

BARBARA-G2-M

~25° wide beam compatible with LEDiL HEKLA

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 70.0 mm
Height	41.9 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component BARBARA-G2-M

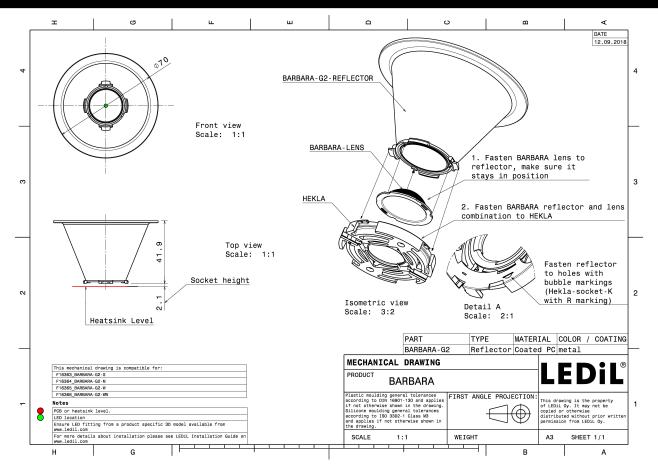
Type Reflector **Material** PC

Colour	Finish	Coating
metal		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F16364_BARBARA-G2-M	252	90	18	4.5
» Box size: 480 x 280 x 300 mm				

PRODUCT DATASHEET F16364_BARBARA-G2-M



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



bridgelux.			90 ⁴
LED	V4 HD		
FWHM / FWTM	21.0° / 47.0°		
Efficiency	87 %		
Peak intensity	4 cd/lm		- 1600 X
LEDs/each optic	1		
Light colour	White		g7 65'
Required compone	ents:		
F15253_HEKLA			3200
C14658_BARBA			
			36° 133 0 [†] 133 365
bridgelux.			30° A 30'
LED	V4 HD		
FWHM / FWTM	16.0° / 36.0°		75
Efficiency	92 %		
Peak intensity	6.5 cd/lm		
LEDs/each optic	1		
Light colour	White		gre 65%
Required compone			
F15253_HEKLA			
			X / X
			30* 34
			(15 ³) 0 ⁵ 15 ⁵
bridgelux.			90 ⁴ 90 ⁴
LED	V6 HD		39 ⁴ 39 ⁴
LED FWHM / FWTM	24.0° / 56.0°		73 75 75 75 75 75 75
LED FWHM / FWTM Efficiency	24.0° / 56.0° 87 %		50 ⁴ 50 ⁴
LED FWHM / FWTM Efficiency Peak intensity	24.0° / 56.0° 87 % 3.5 cd/lm		50 ⁴ 50 ⁴ 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 56.0° 87 % 3.5 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 56.0° 87 % 3.5 cd/lm 1 White		g.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C		g.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C		g.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C		g.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARBA	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS		g.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARBA	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARBA bridgeLUX LED FWHM / FWTM	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS V6 HD 20.0° / 41.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARBA bridgeLux. LED FWHM / FWTM Efficiency	24.0° / 56.0° 87 % 3.5 cd/lm 1 White onts: ASOCKET-C ARA-RZ-LENS V6 HD 20.0° / 41.0° 92 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARBA C14658_BARBA bridgeLux LED FWHM / FWTM Efficiency Peak intensity	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS V6 HD 20.0° / 41.0° 92 % 4.8 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARBA C14658_BARBA bridgeLUX LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS V6 HD 20.0° / 41.0° 92 % 4.8 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARBA C14658_BARBA bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS V6 HD 20.0° / 41.0° 92 % 4.8 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARBA bridgeLX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS V6 HD 20.0° / 41.0° 92 % 4.8 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARBA C14658_BARBA bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS V6 HD 20.0° / 41.0° 92 % 4.8 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARBA bridgeLX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS V6 HD 20.0° / 41.0° 92 % 4.8 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARBA bridgeLux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	24.0° / 56.0° 87 % 3.5 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS V6 HD 20.0° / 41.0° 92 % 4.8 cd/lm 1 White ents:		



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 F15859_HEKLA C14658_BARBA	-SOCKET-I	
bridgetux 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 C16142_HEKLA C14658_BARBA Bender Wirth: 45	-SOCKET-K NRA-RZ-LENS	



bridgelux.		50° 50°
LED	Vesta DTW 13mm (21W)	
FWHM / FWTM	32.0° / 65.0°	
Efficiency	88 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	g- at
Required compone	nts:	
C16142_HEKLA		
Bender Wirth: 49	91 Typ L8	
		20 ¹ 20 ⁴ 20 ⁴ 20 ⁴
bridgelux.		
LED	Vesta TW 6mm DP	
FWHM / FWTM	24.0° / 57.0°	
Efficiency	82 %	
Peak intensity	3.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA		
C14658_BARBA		
Bender Wirth: 50		
bridgelux.		
LED	Vesta TW 6mm DP	
FWHM / FWTM	21.0° / 41.0°	
Efficiency	88 %	
Peak intensity	4.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
C16142_HEKLA	-SOCKET-K	
Bender Wirth: 50	04 Typ L8	
bridgelux.		99 · · · · · · · · · · · · · · · · · ·
LED	Vesta TW 9mm (12W) CSP	
FWHM / FWTM	29.0° / 64.0°	$\square \land \land$
Efficiency	83 %	60°
Peak intensity	2.6 cd/lm	
LEDs/each optic	1	
Light colour	White	e ^r - <u>100</u> er
Required compone		
C16142_HEKLA	-SOCKET-K	
C14658_BARBA	RA-RZ-LENS	200
		200 V
		155 [°] 0 ⁸ 15 [°]



CITIZE	Ν	99° 99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLC030 Series (Dim-To-Warm) 33.0° / 66.0° 87 % 2.3 cd/lm 1 White	
C16142_HEKLA Bender Wirth: 43	-SOCKET-K	30 ⁴ 2009 20 137 0 ⁴ 12 ⁵
CITIZE	N	90 ⁴ 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C14658_BARBA Bender Wirth: 43	CLC030 Series (Dim-To-Warm) 34.0° / 68.0° 80 % 1.9 cd/lm 1 White Ints: IN-SOCKET-K ARA-RZ-LENS	
	N	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLL02x/CLU02x (LES10) 24.0° / 49.0° 92 % 3.8 cd/lm 1 White Ints: -SOCKET-C	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CLL03x/CLU03x 31.0° / 65.0° 91 % 2.6 cd/lm 1 White ints:	



CITIZE	N	90 ¹⁴ 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU700/701/702 19.0° / 39.0° 92 % 5.2 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB/ Bender Wirth: 4	LCN-C02B (Tunable White) 33.0° / 67.0° 82 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS	
CREE C LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CMT14xx 26.0° / 57.0° 92 % 3.4 cd/lm 1 White ents:	
CREE C LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	CMT19xx 32.0° / 66.0° 92 % 2.5 cd/lm 1 White ents:	



CREE \$		50 ⁴
LED	CXA/B 13xx	
FWHM / FWTM	18.0° / 37.0°	
Efficiency	92 %	
Peak intensity	5.5 cd/lm	
LEDs/each optic	1	
Light colour	White	er. 200
Required componer		
F15956_HEKLA-		
		12 ⁵ 0 ⁴ 12 ⁵
CREE \$	The second se	50*
LED	CXA/B 15xx	
FWHM / FWTM	23.0° / 49.0°	
Efficiency	92 %	
Peak intensity	3.9 cd/lm	
LEDs/each optic	1	
Light colour	White	ar <u>200</u>
Required componer	nts:	
F15256_HEKLA-	SOCKET-D	322
		30°
	×	
UKEE 7		301 30
		99°
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	901 901 90
LED FWHM / FWTM		55 ¹ 75 00
LED FWHM / FWTM Efficiency	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0°	50 ⁴ 72 72 72 72 72 72
LED FWHM / FWTM Efficiency Peak intensity	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 %	60 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm	994 994 994 995 996 996 996 996 996 996 996 996 996
LED FWHM / FWTM Efficiency Peak intensity	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White nts:	g
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White nts:	g. 100 g.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15254_HEKLA-	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White hts: SOCKET-B	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15254_HEKLA-	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White hts: SOCKET-B	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15254_HEKLA-	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White hts: SOCKET-B	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15254_HEKLA-	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White hts: SOCKET-B EDS LUXEON CX Plus CoB L08 (Gen2) 33.0° / 66.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15254_HEKLA-	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White hts: SOCKET-B EDS LUXEON CX Plus CoB L08 (Gen2) 33.0° / 66.0° 90 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15254_HEKLA-	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White hts: SOCKET-B EDS LUXEON CX Plus CoB L08 (Gen2) 33.0° / 66.0° 90 % 2.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15254_HEKLA-	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White hts: SOCKET-B EDS LUXEON CX Plus CoB L08 (Gen2) 33.0° / 66.0° 90 % 2.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15254_HEKLA-	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White hts: SOCKET-B EDS LUXEON CX Plus CoB L08 (Gen2) 33.0° / 66.0° 90 % 2.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15254_HEKLA-	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White hts: SOCKET-B EDS LUXEON CX Plus CoB L08 (Gen2) 33.0° / 66.0° 90 % 2.4 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15254_HEKLA-	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White hts: SOCKET-B EDS LUXEON CX Plus CoB L08 (Gen2) 33.0° / 66.0° 90 % 2.4 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F15254_HEKLA-	CXA/B 1816 & CXA/B 1820 & CXA 1850 29.0° / 63.0° 91 % 2.9 cd/lm 1 White hts: SOCKET-B EDS LUXEON CX Plus CoB L08 (Gen2) 33.0° / 66.0° 90 % 2.4 cd/lm 1 White hts:	



🥙 LUMIL	EDS	594
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6	ARA-RZ-LENS	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,
	EDS	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	LUXEON CoB 1202HD 20.0° / 42.0° 91 % 4.7 cd/lm 1 White ents:	97
	EDS	89 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1204HD 25.0° / 53.0° 92 % 3.6 cd/lm 1 White ents:	
UMIL	.EDS	55 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA		97 97 97 160 97



LUMIL	EDS	50° 50°
LED	LUXEON CoB 1208	
FWHM / FWTM	33.0° / 66.0°	75. 75.
Efficiency	90 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	9°
Required componer		1600
Bender Wirth: 63		
		200 200
		15° 0° 15°
UMIL	EDS	90* 90*
LED	LUXEON CX Plus CoB - HD S01H4	
FWHM / FWTM	20.0° / 39.0°	
Efficiency	91 %	60° 1600 60°
Peak intensity	5 cd/lm	
LEDs/each optic	1	
Light colour	White	gr 3200
Required componer	nts:	
Bender Wirth: 63	4c Hekla	
		30° 30°
<i>(</i>)		
	EDS	90* 90*
		90°
LED	LUXEON CX Plus CoB - HD S01H4	25. 26. 26.
LED FWHM / FWTM	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0°	25* 25* 25*
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 %	64 65 7 22 7 26 7 26 7 26 7 26 7 26 7 26 7 26
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0°	99* 90* 99* 90* 99* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm	gy
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White	61. 62. 63. 64. 10.9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White	5° 5° 5° 50 50 5° 5° 5° 5° 5° 5° 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White nts: RA-RZ-LENS	57 57 59 59 59 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 componer C14658_BARBA	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White nts: RA-RZ-LENS	30. 203 60. 60. 503 900 503 90. 50. 50. 50. 50. 50. 50. 50. 50. 50. 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White nts: RA-RZ-LENS 4c Hekla	30° - 200 - 20° - 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White nts: RA-RZ-LENS 4c Hekla	209 509 509 509 509 509 509 509 509 509 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White nts: RA-RZ-LENS 4c Hekla	309 309 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 componer C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White hts: RA-RZ-LENS 4c Hekla EDS LUXEON CX Plus CoB - HD S01H6 / HD S02H6 25.0° / 60.0°	25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White hts: RA-RZ-LENS 4c Hekla EDS LUXEON CX Plus CoB - HD S01H6 / HD S02H6 25.0° / 60.0° 84 %	25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White hts: RA-RZ-LENS 4c Hekla EDS LUXEON CX Plus CoB - HD S01H6 / HD S02H6 25.0° / 60.0° 84 % 3.2 cd/lm	64 65 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 componer C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White hts: RA-RZ-LENS 4c Hekla EDS LUXEON CX Plus CoB - HD S01H6 / HD S02H6 25.0° / 60.0° 84 % 3.2 cd/lm 1	25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White hts: RA-RZ-LENS 4c Hekla EDS LUXEON CX Plus CoB - HD S01H6 / HD S02H6 25.0° / 60.0° 84 % 3.2 cd/lm 1 White	64 65 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 componen C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White hts: RA-RZ-LENS 4c Hekla EDS LUXEON CX Plus CoB - HD S01H6 / HD S02H6 25.0° / 60.0° 84 % 3.2 cd/lm 1 White hts:	64 65 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 componer C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White hts: RA-RZ-LENS 4c Hekla EDS LUXEON CX Plus CoB - HD S01H6 / HD S02H6 25.0° / 60.0° 84 % 3.2 cd/lm 1 White hts: RA-RZ-LENS	dr. 1000 302 300 300 302 300 300 302 300 300 302 300 300 302 300 300 302 300 300 302 300 300 302 300 300 302
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C14658_BARBA Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 24.0° / 57.0° 84 % 3.3 cd/lm 1 White hts: RA-RZ-LENS 4c Hekla EDS LUXEON CX Plus CoB - HD S01H6 / HD S02H6 25.0° / 60.0° 84 % 3.2 cd/lm 1 White hts: RA-RZ-LENS	dr. 1000 302 300 300 302 300 300 302 300 300 302 300 300 302 300 300 302 300 300 302 300 300 302 300 300 302



UMIL	EDS	90° 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6		375 JUD 100 100 100 100 100 100 100 100 100 10
	EDS	90° 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6	LUXEON CX Plus CoB - HD S04H9 28.0° / 64.0° 85 % 2.6 cd/lm 1 White ents: ARA-RZ-LENS	
	EDS	90* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB - HD S04H9 26.0° / 58.0° 91 % 3.4 cd/lm 1 White ents:	35 64 550 550 550 550 550 550 550 55
	.EDS	90° 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARB/ Bender Wirth: 6	LUXEON CX Plus CoB L04 / L05 (Gen2) 32.0° / 66.0° 83 % 2.2 cd/lm 1 White ents: ARA-RZ-LENS	73 ⁻ 64 ⁻ 550 500



MUMIL 🍼	EDS	50*
LED	LUXEON CX Plus CoB L04 / L05 (Gen2)	
FWHM / FWTM	29.0° / 63.0°	
Efficiency	90 %	80 ⁴
Peak intensity	2.9 cd/lm	
LEDs/each optic	1	
Light colour	White	97 - 1 500 - 4
Required compone	nts:	
Bender Wirth: 63	37a Hekla	2000
		34
	EDS	201 V V V V V V V V V V V V V V V V V V V
LED	LUXEON CX Plus CoB M02 / M03 (Gen2)	
FWHM / FWTM	24.0° / 51.0°	72
Efficiency	91 %	
Peak intensity	3.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		349
Bender Wirth: 64		\times
		300
		30'
		10" 40% 10"
	EDS	
		99* · · · · · · · · · · · · · · · · · ·
LED	LUXEON CX Plus CoB M02 / M03 (Gen2)	20
LED FWHM / FWTM	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0°	20 ²
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 %	51 51 51 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White	94 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White ints:	94 ¹ 72 61 72 72 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White white ARA-RZ-LENS	94 ⁵ 77 64 67 160 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White white ARA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 64	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White Ints: IRA-RZ-LENS 41a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 64	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White Ints: ARA-RZ-LENS 41a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 64	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White Ints: ARA-RZ-LENS 41a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 64	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White Ints: ARA-RZ-LENS 41a Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 24.0° / 58.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 64	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White I White MRA-RZ-LENS 41a Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 24.0° / 58.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 64 WIME LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White mts: ARA-RZ-LENS 41a Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 24.0° / 58.0° 84 % 3.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 64 WIM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White mts: ARA-RZ-LENS 41a Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 24.0° / 58.0° 84 % 3.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 64 WIM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White mts: ARA-RZ-LENS 41a Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 24.0° / 58.0° 84 % 3.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 64 C14658_BARBA Bender Wirth: 64 C14658_BARBA C14658_BARBA Bender Wirth: 64 C14658_BARBA C14658_B	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White white MRA-RZ-LENS 41a Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 24.0° / 58.0° 84 % 3.3 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 64 WIM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White I White White EDS LUXEON CX Plus CoB S01 (Gen2) 24.0° / 58.0° 84 % 3.3 cd/lm 1 White I Standard Standard Standa	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA Bender Wirth: 64 CI4658_BARBA Efficiency Peak intensity LEDs/each optic Light colour Required compone C14658_BARBA	LUXEON CX Plus CoB M02 / M03 (Gen2) 27.0° / 64.0° 84 % 2.7 cd/lm 1 White I White White EDS LUXEON CX Plus CoB S01 (Gen2) 24.0° / 58.0° 84 % 3.3 cd/lm 1 White I Standard Standard Standa	



	EDS	30°
LED	LUXEON CX Plus CoB S01 (Gen2)	
FWHM / FWTM	20.0° / 39.0°	
Efficiency	91 %	00° 1000
Peak intensity	5.1 cd/lm	
LEDs/each optic	1	
Light colour	White	97
Required compone	nts:	
Bender Wirth: 63	34c Hekla	
		exp
		294 22 49 237 3
	EDS	20
LED	LUXEON Fusion 21-up (20x24)	
FWHM / FWTM	27.0° / 63.0°	79
Efficiency	84 %	60× 100
Peak intensity	2.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
C16142_HEKLA	-SOCKET-K	2000
C14658_BARBA	ARA-RZ-LENS	
Bender Wirth: 44	42 Typ L8	34
PHILIF)C	
LED		
FWHM / FWTM	Fortimo SLM L09 CoB 27.0° / 64.0°	
Efficiency	88 %	
Peak intensity	2.9 cd/lm	
LEDs/each optic	1	
	White	g. 200
LIVERT COROLLE		
Light colour Required compone		
Required compone	nts:	
Required compone F15858_HEKLA	nts: -SOCKET-H	
Required compone	nts: -SOCKET-H	300
Required compone F15858_HEKLA C14658_BARBA	nts: -SOCKET-H JRA-RZ-LENS	
Required compone F15858_HEKLA C14658_BARBA	nts: -SOCKET-H NRA-RZ-LENS	2 ¹ 335 0 ¹ 337
Required compone F15858_HEKLA C14658_BARBA	nts: -SOCKET-H JRA-RZ-LENS S Fortimo SLM L09 CoB	
Required compone F15858_HEKLA C14658_BARBA PHILLE LED FWHM / FWTM	nts: -SOCKET-H JRA-RZ-LENS S Fortimo SLM L09 CoB 25.0° / 53.0°	
Required compone F15858_HEKLA C14658_BARBA PHILLIC LED FWHM / FWTM Efficiency	nts: -SOCKET-H RA-RZ-LENS S Fortimo SLM L09 CoB 25.0° / 53.0° 92 %	2 ¹ 335 0 ¹ 337
Required compone F15858_HEKLA C14658_BARBA PHILLE LED FWHM / FWTM Efficiency Peak intensity	nts: -SOCKET-H RA-RZ-LENS S Fortimo SLM L09 CoB 25.0° / 53.0° 92 % 3.6 cd/lm	2 ¹ 335 0 ¹ 337
Required compone F15858_HEKLA C14658_BARBA PHILLE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	nts: -SOCKET-H RA-RZ-LENS Fortimo SLM L09 CoB 25.0° / 53.0° 92 % 3.6 cd/Im 1	
Required compone F15858_HEKLA C14658_BARBA PHILLE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: -SOCKET-H RA-RZ-LENS Fortimo SLM L09 CoB 25.0° / 53.0° 92 % 3.6 cd/lm 1 White	
Required compone F15858_HEKLA C14658_BARBA PHILLE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	nts: -SOCKET-H RA-RZ-LENS Fortimo SLM L09 CoB 25.0° / 53.0° 92 % 3.6 cd/lm 1 White nts:	
Required compone F15858_HEKLA C14658_BARBA PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: -SOCKET-H RA-RZ-LENS Fortimo SLM L09 CoB 25.0° / 53.0° 92 % 3.6 cd/lm 1 White nts:	
Required compone F15858_HEKLA C14658_BARBA PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	nts: -SOCKET-H RA-RZ-LENS Fortimo SLM L09 CoB 25.0° / 53.0° 92 % 3.6 cd/lm 1 White nts:	



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PHILIP	S		90* 9
LED	Fortimo SLM L13 CoB		
FWHM / FWTM	34.0° / 67.0°		78
Efficiency	83 %		
Peak intensity	2 cd/lm		60 ²
LEDs/each optic	1		
Light colour	White		957
Required componen			
C16142_HEKLA-			1500
C14658_BARBA			
Bender Wirth: 432	2 Typ L8		30° 35° 0° 15°
PHILIP	S		90*
LED	Fortimo SLM L13 CoB		
FWHM / FWTM	33.0° / 65.0°		
Efficiency	89 %		
Peak intensity	2.3 cd/lm		\wedge / / \wedge \wedge /
LEDs/each optic	1		
Light colour	White		g* d
Required componen	its:		169
C16142_HEKLA-			
Bender Wirth: 432			
			30° 200
l .			
DHIID	S		90.4 (32.4 (32.4 (32.4 (32.4 (32.4 (32.4 (3
PHILIP			200 et 100 -
LED	Fortimo SLM L15 CoB		
LED FWHM / FWTM	Fortimo SLM L15 CoB 35.0° / 67.0°		
LED FWHM / FWTM Efficiency	Fortimo SLM L15 CoB 35.0° / 67.0° 88 %		
LED FWHM / FWTM Efficiency Peak intensity	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm		90° - 00 90° - 00 90 90° - 00 90° - 00 90 90° - 00 90 90 90° - 00 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA-	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts: SOCKET-K		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts: SOCKET-K		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA- Bender Wirth: 433	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White ts: SOCKET-K 2 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA- Bender Wirth: 433	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts: SOCKET-K 2 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA- Bender Wirth: 433	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts: SOCKET-K 2 Typ L8 S Fortimo SLM L15 CoB		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA- Bender Wirth: 433 PHILLP LED FWHM / FWTM	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts: SOCKET-K 2 Typ L8 S Fortimo SLM L15 CoB 36.0° / 69.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA- Bender Wirth: 433	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts: SOCKET-K 2 Typ L8 S Fortimo SLM L15 CoB 36.0° / 69.0° 83 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA- Bender Wirth: 432 PHILIP LED FWHM / FWTM Efficiency Peak intensity	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts: SOCKET-K 2 Typ L8 S Fortimo SLM L15 CoB 36.0° / 69.0° 83 % 1.8 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA- Bender Wirth: 432 PHILIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts: SOCKET-K 2 Typ L8 S Fortimo SLM L15 CoB 36.0° / 69.0° 83 % 1.8 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA- Bender Wirth: 432 PHILLP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts: SOCKET-K 2 Typ L8 S Fortimo SLM L15 CoB 36.0° / 69.0° 83 % 1.8 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA- Bender Wirth: 433 PHILLP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts: SOCKET-K 2 Typ L8 S Fortimo SLM L15 CoB 36.0° / 69.0° 83 % 1.8 cd/lm 1 White tts: SOCKET:		79 60 60 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA- Bender Wirth: 433 PHILLP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA-	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts: SOCKET-K 2 Typ L8 S Fortimo SLM L15 CoB 36.0° / 69.0° 83 % 1.8 cd/lm 1 White tts: SOCKET-K		79 60 60 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA- Bender Wirth: 433 PHILLP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Fortimo SLM L15 CoB 35.0° / 67.0° 88 % 2.1 cd/lm 1 White tts: SOCKET-K 2 Typ L8 S Fortimo SLM L15 CoB 36.0° / 69.0° 83 % 1.8 cd/lm 1 White tts: SOCKET-K RA-RZ-LENS		77 61 61 - 00 - 120 - 120



SAMS	UNG	55*
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	25.0° / 52.0°	7
Efficiency	92 %	
Peak intensity	3.6 cd/lm	
LEDs/each optic	1	
Light colour	White	a.
Required compone	ents:	
F15255_HEKLA	A-SOCKET-C	
		304 157 June 157
SAMS	UNG	»*
LED	LC010C G2	
FWHM / FWTM	18.0° / 38.0°	
Efficiency	92 %	60 ⁴
Peak intensity	5.4 cd/lm	
LEDs/each optic	1	
Light colour	White	at 200
Required compone	ents:	
F15255_HEKLA	A-SOCKET-C	
		400
		30 ⁴ 10 ⁷ 0 ⁴ 10 ⁵
SAMS	UNG	36°
LED		
LED	LC020T (Tunable white) 33.0° / 67.0°	7
LED FWHM / FWTM	LC020T (Tunable white)	
	LC020T (Tunable white) 33.0° / 67.0°	75
LED FWHM / FWTM Efficiency Peak intensity	LC020T (Tunable white) 33.0° / 67.0° 83 %	25- 05 ⁻ - 00 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm	25- 95- 00- 57-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White	55 61 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB/ Bender Wirth: 5	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS 01 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB/ Bender Wirth: 5	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS 01 Typ L8 UNG	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS 01 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB/ Bender Wirth: 5	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS 01 Typ L8 UNG LC020T (Tunable white)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB/ Bender Wirth: 5	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS 01 Typ L8 UNG LC020T (Tunable white) 31.0° / 64.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB, Bender Wirth: 5 SAMSS LED FWHM / FWTM Efficiency Peak intensity	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS 01 Typ L8 UNG LC020T (Tunable white) 31.0° / 64.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB/ Bender Wirth: 5 SAMSI LED FWHM / FWTM Efficiency	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS 01 Typ L8 UNC LC020T (Tunable white) 31.0° / 64.0° 88 % 2.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB/ Bender Wirth: 5 SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS 01 Typ L8 UNC LC020T (Tunable white) 31.0° / 64.0° 88 % 2.5 cd/lm 1 Tunable White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB, Bender Wirth: 5 SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS 01 Typ L8 UNC LC020T (Tunable white) 31.0° / 64.0° 88 % 2.5 cd/lm 1 Tunable White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB, Bender Wirth: 5 SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS 01 Typ L8 UNC LC020T (Tunable white) 31.0° / 64.0° 88 % 2.5 cd/lm 1 Tunable White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C14658_BARB, Bender Wirth: 5 SAMS ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/	LC020T (Tunable white) 33.0° / 67.0° 83 % 2.1 cd/lm 1 Tunable White ents: A-SOCKET-K ARA-RZ-LENS 01 Typ L8 UNC LC020T (Tunable white) 31.0° / 64.0° 88 % 2.5 cd/lm 1 Tunable White ents: A-SOCKET-K	



TRIDON		
TRIDON		<u>90*</u>
LED	SLE G7 LES09	75
FWHM / FWTM	26.0° / 63.0°	
Efficiency	90 %	61 ⁴
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	
Light colour	White	gi de la companya de
Required compone		200
F15255_HEKLA		
C14658_BARBA	ARA-RZ-LENS	xi ⁴ xi ₂
TRIDON		10 ⁴ 0 ⁴ 12 ⁴
LED		
LED FWHM / FWTM	SLE G7 LES09	
Efficiency	24.0° / 50.0° 94 %	
Peak intensity	94 % 3.9 cd/lm	60°
LEDs/each optic	1	
Light colour	White	br br
Required compone		
F15255_HEKLA		
T TOZOS_TIEREA	-SOCKET-C	
		30 ¹⁰ 4000 30 ¹⁰ 15 ¹⁰ 0 ¹⁰ 15 ¹⁰
TRIDOM		90*
TRIDON		20*
LED	SLE G7 LES13	99* P*
LED FWHM / FWTM	SLE G7 LES13 30.0° / 64.0°	20× 30
LED FWHM / FWTM Efficiency	SLE G7 LES13 30.0° / 64.0° 91 %	
LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White	994 99 72 604 000 00 900 00000000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White ents:	94 97 97 97 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White ents: -SOCKET-I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White ents: -SOCKET-I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White ents: -SOCKET-I	300 300 300 300 300 300 300 300 300 300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White white SOCKET-I	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White ents: -SOCKET-I SIEC SLE G7 LES13	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White ents: -SOCKET-I SLE G7 LES13 32.0° / 67.0°	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White ents: -SOCKET-I SLE G7 LES13 32.0° / 67.0° 84 %	300 300 300 300 300 300 300 300 300 300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White onts: -SOCKET-I SLE G7 LES13 32.0° / 67.0° 84 % 2.2 cd/lm	300 300 300 300 300 300 300 300 300 300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White onts: -SOCKET-I SLE G7 LES13 32.0° / 67.0° 84 % 2.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White white SOCKET-I SOCKET-I SLE G7 LES13 32.0° / 67.0° 84 % 2.2 cd/lm 1 White white stresses SLE G7 LES13	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White white SOCKET-I SLE G7 LES13 32.0° / 67.0° 84 % 2.2 cd/lm 1 White ents: -SOCKET-I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES13 30.0° / 64.0° 91 % 2.7 cd/lm 1 White white SOCKET-I SLE G7 LES13 32.0° / 67.0° 84 % 2.2 cd/lm 1 White ents: -SOCKET-I	



TRIDOM	AIC	35* 39"
LED	SLE G7 LES15	
FWHM / FWTM	32.0° / 66.0°	
Efficiency	91 %	
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	g, .
Required compone		
F15859_HEKLA		
_		
		200 × 200
XICATO)	25° 0° 25° 90° 0
LED	XOB 14.5 mm	
EED FWHM / FWTM	30.0° / 65.0°	
Efficiency	92 %	
Peak intensity	92 % 2.6 cd/lm	eger la
LEDs/each optic	1	
Light colour	White	g- 100 - 5
Required compone		
F15859_HEKLA		
T 13033_HEREA		
		30° 0° 35' 0° 15°
XICATO)	50 ³
LED	XOB 6 mm	
	23.0° / 55.0°	
FWHM / FWTM Efficiency	86 %	
Efficiency		
Efficiency Peak intensity LEDs/each optic	86 %	60- 300
Efficiency Peak intensity LEDs/each optic	86 % 3.6 cd/lm	c.
Efficiency Peak intensity LEDs/each optic Light colour Required compone	86 % 3.6 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	86 % 3.6 cd/lm 1 White ents: N-SOCKET-C	5 ⁵ 259
Efficiency Peak intensity LEDs/each optic Light colour Required compone	86 % 3.6 cd/lm 1 White ents: N-SOCKET-C	<i>v</i> . <i>v</i> .
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	86 % 3.6 cd/lm 1 White ents: N-SOCKET-C	e ⁻ 209
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARB/	86 % 3.6 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS	e
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARB/	86 % 3.6 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARB/	86 % 3.6 cd/lm 1 White ents: SOCKET-C ARA-RZ-LENS	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARB/	86 % 3.6 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	86 % 3.6 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS XOB 6 mm 18.0° / 39.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARB/ Efficiency Peak intensity	86 % 3.6 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS XOB 6 mm 18.0° / 39.0° 90 %	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARB/ ENCATCC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	86 % 3.6 cd/lm 1 White ents: A-SOCKET-C ARA-RZ-LENS XOB 6 mm 18.0° / 39.0° 90 % 5.1 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARB/ Efficiency	86 % 3.6 cd/lm 1 White ents: A-SOCKET-C ARA-RZ-LENS XOB 6 mm 18.0° / 39.0° 90 % 5.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARB/ XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86 % 3.6 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS XOB 6 mm 18.0° / 39.0° 90 % 5.1 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARB/ XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	86 % 3.6 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS XOB 6 mm 18.0° / 39.0° 90 % 5.1 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C14658_BARB/ XICATC ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	86 % 3.6 cd/lm 1 White ents: -SOCKET-C ARA-RZ-LENS XOB 6 mm 18.0° / 39.0° 90 % 5.1 cd/lm 1 White ents:	



XICATO)	90 ⁴ 97
LED	XOB 9.8 mm	
FWHM / FWTM	24.0° / 50.5 + 51.0°	
Efficiency	92 %	
Peak intensity	3.8 cd/lm	
LEDs/each optic	1	
Light colour	White	gr 300 6r
Required compone	ents:	
F15255_HEKLA	A-SOCKET-C	200
		30 31
		15" 0" 15"



PHOTOMETRIC DATA (SIMULATED):

bridgelux.		50*	30*
LED	VERO10	75	$2 \wedge + *$
FWHM / FWTM	24.0° / 53.0°		
Efficiency	89 %	691	
Peak intensity	3.6 cd/lm		1630
LEDs/each optic	1		
Light colour	White	ar -	45*
Required components:			
F15616_HEKLA-SC	OCKET-F		
		30' 123	0° 3°
bridgelux.		55*	90*
LED	VERO13	147	$\lambda \land \land \land \land$
FWHM / FWTM	31.0° / 63.0°	72	
Efficiency	83 %		
Peak intensity	2.4 cd/lm		1600
LEDs/each optic	1		
Light colour	White		43.
Required components:			
C16142_HEKLA-SC	OCKET-K		
		30 ⁴ 427	0° 35° 30°
bridgelux.		90 ⁴	90*
LED	Vesta DTW 15mm (33W)		
FWHM / FWTM	30.0° / 64.0°	3	$\lambda / \wedge 7$
Efficiency	87 %	607	B00 60"
Peak intensity	2.7 cd/lm		
LEDs/each optic	1		
Light colour	White	97-	454
Required components:			
C16142_HEKLA-SC			
Bender Wirth: 491 T	yp L8		2430
		30°	, 0° 72° 3°.
Μ ΝΙCΗΙΛ			
LED	COB L-Type (LES 11)		
FWHM / FWTM	26.0° / 61.0°		
Efficiency	90 %		
Peak intensity	3.2 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
F15858_HEKLA-SC	OCKET-H		



PHOTOMETRIC DATA (SIMULATED):

ΜΝΙCΗΙΛ

 LED
 COB L-Type (LES 9)

 FWHM / FWTM
 22.0° / 51.0°

 Efficiency
 90 %

 Peak intensity
 4 cd/Image

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 F15858_HEKLA-SOCKET-H



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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