RZL 34c Hekla LUXEON CX Plus CoB - HD S04H9	
Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6	0.8 cd/lm 1 White ents: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S04H9 53.0° / 81.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6	0.8 cd/lm 1 White ents: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S04H9 53.0° / 81.0° 81 %	
Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6	0.8 cd/lm 1 White ents: LA-RZL 34c Hekla LUXEON CX Plus CoB - HD S04H9 53.0° / 81.0° 81 % 1 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6	0.8 cd/lm 1 White ents: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S04H9 53.0° / 81.0° 81 % 1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6	0.8 cd/lm 1 White ents: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S04H9 53.0° / 81.0° 81 % 1 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6 WIM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	0.8 cd/lm 1 White ents: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S04H9 53.0° / 81.0° 81 % 1 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6 COMPARENTION Efficiency Peak intensity LEDs/each optic Light colour Required compone	0.8 cd/lm 1 White ents: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S04H9 53.0° / 81.0° 81 % 1 cd/lm 1 White ents:	



🕐 LUMIL	.EDS	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L04 / L05 (Gen2) 58.0° / 83.0° 78 % 0.9 cd/lm 1	27 90 100
Light colour Required compone Bender Wirth: 63		20° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1
	EDS	20 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 63	LUXEON CX Plus CoB L04 / L05 (Gen2) 54.0° / 91.0° 71 % 0.8 cd/lm 1 White onts: LA-RZL	
	FDS	25 ⁵ 6 ⁴ 35 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6-	LUXEON CX Plus CoB M02 / M03 (Gen2) 52.0° / 81.0° 79 % 1 cd/lm 1 White ents:	
		20 ⁴ 23 ⁴ 0 ⁴ 23 ⁵
UMIL	.EDS	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB M02 / M03 (Gen2) 53.0° / 89.0° 71 % 0.8 cd/lm 1 White	25- 200 25- 200 25-
Required compone C13723_MIREL Bender Wirth: 6-	LA-RZL	300 000 201



🕙 LUMIL	.EDS	90 ⁴
LED	LUXEON CX Plus CoB S01 (Gen2)	
FWHM / FWTM	42.0° / 78.0°	
Efficiency	80 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	92
Required compone	ents:	
Bender Wirth: 6	34c Hekla	
		30 ⁵ 12 ⁵
	.EDS	
LED	LUXEON CX Plus CoB S01 (Gen2)	
FWHM / FWTM	52.0° / 87.0°	
Efficiency	72 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	gs
Required compone	ents:	
C13723_MIREL	LA-RZL	
Bender Wirth: 6	34c Hekla	84
		30
ELUM	INUS	30*
LED	CDM-6 (Dim-To-Warm) 49.0° / 85.0°	30 ⁴
LED FWHM / FWTM	CDM-6 (Dim-To-Warm)	99* 75 20
LED FWHM / FWTM Efficiency	CDM-6 (Dim-To-Warm) 49.0° / 85.0°	99* 75- 00*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 %	99* 75- 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm	59° 75 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents:	99 ⁴ 75 60 ⁴ 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K LA-RZL	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K LA-RZL 90 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 C13723_MIREL Bender Wirth: 4	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K LA-RZL 90 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 C13723_MIREL	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K LA-RZL 90 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K LA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K LA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 43.0° / 77.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K LA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 43.0° / 77.0° 77 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4'	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K LA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 43.0° / 77.0° 77 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4'	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K LA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 43.0° / 77.0° 77 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 C13723_MIREL Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour Required compone	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K LA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 43.0° / 77.0° 77 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 C13723_MIREL Bender Wirth: 4 C13723_MIREL Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K LA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 43.0° / 77.0° 77 % 1.2 cd/lm 1 White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 C13723_MIREL Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour Required compone	CDM-6 (Dim-To-Warm) 49.0° / 85.0° 70 % 0.9 cd/lm 1 White ents: A-SOCKET-K LA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 43.0° / 77.0° 77 % 1.2 cd/lm 1 White ents: A-SOCKET-K	



C LUM	INUS	8°
LED	CDM-9 (Dim-To-Warm)	
FWHM / FWTM	51.0° / 86.0°	R' X
Efficiency	70 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	gr ar
Required compone	ents:	
C16142_HEKLA		
C13723_MIREL		
Bender Wirth: 4	90 Typ L8	30 ⁴ 30 ⁴ 31 ⁴
() LUM	INUS	51 ⁴ 51 ⁴
LED	CDM-9 (Dim-To-Warm)	
FWHM / FWTM	49.0° / 79.0°	
Efficiency	76 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	a, ac
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
Bender Wirth: 4	90 Typ L8	
		30 _ 25 _ 6 _ 25 _ 34
ELUM	INUS	
	INUS CTM-9 (Tunable White)	93 ⁴ 99 ⁴
		99 ⁴ 75 ⁴ 20
LED	CTM-9 (Tunable White)	
LED FWHM / FWTM	CTM-9 (Tunable White) 51.0° / 86.0°	87
LED FWHM / FWTM Efficiency	CTM-9 (Tunable White) 51.0° / 86.0° 68 %	
LED FWHM / FWTM Efficiency Peak intensity	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm	51 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LA-RZL	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LA-RZL	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LLA-RZL 95 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LLA-RZL 95 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LLA-RZL 95 Typ L8 INUS CXM-4 53.0° / 88.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4'	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 53.0° / 88.0° 80 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 C13723_MIREL Bender Wirth: 4' Ender Wirth: 4' Efficiency Peak intensity LEDs/each optic Light colour	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 53.0° / 88.0° 80 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 Ender Wirth: 4 EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 53.0° / 88.0° 80 % 0.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 C13723_MIREL Bender Wirth: 4' Ender Wirth: 4' Efficiency Peak intensity LEDs/each optic Light colour	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 53.0° / 88.0° 80 % 0.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 Ender Wirth: 4 EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 53.0° / 88.0° 80 % 0.9 cd/lm 1 White ents: A-SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 C13723_MIREL Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKL/	CTM-9 (Tunable White) 51.0° / 86.0° 68 % 0.8 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 53.0° / 88.0° 80 % 0.9 cd/lm 1 White ents: A-SOCKET-C	



	NUS	50°
LED	CXM-4	
FWHM / FWTM	38.0° / 78.0°	73'
Efficiency	87 %	400
Peak intensity	1.5 cd/lm	60 ¹⁻
LEDs/each optic	1	
Light colour	White	97
Required compone		
F15255_HEKLA		1220
		30° 33°
	NUS	15% 360 15%
~		90°
	CxM-9 (13.5x13.5)	75'
FWHM / FWTM	57.0° / 82.0°	
Efficiency	82 %	60 ¹ 60 ²
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15255_HEKLA	-SOCKET-C	
		30° 35° 35°
⊘ NICHI∧		<u>90*</u>
LED	NJCWL024Z-V1MT: COB L-Type Tunable White	
FWHM / FWTM	49.0° / 84.0°	78' 78'
Efficiency	69 %	
-	0.9 cd/lm	
Peak intensity		
Peak intensity LEDs/each optic	1	
LEDs/each optic		g
	1 White	9° 600
LEDs/each optic Light colour	1 White nts:	gr 60
LEDs/each optic Light colour Required compone	1 White nts: -SOCKET-K	ar
LEDs/each optic Light colour Required compone C16142_HEKLA	1 White nts: -SOCKET-K LA-RZL	
LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 49	1 White nts: -SOCKET-K LA-RZL 97 Typ L8	20° 00 00 00°
LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 49	1 White nts: -SOCKET-K LA-RZL 97 Typ L8	59 ⁴ 59 ⁴ 59 ⁴ 59 ⁴ 50
LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 49	1 White nts: -SOCKET-K LA-RZL 97 Typ L8	27. 28. 29. 29. 29. 20. 20. 20. 20. 20. 20. 20. 20
LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 43	1 White nts: -SOCKET-K LA-RZL 97 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White	
LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 49	1 White nts: -SOCKET-K LA-RZL 97 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 76.0° 76 %	60 60 90 90 10 10 10 10 10 10 10 10 10 1
LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4S MICHIA LED FWHM / FWTM Efficiency	1 White nts: -SOCKET-K LA-RZL 97 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 76.0°	
LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 45 WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White nts: -SOCKET-K LA-RZL 77 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 76.0° 76 % 1.2 cd/lm	a. b. b. b. b. b. b. b.
LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 45 NICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White nts: -SOCKET-K LA-RZL 97 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 76.0° 76 % 1.2 cd/lm 1 White	73° - 75° 60° - 60° - 60°
LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 43 WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	1 White nts: -SOCKET-K LA-RZL 77 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 76.0° 76 % 1.2 cd/lm 1 White nts:	73° - 75° 60° - 60° - 60°
LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 43 MICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	1 White nts: -SOCKET-K LA-RZL 97 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 76.0° 76 % 1.2 cd/lm 1 White nts: -SOCKET-K	50 - 50 - 72 - 72 - 72 - 72 - 72 - 72 - 72 - 7
LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 43 MICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	1 White nts: -SOCKET-K LA-RZL 97 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 76.0° 76 % 1.2 cd/lm 1 White nts: -SOCKET-K	50 - 50 - 72 - 72 - 72 - 72 - 72 - 72 - 72 - 7



∕∕ NICHI∕		90°
LED FWHM / FWTM Efficiency Peak intensity	NVCWJ024Z-V1MT: COB J-Type Tunable White 51.0° / 86.0° 69 % 0.8 cd/lm	20
LEDs/each optic	1	
Light colour	White	gr I I I I I I I I I I I I I I I I I I I
Required compone		
C16142_HEKLA		
C13723_MIREL Bender Wirth: 49		30° 15° 0° 15°
ØNICHI	l l	90°
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White	75*
FWHM / FWTM	52.0° / 79.0°	$ \lambda $
Efficiency	77 %	60*
Peak intensity	1 cd/lm	400
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA		
Bender Wirth: 49	98 Тур ∟8	
OSRAM Opto Semiconductors		90°
Opto Semiconductors		
	Soleria S9	
LED	Soleriq S9 39.0° / 80.0°	75
LED FWHM / FWTM	Soleriq S9 39.0° / 80.0° 91 %	75
LED FWHM / FWTM Efficiency	39.0° / 80.0°	27 50 50
LED FWHM / FWTM Efficiency Peak intensity	39.0° / 80.0° 91 %	57 64 00
	39.0° / 80.0° 91 % 1.5 cd/lm	75 60 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	39.0° / 80.0° 91 % 1.5 cd/lm 1 White ents: -SOCKET-C	25 60 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	39.0° / 80.0° 91 % 1.5 cd/lm 1 White ents: -SOCKET-C	64 67 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	39.0° / 80.0° 91 % 1.5 cd/lm 1 White ents: -SOCKET-C S Fortimo SLM L09 CoB	25 [°] 25 [°] 25 [°]
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	39.0° / 80.0° 91 % 1.5 cd/lm 1 White ents: -SOCKET-C S Fortimo SLM L09 CoB 55.0° / 90.0°	54 54 15 15 15 15 15 15 15 15 15 15
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	39.0° / 80.0° 91 % 1.5 cd/lm 1 White ents: -SOCKET-C S Fortimo SLM L09 CoB 55.0° / 90.0° 74 %	99 ⁴ 25 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	39.0° / 80.0° 91 % 1.5 cd/lm 1 White white SOCKET-C Socket-	25 ⁵ 0 ⁶ 15 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	39.0° / 80.0° 91 % 1.5 cd/lm 1 White white SOCKET-C Socket-	36 ⁴ 15 ⁴ 15 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	39.0° / 80.0° 91 % 1.5 cd/lm 1 White white SOCKET-C S Fortimo SLM L09 CoB 55.0° / 90.0° 74 % 0.8 cd/lm 1 White	30 ⁴ 15 ⁴ 15 ⁴ 15 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA PHILLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	39.0° / 80.0° 91 % 1.5 cd/lm 1 White white SOCKET-C S Fortimo SLM L09 CoB 55.0° / 90.0° 74 % 0.8 cd/lm 1 White white state of the state of the sta	36 ⁴ 15 ⁴ 15 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	39.0° / 80.0° 91 % 1.5 cd/lm 1 White white SOCKET-C SS Fortimo SLM L09 CoB 55.0° / 90.0° 74 % 0.8 cd/lm 1 White mts: -SOCKET-H	25 ⁵ 0 ⁶ 15 ⁵



PHILIF	S	54 ⁴ 90
LED	Fortimo SLM L09 CoB	
FWHM / FWTM	57.0° / 83.0°	
Efficiency	82 %	
Peak intensity	1 cd/lm	60 × 40 × 10
LEDs/each optic	1	
Light colour	White	
Required compone		
F15858_HEKLA		80
		20 ⁴ 25 00 25 ⁴
PHILIP	DS	
LED	Fortimo SLM L13 CoB	
FWHM / FWTM	54.0° / 90.0°	
Efficiency	71 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C16142_HEKLA		
C13723_MIREL		
Bender Wirth: 4		
PHILIP		99 ⁴ 90
LED	Fortimo SLM L13 CoB	77
FWHM / FWTM	54.0° / 90.0°	
Efficiency	71 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
	White	
Required compone	ents:	
Required compone C16142_HEKLA	ents: A-SOCKET-K	
	ents: A-SOCKET-K LA-RZL	
Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4	ents: A-SOCKET-K LA-RZL 32 Typ L8	107 100 100
Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4	ents: A-SOCKET-K LA-RZL 32 Typ L8	
Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4 PHILLIG LED	ents: A-SOCKET-K LA-RZL 32 Typ L8	**************************************
Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4 PHILLE LED FWHM / FWTM	ents: A-SOCKET-K LA-RZL 32 Typ L8 S Fortimo SLM L13 CoB 58.0° / 84.0°	
Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4 PHILLE FWHM / FWTM Efficiency	ents: A-SOCKET-K LA-RZL 32 Typ L8 S Fortimo SLM L13 CoB 58.0° / 84.0° 77 %	20 ⁴ 20 ⁴ 20 ⁴
Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4 PHILLE FWHM / FWTM Efficiency Peak intensity	ents: A-SOCKET-K LA-RZL 32 Typ L8 S Fortimo SLM L13 CoB 58.0° / 84.0° 77 % 0.8 cd/lm	20 ⁴ 20 ⁴ 20 ⁴
Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4 PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	ents: A-SOCKET-K LA-RZL 32 Typ L8 S Fortimo SLM L13 CoB 58.0° / 84.0° 77 % 0.8 cd/lm 1	
Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	ents: A-SOCKET-K LA-RZL 32 Typ L8 S Fortimo SLM L13 CoB 58.0° / 84.0° 77 % 0.8 cd/lm 1 White	
Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 PHILLE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	ents: A-SOCKET-K LA-RZL 32 Typ L8 S Fortimo SLM L13 CoB 58.0° / 84.0° 77 % 0.8 cd/lm 1 White ents:	
Required compone C16142_HEKL4 C13723_MIREL Bender Wirth: 4 PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4	ents: A-SOCKET-K LA-RZL 32 Typ L8 S Fortimo SLM L13 CoB 58.0° / 84.0° 77 % 0.8 cd/lm 1 White ents: A-SOCKET-K	
Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	ents: A-SOCKET-K LA-RZL 32 Typ L8 S Fortimo SLM L13 CoB 58.0° / 84.0° 77 % 0.8 cd/lm 1 White ents: A-SOCKET-K	



PHILIF	S	50°	90
LED	Fortimo SLM L13 CoB		
FWHM / FWTM	58.0° / 84.0°	7	
Efficiency	77 %		$\times // \land$
Peak intensity	0.8 cd/lm		
LEDs/each optic	1		
Light colour	White	9	
Required compone			
C16142_HEKLA			
Bender Wirth: 43			
			15°
<u> </u>	JNG	30'	
LED	LC010C G2		
FWHM / FWTM	45.0° / 79.0°	77	
Efficiency	82 %		$-N \times$
Peak intensity	1.2 cd/lm		\sim
LEDs/each optic	1		
Light colour	White	9°	X
Required compone			
F15255_HEKLA			
		20 ⁰ 157 00	15°
S ΛΜS			
21/1/191	JINU	90*	9
			,
LED	LC010T (Tunable White)	22-	
LED FWHM / FWTM		23	
LED FWHM / FWTM Efficiency	LC010T (Tunable White) 52.0° / 76.0° 78 %		
LED FWHM / FWTM Efficiency Peak intensity	LC010T (Tunable White) 52.0° / 76.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White ints:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White ints: INSOCKET-K		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White Ints: INSOCKET-K ARA-RZ-LENS		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White Ints: IN-SOCKET-K ARA-RZ-LENS D1 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White Ints: IN-SOCKET-K ARA-RZ-LENS D1 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White ints: -SOCKET-K ARA-RZ-LENS 01 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White ints: -SOCKET-K ARA-RZ-LENS D1 Typ L8 JNG LC010T (Tunable White) 48.0° / 79.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SANNSU LED FWHM / FWTM Efficiency	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White I SOCKET-K ARA-RZ-LENS D1 Typ L8 ING LC010T (Tunable White) 48.0° / 79.0° 82 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SANNSU LED FWHM / FWTM Efficiency Peak intensity	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White onts: A-SOCKET-K ARA-RZ-LENS D1 Typ L8 JNG LC010T (Tunable White) 48.0° / 79.0° 82 % 1.2 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White onts: A-SOCKET-K ARA-RZ-LENS D1 Typ L8 JNG LC010T (Tunable White) 48.0° / 79.0° 82 % 1.2 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White ints: A-SOCKET-K ARA-RZ-LENS D1 Typ L8 JNC LC010T (Tunable White) 48.0° / 79.0° 82 % 1.2 cd/lm 1 Tunable White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White ints: A-SOCKET-K ARA-RZ-LENS D1 Typ L8 JNG LC010T (Tunable White) 48.0° / 79.0° 82 % 1.2 cd/lm 1 Tunable White ints:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White ints: A-SOCKET-K ARA-RZ-LENS D1 Typ L8 JNCG LC010T (Tunable White) 48.0° / 79.0° 82 % 1.2 cd/lm 1 Tunable White ints: -SOCKET-K		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 50 SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 52.0° / 76.0° 78 % 1.1 cd/lm 1 Tunable White ints: A-SOCKET-K ARA-RZ-LENS D1 Typ L8 JNCG LC010T (Tunable White) 48.0° / 79.0° 82 % 1.2 cd/lm 1 Tunable White ints: -SOCKET-K		



SAMSL	JNG	90 ¹
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	62.0° / 88.0°	
Efficiency	79 %	691
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15859_HEKLA	-SOCKET-I	
		30 ⁶ 25 ⁹ 0 ⁹ 15 ⁹
S ΛΜSL	JNG	95
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	57.0° / 94.0°	
Efficiency	71 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
F15859_HEKLA	-SOCKET-I	80
C13723_MIRELI	_A-RZL	
		26 20 01 101 3
SΛMSL	JNG	30 ⁴
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	62.0° / 86.0°	
Efficiency	75 %	60
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required component	nts:	
Required component F15859_HEKLA	nts: -SOCKET-I	
Required compone	nts: -SOCKET-I	
Required component F15859_HEKLA	nts: -SOCKET-I	34 <u>135</u> <u>060</u> <u>135</u> 3
Required componen F15859_HEKLA C13333_MIRELI	nts: -SOCKET-I _A-CL	
Required component F15859_HEKLA	nts: -SOCKET-I _A-CL	
Required component F15859_HEKLA: C13333_MIRELI	nts: -SOCKET-I _A-CL	
Required component F15859_HEKLA: C13333_MIRELI	nts: -SOCKET-I _A-CL JNG _LC016D / LC019D / LC026D / LC033D	
Required component F15859_HEKLA: C13333_MIRELI SAMSL LED FWHM / FWTM	nts: -SOCKET-I _A-CL JNG _LC016D / LC019D / LC026D / LC033D _60.0° / 90.0°	
Required component F15859_HEKLA: C13333_MIRELI SAMSL LED FWHM / FWTM Efficiency	nts: -SOCKET-I _A-CL JNG _LC016D / LC019D / LC026D / LC033D 60.0° / 90.0° 73 %	
Required component F15859_HEKLA: C13333_MIRELI SAMSU LED FWHM / FWTM Efficiency Peak intensity	nts: -SOCKET-I _A-CL JNG _LC016D / LC019D / LC026D / LC033D 60.0° / 90.0° 73 % 0.7 cd/lm	
Required component F15859_HEKLA: C13333_MIRELI SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	nts: -SOCKET-I _A-CL JNG LC016D / LC019D / LC026D / LC033D 60.0° / 90.0° 73 % 0.7 cd/lm 1 White	
Required component F15859_HEKLA: C13333_MIRELI SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: -SOCKET-I _A-CL JNG LC016D / LC019D / LC026D / LC033D 60.0° / 90.0° 73 % 0.7 cd/lm 1 White nts:	
Required component F15859_HEKLA: C13333_MIRELI SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	nts: -SOCKET-I _A-CL JNG LC016D / LC019D / LC026D / LC033D 60.0° / 90.0° 73 % 0.7 cd/lm 1 White nts: -SOCKET-I	



SAMSU	JNG		90°
LED	LC020C	and the second s	75
FWHM / FWTM	56.0° / 82.0°		
Efficiency	83 %		50*
Peak intensity	1 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required componer			800
F15848_HEKLA-	-SOCKET-G		
			30* 155 6* 35°
SVWS	JNG		90°
LED	LC020C G2		
FWHM / FWTM	55.0° / 81.0°		
Efficiency	81 %		
Peak intensity	1 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required componer	nts:		
F15859_HEKLA-	-SOCKET-I		
			305
TRIDON			90°
		and the second se	
	SLE G7 LES09		75
FWHM / FWTM	54.0° / 89.0° 76 %		200
Efficiency Peak intensity	0.9 cd/lm		601
LEDs/each optic	1		
Light colour	1		
	White		
-	White nts:		e-
Required componer	nts:		0°-
Required componer F15255_HEKLA-	nts: -SOCKET-C		5
Required componer	nts: -SOCKET-C		0 00 00
Required componer F15255_HEKLA- C13723_MIRELL	nts: -SOCKET-C _A-RZL		5°
Required componer F15255_HEKLA-	nts: -SOCKET-C _A-RZL		94°
Required componer F15255_HEKLA- C13723_MIRELL	nts: -SOCKET-C _A-RZL		20 20 20 20 00 00 00 00 00 00
Required componer F15255_HEKLA- C13723_MIRELL TRIDON LED FWHM / FWTM	nts: -SOCKET-C _A-RZL		
Required componer F15255_HEKLA- C13723_MIRELL TRIDON LED	nts: -SOCKET-C _A-RZL IIC SLE G7 LES09		
Required component F15255_HEKLA- C13723_MIRELL TRIDON LED FWHM / FWTM Efficiency Peak intensity	nts: -SOCKET-C _A-RZL IIC SLE G7 LES09 56.0° / 82.0°		
Required componen F15255_HEKLA- C13723_MIRELL TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	nts: -SOCKET-C _A-RZL SLE G7 LES09 56.0° / 82.0° 84 % 1.1 cd/lm 1		
Required componer F15255_HEKLA- C13723_MIRELL TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: -SOCKET-C _A-RZL SLE G7 LES09 56.0° / 82.0° 84 % 1.1 cd/lm 1 White		
Required component F15255_HEKLA- C13723_MIRELL TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	nts: -SOCKET-C _A-RZL SLE G7 LES09 56.0° / 82.0° 84 % 1.1 cd/lm 1 White nts:		
Required componer F15255_HEKLA- C13723_MIRELL TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: -SOCKET-C _A-RZL SLE G7 LES09 56.0° / 82.0° 84 % 1.1 cd/lm 1 White nts:		
Required componen F15255_HEKLA- C13723_MIRELL TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	nts: -SOCKET-C _A-RZL SLE G7 LES09 56.0° / 82.0° 84 % 1.1 cd/lm 1 White nts:		



TRIDO	NIC	50° 50°
LED	SLE G7 LES13	
FWHM / FWTM	61.0° / 86.0°	
Efficiency	79 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	er et
Required compone	ents:	
F15859_HEKLA	-SOCKET-I	
		200
		30* 10° 10° 10°
TRIDON		84
LED	SLE G7 LES13	
FWHM / FWTM	56.0° / 92.0°	
Efficiency	71 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15859_HEKLA		20
C13723_MIREL		
		30. 10 200 10 30
XICATO)	
LED	XOB 14.5 mm	
FWHM / FWTM	58.0° / 94.0°	75
	76 %	
EITICIENCV		
-		
Peak intensity	0.8 cd/lm	
Peak intensity LEDs/each optic		
Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White	
Peak intensity LEDs/each optic	0.8 cd/lm 1 White ents:	
LEDs/each optic Light colour Required compone	0.8 cd/lm 1 White ents: N-SOCKET-I	
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	0.8 cd/lm 1 White ents: N-SOCKET-I	
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIREL	0.8 cd/lm 1 White ents: A-SOCKET-I LA-RZL	
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIREL	0.8 cd/lm 1 White ents: N-SOCKET-I LA-RZL	
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIREL	0.8 cd/lm 1 White ents: N-SOCKET-I LA-RZL XOB 14.5 mm	
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIREL XICATC LED FWHM / FWTM	0.8 cd/lm 1 White ents: N-SOCKET-I LA-RZL	
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIREL XICATC LED FWHM / FWTM Efficiency	0.8 cd/lm 1 White ents: -SOCKET-I LA-RZL XOB 14.5 mm 63.0° / 88.0° 84 %	
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIREL XICATC LED FWHM / FWTM Efficiency Peak intensity	0.8 cd/lm 1 White ents: -SOCKET-I LA-RZL XOB 14.5 mm 63.0° / 88.0°	
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIREL XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.8 cd/lm 1 White ents: -SOCKET-I LA-RZL XOB 14.5 mm 63.0° / 88.0° 84 % 0.9 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIREL XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White ents: -SOCKET-I LA-RZL XOB 14.5 mm 63.0° / 88.0° 84 % 0.9 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIREL XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	0.8 cd/lm 1 White ents: -SOCKET-I LA-RZL XOB 14.5 mm 63.0° / 88.0° 84 % 0.9 cd/lm 1 White ents:	
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIREL XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White ents: -SOCKET-I LA-RZL XOB 14.5 mm 63.0° / 88.0° 84 % 0.9 cd/lm 1 White ents:	
Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIREL XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	0.8 cd/lm 1 White ents: -SOCKET-I LA-RZL XOB 14.5 mm 63.0° / 88.0° 84 % 0.9 cd/lm 1 White ents:	



XICATO	0	50 ⁺
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKL/ C13723_MIREL	XOB 6 mm 53.0° / 88.0° 80 % 0.9 cd/lm 1 White ents: A-SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15255_HEKL/	XOB 6 mm 44.0° / 79.0° 88 % 1.3 cd/lm 1 White ents:	
XICATO	0	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKL/ C13723_MIREL	XOB 9.8 mm 55.0° / 90.0° 81 % 0.9 cd/lm 1 White ents: A-SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XOB 9.8 mm 55.0° / 82.0° 88 % 1.1 cd/lm 1 White	



PHOTOMETRIC DATA (SIMULATED):

bridgelux.		90*
LED	VERO13	
FWHM / FWTM	53.0° / 78.0°	
Efficiency	83 %	60 ⁴
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr at
Required component	8:	
C16142_HEKLA-SOCKET-K		
		34
		<u> </u>
Ø NICHIΛ		30 ⁴ 30 ⁴
LED	COB L-Type (LES 11)	
FWHM / FWTM	61.0° / 82.0°	
Efficiency	88 %	60 ⁵
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	× / ×
Required component	8:	
F15858_HEKLA-SOCKET-H		
		30"



PRODUCT DATASHEET F16002 MIRELLA-G2-WW

GENERAL INFORMATION:

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

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

MATERIALS:

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

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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

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LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

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