

PRODUCT DATASHEET F15560_MIRELLA-G2-W

MIRELLA-G2-W

~35° wide beam. Compatible with LEDiL HEKLA.

TECHNICAL SPECIFICATIONS:

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



MATERIAL SPECIFICATIONS:

Component MIRELLA-G2-W

Type Reflector

Material PC

Colour	Finish	Coating
metal		

ORDERING INFORMATION:

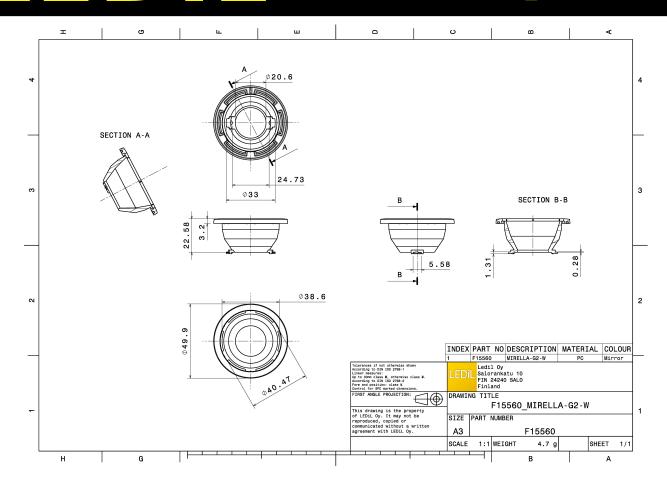
Component

F15560_MIRELLA-G2-W

» Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
336		28	3.3

PRODUCT DATASHEET F15560_MIRELLA-G2-W



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



bridgelux.			90 [,]
LED	V4 HD		73'
FWHM / FWTM	42.0° / 83.0°		
Efficiency	80 %		60° 400 60°
Peak intensity	1.2 cd/lm		
LEDs/each optic	1	Statement of the local division of the local	
Light colour	White		43°
Required compone			
F15253_HEKLA			
C13723_MIREL	LA-RZL		
			30° 220 30° 30°
bridgelux.			50* 50*
LED	V4 HD	and the second se	
FWHM / FWTM	26.0° / 78.0°		
Efficiency	89 %		60° 60°
Peak intensity	1.9 cd/lm		
LEDs/each optic	1		
Light colour	White		47° - 1230 - 43°
Required compone	ents:		
F15253_HEKLA	-SOCKET-A		1630
			30° 2000 30°
bridgelux.			90*
bridgelux. LED	V6 HD	a subscription of	<u>50*</u>
	V6 HD 43.0° / 83.0°	1000	34. 25.
LED		1000	
LED FWHM / FWTM	43.0° / 83.0°		99° 99° 75° 60° 60°
LED FWHM / FWTM Efficiency	43.0° / 83.0° 80 %		6 ³ 40 6 ³
LED FWHM / FWTM Efficiency Peak intensity	43.0° / 83.0° 80 % 1.2 cd/lm		5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents:		gr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C		5° 5° 5° 5° 5° 5° 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C		99* 99* 75* 60* 400 900 75* 900
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C		20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C		300 300 300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C		260 260 25 ⁴ 25 ⁴ 25 ⁴ 25 ⁴ 25 ⁴ 25 ⁴ 25 ⁴ 25 ⁴ 25 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C LA-RZL		360 30 ⁴ 15 ⁵ 0 ⁴ 15 ⁴ 30 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C LA-RZL		34 35 35, 36 36, 37, 36, 36, 36,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL bridgeLuX. LED FWHM / FWTM	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C LA-RZL V6 HD 32.0° / 79.0°		34 35 35, 36 36, 37, 36, 36, 36,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL bridgeLux. LED FWHM / FWTM Efficiency	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C LA-RZL V6 HD 32.0° / 79.0° 88 %		34 35 35, 36 36, 37, 36, 36, 36,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL bridgeLux. LED FWHM / FWTM Efficiency Peak intensity	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C LA-RZL V6 HD 32.0° / 79.0° 88 % 1.7 cd/lm		34 35 35, 36 36, 37, 36, 36, 36,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL bridgeLuX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C LA-RZL V6 HD 32.0° / 79.0° 88 % 1.7 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL bridgeluX LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C LA-RZL V6 HD 32.0° / 79.0° 88 % 1.7 cd/lm 1 White ents:		2. 200 304 200 304 200 304 300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C LA-RZL V6 HD 32.0° / 79.0° 88 % 1.7 cd/lm 1 White ents:		2. 200 304 200 304 200 304 300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL bridgeLux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	43.0° / 83.0° 80 % 1.2 cd/lm 1 White ents: -SOCKET-C LA-RZL V6 HD 32.0° / 79.0° 88 % 1.7 cd/lm 1 White ents:		2. 200 304 200 304 200 304 300



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13723_MIREL	-SOCKET-I	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15616_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIRELI Bender Wirth: 45	N-SOCKET-K LA-RZL	



	90° 90°
/esta DTW 13mm (21W)	
	60° - 400
	gr c
	37" 35" 15" 1900 15"
	80°
/esta DTW 9mm (4W/6W/12W)	
	73.
	gr av
	1200
	123 ⁰ 0 ⁹ 32 ³
	50 ⁺ 50 ⁺
/esta TW 13mm (25W) CSP	
	73* 200
75 %	
).9 cd/lm	
Nhite	gr
r	
-RZL	
	30° 1000 30°
	257 07 255
Тур L8	
	Vesta DTW 13mm (21W) 17.0° / 33.0° 34 % 1.1 cd/m 1 Tunable White S: OCKET-K Typ L8 Vesta DTW 9mm (4W/6W/12W) 41.0° / 79.0° 30 % 1.2 cd/lm 1 White S: OCKET-K -RZL Typ L8 Vesta TW 13mm (25W) CSP 47.0° / 86.0° 75 % 0.9 cd/lm 1 White S: OCKET-K -RZL Typ L8 Vesta TW 6mm DP 11.0° / 81.0° 75 % 1.1 cd/lm 1 White S: OCKET-K -RZL Typ L8



bridgelux.		
LED	Vesta TW 6mm DP	
FWHM / FWTM	29.0° / 75.0°	
Efficiency	83 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer		
C16142_HEKLA-		
Bender Wirth: 50		
Dender Wirth. 50		
bridgelux.		90 ⁴
LED	Vesta TW 9mm (12W) CSP	
FWHM / FWTM	34.0° / 76.0°	75.
Efficiency	88 %	
Peak intensity	1.7 cd/lm	60°
LEDs/each optic	1	
Light colour	White	gr
Required componer		
C16142_HEKLA-		
Bender Wirth: 49		
Dender Witth. 43		1690
		30°
bridgelux.		90 ⁴ 90 ²
bridgelux. LED	Vesta TW 9mm (12W) CSP	93 ³
LED	Vesta TW 9mm (12W) CSP 40.0° / 80.0°	
LED FWHM / FWTM		
LED FWHM / FWTM Efficiency	40.0° / 80.0°	20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity	40.0° / 80.0° 78 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	40.0° / 80.0° 78 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	40.0° / 80.0° 78 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA-	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K _A-RZL	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C13723_MIRELL Bender Wirth: 48	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K A-RZL 19 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C13723_MIRELL	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K A-RZL 19 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C13723_MIRELL Bender Wirth: 48	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K A-RZL 19 Typ L8	<u>84</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C13723_MIRELL Bender Wirth: 48	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K A-RZL 19 Typ L8	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C13723_MIRELL Bender Wirth: 48 CITTIZE	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K A-RZL 19 Typ L8 N CLC020 Series (Dim-To-Warm)	<u>84</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C13723_MIRELL Bender Wirth: 48 CITTIZE LED FWHM / FWTM	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K A-RZL 19 Typ L8 N CLC020 Series (Dim-To-Warm) 36.0° / 76.0°	<u>84</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C13723_MIRELL Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K A-RZL 19 Typ L8 N CLC020 Series (Dim-To-Warm) 36.0° / 76.0° 85 %	<u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na </u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C13723_MIRELL Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K A-RZL 19 Typ L8 N CLC020 Series (Dim-To-Warm) 36.0° / 76.0° 85 % 1.6 cd/lm	<u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na </u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C13723_MIRELL Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K A-RZL 19 Typ L8 N CLC020 Series (Dim-To-Warm) 36.0° / 76.0° 85 % 1.6 cd/lm 1 White	<u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C13723_MIRELL Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K A-RZL 19 Typ L8 N CLC020 Series (Dim-To-Warm) 36.0° / 76.0° 85 % 1.6 cd/lm 1 White nts:	<u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C13723_MIRELL Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K A-RZL 19 Typ L8 N CLC020 Series (Dim-To-Warm) 36.0° / 76.0° 85 % 1.6 cd/lm 1 White nts:	<u>84</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C16142_HEKLA- C13723_MIRELL Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	40.0° / 80.0° 78 % 1.2 cd/lm 1 White nts: -SOCKET-K A-RZL 19 Typ L8 N CLC020 Series (Dim-To-Warm) 36.0° / 76.0° 85 % 1.6 cd/lm 1 White nts:	<u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u> <u>Na <u>Na <u>Na</u> <u>Na</u> <u>Na</u> <u>Na</u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>



CITIZE	N	
	CLC020 Series (Dim-To-Warm)	
FWHM / FWTM	42.0° / 81.0° 77 %	
Efficiency		
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA C13723_MIREL		
Bender Wirth: 48		
		15% 0 ⁴ 15°
CITIZE	N	50 ⁺
LED	CLU025/CLU027 (LES 6)	
FWHM / FWTM	31.0° / 77.0°	
Efficiency	90 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
F15255_HEKLA	-SOCKET-C	3000
		304 200 34
		13) 0, 33,
CITIZE	N	2°* 20*
		90 ⁺ 90 ⁺
LED	CLU700/701/702	3°
LED FWHM / FWTM	CLU700/701/702 29.0° / 77.0°	30 ⁴ 30 ⁴
LED FWHM / FWTM Efficiency	CLU700/701/702 29.0° / 77.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents: -SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents: -SOCKET-C	30- 157 0- 157 - 351
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents: -SOCKET-C	30 ⁴ 35 ⁷ 0 ⁴ 35 ⁷
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents: -SOCKET-C	30 ⁴ 35 ⁷ 0 ⁴ 35 ⁷
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents: -SOCKET-C N CLU700/701/702 29.0° / 77.0° 91 %	30- 157 0- 157 - 351
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents: -SOCKET-C N CLU700/701/702 29.0° / 77.0°	30- 15- 35- 35
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	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White onts: -SOCKET-C N CLU700/701/702 29.0° / 77.0° 91 % 2 cd/lm	30- 15- 35- 35
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	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents: -SOCKET-C N CLU700/701/702 29.0° / 77.0° 91 % 2 cd/lm 1 White	30- 15- 35- 35
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	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents: -SOCKET-C	30- 15- 35- 35
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 F15255_HEKLA	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents: -SOCKET-C	30- 15- 35- 35
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	CLU700/701/702 29.0° / 77.0° 92 % 2 cd/lm 1 White ents: -SOCKET-C	30 ⁴ 35 ⁷ 0 ⁴ 35 ⁷



90*
400
800
1200
15° 1680 15° 30°
90°
$\lambda \square \lambda \setminus$
65*
1690
15° 0° 15°
90*
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000 10 ¹ 10 ¹



	C		80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA	CMA1516 40.0° / 82.0° 88 % 1.3 cd/lm 1 White ints:		
	0		10° 0° 10°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA			
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA C13333_MIREL	CXA/B 13xx 30.0° / 77.0° 92 % 1.9 cd/lm 1 White onts: -SOCKET-J		34* 34* 25* 400 36* 2259 40* 2259 40* 40* 35* 259 40* 30*
CREE LEG FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	CXA/B 13xx 32.0° / 78.0° 91 % 1.8 cd/lm 1 White ints:		x*X



	D	50 ⁴
LED	CXA/B 15xx	
FWHM / FWTM	37.0° / 79.0°	70
Efficiency	91 %	
Peak intensity	1.6 cd/lm	60 ⁻
LEDs/each optic	1	
Light colour	White	
Required compone		
F15256_HEKLA		
110200_1121(2)		
		359
		30 ⁶ 0 ⁶ 15 ⁵
	.EDS	554
LED	LUXEON CoB 1202/1203	
FWHM / FWTM	38.0° / 79.0°	
Efficiency	90 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	e.
Required compone	ents:	
F15858_HEKLA		
		304 500 3
	.EDS	50°
LED	LUXEON CoB 1202/1203	54
LED FWHM / FWTM	LUXEON CoB 1202/1203 38.0° / 79.0°	35 ⁴ 37 40
LED FWHM / FWTM Efficiency	LUXEON CoB 1202/1203 38.0° / 79.0° 90 %	55° 5 75 51 51 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents: A-SOCKET-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White Ponts: A-SOCKET-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White Ponts: A-SOCKET-H LUXEON CoB 1202HD	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents: -SOCKET-H .EDS LUXEON CoB 1202HD 33.0° / 79.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents: -SOCKET-H EDS LUXEON CoB 1202HD 33.0° / 79.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents: A-SOCKET-H LUXEON CoB 1202HD 33.0° / 79.0° 88 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents: A-SOCKET-H LUXEON CoB 1202HD 33.0° / 79.0° 88 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents: A-SOCKET-H LUXEON CoB 1202HD 33.0° / 79.0° 88 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents: A-SOCKET-H LUXEON CoB 1202HD 33.0° / 79.0° 88 % 1.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents: A-SOCKET-H LUXEON CoB 1202HD 33.0° / 79.0° 88 % 1.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents: A-SOCKET-H LUXEON CoB 1202HD 33.0° / 79.0° 88 % 1.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1202/1203 38.0° / 79.0° 90 % 1.5 cd/lm 1 White ents: A-SOCKET-H LUXEON CoB 1202HD 33.0° / 79.0° 88 % 1.6 cd/lm 1 White ents:	



LUMIL	EDS	90 ⁺
LED	LUXEON CoB 1204HD	
FWHM / FWTM	40.0° / 81.0°	75
Efficiency	89 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	er 800
Required compone		
F15858_HEKLA		
		120
		27 (P 15) 157 (P 15)
UMIL	EDS	50° 50°
LED	LUXEON CoB 1205HD	
FWHM / FWTM	44.0° / 83.0°	
Efficiency	87 %	eg - 400 - eg
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required compone	ents:	
F15858_HEKLA	-SOCKET-H	
		34* 1200
		120) 0, 130,
C LUMIL	EDS	20*
		90° 90°
LED	LUXEON CX Plus CoB - HD S01H4	2 ⁵
LED FWHM / FWTM	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0°	50° 50' 50'
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White white LA-RZL	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White white LA-RZL	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White ILA-RZL 34c Hekla	X ⁴ 120 X ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIRELI Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White I White I LA-RZL 34c Hekla	30 ⁴ 12 ⁵⁰ 15 ⁵ 3 ⁶
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIRELI Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White ILA-RZL 34c Hekla	30 ⁴ 12 ⁵⁰ 15 ⁵ 3 ⁶
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIRELI Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4	30 ⁴ 12 ⁵⁰ 15 ⁵ 3 ⁶
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIRELI Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White mts: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 28.0° / 77.0° 84 %	30 ⁴ 12 ⁵⁰ 15 ⁵ 3 ⁶
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIRELI Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White Ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 28.0° / 77.0°	30 ⁴ 12 ⁵⁰ 15 ⁵ 3 ⁶
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIRELI Bender Wirth: 63	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White Ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 28.0° / 77.0° 84 % 1.8 cd/lm	30 ⁴ 12 ⁵⁰ 15 ⁵ 3 ⁶
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIRELI Bender Wirth: 63 COMPARENTION Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White Ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 28.0° / 77.0° 84 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIRELI Bender Wirth: 63 COMPUTE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 28.0° / 77.0° 84 % 1.8 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIRELI Bender Wirth: 63 COMPARENTION Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 28.0° / 77.0° 84 % 1.8 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIRELI Bender Wirth: 63 COMPARENTIAL ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB - HD S01H4 42.0° / 82.0° 76 % 1.1 cd/lm 1 White ints: LA-RZL 34c Hekla EDS LUXEON CX Plus CoB - HD S01H4 28.0° / 77.0° 84 % 1.8 cd/lm 1 White ints:	



	EDS	90* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 42.0° / 81.0° 77 % 1.2 cd/lm 1 White ents: LA-RZL	30 0 US 25 0 0 US 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	EDS	90* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 29.0° / 77.0° 84 % 1.8 cd/lm 1 White ents:	25°
	FDS	00 ⁴ 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6	LUXEON CX Plus CoB - HD S04H9 46.0° / 84.0° 78 % 1.1 cd/lm 1 White ents: LA-RZL 34c Hekla	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB - HD S04H9 38.0° / 80.0° 85 % 1.4 cd/lm 1 White ents:	



	EDS	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13723_MIREL Bender Wirth: 6	LUXEON CX Plus CoB L04 / L05 (Gen2) 48.0° / 87.0° 75 % 1 cd/lm 1 White ents: LA-RZL	
		50° 50'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6		
	.EDS	20 ⁵ 6 ⁴ 20 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB M02 / M03 (Gen2) 36.0° / 79.0° 84 % 1.4 cd/lm 1 White ents:	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	EDS LUXEON CX Plus CoB M02 / M03 (Gen2) 45.0° / 84.0° 75 % 1 cd/lm 1	90 ⁴ 90 71 ⁴ 40 90
Light colour Required compone C13723_MIREL Bender Wirth: 6	White ents: LA-RZL	



🤭 LUMIL	EDS	90 ⁴
LED	LUXEON CX Plus CoB S01 (Gen2)	
FWHM / FWTM	28.0° / 77.0°	
Efficiency	84 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
Bender Wirth: 6	34c Hekla	
		300
		30°
🖉 LUMIL	.EDS	50°
LED	LUXEON CX Plus CoB S01 (Gen2)	
FWHM / FWTM	41.0° / 82.0°	70
Efficiency	76 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	g
Required compone	ents:	
C13723_MIREL	LA-RZL	
Bender Wirth: 6	34c Hekla	\times / \times / \times
		304 200
(Calum	INUS	30° 150 157 0° 155
		30° 137 0° 137
LED	CDM-6 (Dim-To-Warm) 39.0° / 81.0°	30 ² 120 120 0 ⁴ 127
LED FWHM / FWTM	CDM-6 (Dim-To-Warm)	30 ⁴ 150 40 ⁴ 157 90 ⁴
LED FWHM / FWTM Efficiency	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 %	
LED FWHM / FWTM Efficiency Peak intensity	CDM-6 (Dim-To-Warm) 39.0° / 81.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/Im	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K	
	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K _LA-RZL	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K _LA-RZL 90 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K LLA-RZL 90 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K _LA-RZL 90 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K LLA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K LLA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 30.0° / 76.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K LLA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 30.0° / 76.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K LLA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 30.0° / 76.0° 84 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 C13723_MIREL Bender Wirth: 4 C13723_MIREL C13723_	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K LLA-RZL 900 Typ L8 INUS CDM-6 (Dim-To-Warm) 30.0° / 76.0° 84 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 C13723_MIREL Bender Wirth: 4 C13723_MIREL C13723_MI	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K LLA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 30.0° / 76.0° 84 % 1.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 C13723_MIREL Bender Wirth: 4 C13723_MIREL Bender Wirth: 4 C16142_HEKL/ C16142_HEKL/	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K LA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 30.0° / 76.0° 84 % 1.8 cd/lm 1 White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 C13723_MIREL Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour Required compone	CDM-6 (Dim-To-Warm) 39.0° / 81.0° 76 % 1.2 cd/lm 1 White ents: A-SOCKET-K LLA-RZL 90 Typ L8 INUS CDM-6 (Dim-To-Warm) 30.0° / 76.0° 84 % 1.8 cd/lm 1 White ents: A-SOCKET-K	



ELUM	INUS	59*	90*
LED	CDM-9 (Dim-To-Warm)		
FWHM / FWTM	42.0° / 82.0°	73	
Efficiency	75 %		
Peak intensity	1.1 cd/lm		400
LEDs/each optic	1		
Light colour	White	a.	47
Required compone	ents:		800
C16142_HEKLA			
C13723_MIREL			
Bender Wirth: 4	90 Typ L8	345	1200 15* 36*
() LUM	INUS	90°	90*
LED	CDM-9 (Dim-To-Warm)		
FWHM / FWTM	35.0° / 78.0°	73	
Efficiency	83 %	er l	400
Peak intensity	1.5 cd/lm		
LEDs/each optic	1		200
Light colour	White	9	45*
Required compone	ents:		
C16142_HEKLA	A-SOCKET-K		1230
Bender Wirth: 4	90 Typ L8		
		700 000	1630 100 30°
ELUM	INUS	50*	90°
		3 9*	30'
LED	CTM-9 (Tunable White) 43.0° / 82.0°	39*	
LED FWHM / FWTM	CTM-9 (Tunable White)	35-	99 22
LED FWHM / FWTM Efficiency	CTM-9 (Tunable White) 43.0° / 82.0°	94 ⁴	400
LED FWHM / FWTM Efficiency	CTM-9 (Tunable White) 43.0° / 82.0° 75 %	54 ⁴ 75 56 ⁴	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm	55 ⁴ 55 ⁴ 57	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White	55°	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents:	59 ⁴ 75 75 77	. 60 . 60 . 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K	55 ⁴ 55 ⁴ 57	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K LA-RZL	39 ⁴ 75 75 75 75 75 75 75 75 75 75 75 75 75	997 100 100 100 100 100 100 100 100 100 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 41.0° / 82.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4'	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 41.0° / 82.0° 79 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4'	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 41.0° / 82.0° 79 % 1.2 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 C13723_MIREL Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 41.0° / 82.0° 79 % 1.2 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL Bender Wirth: 4	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 41.0° / 82.0° 79 % 1.2 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ C13723_MIREL Bender Wirth: 4 C13723_MIREL Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 41.0° / 82.0° 79 % 1.2 cd/lm 1 White ents: A-SOCKET-C		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 C13723_MIREL Bender Wirth: 4: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CTM-9 (Tunable White) 43.0° / 82.0° 75 % 1.1 cd/lm 1 White ents: A-SOCKET-K LA-RZL 95 Typ L8 INUS CXM-4 41.0° / 82.0° 79 % 1.2 cd/lm 1 White ents: A-SOCKET-C		



	NUS		90* 90*
LED	CXM-4	and the second se	
FWHM / FWTM	26.0° / 77.0°		73
Efficiency	88 %		
Peak intensity	2 cd/lm		60° 60°
LEDs/each optic	1		
Light colour	' White		45*
Required component			
F15255_HEKLA			1600
110200_1121(2)			
			30° 30° 30° 30°
	NUS		90 ⁴ 90 ⁴
LED	CxM-9 (13.5x13.5)		
FWHM / FWTM	40.0° / 81.0°		
Efficiency	89 %		60 ⁴
Peak intensity	1.4 cd/lm		$r \times / $
LEDs/each optic	1		
Light colour	White		45* 45*
Required compone	nts:		
F15255_HEKLA			
			1230
			30* 30*
			15 ³ 0 ⁶ 15 ³
			90°
LED	NJCWL024Z-V1MT: COB L-Type Tunable White		39 ⁴ 39 ⁵
LED FWHM / FWTM	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0°		3 ³ 3 ³
LED FWHM / FWTM Efficiency	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 %		01 00 00 26 25 26 25 26 25
LED FWHM / FWTM Efficiency Peak intensity	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm		661 602 60 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White		a. 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White hts:		94 94 95 96 96 96 96 96 96 96 96 96 96 97 96
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White hts: -SOCKET-K		60 60 60 60 60 60 60 60 60 60 60 60 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C13723_MIRELI	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White hts: -SOCKET-K _A-RZL		g. g. by by by by by by by by by by by by by
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White hts: -SOCKET-K _A-RZL		20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C13723_MIRELI	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White nts: -SOCKET-K _A-RZL 7 Typ L8		30, 32, 10, 22, 34, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00, 00,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C13723_MIRELI Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White nts: -SOCKET-K _A-RZL 7 Typ L8		15, 120 15,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C13723_MIRELI Bender Wirth: 4S	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White hts: -SOCKET-K A-RZL 7 Typ L8		15, 120 15,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C13723_MIRELI Bender Wirth: 49	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White nts: -SOCKET-K A-RZL 7 Typ L8		12) 12) 12) 12) 12) 12) 12) 12)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C13723_MIRELI Bender Wirth: 4S	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White nts: -SOCKET-K _A-RZL 7 Typ L8		12) 12) 12) 12) 12) 12) 12) 12)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C13723_MIRELI Bender Wirth: 49 MICHIA LED FWHM / FWTM Efficiency Peak intensity	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White hts: -SOCKET-K A-RZL 7 Typ L8		34 35 137 130 137 130 137 130 137 137 137 137 137 137 137 137
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C13723_MIRELI Bender Wirth: 49 WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White nts: SOCKET-K A-RZL 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 30.0° / 76.0° 83 % 1.7 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C13723_MIRELI Bender Wirth: 49 WICHIA Efficiency Peak intensity LEDs/each optic Light colour	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White nts: -SOCKET-K A-RZL 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 30.0° / 76.0° 83 % 1.7 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C13723_MIRELI Bender Wirth: 49 WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White nts: SOCKET-K A-RZL 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 30.0° / 76.0° 83 % 1.7 cd/lm 1 White nts:		2. 60. 60. 60. 60. 60. 60. 60. 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C13723_MIRELI Bender Wirth: 49 WICHIA Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White nts: SOCKET-K A-RZL 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 30.0° / 76.0° 83 % 1.7 cd/lm 1 White nts: -SOCKET-K		a. 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA C13723_MIRELI Bender Wirth: 49 WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NJCWL024Z-V1MT: COB L-Type Tunable White 41.0° / 81.0° 74 % 1.1 cd/lm 1 White nts: SOCKET-K A-RZL 7 Typ L8 NJCWL024Z-V1MT: COB L-Type Tunable White 30.0° / 76.0° 83 % 1.7 cd/lm 1 White nts: -SOCKET-K		a. 60. 60. 60. 60. 60. 60. 60. 60



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA C13723_MIREL	NVCWJ024Z-V1MT: COB J-Type Tunable White 45.0° / 85.0° 74 % 1 cd/lm 1 White ents: A-SOCKET-K		90°
Bender Wirth: 4	98 Typ L8		30° 30° 30°
	NVCWJ024Z-V1MT: COB J-Type Tunable White	and the second se	90 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 43	39.0° / 79.0° 84 % 1.3 cd/lm 1 White ents: A-SOCKET-K		22 27 27 27 27 27 27 27 27 27
OSRAM Opto Semiconductors			90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA			27 0° 17 0°
OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C12479_MIREL	-SOCKET-C		



PHILIF	S	30 ⁴
LED	Fortimo SLM L09 CoB	
FWHM / FWTM	46.0° / 85.0°	75
Efficiency	79 %	
Peak intensity	1.1 cd/lm	69 ¹²
LEDs/each optic	1	
Light colour	White	a, a,
Required compone	nts:	
F15858_HEKLA		
C13723_MIREL	LA-RZL	
		30' 0' 30'
PHILIP	S	94* 24 [*]
LED	Fortimo SLM L09 CoB	
FWHM / FWTM	39.0° / 81.0°	
Efficiency	88 %	
Peak intensity	1.4 cd/lm	90 ⁺⁻
LEDs/each optic	1	
Light colour	White	gr <u>80</u> gr
Required compone		
F15858_HEKLA		
		220
PHILIF	S	50° 50°
LED	Fortimo SLM L13 CoB	
FWHM / FWTM	47.0° / 82.0°	20
Efficiency	83 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr dr
Required compone	nts:	
C16142_HEKLA	-SOCKET-K	
Bender Wirth: 43	32 Typ L8	
		30. 34
PHILIP	20	15%
LED	Fortimo SLM L13 CoB	
FWHM / FWTM	47.0° / 83.0°	
Efficiency	83 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA	-SOCKET-K	
	-SOCKET-K	
C16142_HEKLA	-SOCKET-K	



PHILIF	S	
LED	Fortimo SLM L13 CoB	
FWHM / FWTM	49.0° / 87.0°	
Efficiency	77 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C16142_HEKLA		
C13723_MIREL	LA-RZL	
Bender Wirth: 43	32 Typ L8	
PHILIF	S	<u></u>
LED	Fortimo SLM L13 CoB	
FWHM / FWTM	49.0° / 86.0°	37
Efficiency	77 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	g, g, g,
Required compone	ents:	
C16142_HEKLA	A-SOCKET-K	
C13723_MIREL	LA-RZL	
Bender Wirth: 43	32 Typ L8	200 200 100 200 Xie
S ΛΜSI	JNG	90 ⁴
LED	LC010C G2	
FWHM / FWTM	29.0° / 78.0°	
Efficiency	88 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	g
Required compone	ents:	
F15255_HEKLA	-SOCKET-C	
		200
		345 305 306 327 34
SAMSI	JNG	
LED	LC010T (Tunable White)	
FWHM / FWTM	37.0° / 75.0°	
Efficiency	79 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	gy (0,0)
Required compone		
C16142_HEKLA		
C14658_BARBA		
Bender Wirth: 50		
		2 ⁴⁷ 15 ⁴ 0 ⁴ 15 ⁴



LED LC0107 (Turable While) FMH/I /FWT 85 07 /77 0° Efficiency 84 % Peak intensity 1.4 dd/m LEDbreach optic 1 Light colour Turable While Required components: C16142 /HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 SAMSUNC LED LC0169 / LC026D / LC033D FWMA /FWTM 53.0° / 87.0° Efficiency 79 % Peak intensity 0.9 dd/m LEDbreach optic 1 C12479_MIRELLA-DL SAMSUNC SAMSUNC LED LC016D / LC016D / LC033D FWMA /FWTM 52.0° / 85.0° Efficiency 77 % Peak intensity 1.1 dd/m LEDbreach optic 1 SAMSUNC ELD LC016D / LC016D / LC033D FWMA /FWTM 52.0° / 85.0° Efficiency 77 % Peak intensity 0.9 dd/m LEDbreach optic 1 LED LC016D / LC016D / LC033D FWMA /FWTM 52.0° / 85.0° Efficiency 77 % Peak intensity 0.9 dd/m LEDbreach optic 1 LED LC016D / LC016D / LC033D FWMA /FWTM 52.0° / 85.0° Efficiency 77 % Peak intensity 0.9 dd/m	SAMS	UNG	90 ⁹
PWHAI / PWTM 33.07 / 77.0° Eliciancy 84 % Peak intensity / 4.od/m LED%acht optic 1 LED%acht optic	LED		
Peak Intensity 1.4 colim LEDWaedwindter Contract_HetA_SOCKET-K Bender Winh: Soil Typ L8 SAMS SUNC LED LCO18D / LCO28D / LCO23D FWMA / FWTM 53.07 / 87.0° Efficiency 79 % Peak Intensity 0.9 colim LEDWaedwindter Contract_HetA_SOCKET-1 C12479_MIRELLA-BCL EDBeedwindter 1 Light colour White Required components: F1589_HEKLA-SOCKET-1 C12479_MIRELLA-BCL EDBeedwindter 1 Light colour White Required components: F1589_HEKLA-SOCKET-1 C12479_MIRELA-BCL EDBeedwindter 1 Light colour White Required components: F1589_HEKLA-SOCKET-1 C12479_MIRELA-BCL EDBeedwindter 1 Light colour White Required components: F1589_HEKLA-SOCKET-1 C12479_MIRELA-BCL EDBeedwindter 1 Light colour White Required components: F1589_HEKLA-SOCKET-1	FWHM / FWTM		
LEDPleach optic 1 Light clour Turable White Required components: C16142_HEKLASOCKET-K Bender With: Sol Typ LB SAMS SUNC LED LCO16D / LCO26D / LCO23D FWMA / FVTM 53.0° / 87.0° Efficiency 79 % Peak Intensity 0.9 cd/m LEDPleach optic 1 L15459_HEKLASOCKET-1 C12479_MIRELLA-DL SAMS SUNC LED LCO16D / LCO16D / LCO26D / LCO23D FWMA / FVTM 52.0° / 85.0° Efficiency 87 % Peak Intensity 11 cd/m LEDPleach optic 1 Light colour White Required components: F15559_HEKLASOCKET-1 C12479_MERLLA-DL SAMS SUNC Efficiency 77 % Peak Intensity 0.9 cd/m LEDPleach optic 1 Light colour White Required components: F15559_HEKLASOCKET-1 F15559_HEKLASOCKET-1	Efficiency	84 %	
Light colour Turable While Regulard components: C 1514.2_FEKLASOCKET-K Bender With: 501 Typ L8 SAMS UNC LED LCO 169 / LCO 169 / LCO 260 / LCO 30 FWHM / FWTM Regulard components: F1589.JEKLASOCKET-I C12479_MRELLASOCKET-I ElD ELD ELD ELD ED ELD ELD ED ELD EL	Peak intensity	1.4 cd/lm	
Required components: C16142_HEKLA-SOCKET-I Ender Wirth: 501 Typ L3 SAMSUNG LED LC0169 / LC019D / LC026D / LC033D FWHM / FWTM 53.0° / 87.0° Elfoloncy 79 % Peak Intensity 0.9 cdt/m LEDweach optic 1 Light colour White Required components: F16809_HEKLA-SOCKET-I C13729_MIRELLA-SOCKET-I Elfoloncy 87 % Peak Intensity 1.1 cd/m LEDweach optic 1 Light colour White Required components: F16809_HEKLA-SOCKET-I C13723_HEKLA-SOCKET-I C13723_MIRELLA-SOCKET-I C13723_MIRELLA-SOCKET-I	LEDs/each optic	1	
Required components: C16142_HEKLA-SOCKET-I Ender Wirth: 501 Typ L3 SAMSUNG LED LC0169 / LC019D / LC026D / LC033D FWHM / FWTM 53.0° / 87.0° Elfoloncy 79 % Peak Intensity 0.9 cdt/m LEDweach optic 1 Light colour White Required components: F16809_HEKLA-SOCKET-I C13729_MIRELLA-SOCKET-I Elfoloncy 87 % Peak Intensity 1.1 cd/m LEDweach optic 1 Light colour White Required components: F16809_HEKLA-SOCKET-I C13723_HEKLA-SOCKET-I C13723_MIRELLA-SOCKET-I C13723_MIRELLA-SOCKET-I	-	Tunable White	e ^r
CI6142_HERLA-SOCKET-K Bender Wirht: 501 Typ L3 SAMUS UNG LED LD CO169 / LC0190 / LC0280 / LC0330 FWHM / FWTM 53.0° / 87.0° EHidency 79 % Peak Intensity 0.9 colin LEDPeach optic 1 Light colour White Required components: F15859_HERLA-SOCKET-1 C12479_MIRELLA-SOCKET-1 C12479_MIRELA-SOCKET-1 EDBeach optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C12479_MIRELA-SOCKET-1		ents:	
Bender Wirth: 501 Typ L3	C16142_HEKLA	A-SOCKET-K	
LED LC018D / LC019D / LC028D / LC033D FWHM / FWTM 50.0° / 87.0° Efficiency 79 % Peak intensity 0.9 cd/m LEDS/each optic 1 LEDS/each optic 1 C12479_MIRELLA-DL SAMSUNG LED LC016D / LC026D / LC033D FWHM / FWTM 52.0° / 85.0° Efficiency 87 % Peak intensity 1.1 cd/m LEDS/each optic 1 Llght colour White Required components: F15859_HEKLA-SOCKET-I C1273_MIRELLA-RZL	Bender Wirth: 5	01 Typ L8	
LED LC018D / LC019D / LC028D / LC033D FWHM / FWTM 50.0° / 87.0° Efficiency 79 % Peak intensity 0.9 cd/m LEDS/each optic 1 LEDS/each optic 1 C12479_MIRELLA-DL SAMSUNG LED LC016D / LC026D / LC033D FWHM / FWTM 52.0° / 85.0° Efficiency 87 % Peak intensity 1.1 cd/m LEDS/each optic 1 Llght colour White Required components: F15859_HEKLA-SOCKET-I C1273_MIRELLA-RZL			30 ¹ 30 0 ¹
LED LC018D / LC019D / LC028D / LC033D FWHM / FWTM 50.0° / 87.0° Efficiency 79 % Peak intensity 0.9 cd/m LEDS/each optic 1 LEDS/each optic 1 C12479_MIRELLA-DL SAMSUNG LED LC016D / LC026D / LC033D FWHM / FWTM 52.0° / 85.0° Efficiency 87 % Peak intensity 1.1 cd/m LEDS/each optic 1 Llght colour White Required components: F15859_HEKLA-SOCKET-I C1273_MIRELLA-RZL	SAMS	UNG	Ne second
FWHM / FWTM 53.0° / 87.0° Hiciancy 79 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C12479_MIRELLA-DL SAMMSUNG LED LCO16D / LC019D / LC026D / LC033D FWHM / FWTM 52.0° / 85.0° Efficiency 87 % Peak intensity 1.1 cd/lm LEDs/each optic 1 LEDs/each optic 1 LEDs/eac	LED		
Efficiency 79 % Peak intensity 0.9 collin LEDb/each optic 1 Light colour White Raquied components: F15859_HEKLA-SOCKET-I C12479_MIRELLA-DL SAMSUNG Public for 1 Light colour White Required components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	FWHM / FWTM		20 200
Peak intensity 0.9 cd/lm LEDS/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C12479_MIRELLA-DL	Efficiency		
Light colour White Required components: P18859_HEKLA-SOCKET-I C12479_MIRELLA-DL SAMSSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 52.0° / 85.0° Efficiency 87 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: P15859_HEKLA-SOCKET-I Efficiency 7 % Peak intensity 0.9 cd/m LEDs/each optic 1 Light colour Mine Required components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	Peak intensity	0.9 cd/lm	
Required components: F15859_HEKLA-SOCKET-I C12479_MIRELLA-DL SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 52.0° / B5.0° Efficiency 87 % Peak intensity 1.1 cd/m LEDS/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-R2L F15859_HEKLA-SOCKET-I	LEDs/each optic	1	
F15859_HEKLA-SOCKET-I C12479_MIRELLA-DL SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 52.0° / 85.0° Efficiency 87 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I Efficiency 77 % Peak intensity 0.9 cd/m LED by components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	Light colour	White	er de la companya de
F15859_HEKLA-SOCKET-I C12479_MIRELLA-DL SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 52.0° / 85.0° Efficiency 87 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I Efficiency 77 % Peak intensity 0.9 cd/m LED by components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	Required compone	ents:	
SAMSUNG LED LC016D/LC019D/LC026D/LC033D FWHM/FWTM 52.0°/85.0° Efficiency 87 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 Efficiency 77 % Peak intensity 0.9 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C13723_MIRELLA-RZL			
LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 52.0° / 85.0° Efficiency 87 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C13723_MIRELLA-RZL	C12479_MIREL	LA-DL	
LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 52.0° / 85.0° Efficiency 87 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C13723_MIRELLA-RZL			20" 20" 30 th
LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 52.0° / 85.0° Efficiency 87 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C13723_MIRELLA-RZL			
FWHM / FWTM 52.0° / 85.0° Efficiency 87 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C13723_MIRELLA-RZL	SAMSU	JNG	90°
Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 51.0° / 90.0° Efficiency 77 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C13723_MIRELLA-RZL			91 ⁴ 9
LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 51.0° / 90.0° Efficiency 77 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	LED	LC016D / LC019D / LC026D / LC033D	
Light colour White Required components: F15859_HEKLA-SOCKET-1	LED FWHM / FWTM	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0°	
Required components: F15859_HEKLA-SOCKET-I SAMSSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 51.0° / 90.0° Efficiency 77 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 %	
F15859_HEKLA-SOCKET-I Clarce Components: F15859_HEKLA-SOCKET-I Clarce Components: F15859_HEKLA-SOCKET-I Clarce Components: F15859_HEKLA-RZL	LED FWHM / FWTM Efficiency Peak intensity	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm	90 ⁴ 9 77 60 ⁴ 40
SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 51.0° / 90.0° Efficiency 77 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1	
SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 51.0° / 90.0° Efficiency 77 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White	
SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 51.0° / 90.0° Efficiency 77 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents:	
LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 51.0° / 90.0° Efficiency 77 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents:	
FWHM / FWTM 51.0° / 90.0° Efficiency 77 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents:	
Efficiency 77 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents: A-SOCKET-I	20 ⁴ 30 ⁴ 30 ⁴
Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-1 C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents: SOCKET-I	24 ⁴ 35 ⁶ 5 ⁵ 5
LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents: SOCKET-I	20 ⁴ 30 ⁴ 30 ⁴
Light colour White Required components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents: SOCKET-I UNG LC016D / LC019D / LC026D / LC033D 51.0° / 90.0°	24 ⁴ 35 ⁶ 5 ⁵ 5
Light colour White Required components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA SAMSI LED FWHM / FWTM	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents: -SOCKET-I UNG LC016D / LC019D / LC026D / LC033D 51.0° / 90.0° 77 %	24 ⁴ 35 ⁶ 5 ⁵ 5
Required components: F15859_HEKLA-SOCKET-I C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents: A-SOCKET-I UNG LC016D / LC019D / LC026D / LC033D 51.0° / 90.0° 77 % 0.9 cd/lm	24° 20° 48° 10° 20°
C13723_MIRELLA-RZL	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents: A-SOCKET-I UNC LC016D / LC019D / LC026D / LC033D 51.0° / 90.0° 77 % 0.9 cd/lm 1	24° 20° 48° 10° 20°
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents: X-SOCKET-I UNC LC016D / LC019D / LC026D / LC033D 51.0° / 90.0° 77 % 0.9 cd/lm 1 White	24° 20° 48° 10° 20°
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents: SOCKET-I UNC LC016D / LC019D / LC026D / LC033D 51.0° / 90.0° 77 % 0.9 cd/lm 1 White ents:	24° 20° 48° 10° 20°
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	LC016D / LC019D / LC026D / LC033D 52.0° / 85.0° 87 % 1.1 cd/lm 1 White ents: A-SOCKET-I UNC LC016D / LC019D / LC026D / LC033D 51.0° / 90.0° 77 % 0.9 cd/lm 1 White ents: -SOCKET-I	24° 20° 48° 10° 20°



SAMS		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA C13333_MIREL	LC016D / LC019D / LC026D / LC033D 53.0° / 83.0° 82 % 1 cd/lm 1 White ents: A-SOCKET-I	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15848_HEKLA	LC020C 36.0° / 79.0° 90 % 1.6 cd/lm 1 White ents:	
SAMS	UNG	20° 0° 25' 0° 25'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	A-SOCKET-I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL	SLE G7 LES09 46.0° / 85.0° 82 % 1.1 cd/lm 1 White ents: A-SOCKET-C	



TRIDON	VIC	90* 90
LED	SLE G7 LES09	75
FWHM / FWTM	38.0° / 80.0°	
Efficiency	90 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	* / /
Required compone	ents:	
F15255_HEKLA	A-SOCKET-C	1200
		30° 150 1660 13°
TRIDO		90° 9
LED	SLE G7 LES13	
EED FWHM / FWTM	50.0° / 88.0°	73'
Efficiency	77 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15859_HEKLA		
C13723_MIREL		
010720_0000		
		36° 30 15° 280 15°
TRIDON	VIC	90* 90
LED	SLE G7 LES13	
	48.0° / 84.0°	75 75
	40.0 / 04.0	
	86 %	
Efficiency		e ^r
Efficiency Peak intensity	86 %	5 ⁴ - 400 - 500
Efficiency Peak intensity LEDs/each optic	86 % 1.1 cd/lm	5 ⁴ - 40 - 60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	86 % 1.1 cd/lm 1 White	0 ⁴ 40 0
Efficiency Peak intensity LEDs/each optic Light colour	86 % 1.1 cd/lm 1 White ents:	0 ⁵ 00 00 00 00 00 00 00 00 00 00 00 00 00
Efficiency Peak intensity LEDs/each optic Light colour Required component	86 % 1.1 cd/lm 1 White ents:	0 ⁴ 0 ⁴ 0 ⁴ 0 ⁴
Efficiency Peak intensity LEDs/each optic Light colour Required component	86 % 1.1 cd/lm 1 White ents:	20 ¹⁰
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	86 % 1.1 cd/lm 1 White ents: A-SOCKET-I	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	86 % 1.1 cd/lm 1 White ents: A-SOCKET-I	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	86 % 1.1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	86 % 1.1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 51.0° / 89.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency	86 % 1.1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 51.0° / 89.0° 78 %	25°
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity	86 % 1.1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 51.0° / 89.0° 78 % 0.9 cd/lm	25°
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	86 % 1.1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 51.0° / 89.0° 78 % 0.9 cd/lm 1	20 20 20 20 20 20 20 20 20 20
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86 % 1.1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 51.0° / 89.0° 78 % 0.9 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	86 % 1.1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 51.0° / 89.0° 78 % 0.9 cd/lm 1 White ents:	20 20 20 20 20 20 20 20 20 20
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	86 % 1.1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 51.0° / 89.0° 78 % 0.9 cd/lm 1 White ents: A-SOCKET-I	20 20 20 20 20 20 20 20 20 20
Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	86 % 1.1 cd/lm 1 White ents: A-SOCKET-I XOB 14.5 mm 51.0° / 89.0° 78 % 0.9 cd/lm 1 White ents: A-SOCKET-I	



XICATO	0		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	XOB 14.5 mm 52.0° / 86.0° 86 % 1.1 cd/lm 1 White ents:		25 67 67 67 67 60 60
XICATO	0	-	84, 95, 95, 95, 73, 64, 732, 96, 732, 96,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA			20 00 00 00 00 00 00 00 00 00
XICATO	`		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL	XOB 6 mm 44.0° / 84.0° 78 % 1.1 cd/lm 1 White ents: A-SOCKET-C		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA C13723_MIREL	XOB 9.8 mm 47.0° / 85.0° 80 % 1.1 cd/lm 1 White ents: A-SOCKET-C		24°



XICATO			90°
LED	XOB 9.8 mm		-
FWHM / FWTM	39.0° / 81.0°		10
Efficiency	88 %		60*
Peak intensity	1.4 cd/lm		
LEDs/each optic	1		\mathbf{i}
Light colour	White	gr ²	45°
Required compone	nts:		
F15255_HEKLA	-SOCKET-C	120	$\langle \cdot \rangle$
C13723_MIREL	LA-RZL		$\langle \cdot \rangle$
			30.0
1		127 04 129	<



PHOTOMETRIC DATA (SIMULATED):

bridgelux.		50*
LED	VERO13	
FWHM / FWTM	39.0° / 75.0°	27
Efficiency	87 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components		2200 A
C16142_HEKLA-S	OCKET-K	
		30 ¹⁰ 1500 30 50 ¹⁰ 00 ² 50 ¹⁰
CITIZEN	J	
		90 th 90
LED	CLL02x/CLU02x (LES10)	72
FWHM / FWTM	37.2° / 76.7°	40
Efficiency	88 %	50° 60
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	9 ⁻
Required components	5:	
F15255_HEKLA-S	OCKET-C	
		1000
		30°
Μ ΝΙCΗΙΛ		<u>90*</u>
LED	COB L-Type (LES 11)	90* 92 25
LED FWHM / FWTM	42.0° / 78.0°	9x*
LED FWHM / FWTM Efficiency	42.0° / 78.0° 90 %	9°
LED FWHM / FWTM Efficiency Peak intensity	42.0° / 78.0° 90 % 1.5 cd/lm	91 ⁴ 90 21 61 61 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	42.0° / 78.0° 90 % 1.5 cd/lm 1	50 ⁴ 50 73 ⁴ 400 69 ⁶ 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	42.0° / 78.0° 90 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-St	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-St	42.0° / 78.0° 90 % 1.5 cd/lm 1 White s: OCKET-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-St	42.0° / 78.0° 90 % 1.5 cd/lm 1 White 5: OCKET-H COB T-Type	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-Si	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S: OCKET-H COB T-Type 30.0° / 75.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-Si	42.0° / 78.0° 90 % 1.5 cd/lm 1 White 5: OCKET-H COB T-Type 30.0° / 75.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-St State of the state of the st	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S: OCKET-H COB T-Type 30.0° / 75.0° 88 % 2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-St ENTENTIAL FUNDATION LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S: OCKET-H COB T-Type 30.0° / 75.0° 88 % 2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-St F15858_HEKLA-St FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S: OCKET-H COB T-Type 30.0° / 75.0° 88 % 2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-S WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S: OCKET-H COB T-Type 30.0° / 75.0° 88 % 2 cd/lm 1 White S:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-St F15858_HEKLA-St FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S: OCKET-H COB T-Type 30.0° / 75.0° 88 % 2 cd/lm 1 White S:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-S WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S: OCKET-H COB T-Type 30.0° / 75.0° 88 % 2 cd/lm 1 White S:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components F15858_HEKLA-S WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	42.0° / 78.0° 90 % 1.5 cd/lm 1 White S: OCKET-H COB T-Type 30.0° / 75.0° 88 % 2 cd/lm 1 White S:	



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.

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