

PRODUCT DATASHEET RONDA-S-C

RONDA-S-C

 ${\sim}25^\circ$ spot beam with holder C compatible with LEDiL HEKLA

SPECIFICATION:

Dimensions	Ø 52.1 mm
Height	17.2 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIALS:

Component F15667_RONDA-S F15635_RONDA-HLD-C

Туре
Single lens
Holder

Material	Colour	Finish
PMMA	clear	
PC	white	

ORDERING INFORMATION:

Quantities for one set:

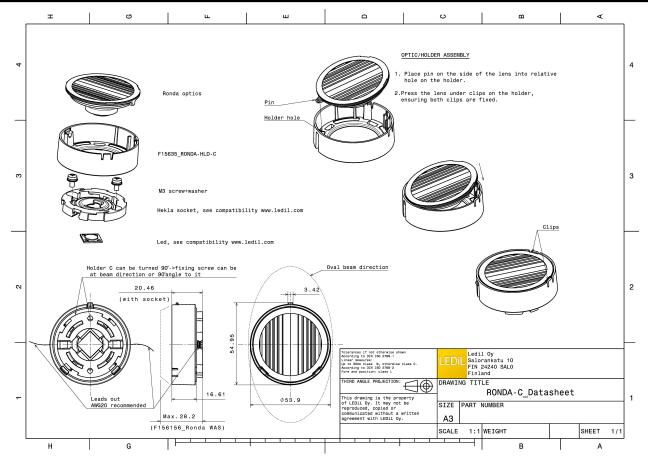
Single lens 1 Holder 1



Component		Qty in box	MOQ	MPQ	Box weight (kg)
F15667_RONDA-S » Box size: 480 x 280 x 300 mm	Single lens	420	120	30	6.3
F15635_RONDA-HLD-C » Box size: 480 x 280 x 300 mm	Holder	420	120	30	4.1



PRODUCT DATASHEET RONDA-S-C



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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63		99°
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	V4 HD Gen 7 16.0° / 32.0° 90 % 6.6 cd/lm 1	250 - 250 -
Light colour Required compone F15253_HEKLA		30 ¹ 30 ¹ 30 ² 40
bridgeluX LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA		97 97 97 97 97 97 97 97 97 97 97 97 97 97 9
bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		5 ³ , ¹² ,



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. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	-SOCKET-K	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50	-SOCKET-K	



bridgelux.		99* 90
LED	Vesta TW 9mm (12W) CSP	
FWHM / FWTM	26.0° / 55.0°	3. 3. 3.
Efficiency	82 %	
Peak intensity	2.1 cd/lm	60 ⁵ 000 0
LEDs/each optic	1	
Light colour	White	g* / / s
Required compone	ents:	
C16142_HEKLA		
Bender Wirth: 48		
		30-
CITIZE	'N	13 ⁵ 0 ⁴ 13 ⁵
LED	CLC020 Series (Dim-To-Warm)	75*
FWHM / FWTM	28.0° / 58.0°	
Efficiency	81 %	50 ³ 60
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA	A-SOCKET-K	1600
		30° 15° 300 15°
CITIZE	'N	90° 90
		50° 50
LED	CLL02x/CLU02x (LES10)	30 ⁴
LED FWHM / FWTM	CLL02x/CLU02x (LES10) 26.0° / 54.0°	<u>30*</u>
LED FWHM / FWTM Efficiency	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 %	50 ⁴ 50 73 ⁴ 73 80 ⁴ 000 60
LED FWHM / FWTM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm	90 ⁴ 73 ⁵ 90 ⁴ 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1	90* 90 75 00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White	90* 90 75° 70 60° 600 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents:	9)* 99 75 75 75 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents:	90 ⁴ 73 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents:	50 ¹ 50 75 60 60 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 F15255_HEKLA	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents: A-SOCKET-C	27° (v ² 22°)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents: A-SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents: A-SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents: A-SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents: A-SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 19.0° / 39.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents: -SOCKET-C SN CLU700/701/702/703 19.0° / 39.0° 87 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 19.0° / 39.0° 87 % 4.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents: A-SOCKET-C 'N CLU700/701/702/703 19.0° / 39.0° 87 % 4.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 19.0° / 39.0° 87 % 4.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 19.0° / 39.0° 87 % 4.1 cd/lm 1 White ents:	73 60 67 67 67 67 67 67 67 67 67 68 68 68 68 68 68 68 68 68 68 68 68 68
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL02x/CLU02x (LES10) 26.0° / 54.0° 86 % 2.3 cd/lm 1 White ents: A-SOCKET-C CLU700/701/702/703 19.0° / 39.0° 87 % 4.1 cd/lm 1 White ents:	73 60 67 67 67 67 67 67 67 67 67 68 68 68 68 68 68 68 68 68 68 68 68 68



CITIZE	N	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7A2/7A3 15.0° / 31.0° 89 % 6.6 cd/lm 1 White nts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA		
CREE Constructions LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15254_HEKLA		
CREECS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		



CREE ÷		30* 39*
LED	CMT19xx	
FWHM / FWTM	35.0° / 82.0°	77
Efficiency	82 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	ı White	a. a.
Required compone		
F15859_HEKLA		
110000_1121(2)	COOKETT	
		1200
		30° 30° 30° 30°
		90° 0 90°
LED	CXA/B 13xx	
FWHM / FWTM	19.0° / 39.0°	
Efficiency	88 %	
Peak intensity	4.4 cd/lm	
LEDs/each optic	1	
Light colour	White	g. a
Required compone	nts:	
F15956_HEKLA		
		y
		15% 4680 15%
CREE 🚖		
		90 ⁴
LED	CXA/B 15xx	90* 90*
LED FWHM / FWTM	25.0° / 50.0°	33-
LED FWHM / FWTM Efficiency	25.0° / 50.0° 88 %	64
LED LED FWHM / FWTM Efficiency Peak intensity	25.0° / 50.0° 88 % 2.7 cd/lm	60°
LEDs FWHM / FWTM Efficiency Peak intensity LEDs/each optic	25.0° / 50.0° 88 % 2.7 cd/lm 1	
LEDs FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	25.0° / 50.0° 88 % 2.7 cd/lm 1 White	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts:	
LEDs FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts:	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts:	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts:	
LEDs FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts: -SOCKET-D	
LEDs Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts: -SOCKET-D	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts: -SOCKET-D EDS LUXEON CX Plus CoB L08 (Gen2)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA COMPLED LED FWHM / FWTM	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts: -SOCKET-D	
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA COMPUTE LED FWHM / FWTM Efficiency	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts: -SOCKET-D EDS LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA Composed F15256_HEKLA Composed F15256_HEKLA Composed FWHM / FWTM Efficiency Peak intensity	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts: -SOCKET-D EDS LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA COMPLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts: -SOCKET-D EDS LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA COMPLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts: -SOCKET-D EDS LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA WIM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts: -SOCKET-D EDS LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA COMPLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts: -SOCKET-D EDS LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA WIM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	25.0° / 50.0° 88 % 2.7 cd/lm 1 White nts: -SOCKET-D EDS LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts:	



	.EDS	50' 50
LED	LUXEON CoB 1202HD	
FWHM / FWTM	21.0° / 40.0°	77
Efficiency	89 %	
Peak intensity	4.1 cd/lm	60 ⁻⁰
LEDs/each optic	1	
Light colour	White	
Required compone		
F15848_HEKLA		
	EDS	97°
LED	LUXEON CoB 1202s	
EED FWHM / FWTM	19.0° / 39.0°	
Efficiency	89 %	
Peak intensity	4.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15848_HEKLA		
110040_1121(2)	COOKET O	
		30° 4830 55°
	.EDS	50 ⁴
	LUXEON CoB 1204HD	
LED		39°
LED FWHM / FWTM	LUXEON CoB 1204HD	
LED FWHM / FWTM	LUXEON CoB 1204HD 27.0° / 51.0°	50 ⁻ 50 ⁻ 50 ⁻ 50 ⁻
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1204HD 27.0° / 51.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm	5 .
Control Contro	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White	9° 3 3° 300 4 9° 300 4
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents: A-SOCKET-H	30° 200 15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents: A-SOCKET-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents: A-SOCKET-H	30 ⁴ 15 ⁷ 0 ¹⁰ 15 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents: A-SOCKET-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents: -SOCKET-H EDS LUXEON CoB 1205HD 31.0° / 61.0° 86 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents: -SOCKET-H LUXEON CoB 1205HD 31.0° / 61.0°	30° 15° 0° 15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents: A-SOCKET-H LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents: A-SOCKET-H LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White	30° 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents: A-SOCKET-H LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents: A-SOCKET-H LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1204HD 27.0° / 51.0° 88 % 2.5 cd/lm 1 White ents: A-SOCKET-H LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White ents:	



LED LUXEON CX Plus CoB - HD S01H4	\wedge
FWHM / FWTM 18.0° / 37.0°	
Efficiency 89 %	1600
Peak intensity 5 cd/lm	
LEDs/each optic 1	
Light colour White	3230
Required components:	
Bender Wirth: 634c Hekla	
30*	
	0 ₆ 32 ₆
UMILEDS	A
LED LUXEON CX Plus CoB - HD S02H6	
FWHM / FWTM 19.0° / 39.0°	
Efficiency 90 %	1000
Peak intensity 4.4 cd/lm	
LEDs/each optic 1	X / /
Light colour White	et al
Required components:	3230
Bender Wirth: 634c Hekla	
20-	4590 150
	9
UNILEDS JUXEON CX Plus CoB - HD S04H9	
LED LUXEON CX Plus CoB - HD S04H9	
LED LUXEON CX Plus CoB - HD S04H9	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0°	00
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 %	000 × 2
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/m LEDs/each optic 1	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/m LEDs/each optic 1	500 × 2
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White	00 100 100
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/m LEDs/each optic 1 Light colour White Required components: **	800 9 2030 0 2030 0 20300 0 2030 0 2030 0 2030 0 2030 0 20300 0 2030 0 20300 0 203000 0 20300 0 20300 0 2000 0 200000000
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: **	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 63/c Hekla	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 63-C Hekla	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 63/ Hekla Efficiency With: 63/ Hekla Efficiency 2.6 cd/lm LED LUXEON CX Plus CoB L04 / L05 (Gen2)	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 63-c Hekla ED LUXEON CX Plus CoB L04 / L05 (Gen2) FWHM / FWTM 31.0° / 63.0°	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla ED LUXEON CX Plus CoB L04 / L05 (Gen2) FWHM / FWTM 31.0° / 63.0° Efficiency 87 %	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634C Hekla	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla Efficiency 87 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla EFM LUXEON CX Plus CoB L04 / L05 (Gen2) FWHM / FWTM 31.0° / 63.0° Efficiency 87 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components:	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla Efficiency 87 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Half	
LED LUXEON CX Plus CoB - HD S04H9 FWHM / FWTM 26.0° / 51.0° Efficiency 88 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 634c Hekla Efficiency 87 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components: Efficiency 87 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components:	



COMIL	FDS	90° 90
		90° 90
LED FWHM / FWTM	LUXEON CX Plus CoB M02 / M03 (Gen2) 24.0° / 48.0°	75°
Efficiency	88 %	
Peak intensity	2.9 cd/lm	60* 60
	1	
LEDs/each optic Light colour	ı White	45* 45
Required compone		
Bender Wirth: 6		
Dender Witth. 0.		2100
		\times / \vee / \times
		30° 30 13° 25° 30
UMIL	.EDS	90 ⁺
LED	LUXEON CX Plus CoB S01 (Gen2)	
FWHM / FWTM	18.0° / 36.0°	
Efficiency	90 %	E0° 1600
Peak intensity	5.1 cd/lm	
LEDs/each optic	1	
Light colour	White	95° 3200 45
Required compone	ents:	
Bender Wirth: 6	34c Hekla	
		46300
		30" 30 36
ELUM	INUS	90* 90
		90 ⁺
-	CDM-9 (Dim-To-Warm) 26.0° / 52.0°	39* 39
LED	CDM-9 (Dim-To-Warm)	
LED FWHM / FWTM	CDM-9 (Dim-To-Warm) 26.0° / 52.0°	90 ⁴ 92 72 ⁵ 72 66 ⁴ 60
LED FWHM / FWTM Efficiency	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 %	
LED FWHM / FWTM Efficiency Peak intensity	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm	99 ⁴ 92 25 26 27 26 20 20 20 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White	50 ⁴ 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White ents:	50 ⁴ 50 75 6 ⁴ 50 6 ⁴ 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	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White ents: N-SOCKET-K	99 ⁴ 75 60 ⁴ 60 ⁴ 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 C16142_HEKLA	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White ents: N-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White ents: A-SOCKET-K 90 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White white M-SOCKET-K 90 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 49	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White white white white white White CXM-4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 43	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White ents: K-SOCKET-K 90 Typ L8 INUS CXM-4 16.0° / 33.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 43	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White ents: X-SOCKET-K 90 Typ L8 INUS CXM-4 16.0° / 33.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 43 WILED FWHM / FWTM Efficiency Peak intensity	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White ents: K-SOCKET-K 90 Typ L8 INUS CXM-4 16.0° / 33.0°	200 200 20 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 Bender Wirth: 49 WIM / FWTM Efficiency Peak intensity LEDs/each optic	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White ents: -SOCKET-K 90 Typ L8 INUS CXM-4 16.0° / 33.0° 88 % 5.6 cd/lm 1	200 200 20 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 Bender Wirth: 4: Efficiency Peak intensity LEDs/each optic Light colour	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White Parts: A-SOCKET-K 90 Typ L8 INUS CXM-4 16.0° / 33.0° 88 % 5.6 cd/lm 1 White	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4: Efficiency Peak intensity LEDs/each optic Light colour Required compone	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White ents: -SOCKET-K 90 Typ L8 INUS CXM-4 16.0° / 33.0° 88 % 5.6 cd/lm 1 White ents:	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 Bender Wirth: 4: Efficiency Peak intensity LEDs/each optic Light colour	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White ents: -SOCKET-K 90 Typ L8 INUS CXM-4 16.0° / 33.0° 88 % 5.6 cd/lm 1 White ents:	20 ³ 0 ³ 12 ³ 0 ³ 0 ³ 12 ³ 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4: WIM / HWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White ents: -SOCKET-K 90 Typ L8 INUS CXM-4 16.0° / 33.0° 88 % 5.6 cd/lm 1 White ents:	200 200 200 200 200 200 200 200 200 200



	INUS	90 ⁴ 90 ⁹
LED	CxM-9 (13.5x13.5)	
FWHM / FWTM	27.0° / 55.0°	
Efficiency	86 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	gr a
Required compone		
F15255_HEKLA		
DUUU		10 ⁷ 2000 10 ⁷ 10 ⁹
PHILIF	' 5	sv*
LED	Fortimo SLM L09 CoB	
FWHM / FWTM	26.0° / 51.0°	
Efficiency	87 %	60* - 80 - 100
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	9° (100)
Required compone		
F15858_HEKLA	-SOCKET-H	
		30
PHILIP	DS	
LED	Fortimo SLM L13 CoB	
FWHM / FWTM	33.0° / 77.0°	
Efficiency	80 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	ger 840
Required compone	ents:	
C16140_CLAMF		
Bender Wirth: 43		120
PHILIF	S	325 [°] 4 ⁰ 35 [°]
	Fortimo SLM L13 CoB	
FWHM / FWTM	33.0° / 77.0° 80 %	
Efficiency Peak intensity	80 % 1.3 cd/lm	
LEDs/each optic	1.3 co/im 1	
Light colour	White	
Required compone		
C16142_HEKLA		
Bender Wirth: 43		
Dender Wittil. 4		



JUNNUJ	JNG	90*
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	27.0° / 55.0°	
Efficiency	87 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	gr (
Required compone	nts:	
F15255_HEKLA	-SOCKET-C	
		20" 200
<u> </u> S M SI 	ING	
LED	LC010C	
FWHM / FWTM	20.0° / 41.0°	
Efficiency	88 %	
Peak intensity	3.8 cd/lm	50°
LEDs/each optic	1	
Light colour	White	a.
Required compone		
F15848_HEKLA		
_		
		24
รлмรเ	ING	127) V. 127 99*
	1 00100 02	
LED	LC010C G2	27
LED FWHM / FWTM	19.0° / 38.0°	27
LED FWHM / FWTM Efficiency	19.0° / 38.0° 87 %	27
LED FWHM / FWTM Efficiency Peak intensity	19.0° / 38.0° 87 % 4.3 cd/lm	95 JUD
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	19.0° / 38.0° 87 % 4.3 cd/lm 1	a. 84 - 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	19.0° / 38.0° 87 % 4.3 cd/lm 1 White	5. 2. 2.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts:	27 54 57 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts:	27 57 67 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts:	34 27 27 28 28
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts: -SOCKET-C	34 39 19 19
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts: -SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts: -SOCKET-C	34 39 19 19
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSU LED FWHM / FWTM	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts: -SOCKET-C JNG LC010T (Tunable White) 26.0° / 56.0°	34 39 19 19
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSU LED FWHM / FWTM Efficiency	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts: -SOCKET-C JNG LC010T (Tunable White) 26.0° / 56.0° 82 %	34 39 19 19
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSU LED FWHM / FWTM Efficiency Peak intensity	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts: -SOCKET-C JNG LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm	24 29 29 29 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts: -SOCKET-C JNG LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1	24 29 29 29 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts: -SOCKET-C LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White	24 29 29 29 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts: -SOCKET-C	24 29 29 29 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts: -SOCKET-C	24 29 29 29 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	19.0° / 38.0° 87 % 4.3 cd/lm 1 White nts: -SOCKET-C	24 29 29 29 29 29 29 29 29 29 29 29 29 29



S ΛΜSI	JNG	50*
LED FWHM / FWTM	LC016D / LC019D / LC026D / LC033D 34.0° / 85.0°	
Efficiency	79 %	6° 40 -
Peak intensity	1.1 cd/lm	
LEDs/each optic	1 White	
Light colour Required compone		
F15859_HEKLA		30 ⁴ 12 ³ / ₀ 12 ⁹
<u> </u>	JNG	50°
LED	LC020C	
FWHM / FWTM	24.0° / 48.0°	
Efficiency	88 %	600
Peak intensity	2.9 cd/lm	
LEDs/each optic	1	
Light colour	White	g.
Required compone		
F15848_HEKLA	-SOCKET-G	34 200
<u> </u> S M S I	JNG	30*
LED	LC020C G2	
FWHM / FWTM	25.0° / 51.0°	
Efficiency	85 %	yy
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	5° - 160 -
Required compone F15859_HEKLA	-SOCKET-I	36° 20° 10°
<u> </u>	JNG	90*
LED	LC020T (Tunable white)	×
FWHM / FWTM	33.0° / 76.0°	
Efficiency	79 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	
Required compone		
C16142_HEKLA Bender Wirth: 50		200



		90* 90*
	MJT COB LES 6	
FWHM / FWTM	19.0° / 39.0°	75 75
Efficiency	85 %	
Peak intensity	4.1 cd/lm	60°
LEDs/each optic	1	
Light colour	White	gr*
Required compone		\times
F15255_HEKLA		3230
		30°
		 10° 0° 10°
SEOUL SEMICONDUCTOR		90° 90°
LED	MJT COB LES 9.8	
FWHM / FWTM	27.0° / 56.0°	
Efficiency	83 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	5° (5°
Required compone	nts:	
F15255_HEKLA	-SOCKET-C	
		30°
		15% 0% 15%
TRIDO		90° 90°
LED	SLE G7 LES09	75*
FWHM / FWTM	26.0° / 52.0°	
Efficiency	86 %	60° 60°
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	67° 65°
Required compone		
F15255_HEKLA	-SOCKET-C	
		0,000
		30° 15° 0° 15° 30°
TRIDO		90°
LED	SLE G7 LES13	
FWHM / FWTM	33.0° / 75.0°	
Efficiency		
	81 %	60° 60°
Peak intensity	1.3 cd/lm	60°
LEDs/each optic	1.3 cd/lm 1	60 ⁴ 60 ⁴
LEDs/each optic Light colour	1.3 cd/lm 1 White	6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹
LEDs/each optic Light colour Required compone	1.3 cd/lm 1 White nts:	gr 000 Gr
LEDs/each optic Light colour	1.3 cd/lm 1 White nts:	95. 960 92.
LEDs/each optic Light colour Required compone	1.3 cd/lm 1 White nts:	gy - 60 - 67 gy - 120
LEDs/each optic Light colour Required compone	1.3 cd/lm 1 White nts:	95. 960 92.



TRIDON					T
TRIDON				90*	90*
LED	SLE G7 LES15			75*	78*
FWHM / FWTM	34.0° / 84.0°				
Efficiency	80 %			602 400	60*
Peak intensity	1.2 cd/lm				
LEDs/each optic	1				45*
Light colour	White				45.
Required compone					
F15859_HEKLA	-SOCKET-I				
				30° 1220 15° 0°	30°
XICATO				90*	90*
LED	XOB 14.5 mm				
FWHM / FWTM	34.0° / 80.0°			73*	8
Efficiency	80 %				\land
Peak intensity	1.2 cd/lm			60*	60*
LEDs/each optic	1			\times /	X
Light colour	White			a.	65*
Required compone				800	$ \top $
F15859_HEKLA				$K / \Lambda $	
					X
				1200	-
				153 00	12.0
XICATO		1 m		90*	90*
LED	XOB 9.8 mm			X*	26*
				75	
LED	XOB 9.8 mm			64 800	
LED FWHM / FWTM	XOB 9.8 mm 25.0° / 53.0°			64 00	
LED FWHM / FWTM Efficiency	XOB 9.8 mm 25.0° / 53.0° 87 %		1	gr 00.	
LED FWHM / FWTM Efficiency Peak intensity	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm			27 94 00 150	6,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White ints:		1	97 - 200 97 - 250	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White ints:		1	95 60 67 1627	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White ints:			g. 109	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White ints:			27 20 20 20 20 20 20 20 20 20 20	5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White Ints: -SOCKET-C			27 29 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White Ints: -SOCKET-C			30 12 0	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White Ints: -SOCKET-C			30 12 0	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White I SOCKET-C XTM - 19mm LES 36.0° / 108.0°			30 12 0	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA XICATC LED FWHM / FWTM Efficiency	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White mts: -SOCKET-C XTM - 19mm LES 36.0° / 108.0° 80 %			30 12 0	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White ints: -SOCKET-C XTM - 19mm LES 36.0° / 108.0° 80 % 0.9 cd/lm			30 12 0	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White ints: -SOCKET-C XTM - 19mm LES 36.0° / 108.0° 80 % 0.9 cd/lm 1			30 12 0	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White ints: -SOCKET-C XTM - 19mm LES 36.0° / 108.0° 80 % 0.9 cd/lm 1 White			30 12 0	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 compone F15255_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White ints: -SOCKET-C XTM - 19mm LES 36.0° / 108.0° 80 % 0.9 cd/lm 1 White ints:			30 12 0	60 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White ints: -SOCKET-C XTM - 19mm LES 36.0° / 108.0° 80 % 0.9 cd/lm 1 White ints:			30 12 0	10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White ints: -SOCKET-C XTM - 19mm LES 36.0° / 108.0° 80 % 0.9 cd/lm 1 White ints:			30 12 0	



OPTICAL RESULTS (SIMULATED):

bridgelux.		90°
LED	Vero SE 13	
FWHM / FWTM	24.0° / 67.0°	75*
Efficiency	69 %	
Peak intensity	1.7 cd/lm	60°
	1	
LEDs/each optic	White	45°
Light colour	White	
Required components:		
C16142_HEKLA-SO		
		30° 30° 30°
CITIZEN		90* 90*
LED	CLL03x/CLU03x	
FWHM / FWTM	28.0° / 68.0°	75'
Efficiency	82 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	gr
Required components:	Wine	1220
F15859_HEKLA-SOC	KET-I	
		1630
		\times / \bigvee / λ
		36° 36° 36° 36°
		90° 90°
LED	CMA1840	
FWHM / FWTM	30.0° / 68.0°	75
Efficiency	80 %	
Peak intensity	1.7 cd/lm	60 ¹
LEDs/each optic	1	
Light colour		
	White	5° (
Required components:	White	G*G*
Required components: Bender Wirth: 637a F		
Required components: Bender Wirth: 637a H		
Bender Wirth: 637a H		
Bender Wirth: 637a H	ekla	
Bender Wirth: 637a H	ekla CMU15xx	
Bender Wirth: 637a H	ekla CMU15xx 29.0° / 69.0°	2120 - 120 -
Bender Wirth: 637a H	ekla CMU15xx 29.0° / 69.0° 79 %	2120 - 120 -
Bender Wirth: 637a H	ekla CMU15xx 29.0° / 69.0° 79 % 1.7 cd/lm	2120 - 120 -
Bender Wirth: 637a H	ekla CMU15xx 29.0° / 69.0° 79 % 1.7 cd/lm 1	2120 - 120 -
Bender Wirth: 637a H	ekla CMU15xx 29.0° / 69.0° 79 % 1.7 cd/lm	200 200 200 200 200 200 200 200
Bender Wirth: 637a H	ekla CMU15xx 29.0° / 69.0° 79 % 1.7 cd/lm 1 White	
Bender Wirth: 637a H	ekla CMU15xx 29.0° / 69.0° 79 % 1.7 cd/lm 1 White	
Bender Wirth: 637a H	ekla CMU15xx 29.0° / 69.0° 79 % 1.7 cd/lm 1 White	
Bender Wirth: 637a H	ekla CMU15xx 29.0° / 69.0° 79 % 1.7 cd/lm 1 White	



OPTICAL RESULTS (SIMULATED):

COMILE	DS	50° 50°
LED	LUXEON CoB 1202/1203	
FWHM / FWTM	26.0° / 58.0°	23.
Efficiency	70 %	60 ⁴
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	a. a.
Required component	S:	
F17437_HEKLA-G2-H		4600
		2017 - 101 -
Μ ΝΙCΗΙΛ		90°
LED	COB T-Type	77
FWHM / FWTM	19.0° / 38.0°	
Efficiency	85 %	60 ⁴ 60 ⁴
Peak intensity	5.7 cd/lm	$(\times / /) \times ($
LEDs/each optic	1	200
Light colour	White	er er
Required component	S:	
F15848_HEKLA-S	OCKET-G	400
		344 34.



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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