

PRODUCT DATASHEET CN15826_WINNIE-O-C

WINNIE-O-C

~60° + 20° oval beam with holder C compatible with LEDiL HEKLA

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 50.0 mm
Height	19.5 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component	
WINNIE-O	
WINNIE-HLD-C	

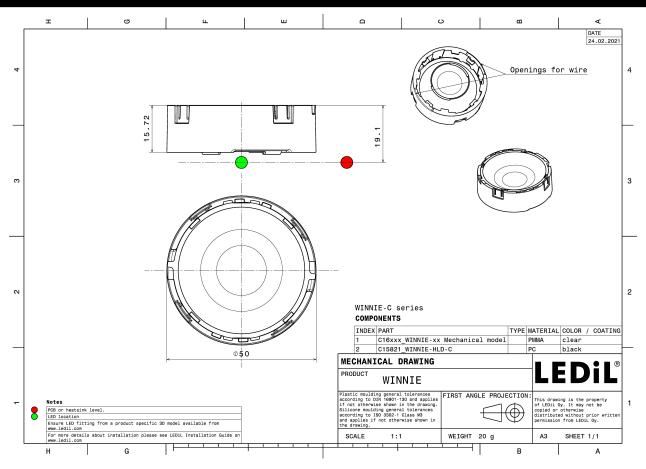
Туре	
Single lens	
Holder	

Material	Colour	Finish
PMMA	clear	
PC	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CN15826_WINNIE-O-C	Single lens	364	84	28	0.0
» Box size:					

PRODUCT DATASHEET CN15826_WINNIE-O-C



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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15253_HEKLA	
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	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	A-SOCKET-K	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	A-SOCKET-K	



LED Vesit TW 6mm DP FVMM /FVTM 50.0 + 6.0* / 77.0 + 4.2.0* Efficiency 80% Required components: C164.4.2.HELA-SOCKET-K LED Vesit TW 8mm (12W) CSP FVMM /FVTM 550 + 20.0* / 78.0 + 49.0* Efficiency 81% Peak Intensity 1.7 cdm LED Vesit TW 8mm (12W) CSP FVMM /FVTM 550 + 20.0* / 78.0 + 49.0* Efficiency 81% Peak Intensity 1.7 cdm LED CLC220 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 49.0* Efficiency 81% Peak Intensity 1.7 cdm LED CLC220 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 49.0* Efficiency 81% Peak Intensity 1.7 cdm LED CLC220 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 49.0* Efficiency 81% Peak Intensity 1.7 cdm LED CLC220 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 49.0* Efficiency 81% Peak Intensity 1.7 cdm LED CLC220 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 49.0* Efficiency 81% Peak Intensity 1.7 cdm LED CLC220 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 49.0* Efficiency 73% Peak Intensity 1.3 cdm LED CLC230 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 61.0* LED CLC230 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 61.0* LED CLC230 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 61.0* LED CLC330 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 61.0* LED CLC330 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 61.0* LED CLC330 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 61.0* LED CLC330 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 61.0* LED CLC330 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* / 78.0 + 61.0* LED CLC330 Series (Dm-To-Warm) FVMM /FVTM 550 + 20.0* FVMM /FVTM			
LED Vesta TW 6mm DP FWHM / FVTM 520 + 16.0" / 77.0 + 42.0" Ellosnoy 90 % Peak intensity 2 ct/lm LED isotach optic 1 Lipht colour White Required components: C16142_HEKLA-SOCKET-K Bindenv Wint: 504 Typ L3 CUTTIZEN LED CCTTIZEN CCTTIZEN LED CCTTIZEN LED CCTTIZEN	bridgelux.		
FWHM / FVTM 59.0 + 16.0° / 77.0 + 42.0° Efficiency 80 % Heak intensity 2 cd/m Regulard components: C16142_HEKLA-SOCKET-K Bender Wint: 50 + 70 + 12 C16142_HEKLA-SOCKET-K ED Vesta TW Brnn (12W) CSP FWHM / FVTM 57.0 + 20.0° / 78.0 + 49.0° Efficancy 81 % Peak intensity 1.7 cd/m LED/weah optic 1 Light cdour White Regulard Components: C16142_HEKLA-SOCKET-K C16142_HEKLA-SOCKET-K C16142_HEKLA-SOCKET-K C16142_HEKLA-SOCKET-K C16142_HEKLA-SOCKET-K C10142_HEKLA-SOCKET-K		Vesta TW 6mm DP	
Peak intensity 1.2 cd/m LEDatabach optic 1 LEDatabach optic 1 LEDatabach optic 2 C16142_HEKLA-SOCKET-K Bender With: 504 Typ L8			
Peak intensity 1.2 cd/m LEDatabach optic 1 LEDatabach optic 1 LEDatabach optic 2 C16142_HEKLA-SOCKET-K Bender With: 504 Typ L8	Efficiency	80 %	
LEDeveach optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender With: 504 Typ L3		2 cd/lm	
Light colour While Required components: CT19142_HEKLA-SOCKET-K Bender Wint: 504 Typ L8	1		
Required components: C18142_HEKLA-SOCKET-K Bender Wirht: 504 Typ L3			
C19142_HEKLA-SOCKET.K Bender Wirth: 504 Typ LB FWHM / FWTM 57.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak Intensity 1.7 cd/m LEDsreach optic 1 Light colour White Reguired components: C19142_HEKLA-SOCKET.K CTITIZEN LED CLC020 Series (Dim-To-Warn) FWHM / FWTM 58.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak Intensity 1.7 cd/m LEDsreach optic 1 Light colour White Reguired components: C19142_HEKLA-SOCKET.K CTITIZEN LED CLC020 Series (Dim-To-Warn) FWHM / FWTM 58.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Reguired components: C19142_HEKLA-SOCKET.K CTITIZEN LED CLC020 Series (Dim-To-Warn) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 78 % Peak intensity 1.3 cd/m LEDsreach optic 1 Light colour White Reguired components: C19142_HEKLA-SOCKET.K			
Ender Wirth: 504 Typ L8 LED Vesta TW 9mm (12W) CSP FWHM / FWT 57.0 + 20.0° / 78.0 + 48.0° Efficiency 81 % Peak intensity 1.7 cd/m LED/seah optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CICITIZEN LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 58.0 + 20.0° / 78.0 + 48.0° Efficiency 81 % Peak intensity 1.7 cd/m LED/seah optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CICITIZEN LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 58.0 + 20.0° / 78.0 + 48.0° Efficiency 81 % Peak intensity 1.7 cd/m LED/seah optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 58.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LED/seah optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K			
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LED Vesta TW 9mm (12W) CSP FWHM / FWTM 57.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak intensity 1.7 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CCITIZEN LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak intensity 1.7 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CCITIZEN LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 20.0° / 78.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LED/ CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LED/ CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K			
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FWHM / FWTM 57.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak Intensity 1.7 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CCITIZEN LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak Intensity 1.7 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CCITIZEN LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak Intensity 1.3 cd/m LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak Intensity 1.3 cd/m LED/ CLC020 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak Intensity 1.3 cd/m LED/ Seach optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K		Vesta TW 9mm (12W) CSP	
Efficiency 81 % Peak intensity 1.7 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K			
Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 58.0 + 20.0" / 78.0 + 49.0" Efficiency 81 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K ED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0" / 78.0 + 49.0" Efficiency 81 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K ED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0" / 83.0 + 61.0" Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0" / 83.0 + 61.0" Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:			
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Required components: C16142_HEKLA-SOCKET-K LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 55.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak intensity 1.7 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CCITIZEEN LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 55.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K			ar ar
C16142_HEKLA-SOCKET-K	°		
CITIZEN LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 58.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak intensity 1.7 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LEDs/seach optic 1 Light colour White Required components: Required components:			
LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 58.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CCTTIZEEN LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components:			
LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 58.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CCTTIZEEN LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components:			
LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 58.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CCTTIZEEN LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components:			30 ¹⁰ 15 ¹⁵ 0 ¹ 15 ¹⁵
LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 58.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CCTTIZEEN LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components:	CITIZE	'N	30* 99'
FWHM / FWTM 58.0 + 20.0° / 78.0 + 49.0° Efficiency 81 % Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CICTIZEEN LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components:			
Efficiency 81 % Peak intensity 1.7 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C16142_HEKLA-SOCKET-K CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components:			77
Peak intensity 1.7 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K CITTIZEEN LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:			
LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C16142_HEKLA-SOCKET-K CICO30 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:	-		691-
Light colour White Required components: C16142_HEKLA-SOCKET-K CITIZEN LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:			
Required components: C16142_HEKLA-SOCKET-K CITIZEN LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:			e. e.
C16142_HEKLA-SOCKET-K			
CITIZEN LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************			
LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:			
LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:			4500
LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:			30° 55° 6° 15°
LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:	CITIZE	'N	90* 90 [*]
FWHM / FWTM 56.0 + 30.0° / 83.0 + 61.0° Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: 56.0 + 30.0° / 83.0 + 61.0°			
Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:			75
Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:			
LEDs/each optic 1 Light colour White Required components:			6/5 ⁻²
Light colour White Required components:			
Required components:			er er
30 ⁶ 32 ⁷⁰ 4 ⁷⁰ 32 ⁷⁰	GIUI42_HEKLA		
30 ⁶ 30 ⁴ 12 ⁹ 0 ⁴ 12 ⁴			1200
	1		30



CITIZE	N			1500	
LED	CLL02x/CLU02x (LES10)			1300	\
FWHM / FWTM	63.0 + 23.0° / 81.0 + 52.0°			1200	
Efficiency	80 %			1000	
Peak intensity	1.5 cd/lm			500 -	
LEDs/each optic	1			700 -	
Light colour	White			600	
Required compone	ents:			. •••	
F15255_HEKLA	-SOCKET-C			500	
				200	<mark></mark>
				1	
CITIZE	'N			-106-0 -102-0 -46-0 -46-0 -46-0 -46-0 -42-0 -40-0	22.4; 46.4; 67.8; 96.4; 112.6; 1
	CLU700/701/702			75*	V
FWHM / FWTM	63.0 + 18.0° / 79.0 + 43.0°			400	\times
Efficiency	82 %			69.5	>
Peak intensity	1.8 cd/lm				$ \land \lor $
LEDs/each optic	1				
Light colour	White			- 1200	
Required compone		-			
F15255_HEKLA	-SOCKET-C			1600	$ \rightarrow f $
					\prec λ
				36° 15° 2890	15.0
CITTZE	INT			Ĩ	
UIILE	1N			90*	
				90*	
LED	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0°			<u>30*</u> 73*	
LED FWHM / FWTM	CLU7A2 (LES 4.2mm)			25 ⁻	
LED FWHM / FWTM Efficiency	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0°			8 ¹	
LED FWHM / FWTM Efficiency Peak intensity	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 %			99 ⁴ 97 90	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm			g. 61 20	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White			9 ¹ 91 92 90 90	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents:			91 07 07 07 120	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents:			00 00 00 00 00 00 00 00 00	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents:			20 20 20 20 20 20 20 20 20 20 20 20 20 2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: -SOCKET-C				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: -SOCKET-C			90 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: -SOCKET-C				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: -SOCKET-C				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: -SOCKET-C N LCN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 %				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: NSOCKET-C N LCN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 % 1.7 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	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: NSOCKET-C NN LCN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 % 1.7 cd/lm 1				
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	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: N-SOCKET-C NN LCN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 % 1.7 cd/lm 1 White			20 20 20 01 01 01 00 00 00 00 00 00 0	
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	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: NOCKET-C N LCN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 % 1.7 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 C16142_HEKLA	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: -SOCKET-C * N LCN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 % 1.7 cd/lm 1 White ents: -SOCKET-K			20 20 20 01 01 01 00 00 00 00 00 00 0	
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	CLU7A2 (LES 4.2mm) 62.0 + 17.0° / 78.0 + 37.0° 83 % 2 cd/lm 1 White ents: -SOCKET-C * N LCN-C01B (Tunable White) 58.0 + 20.0° / 77.0 + 50.0° 81 % 1.7 cd/lm 1 White ents: -SOCKET-K			20 20 20 01 01 01 00 00 00 00 00 00 0	

Last update: 28/12/2021Subject to change without prior noticePublished: 10/07/2019LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.6/19

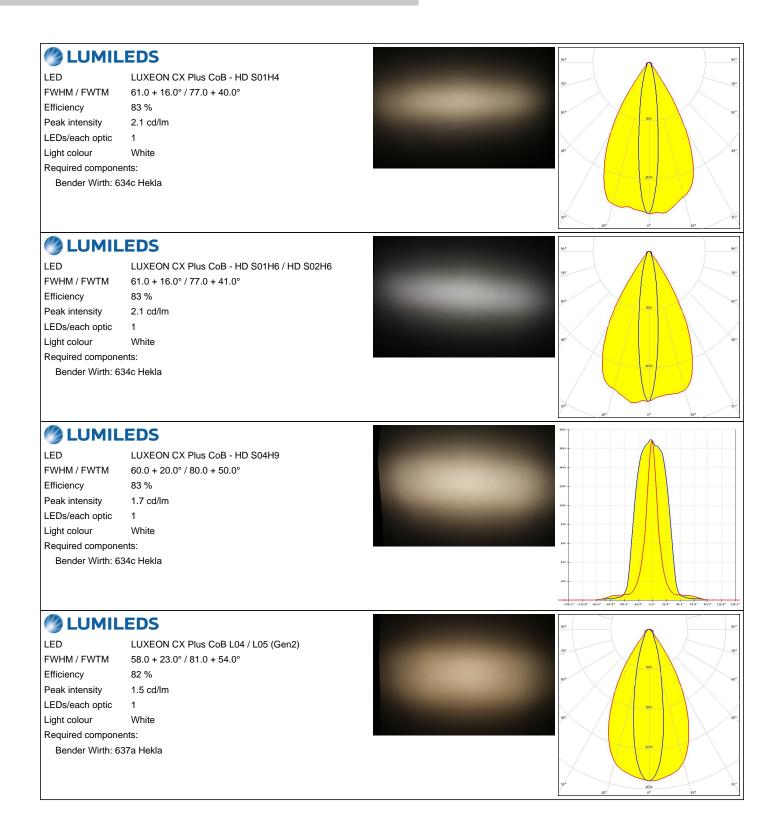


CREE CMT14xx FWM1/FWT 56.04.72.07/8.0.+82.0° Elbidency 83% Pask Intensity 16.04m EDPask Intensity 18.04m EDPask Intensity 18.04m <
LED CMT Hax FWHM / FWTM 81.0 + 22.0° / 81.0 + 52.0° Efficiency 83 % Peak itematy 1.6 cd/m LED Seadeh of the Regulard components: F15255_HERLA SOCKET-C CREE TEO LED CMT Hax FWHM / FWTM 57.0 + 28.0° / 84.0 + 61.0° Efficiency 81 % Peak itematy 1.3 cd/m LED CAVB 13xx F15859_HERLA SOCKET-1 CREE TEO LED CAVB 13xx F15859_HERLA SOCKET-1 CREE TEO LED CAVB 13xx FWHM / FWTM 64.0 + 110° / 720 + 43.0° Efficiency 83 % Peak itematy 1.8 cd/m LED CAVB 13xx F15859_HERLA SOCKET-1 CREE TEO LED CAVB 13xx FWHM / FWTM 64.0 + 110° / 720 + 43.0° Efficiency 83 % Peak itematy 1.8 cd/m LED CAVB 13xx F15859_HERLA SOCKET-1 F15959_HERLA SOCKET-1 F15959_HERLA SOCKET-1 ED LUXEON CX Plus CoB LD8 (Gen2) FYMM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak itematy 1.3 cd/m LED CAVB 13x + 61.0° Efficiency 82 % Peak itematy 1.3 cd/m LED LUXEON CX Plus CoB LD8 (Gen2) FYMM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak itematy 1.3 cd/m LED LUXEON CX Plus CoB LD8 (Gen2) FYMM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak itematy 1.3 cd/m LED CAVB 1.3 cd/m LED LUXEON CX Plus CoB LD8 (Gen2) FYMM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak itematy 1.3 cd/m LED CAVB 1.3 cd/m LED LUXEON CX Plus CoB LD8 (Gen2) FYMM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak itematy 1.3 cd/m LED LUXEON CX Plus CoB LD8 (Gen2) FYMM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak itematy 1.3 cd/m LED CAVB 1.3 cd/m LED C
FWHM /FWTM 61.0 + 22.07 / 61.0 + 52.07 Efficiency 83.% Peak Intensity 1.6 cd/m LED>each optic 1 Light colour White Required components: F15256, HEKLA-SOCKET-C ENVM /FWTM 57.0 + 28.57 / 84.0 + 61.0° Efficiency 81 % Peak Intensity 1.3 cd/m LED>each optic 1 Upt colour White Required components: F15256, HEKLA-SOCKET-I F15359, HEKLA-SOCKET-I Image: Components: F15359, HEKLA-SOCKET-I Image: Components: F15359, HEKLA-SOCKET-I Image: Components: F15359, HEKLA-SOCKET-I Image: Components: F15359, HEKLA-SOCKET-J Image: Components: F15359, HEKLA-SOCKE
Elidency B 3 % Peak Intensity 1.6 colfm Eliptic colours While Required components: F15255_HEKLA-SOCKET-C CREE CIEC LED CMT190X FVHM / FVTM 570 + 28.5' / 64.0 + 61.0' Elicitancy 81 % Peak Intensity 1.3 colfm LED CMT90X FVHM / FVTM 570 + 28.5' / 64.0 + 61.0' Elicitancy 81 % Peak Intensity 1.3 colfm LED CMT90X FVHM / FVTM 570 + 28.5' / 64.0 + 61.0' Elicitancy 81 % Peak Intensity 1.3 colfm LED CMT90X FVHM / FVTM 58.0 + 28.0' / 73.0 + 43.0' Elicitancy 83 % Peak Intensity 1.8 colfm LED CMT91X F15950_HEKLA-SOCKET-J CIECE CME LED CMT91X F15950_HEKLA-SOCKET-J CIECE CME LED LUXEON CX Plus CoB LOB (Genz) EVM / FVTM 58.0 + 28.0' / 73.0 + 61.0' Elicitancy 82.% Peak Intensity 1.3 colfm LED/Weach option 1 Light colour While Required components: F15950_HEKLA-SOCKET-J
Peak intensity i 15 cd/m LEDuleach optic 1 LEDuleach optic 2 F15255_HEKLA-SOCKET-C
LEDveach optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C CREE COLO LED CMT19xx FVMM / FVTM 57.7 + 28.5 ' 84.0 + 61.0 ° Elloenony 31 % Peak intensity 1.3 colin LEDveach optic 1 Light colour White Required components: F15850_HEKLA-SOCKET-I CREE COLO LED CMAP 13xx FVMM / FVTM 64.0 + 19.0 ° / 79.0 + 43.0 ° Elloenony 33 % FVMM / FVTM 64.0 + 19.0 ° / 79.0 + 43.0 ° Elloenony 33 % FVMM / FVTM 64.0 + 19.0 ° / 79.0 + 43.0 ° Elloenony 33 % FVMM / FVTM 64.0 + 19.0 ° / 79.0 + 43.0 ° Elloenony 33 % FVMM / FVTM 55.0 + 28.0 ° / 83.0 + 61.0 ° Elloenony 33 % Peak intensity 1.3 colin LEDveach optic 1 LEDveach optic 1 ElDeveach
Ugh color White Required components: F1520 / HERLASOCKET-C CREE COLOR LED CMT19x FVHM/FVTM 57.0 + 25.5*/84.0 + 61.0* Ellidency 31 % Peak intensity 1.3 cdfm LED keed optice 1 LED cCAVB 13x F15959 / HERLASOCKET-I ED CXAB 13x F15959 / HERLASOCKET-I ED CXAB 13x F15959 / HERLASOCKET-I CREE COLOR LED CXAB 13x F15959 / HERLASOCKET-I ED CXAB 13x F15959 / HERLASOCKET-I ED CXAB 13x F15959 / HERLASOCKET-I F15959 / HERLASOCKET-I
Required components: F15255_HEKLA-SOCKET-C CREE\$LED LED CMT19xx FYMM/ FVTM 57.0 + 28.0 / 84.0 + 61.0° Efficiency 81 % Peak intensity 1.3 colfm LEDseach optie 1 Light colour White Required components: F15856_HEKLA-SOCKET-I CREE\$LED LED CXA/B 13xx FYMM/ FVTM 64.0 + 19.0 / 79.0 + 43.0° Efficiency 83 % Prede intensity 1.3 colfm LEDseach optie 1 LEDseach optie 1 LEDSEA
F15255_HEKLA-SOCKET-C
CREE LD LED CMT 19xx FVHM / FVT 57.0 + 28.0 / 24.0 + 61.0* Efficiency 81% Peak intensity 1.3 cd/m LED/seach optic 1 Lipht colour White Required componentis: F16589_HEKLA-SOCKET-1 ED CAMB 13xx FVHM / FVT 64.0 + 19.0* / 79.0 + 43.0* Elliolency 83 % Peak intensity 1.8 cd/m LED/seach optic 1 Lipht colour White Required components: F15958_HEKLA-SOCKET-J F15958_HEKLA-SOCKET-J Elliphic colour CREE LD Lipht colour White Required components: F15958_HEKLA-SOCKET-J F15958_HEKLA-SOCKET-J Elliphic colour Lipht colour White Required components: Elliphic colour F15958_HEKLA-SOCKET-J Elliphic colour Elliphic colour White Required components: Elliphic colour Elliphic colour White Required components: Elliphic colour
LED CMT19x: FVHM/FVTM 57.0 + 28.5* / 84.0 + 61.0* Efficiency 81 % Peak intensity 1.3 cd/m LED2/each optic 1 LED2/each opti
LED CMT19x: FVHM/FVTM 57.0 + 28.5* / 84.0 + 61.0* Efficiency 81 % Peak intensity 1.3 cd/m LED2/each optic 1 LED2/each opti
LED CMT19x: FVHM/FVTM 57.0 + 28.5* / 84.0 + 61.0* Efficiency 81 % Peak intensity 1.3 cd/m LED2/each optic 1 LED2/each opti
FWHM/FWTM 57.0 + 28.5* / 84.0 + 61.0* Efficiency 81 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I ED CXAB 13xx FWHM / FWTM 64.0 + 18.0* / 79.0 + 43.0* Efficiency 83 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J ED LUXEON CX Plus COB LOB (Gen2) FWHM / FWTM 56.0 + 28.0* / 83.0 + 61.0* Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J
Efficiency 81% Peak intensity 1.3 col/m LEDS/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 CREE COLED LED CX/B 13xx FWHM / FWTM 64.0 + 19.0° / 79.0 + 43.0° Efficiency 83% Peak intensity 1.8 col/m LEDS/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J CUNILEDS LED LUXEON CX Plus CoB L08 (Gen2) FWHM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82% Peak intensity 1.3 col/m LEDS/each optic 1 Light colour White Required components: Bender With: 6372 Hekla
Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I CCREE_LED LED CXA/B 13xx FVHM / FVTM 64.0 + 19.0' / 79.0 + 43.0" Efficiency 83 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J CUNILEDS LED LUXEON CX Plus CoB L08 (Gen2) FVHM / FVTM 56.0 + 28.0' / 83.0 + 61.0" Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J ED LUXEON CX Plus CoB L08 (Gen2) FVHM / FVTM 56.0 + 28.0' / 83.0 + 61.0" Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: Bender With: 637.3 Hekla
LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I ED CXA/B 13xx FVHM / FWTM 64.0 + 19.0° / 79.0 + 43.0° Efficiency 83 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J ED LUXEON CX Plus CoB L08 (Gen2) FVHM / FVTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: Bender With: 6373 Hekla
Light colour White Required components: F15859_HEKLA-SOCKET-I LED CXA/B 13xx FWHM / FWTM 64.0 + 19.0° / 79.0 + 43.0° Efficiency 83 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J CUNILEDS LED LUXEON CX Plus CoB L08 (Gen2) FWHM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: Bender With: 6373 Hekla
Required components: F15859_HEKLA-SOCKET-I LED CXAB 13xx FWHM / FWTM 64.0 + 19.0° / 79.0 + 43.0° Efficiency 83 % Peak intensity 1.8 cd/m LEDs/each optic 1 LEDs/each optic 1 LEDs/each optic 1 Efficiency White Required components: F15956_HEKLA-SOCKET-J ED LUXEON CX Plus COB L08 (Gen2) FWHM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 LEDs/each opt
F15859_HEKLA-SOCKET-I
CREE + IED LD CXA/B 13xx FWHM / FWTM 64.0 + 19.0° / 79.0 + 43.0° Efficiency 83 % Peak intensity 18 cd/lm LED/seach optic 1 Light colour White Required components: F15956_HEKLA-SOCKET.J FVMM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak intensity 1.3 cd/lm LED LUXEON CX Plus Co8 L08 (Gen2) FWHM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak intensity 1.3 cd/lm LEDseach optic 1 Light colour White Required components: Efficiency Efficiency 82 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: Ender Wirth: 637a Hekla
LED CXA/B 13xx FWHM / FWTM 64.0 + 19.0° / 79.0 + 43.0° Efficiency 83 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J F0 Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637a Hekla
LED CXA/B 13xx FWHM / FWTM 64.0 + 19.0° / 79.0 + 43.0° Efficiency 83 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J F0 Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637a Hekla
LED CXA/B 13xx FWHM / FWTM 64.0 + 19.0° / 79.0 + 43.0° Efficiency 83 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J F0 Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637a Hekla
FWHM / FWTM 64.0 + 19.0° / 79.0 + 43.0° Efficiency 83 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637a Hekla
Efficiency 83 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J
Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J FUMILEDS LED LUXEON CX Plus CoB L08 (Gen2) FWHM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637a Hekla
LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J
LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J
Required components: F15956_HEKLA-SOCKET-J
Required components: F15956_HEKLA-SOCKET-J
Image: Constraint of the second se
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LED LUXEON CX Plus CoB L08 (Gen2) FWHM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637 Hekla
LED LUXEON CX Plus CoB L08 (Gen2) FWHM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637 Hekla
FWHM / FWTM 56.0 + 28.0° / 83.0 + 61.0° Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637a Hekla
Efficiency 82 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637a Hekla
Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637a Hekla
LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637a Hekla
Light colour White Required components: Bender Wirth: 637a Hekla
Required components: Bender Wirth: 637a Hekla
Bender Wirth: 637a Hekla
10



UMIL	.EDS	***
LED	LUXEON CoB 1202HD	
FWHM / FWTM	63.0 + 18.0° / 78.0 + 43.0°	
Efficiency	83 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15848_HEKLA	-SOCKET-G	100
		\times
		20 ⁵ 20 ⁵ 20 ⁵ 20 ⁵
	EDS	
LED	LUXEON CoB 1202s	
FWHM / FWTM	64.0 + 18.0° / 79.0 + 43.0°	
Efficiency	83 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	g.
Required compone	ents:	
F15848_HEKLA	-SOCKET-G	
		34
	.EDS	
LED	LUXEON CoB 1204HD	
FWHM / FWTM	61.0 + 21.0° / 80.0 + 49.0°	
Efficiency	83 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
F15858_HEKLA		
		30°
M I I I N A I I	EDC	25° 0° 15°
		30° 15° 0° 15°
LED	LUXEON CoB 1205HD	
LED FWHM / FWTM	LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0°	
LED FWHM / FWTM Efficiency	LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 % 1.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 % 1.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 % 1.5 cd/lm 1 White ents:	75 64 67 77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 % 1.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1205HD 59.0 + 24.0° / 81.0 + 54.0° 83 % 1.5 cd/lm 1 White ents:	75 64 67 77







LUMILEDS

LED	LUXEO				
FWHM / FWTM	58.0 + 1				
Efficiency	83 %				
Peak intensity	1.8 cd/lr				
LEDs/each optic	1				
Light colour	White				
Required components:					
Bender Wirth: 641a Hekla					

LUXEON CX Plus CoB M02 / M03 (Gen2) 58.0 + 19.0° / 78.0 + 48.0° 83 % 1.8 cd/lm 1 White ts:



LUMILEDS

LED	LUXEO
FWHM / FWTM	60.0 + 1
Efficiency	83 %
Peak intensity	2.1 cd/li
LEDs/each optic	1
Light colour	White
Required compone	nts:
Bender Wirth: 63	34c Hekla

UXEON CX Plus CoB S01 (Gen2) 0.0 + 16.0° / 77.0 + 40.0° 3 % .1 cd/lm /hite

189

16-01

14-01

1299

69

400 200

LUMILEDS

 LED
 LUXEON Fusion 12-up (20x24)

 FWHM / FWTM
 59.0 + 17.0° / 77.0 + 45.0°

 Efficiency
 82 %

 Peak intensity
 1.9 cd/lm

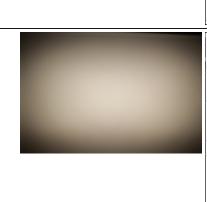
 LEDs/each optic
 1

 Light colour
 Tunable White

 Required components:
 C16142_HEKLA-SOCKET-K

 Bender Wirth: 442 Typ L8
 Socket All S

LED	CxM-14 (19x19)
FWHM / FWTM	58.0 + 29.0° / 84.0 + 60.0°
Efficiency	81 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour	White
Required componen	ts:
F15859_HEKLA-	SOCKET-I





C LUM	INUS	80 ⁴
LED	CXM-4	
FWHM / FWTM	62.0 + 16.0° / 78.0 + 39.0°	
Efficiency	82 %	
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15255_HEKLA		
		34- ×
ELUM		207 de 192
		91 ⁴
LED	CxM-9 (13.5x13.5)	77
FWHM / FWTM	62.0 + 23.0° / 81.0 + 52.0°	
Efficiency	82 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15255_HEKLA	A-SOCKET-C	
		30 ¹⁶ 1500 30 15 ¹⁰ 0 ¹⁰ 15 ¹⁷
PHILIP	DS	90°
LED	Fortimo SLM L09 CoB	
FWHM / FWTM	60.0 + 20.0° / 80.0 + 50.0°	77
Efficiency	83 %	60 ⁸
Efficiency Peak intensity	83 % 1 7 cd/lm	
Peak intensity	1.7 cd/lm	
Peak intensity LEDs/each optic	1.7 cd/lm 1	
Peak intensity LEDs/each optic Light colour	1.7 cd/lm 1 White	er e
Peak intensity LEDs/each optic Light colour Required compone	1.7 cd/lm 1 White ents:	e
Peak intensity LEDs/each optic Light colour	1.7 cd/lm 1 White ents:	er e
Peak intensity LEDs/each optic Light colour Required compone	1.7 cd/lm 1 White ents:	er e
Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	1.7 cd/lm 1 White ents: A-SOCKET-H	er e
Peak intensity LEDs/each optic Light colour Required compone	1.7 cd/lm 1 White ents: A-SOCKET-H	er e
Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	1.7 cd/lm 1 White ents: A-SOCKET-H	
Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	1.7 cd/lm 1 White ents: A-SOCKET-H	
Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	1.7 cd/lm 1 White ents: A-SOCKET-H	
Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	1.7 cd/lm 1 White ents: A-SOCKET-H Fortimo SLM L13 CoB 27.0 + 55.0° / 58.0 + 81.0°	
Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA DHILLI LED FWHM / FWTM Efficiency	1.7 cd/lm 1 White ents: A-SOCKET-H	
Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA PHILLI LED FWHM / FWTM Efficiency Peak intensity	1.7 cd/lm 1 White ents: A-SOCKET-H Fortimo SLM L13 CoB 27.0 + 55.0° / 58.0 + 81.0° 81 % 1.4 cd/lm	
Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA PHILLI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1.7 cd/lm 1 White ents: A-SOCKET-H Fortimo SLM L13 CoB 27.0 + 55.0° / 58.0 + 81.0° 81 % 1.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA DENILUE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.7 cd/lm 1 White ents: A-SOCKET-H	
Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA DHILLI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	1.7 cd/lm 1 White ents: A-SOCKET-H	
Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA DEHILLI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	1.7 cd/lm 1 White ents: A-SOCKET-H	



PHILIF	S	90 ⁴
LED	Fortimo SLM L15 CoB	
FWHM / FWTM	54.0 + 30.0° / 83.0 + 63.0°	
Efficiency	80 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	e- 800
Required compone	ents:	
C16142_HEKLA		
Bender Wirth: 4	32 Typ L8	1200
		34 ⁵ 25 ⁷ 0 ⁴ 15 ⁷
SAMSI	UNG	
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	62.0 + 22.0° / 81.0 + 51.0°	75
Efficiency	82 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	e.
Required compone		
F15255_HEKLA		
		\sim
		30 360
слас		
21/11/20	JNU	sv.
LED	LC010C	35 ¹
SAMSU LED FWHM / FWTM	LC010C 65.0 + 20.0° / 80.0 + 46.0°	99 ⁴ 79
LED FWHM / FWTM Efficiency	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 %	99 ⁴ 75 91
LED FWHM / FWTM Efficiency Peak intensity	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compose	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White ents: -SOCKET-G	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White ents: -SOCKET-G	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White ents: A-SOCKET-G	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White ents: 	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA SAMSI LED FWHM / FWTM	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White ents: -SOCKET-G UNG LC010C G2 62.0 + 17.0° / 78.0 + 41.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA SAMSI LED FWHM / FWTM Efficiency	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White ents: A-SOCKET-G UNG LC010C G2 62.0 + 17.0° / 78.0 + 41.0° 82 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White ents: A-SOCKET-G UNC LC010C G2 62.0 + 17.0° / 78.0 + 41.0° 82 % 1.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White ents: A-SOCKET-G UNC LC010C G2 62.0 + 17.0° / 78.0 + 41.0° 82 % 1.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White Ponts: A-SOCKET-G UNC LC010C G2 62.0 + 17.0° / 78.0 + 41.0° 82 % 1.9 cd/lm 1 White Ponts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White Ponts: A-SOCKET-G UNC LC010C G2 62.0 + 17.0° / 78.0 + 41.0° 82 % 1.9 cd/lm 1 White Ponts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010C 65.0 + 20.0° / 80.0 + 46.0° 81 % 1.6 cd/lm 1 White Ponts: A-SOCKET-G UNC LC010C G2 62.0 + 17.0° / 78.0 + 41.0° 82 % 1.9 cd/lm 1 White Ponts:	



SAMSI	ING	50 ⁴ 9
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	58.0 + 29.0° / 85.0 + 62.0°	
Efficiency	80 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	5.
Required compone	ents:	
F15859_HEKLA	A-SOCKET-I	
		39 ⁶ 20 ⁷ 0 ⁴ 20 ⁷
SAMSI	UNG	301
LED	LC020C	
FWHM / FWTM	63.0 + 21.0° / 81.0 + 48.0°	
Efficiency	82 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	e r (
Required compone	ents:	
F15848_HEKLA	A-SOCKET-G	
		304 27 0t 27
SAMSI	ING	84
LED	LC020C G2	
FWHM / FWTM	61.0 + 20.0° / 81.0 + 47.0°	77
Efficiency	82 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	g.
Required compone	ents:	
F15859_HEKLA	A-SOCKET-I	
F15859_HEKLA	A-SOCKET-I	
F15859_HEKLA	A-SOCKET-I	30- 100 1001
		30° 200
TRIDON	NIC	
	NIC SLE G7 LES09	35 25 26 26 26 26 26 26 27 20 20 20 20 20 20 20 20 20 20 20 20 20
TRIDON LED FWHM / FWTM	NIC	
TRIDON LED FWHM / FWTM Efficiency	SLE G7 LES09 62.0 + 21.0° / 81.0 + 49.0°	
TRIDON LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES09 62.0 + 21.0° / 81.0 + 49.0° 82 %	
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES09 62.0 + 21.0° / 81.0 + 49.0° 82 % 1.6 cd/lm	
F15859_HEKLA TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES09 62.0 + 21.0° / 81.0 + 49.0° 82 % 1.6 cd/lm 1 White	63 ⁴ 660 -
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES09 62.0 + 21.0° / 81.0 + 49.0° 82 % 1.6 cd/lm 1 White ents:	
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES09 62.0 + 21.0° / 81.0 + 49.0° 82 % 1.6 cd/lm 1 White ents:	G . 1 00 1 00 1 00



TRIDO		9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES13 59.0 + 27.0° / 83.0 + 58.0° 80 % 1.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	SLE G7 LES15 58.0 + 29.0° / 85.0 + 62.0° 80 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	XOB 14.5 mm 58.0 + 29.0° / 84.0 + 61.0° 80 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	XOB 9.8 mm 62.0 + 22.0° / 81.0 + 51.0° 82 % 1.6 cd/lm 1 White ents:	

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bridgelux.	90*
LED VERO10	
FWHM / FWTM 59.0 + 18.0° / 78.0 + 45.0°	
Efficiency 83 %	
Peak intensity 1.9 cd/lm	
LEDs/each optic 1	
Light colour White	434
Required components:	
F15616_HEKLA-SOCKET-F	1630
30-	34.
CITIZEN	0, 12,
	90*
LED CLL03x/CLU03x	
FWHM / FWTM 58.0 + 26.0° / 82.0 + 57.0°	
Efficiency 77 %	
Peak intensity 1.4 cd/lm	
LEDs/each optic 1	200
Light colour White	85
Required components:	
F15859_HEKLA-SOCKET-I	1200
F 15859_HEKLA-SUCKET-I	1200
F15859_HEKLA-SUCKE1-I	229
30 _ 22	e* 12* 3**
CITIZEN M [*]	220 0' 12' 2'
CITIZEN 50' LED CLU710/711	9° 13° 3°
CITIZEN ** ** LED CLU710/711 ** ** FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° ** **	6° 12° 26°
CITIZEN *** LED CLU710/711 FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° Efficiency 83 %	
CITIZEN ** ** LED CLU710/711 ** ** FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° ** ** Efficiency 83 % ** ** Peak intensity 2.1 cd/lm ** **	90 90 91 91 91 91 91 91
CITTIZEN ** LED CLU710/711 FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° Efficiency 83 % Peak intensity 2.1 cd/lm LED/each optic 1	500 00 120 00 120 00 00 00 00 00 00 00 00 00
CITIZEN ** LED CLU710/711 FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White	000 010 010 010 010 010 010 010 010 010
CITTIZEN ** LED CLU710/711 FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: **	229 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CITTIZEN ** LED CLU710/711 FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White	000 000 000 000 000 000 000 000 000 00
CITTIZEN ** LED CLU710/711 FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: **	900 900 900 900 900 900 900 900 900 900
CITTIZEN ** LED CLU710/711 FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: **	
CITTIZEN LED CLU710/711 FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° Efficiency 83 % Peak intensity 2.1 cd/lm LED/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I	
CITTIZEN LED CLU710/711 FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I F15859_HEKLA-SOCKET-I #	100 100 100 100 100 100 100 100
CITTIZEN LED CLU710/711 FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° Efficiency 83 % Peak intensity 2.1 cd/im LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I F15859_HEKLA-SOCKET-I #	100 100 100 100 100 100 100 100
LED CLU710/711 FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 FUED CXA/B 15xx FWHM / FWTM 59.0 + 17.0° / 79.0 + 42.0°	0 0 0 0 0 0 0 0 0 0 0 0 0 0
CITIZEN ************************************	00 00 00 00 00 00 00 00 00 00 00 00 00
LED CLU710/711 FWHM / FWTM 61.0 + 18.0° / 78.0 + 42.0° Efficiency 83 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I FWHM / FWTM 59.0 + 17.0° / 79.0 + 42.0° Efficiency 84 % Peak intensity 2.1 cd/m	
CITIZEN	
CITIZEN """"""""""""""""""""""""""""""""""""	
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LED CXAB 1916 & CXAB 1920 & CXA 1950 FWHM / FWTM 56.0 + 13.0 / 75.0 + 35.0 ' Efficiency 86 % Peak intensity 2.7 cd/m LED/each optic 1 Light colour White Required components: F1529_HERLA-SOCKET-8			90° 90'
FWHM /FVTM 56.0 + 13.0° / 75.0 + 35.0° Efficiency 86 % Peak intensity 2.7 cd/m LEDS/each optic 1 Light colour White Required components: F15254_HEKLA-SOCKET-8 FIELD CXAB 1830 FVHM /FVTM 60.0 + 28.0° / 84.0 + 60.0° Efficiency 79 % Peak intensity 1.3 cd/m LEDS/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wint: 457 Typ L8 Image: C16142_HEKLA-SOCKET-K Bender Wint: 457 Typ L8 Image: C16142_HEKLA-SOCKET-K Pielisency 8.4% Pielintensity 2.4 cd/m <tr< th=""><th></th><th>CXA/B 1816 & CXA/B 1820 & CXA 1850</th><th></th></tr<>		CXA/B 1816 & CXA/B 1820 & CXA 1850	
Pak informatiy 2.7 cd/m LED if color White Required components: F15264_HEKLA-SOCKET-B CREE \$LED LED CXAVB 1830 FWH/ / FWTM 60.0 + 28.0" / 84.0 + 60.0" Efficiency 79 % Pak information 70 % P	FWHM / FWTM		20
LEDs/each optic 1 Light colour White Required components: F15254_HEKLA-SOCKET-B CREE\$LED LED CXAVB 1830 FWHM /FWTM 60.0+28.0*/84.0+60.0* Elliciancy 79 % Peak intensity 1.3 cd/m LEDs/each optic 1 LEDs/each optic	Efficiency	86 %	
LED2erach optic 1 Light colour White Required components: F15251_HEKLA-SOCKET-B ED CXA/B 1830 EVHM / FVTM 600+28.0° / 84.0+60.0° Efficiency 79 % Peak intensity 1.3 cd/m LED2/each optic 1 LED2/each optic 1 LED2/eac	Peak intensity	2.7 cd/lm	
Light colour White Required components: F15254_HEKLA-SOCKET-B EC ECREE \$LED LED CXAVB 1830 FVHM / FVTM 60.0 + 28.0" / 84.0 + 60.0" Ellidency 79.% Peak intensity 1.3 cd/m LEDSeach optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 457 Typ LB EC ECREE \$LED LED XP-G3 FVHM / FVTM 58.0 + 14.0" / 76.0 + 32.0" Ellidency 84 % Peak intensity 2.4 cd/m LED/each optic 1 Light colour White Required components: F17438_HEKLA-G2:1 ED COB T-Type FVHM / FVTM 62.0 + 18.0" / 78.0 + 38.0" Ellidency 83 % Peak intensity 2.1 cd/m LED/each optic 1 Light colour White Required components: F17438_HEKLA-G2:1	LEDs/each optic	1	
Required components: F15254_HEKLA-SOCKET-B CREE LED LED COAB 1830 FWHM / FWTM G0.0 + 28.0° / 84.0 + 60.0° Elficiency 79 % Peak intensity 1.3 cd/m LED/seach optic 1 Light colour White Required components: Crist2_HEKLA-SOCKET-K Bender Wirth: 457 Typ L8 Efficiency CREE LED VHM / FWTM S8.0 + 14.0° / 76.0 + 32.0° Efficiency 84 % Peak intensity 2.4 cd/m LED/seach optic 1 Light colour White Required components: Crist2_HEKLA-SOCKET-K Bender Wirth: 457 Typ L8 Efficiency VEMM / FWTM S8.0 + 14.0° / 76.0 + 32.0° Efficiency 84 % Peak intensity 2.4 cd/m Light colour White Required components: F17438_HEKLA-G2.1 F17438_HEKLA-G2.1 Elboleach optic F17438_HEKLA-G2.1 Elboleach optic F17438_HEKLA-G2.1 Elboleach optic Elboleach optic 1 <th></th> <th>White</th> <th>45° 100</th>		White	45° 100
F15254_HEKLA-SOCKET-B CCECE_LED LED CXAB 1830 FWHM / FWTM 60.0 + 28.0° / 84.0 + 60.0° Elficiency 7.9 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Winth: 457 Typ LB		S:	
LED CXA/B 1830 FWHM / FWTM 60.0 + 28.0* / 84.0 + 60.0* Efficiency 79 % Peak intensity 1.3. od/m LEDs/each optic 1 Light colour White Required components: C16142_HERLA-SOCKET-K Bender Wirth: 457 Typ L8 CCREE CIED LED XP-G3 FWHM / FWTM 58.0 + 14.0* / 76.0 + 32.0* Efficiency 84 % Peak intensity 2.4 cd/m LEDs/each optic 1 Light colour White Required components: F17438_HERLA-G2-I COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m	F15254_HEKLA-S	OCKET-B	
LED CXA/B 1830 FWHM / FWTM 60.0 + 28.0* / 84.0 + 60.0* Efficiency 79 % Peak intensity 1.3. od/m LEDs/each optic 1 Light colour White Required components: C16142_HERLA-SOCKET-K Bender Wirth: 457 Typ L8 CCREE CIED LED XP-G3 FWHM / FWTM 58.0 + 14.0* / 76.0 + 32.0* Efficiency 84 % Peak intensity 2.4 cd/m LEDs/each optic 1 Light colour White Required components: F17438_HERLA-G2-I COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m			lacy
LED CXA/B 1830 FWHM / FWTM 60.0 + 28.0* / 84.0 + 60.0* Efficiency 79 % Peak intensity 1.3. od/m LEDs/each optic 1 Light colour White Required components: C16142_HERLA-SOCKET-K Bender Wirth: 457 Typ L8 CCREE CIED LED XP-G3 FWHM / FWTM 58.0 + 14.0* / 76.0 + 32.0* Efficiency 84 % Peak intensity 2.4 cd/m LEDs/each optic 1 Light colour White Required components: F17438_HERLA-G2-I COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0* / 78.0 + 38.0* Efficiency 83 % Peak intensity 2.1 cd/m			94° 20° 0° 20°
FWHM / FWTM 60.0 + 28.0° / 84.0 + 60.0° Efficiency 79 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 457 Typ L8 Efficiency ED XP-G3 FWHM / FWTM 58.0 + 14.0° / 76.0 + 32.0° Efficiency 84 % Peak intensity 2.4 cd/lm LED XP-G3 FWHM / FWTM 58.0 + 14.0° / 76.0 + 32.0° Efficiency 84 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2:1 F17438_HEKLA-G2:1 EE COB T-Type FWHM / FWTM FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White Required components: - E17438_HEKLA-G2:1 - E16/each optic 1 <td></td> <td></td> <td>2²</td>			2 ²
Efficiency 79 % Peak intensity 1.3 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" Efficiency 84 % Peak intensity 2.4 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" Efficiency 84 % Peak intensity 2.4 cd/m LED cob T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" Efficiency 84 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" Efficiency 84 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" Efficiency 84 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 52.0 + 18.0" / 78.0 + 38.0" Efficiency 84 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" FWHM / FWTM 62.0 + 18.0" / 78.0 + 38.0" FWHM / FWTM 62.0 + 18.0" FWHM / FWTM 70.0 + 18.0" FWHM / FWTM 70.0 + 1	LED	CXA/B 1830	
Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 457 Typ L8 CREECLED LED XP-G3 FWHM / FWTM 58.0 + 14.0° / 76.0 + 32.0° Efficiency 84 % Peak intensity 2.4 cd/m LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-1 COB T-Type FWHM / FWTM 62.0 + 18.0° / 76.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/m LED COB T-Type FWHM / FWTM 62.0 + 18.0° / 76.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/m LED S 1 Light colour White Required components: F17438_HEKLA-G2-1	FWHM / FWTM		75
LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 457 Typ L8 CIEE $\$ LED LED XP-G3 FWHM / FWTM 58.0 + 14.0° / 76.0 + 32.0° Efficiency 84 % Peak intensity 2.4 cd/m LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-1 ENCCHIN LED COB T-Type FWHM / EXT MB 43.0° Efficiency 83 % Peak intensity 2.1 cd/m LEDS/each optic 1 Light colour White Required components: F17438_HEKLA-G2-1 Efficiency 83 % Peak intensity 2.1 cd/m LEDS/each optic 1 Light colour White Required components: F17438_HEKLA-G2-1 Efficiency 83 % Peak intensity 2.1 cd/m LEDS/each optic 1 Light colour White Required components: F17438_HEKLA-G2-1 Efficiency 83 % Peak intensity 2.1 cd/m LEDS/each optic 1 Light colour White Required components: Efficiency 83 %	Efficiency	79 %	600
Light colour White Required components: C1612_HEKLA-SOCKET-K Bender Wirth: 457 Typ L8 CCEECIED LED XP-G3 FWHM / FWTM 58.0 + 14.0° / 76.0 + 32.0° Efficiency 84 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDS COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDS/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I	Peak intensity	1.3 cd/lm	
Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 457 Typ L3 CREE CIED LED XP-G3 FWHM / FWTM $58.0 + 14.0^{\circ} / 76.0 + 32.0^{\circ}$ Efficiency 84% Peak intensity 2.4 cd/m LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I COB T-Type FWHM / FWTM $62.0 + 18.0^{\circ} / 78.0 + 38.0^{\circ}$ Efficiency 83% Peak intensity 2.1 cd/m LEDs (COB T-Type FWHM / FWTM $62.0 + 18.0^{\circ} / 78.0 + 38.0^{\circ}$ Efficiency 83% Peak intensity 2.1 cd/m LEDs(each optic 1 Light colour White Required components: F17438_HEKLA-G2-I	LEDs/each optic	1	
C16142_HEKLA-SOCKET-K Bender Wirth: 457 Typ L8	Light colour	White	97° 000 e
Bender Wirth: 457 Typ L8	Required components	S:	
CREESIED LED XP-G3 FWHM / FWTM 58.0 + 14.0° / 76.0 + 32.0° Efficiency 84 % Peak intensity 2.4 cd/m LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-1 F17438_HEKLA-G2-1 Efficiency Signed Components: F17438_HEKLA-G2-1 FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White Required components: 1 F17438_HEKLA-G2-1 Image: Colour of the temperature of the temperature of temperature	C16142_HEKLA-S	OCKET-K	
LED XP-G3 FWHM / FWTM 58.0 + 14.0° / 76.0 + 32.0° Efficiency 84 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-1 F17438_HEKLA-G2-1 V ED COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: 1 LED COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components:	Bender Wirth: 457	Тур L8	1200
LED XP-G3 FWHM / FWTM 58.0 + 14.0° / 76.0 + 32.0° Efficiency 84 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-1 F17438_HEKLA-G2-1 V ED COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: 1 LED COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components:			30*
LED XP-G3 FWHM / FWTM 58.0 + 14.0° / 76.0 + 32.0° Efficiency 84 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-1 F17438_HEKLA-G2-1 V ED COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: 1 LED COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components:			15° 0 ⁶ 15°
FWHM / FWTM 58.0 + 14.0° / 76.0 + 32.0° Efficiency 84 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I F17438_HEKLA-G2-I Image: COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I			
Efficiency 84 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I FIT438_HEKLA-G2-I FVICHIN LED COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components:			90* 90
Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I F17438_HEKLA-G2-I Image: Color of the state of the s		XP-G3	50 ² 30
LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I FIT438_HEKL			<u>25.</u> 27.
Light colour White Required components: F17438_HEKLA-G2-I F17438_HEKLA-G2-I Image: Color of the state of the	LED	58.0 + 14.0° / 76.0 + 32.0°	
Required components: F17438_HEKLA-G2-I F17438_HEKLA-G2-I Image: state of the st	LED FWHM / FWTM	58.0 + 14.0° / 76.0 + 32.0° 84 %	
F17438_HEKLA-G2-I Image: Chine in the second seco	LED FWHM / FWTM Efficiency	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm	9°* 9
IED COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1	
LED COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White	9 ³ 9 ³ 9 ³ 9 ³ 9 ³ 9 ³ 9 ³ 9 ³
LED COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White S:	
LED COB T-Type FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White S:	9 ³ 9 ³ 9 ³ 9 ³ 9 ³ 150 150
FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White S:	
FWHM / FWTM 62.0 + 18.0° / 78.0 + 38.0° Efficiency 83 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: ***	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F17438_HEKLA-G	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White S:	
Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F17438_HEKLA-G	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White s: i2-1	
LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F17438_HEKLA-G	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White s: :2-1	
Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F17438_HEKLA-G	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White s: i2-1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0°	
Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F17438_HEKLA-G	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White 5: 32-1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0° 83 %	
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F17438_HEKLA-G	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White 5: 52-1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0° 83 % 2.1 cd/lm	
F15848_HEKLA-SOCKET-G	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F17438_HEKLA-G	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White 5: 52-1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0° 83 % 2.1 cd/lm 1 White	
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F17438_HEKLA-G	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White S: 52-1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0° 83 % 2.1 cd/lm 1 White S:	9)*
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F17438_HEKLA-G	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White S: 52-1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0° 83 % 2.1 cd/lm 1 White S:	9)*
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F17438_HEKLA-G	58.0 + 14.0° / 76.0 + 32.0° 84 % 2.4 cd/lm 1 White S: 52-1 COB T-Type 62.0 + 18.0° / 78.0 + 38.0° 83 % 2.1 cd/lm 1 White S:	9)*



Μ ΝΙCΗΙΛ		90° 90°
LED	NFSWE11A	
FWHM / FWTM	58.0 + 18.0° / 76.0 + 42.0°	75* 400
Efficiency	74 %	
Peak intensity	1.9 cd/lm	60°
LEDs/each optic	30	
Light colour	White	43 ⁴ 43*
Required components:		1220
		1500
		30° 30°
		15° 2080 25°
OSRAM Opto Semiconductors		90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	58.0 + 14.0° / 74.0 + 30.0°	737
Efficiency	86 %	60° 60°
Peak intensity	2.7 cd/lm	$r \times / / \wedge \times 1$
LEDs/each optic	1	
Light colour	White	gr 1000 gr
Required components:		
F17438_HEKLA-G2-I		
1		
Į.		30 30
0000414		30° 12° 0° 12°
OSRAM Opto Semiconductors		99 ¹ 0 ² 12 ² 99 ²
OSRAM Opto Semiconductors LED	Soleriq S13 19x19	
Opto Semiconductors LED FWHM / FWTM	Soleriq S13 19x19 57.0 + 24.0° / 81.0 + 54.0°	39 15 0 ¹ 32 39 15 0 ¹ 32
Opto Semiconductors LED		77
Opto Semiconductors LED FWHM / FWTM	57.0 + 24.0° / 81.0 + 54.0°	77
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	57.0 + 24.0° / 81.0 + 54.0° 83 %	73° 60° 600
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm	77
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm 1 White	73° 60° 600
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm 1 White	421 600 72 72 72 72
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm 1 White	421 600 72 72 72 72
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm 1 White	421 600 72 72 72 72
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm 1 White	25 25 25 25 25 25 25 25 25 25
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm 1 White CKET-I	421 600 72 72 72 72
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC OSRAM Opto Semiconductors LED	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm 1 White CKET-I Soleriq S9	22 00 00 00 00 00 00 00 00 00 00 00 00 0
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC OSRAM Opto Semiconductors LED FWHM / FWTM	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm 1 White CKET-I Soleriq S9 59.0 + 20.0° / 80.0 + 48.0°	Bit Bit Bit
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm 1 White CKET-I Soleriq S9 59.0 + 20.0° / 80.0 + 48.0° 85 %	25 25 25 25 25 25 25 25 25 25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm 1 White CKET-I Soleriq S9 59.0 + 20.0° / 80.0 + 48.0° 85 % 1.8 cd/lm	25 25 25 25 25 25 25 25 25 25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/m 1 White CKET-I Soleriq S9 59.0 + 20.0° / 80.0 + 48.0° 85 % 1.8 cd/m 1	25 25 25 25 25 25 25 25 25 25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/lm 1 White CKET-I Soleriq S9 59.0 + 20.0° / 80.0 + 48.0° 85 % 1.8 cd/lm	25 25 25 25 25 25 25 25 25 25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/m 1 White XET-1 Soleriq S9 59.0 + 20.0° / 80.0 + 48.0° 85 % 1.8 cd/m 1 White	22. 90 90 90 90 90 90 90 90 90 90
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/m 1 White XET-1 Soleriq S9 59.0 + 20.0° / 80.0 + 48.0° 85 % 1.8 cd/m 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0 + 24.0° / 81.0 + 54.0° 83 % 1.6 cd/m 1 White XET-1 Soleriq S9 59.0 + 20.0° / 80.0 + 48.0° 85 % 1.8 cd/m 1 White	



SEOUL SEMICONDUCTOR		90°
LED	MJT COB LES 14.5	
FWHM / FWTM	58.0 + 30.0° / 84.0 + 62.0°	
Efficiency	80 %	ext. 400 - 500 - 600 - 600 - 600 - 600 - 600 - 600 - 600 - 600 - 600 - 600 - 600 - 600 - 600 - 600 - 600 - 600
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	er [*]
Required components	:	
F15859_HEKLA-SO	DCKET-I	
		1230
		»·
		137 of 197
		30 ⁴ 30 ⁴
SEOUL SEOUL SEMICONDUCTOR	MJT COB LES 9.8	
SEOUL SEMICONDUCTOR	MJT COB LES 9.8 60.0 + 22.0° / 80.0 + 51.0°	72 72
seoul semiconductor		
seoul semiconductor LED FWHM / FWTM	60.0 + 22.0° / 80.0 + 51.0°	72 72
seoul semiconductor LED FWHM / FWTM Efficiency	60.0 + 22.0° / 80.0 + 51.0° 83 %	72 72
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	60.0 + 22.0° / 80.0 + 51.0° 83 % 1.7 cd/lm	79. 60. 60.
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	60.0 + 22.0° / 80.0 + 51.0° 83 % 1.7 cd/lm 1 White	72. 62. 50.
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0 + 22.0° / 80.0 + 51.0° 83 % 1.7 cd/lm 1 White	75. 64 60 800 800 800 800 800 800 800 800 800
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	60.0 + 22.0° / 80.0 + 51.0° 83 % 1.7 cd/lm 1 White	9°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	60.0 + 22.0° / 80.0 + 51.0° 83 % 1.7 cd/lm 1 White	9°



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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