

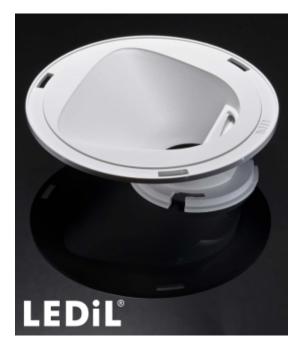
PRODUCT DATASHEET C13101_LENA-X-WAS

LENA-X-WAS

White version with asymmetric beam for wall-washing

SPECIFICATION:

Dimensions	Ø 111.0 mm
Height	32.6 mm
Fastening	glue
ROHS compliant	yes 🛈



MATERIALS:

» Box size: 480 x 280 x 300 mm

Component LENA-X-WAS	Type Reflector	Material HRPC	Colour white	F	Finish	Coating
ORDERING INFORMAT	ION:					
Component C13101_LENA-X-WAS			Qty in box 56	MOQ 56	MPQ 56	Box weight (kg) 3.2





Drigotul LED BXRA ES Retungie PMM / FWM Asymmetric Endemoy 77% Peak intensity 0.5 cd/m LED Resh pdie 1 LeD BXRA ES Rectangie PMM / FWTM Asymmetric Efficiency 81% LED BXRA ES Rectangie PMM / FWTM Asymmetric Efficiency 81% Required components: C12123 LENA STD-BASE BXRA C11299 LENA LENS PMM / FWTM Asymmetric ED BXRA ES PMM / FWTM Asymmetric Efficiency 83% Peak intensity 0.5 cd/m LED BXRA ES FWM / FWTM Asymmetric C1223 LENA STD-BASE RS C11299 LENA LENS PMM / FWTM Asymmetric Efficiency 87% Peak intensity 0.5 cd/m LED BXRA ES FWM / FWTM Asymmetric C1223 LENA STD-BASE RS C11299 LENA LENS PMM / FWTM Asymmetric Efficiency 87% Peak intensity 0.5 cd/m LED BXRA ES FWM / FWTM Asymmetric Efficiency 87% Peak intensity 0.5 cd/m LED BXRA ES FWM / FWTM Asymmetric Efficiency 87% Peak intensity 0.5 cd/m LED BXRA ES FWM / FWTM Asymmetric Efficiency 87% Peak intensity 0.5 cd/m LED BXRA ES FWM / FWTM Asymmetric Efficiency 87% Peak intensity 0.5 cd/m LED BXRA ES FWM / FWTM Asymmetric Efficiency 87% Peak intensity 0.5 cd/m LED BXRA ES FWM / FWTM Asymmetric Efficiency 87% Peak intensity 0.5 cd/m LED BXRA ES FWM / FWTM Asymmetric Efficiency 87% Peak intensity 0.5 cd/m LED BXRA ES FWM / FWTM Asymmetric Efficiency 87% Peak intensity 0.5 cd/m LED BXRA ES FWM / FWTM Asymmetric Efficiency 87% PEAK INTENSITY ASYM ASYM ASYM ASYM ASYM ASYM ASYM ASY			
FWHM / WTM Asymatric Efficiency 7% Peak intensity 0.5 cd/m LEDseech pate 1 LEDsech pate 1 LEDSech pate 1 LEDS EXA ES Rectangle FWHM // FVTM Strates FWHM // SVTM Strates LED BXRA ES Rectangle FWHM // SVTM Strates FWHM // SVTM Strates LED BXRA ES Rectangle FWHM // SVTM Strates FWHM // SVTM Strates LeD BXRA ES Rectangle FWHM // SVTM Strates LeD strates Image: Strates Childpool Strates LeD strates Image: Strates Childpool Strates LeD strates Image: Strates LeD strates Image: Strates Childpool Strates Childpool Strates<	bridgelux.		27
FWHM / WTM Asymatric Efficiency 7% Peak intensity 0.5 cd/m LEDseech pate 1 LEDsech pate 1 LEDSech pate 1 LEDS EXA ES Rectangle FWHM // FVTM Strates FWHM // SVTM Strates LED BXRA ES Rectangle FWHM // SVTM Strates FWHM // SVTM Strates LED BXRA ES Rectangle FWHM // SVTM Strates FWHM // SVTM Strates LeD BXRA ES Rectangle FWHM // SVTM Strates LeD strates Image: Strates Childpool Strates LeD strates Image: Strates Childpool Strates LeD strates Image: Strates LeD strates Image: Strates Childpool Strates Childpool Strates<	LED	BXRA ES Rectangle	
Efficiency 77 % Peak infeasity 0.5 od/m LEDs/each optic 1 Lgtr adour White Required components: C12153_LENA-STD-BASE-BKRA C11986_LENA-LENS	FWHM / FWTM	Asymmetric	
LEDVeach optic 1 Light colour White Required components: C12153, LENA-STD-BASE-BXRA C11986, LENA-LENS Difference Hicknery 81 % Peak intensity 0.5 colin LEDVeach optic 1 Light colour White Required components: C12153, LENA-STD-BASE-BXRA Difference LED BXRA RS PWHM / FWTM Asymmetric Efficiency 83 % Peak intensity 0.5 colin LEDVeach optic 1 Light colour White Required components: C12229, LENA-STD-BASE-RS C11966, LENA-LENS	Efficiency		
LED&each optic 1 Light colour White Required components: C12153_LENA-STD-BASE-BXRA C11960_LENA-LENS DEGENAL LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN LED EnforceN Enforc	-	0.5 cd/lm	and the second s
Light colour White Required components: C12153_LENA.STD-BASE-BXRA C11996_LENA.LENS		1	
Required components: C12153_LENA-STD-BASE-BXRA C1196_LENA-LENS LED BXRA ES Rectangle FVHM/ FVHM Asymmetric Efficiency 81 % Peak Intensity 0.5 coffm LED exceed, optic 1 Light colour While Required components: C12153_LENA-STD-BASE-RS C11962_LENA-LENS Difficiency 83 % Peak Intensity 0.5 coffm LED exceed, optic 1 Light colour While Required components: C1229_LENA-STD-BASE-RS C1295_LENA-STD-BASE-RS C1229_LENA-STD-BASE-RS			
C12163_LENASTD-BASE-BXRA C11996_LENA-LENS			
C11996_LENA-LENS			
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LED BXRA ES Rectangle FWHM / FWTM Asymmetric Efficiency 81 % Peak intensity 0.5 cd/m LEDersch optic 1 Light colour White Required components: C12153. LENA-STD-BASE-BXRA Childgeon LED LED BXRA RS FWHM / FWTM Asymmetric Efficiency 83 % Peak intensity 0.5 cd/m LED BXRA RS FWHM / FWTM Asymmetric Efficiency 83 % Peak intensity 0.5 cd/m LEDersch optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS C12900 LED LED BXRA RS FWHM / FWTM Asymmetric Efficiency 87 % Peak intensity 0.5 cd/m LED BXRA RS FWHM / FWTM Asymmetric Efficiency 87 % Peak intensity 0.5 cd/m LED BXRA RS FWHM /			
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FWHM / FWTM Asymmetric Efficiency 81 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12153_LENA-STD-BASE-BXRA OfGetux E LED BXRA RS FWHM / FWTM Asymmetric Efficiency 83 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12232_LENA-STD-BASE-RS C12220_LENA-LENS Colour White Required components: C12222_LENA-STD-BASE-RS C1223_LENA-STD-BASE-RS C1223_LENA-STD-BASE-RS C1223_LENA-STD-BASE-RS C1223_LENA-LENS Difficiency Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C1223_LENA-STD-BASE-RS C1223_LENA-STD-BASE-RS Citizza_LENA-STD-BASE-RS C1223_LENA-STD-BASE-RS Citizza_LENA-STD-BASE-RS	bridgelux.		
Efficiency 81 % Peak intensity 0.5 cd/m LEDS/ach optic 1 Light colour White Required components: C12153_LENA-STD-BASE-BXRA Cridgeux. LED BXRA RS FVHM / FVTM Asymmetric Efficiency 83 % Peak intensity 0.5 cd/m LEDs/ach optic 1 LEDs/ach optic 1 LEDS/ac	LED	BXRA ES Rectangle	
Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12153_LENA-STD-BASE-BXRA C12153_LENA-STD-BASE-BXRA	FWHM / FWTM	Asymmetric	
LEDs/each optic 1 Light colour White Required components: C12153_LENA-STD-BASE-BXRA C12153_LENA-STD-BASE-BXRA C12153_LENA-STD-BASE-BXRA C12153_LENA-STD-BASE-BXRA C12153_LENA-STD-BASE-BXRA C12153_LENA-STD-BASE-BXRA C12229_LENA-STD-BASE-RS C12229_LENA-STD-BASE-RS C12229_LENA-STD-BASE-RS C12229_LENA-STD-BASE-RS C12229_LENA-STD-BASE-RS C12229_LENA-STD-BASE-RS C12229_LENA-STD-BASE-RS C12229_LENA-STD-BASE-RS C12229_LENA-STD-BASE-RS C12229_LENA-STD-BASE-RS C12229_LENA-STD-BASE-RS	Efficiency	81 %	
Light colour White Required components: C12153_LENA-STD-BASE-BXRA	Peak intensity	0.5 cd/lm	
Required components: C12153_LENA-STD-BASE-BXRA LED BXRA RS FWHM / FWTM Asymmetric Efficiency 83 % Peak Intensity 0.5 cd/m LEDs/each optic 1 LEDs/each optic 1	LEDs/each optic	1	
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LED BXRA RS FWHM / FWTM Asymmetric Efficiency 83 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS C11996_LENA-LENS Difference FWHM / FWTM Asymmetric Efficiency 87 % Peak intensity 0.5 cd/lm LED BXRA RS FWHM / FWTM Asymmetric Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS C12229_LENA-STD-BASE-RS C12229_LENA-STD-BASE-RS	Required componer	nts:	
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Drógetick LED BXRA RS FWHM / FWTM Asymmetric Efficiency 83 % Peak intensity 0.5 cd/lm LEDs/seach optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS C11996_LENA-LENS C11996_LENA-LENS			
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FWHM / FWTM Asymmetric Efficiency 83 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS C11996_LENA-LENS C1229_LENA-STD-BASE-RS C1229_LENA-STD-BASE-RS C1229_LENA-STD-BASE-RS C1229_LENA-STD-BASE-RS	bridgelux.		-
Efficiency 83 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS C11996_LENA-LENS	LED	BXRA RS	
Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS C11996_LENA-LENS bridgetux LED BXRA RS FWHM / FWTM Asymmetric Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS	FWHM / FWTM	Asymmetric	
LEDs/each optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS C11996_LENA-LENS bridgeUR LED BXRA RS FWHM / FWTM Asymmetric Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS	Efficiency	83 %	
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Required components: C12229_LENA-STD-BASE-RS C11996_LENA-LENS DIFFECTURE LED BXRA RS FWHM / FWTM Asymmetric Efficiency 87 % Peak intensity 0.5 cd/m LEDS/each optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS		1	
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Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS			
Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS			
LEDs/each optic 1 Light colour White Required components: C12229_LENA-STD-BASE-RS			24 / - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
Light colour White Required components: C12229_LENA-STD-BASE-RS			\times
Required components: C12229_LENA-STD-BASE-RS			
C12229_LENA-STD-BASE-RS			
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bridgelux. LED	V10 Gen6	
FWHM / FWTM	Asymmetric	
Efficiency	82 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
	STD-BASE-CXA15	1 to an and 1
C11996_LENA-		
011000_11010		
bridgelux.		
LED	V22 Gen7	
FWHM / FWTM	Asymmetric	
Efficiency	86 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C13867_LENA-	STD-BASE-VERO29	
C14169_LENA-	CLEAR-LENS	$\times \land \times$
Bender Wirth: 43	31 Typ L3	2° 20 20 20 20 20 20 20 20 20 20 20 20 20
bridgelux.		mw
LED	V22 Gen7	
FWHM / FWTM	Asymmetric	
Efficiency	83 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	e / / / / *
Required compone		
	STD-BASE-VERO29	
C11996_LENA-		
Bender Wirth: 43	31 Typ L3	
bridgelux.		······································
LED	Vero SE 29	
FWHM / FWTM	Asymmetric	
Efficiency	90 %	20
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	e
Required compone		
C15083_LENA-	STD-BASE-VERO29	$X \mid X \mid$
		1 N
		2.° 10 ⁴ 10 ⁴ 10 ⁴ 10 ⁴
L		



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	VERO13 Asymmetric 92 % 0.6 cd/lm 1	
Light colour	White	· / · · · · · · · · · · · · · · · · · ·
Required compone	nts:	
C13868_LENA-	STD-BASE-VERO13-18	
		n w e w
bridgelux.		5) (
LED	VERO18	
FWHM / FWTM	Asymmetric	
Efficiency	91 %	1 And No
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	· · · · · · · · · · · · · · · · · · ·
Required compone	nts:	
C13868_LENA-	STD-BASE-VERO13-18	
		/ Hand N
bridgelux.		5.0 W
LED	VERO29	
FWHM / FWTM	Asymmetric	
Efficiency	89 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
C13867_LENA-3	STD-BASE-VERO29	
bridgelux.		
LED	VERO29	
FWHM / FWTM	Asymmetric	
Efficiency	84 %	
Peak intensity	0.5 cd/lm	··· / / ··· ·· · · ·· · ·· ·· · ·· ·· ··
LEDs/each optic	1	
Light colour	White	
Required compone		
	STD-BASE-VERO29	
C11996_LENA-I		X / T
		* · · · · · · · · · · · · · · · · · · ·



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LED FWHM / FWTM	CL-L340 Asymmetric		at a second	$\neg A$	and the second s
Efficiency	84 %				1/20
Peak intensity	04 % 1.2 cd/lm			1 -	~ / /~
LEDs/each optic	1.2 cu/im				
Light colour	White				
Required compone			(42°	///	
	STD-BASE-CL340		- V		
			\sim		$\prec X$
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CITIZE	N			11 ¹ 1 ¹	
	CL-L340	and the second se	1		×`
ED FWHM / FWTM	CL-L340 Asymmetric	ALC: NOT THE OWNER OF THE OWNER OWNER OF THE OWNER OWN	and the second s	\neg Λ	m - 1
Efficiency	Asymmetric 82 %			$ \land \land$	
Peak intensity	82 % 0.5 cd/lm		824	1	~ / / `~
LEDs/each optic	1				
Light colour	White		\times		
Required compone					1 1 44
	STD-BASE-CL340				
C11996_LENA-I	LEINS		J.		
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CITIZE	NT			·/	Verseen
ULLE	IN		274		
			2**		*
	CLL03x/CLU03x Asymmetric		1 ²⁴		
LED	CLL03x/CLU03x				
LED FWHM / FWTM	CLL03x/CLU03x Asymmetric		100 100 100		
LED FWHM / FWTM Efficiency Peak intensity	CLL03x/CLU03x Asymmetric 91 %		127		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm		27 10 10 10 10	0	
LED FWHM / FWTM Efficiency Peak intensity	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White		10 10 10 10	-0-	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White		10 10 10 10 10		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White ents: STD-BASE-VERO13-18		9 10 10 10 10		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-5	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White ents: STD-BASE-VERO13-18		2" 10" 10" 10"	0	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-3 Bender Wirth: 43	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White ents: STD-BASE-VERO13-18 33 Typ L1				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-3 Bender Wirth: 43	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White ents: STD-BASE-VERO13-18 33 Typ L1				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-3 Bender Wirth: 43	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White ents: STD-BASE-VERO13-18 33 Typ L1				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-3 Bender Wirth: 43 CITTIZE LED FWHM / FWTM	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White ents: STD-BASE-VERO13-18 33 Typ L1				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-3 Bender Wirth: 43 CITTIZE LED FWHM / FWTM Efficiency	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White ents: STD-BASE-VERO13-18 33 Typ L1 N CLL03x/CLU03x Asymmetric 81 %				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-3 Bender Wirth: 43 CITTIZE LED FWHM / FWTM Efficiency Peak intensity	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White onts: STD-BASE-VERO13-18 33 Typ L1 N CLL03x/CLU03x Asymmetric 81 % 1.2 cd/lm		2 ²⁴ 24 24 24 24 24 24 24 24 24 24 24 24 24		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-3 Bender Wirth: 43 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White onts: STD-BASE-VERO13-18 33 Typ L1 N CLL03x/CLU03x Asymmetric 81 % 1.2 cd/lm 1				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-3 Bender Wirth: 43 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White ents: STD-BASE-VERO13-18 33 Typ L1 N CLL03x/CLU03x Asymmetric 81 % 1.2 cd/lm 1 White				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-3 Bender Wirth: 43 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White ents: STD-BASE-VERO13-18 33 Typ L1				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-3 Bender Wirth: 43 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White ents: STD-BASE-VERO13-18 33 Typ L1 N CLL03x/CLU03x Asymmetric 81 % 1.2 cd/lm 1 White				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-3 Bender Wirth: 43 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL03x/CLU03x Asymmetric 91 % 0.6 cd/lm 1 White ents: STD-BASE-VERO13-18 33 Typ L1				



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LED	CLL03x/CLU03x	and the second division of the second divisio	
FWHM / FWTM	Asymmetric		
Efficiency	80 %		
Peak intensity	0.5 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
	STD-BASE-CLL030		
C12091_LENA-			
CT1990_LLINA-			
CITIZE	N		
LED	CLL04x/CLU04x		
FWHM / FWTM	Asymmetric		
Efficiency	90 %		
Peak intensity	0.5 cd/lm		set / m
LEDs/each optic	1		
Light colour	White		
Required compone			
	NS: STD-BASE-VERO29		
Bender Wirth: 4	ST Typ L3		
CITIZE	N		
LED	CLL04x/CLU04x		
FWHM / FWTM	Asymmetric		
Efficiency	85 %		
Peak intensity	0.5 cd/lm		no / man
LEDs/each optic	1		
Light colour	White		
Required compone			
	STD-BASE-VERO29		
C11996_LENA-			
Bender Wirth: 4			\times
Dender Wirth. 4	51 Typ E3		z* <u>n</u> <u>n</u> <u>n</u> <u>n</u>
CITIZE	N		
LED	CLL04x/CLU04x	and the second se	
FWHM / FWTM	Asymmetric		
Efficiency	82 %		
Peak intensity	1 cd/lm		er /
LEDs/each optic	1		
Light colour	White		
Required compone			
	STD-BASE-CLL040		
CIZUJZ_LEINA-			
			1° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1



CITIZE	N	2.*
LED	CLL04x/CLU04x	
FWHM / FWTM	Asymmetric	
Efficiency	84 %	
Peak intensity	0.5 cd/lm	er / and a
LEDs/each optic	1	
Light colour	White	
Required componer		
C11996_LENA-L		
IDEAL: 50-22040		
		n' gi e in se
CITIZE	N	
LED	CLL04x/CLU04x	
FWHM / FWTM	Asymmetric	
Efficiency	74%	
Peak intensity	0.5 cd/lm	11 / 10 m
LEDs/each optic	1	
Light colour	White	
Required componer	ts:	
C12692_LENA-S	TD-BASE-CLL040	
C11996_LENA-L	ENS	
		Tr' and a dy Ar
CITIZE	N	
LED	CLU710/711	
FWHM / FWTM	Asymmetric	
Efficiency	86 %	
Peak intensity	0.5 cd/lm	er / er
LEDs/each optic	1	
Light colour	White	e () a
Required componer	ts:	
C12691_LENA-S	TD-BASE-CLL030	
C11996_LENA-L	ENS	
		X M X
017177		
CITIZE		
	N	
LED	N CLU710/711	
LED FWHM / FWTM	N CLU710/711 Asymmetric	
LED FWHM / FWTM Efficiency	N CLU710/711 Asymmetric 91 %	
LED FWHM / FWTM Efficiency Peak intensity	N CLU710/711 Asymmetric 91 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	N CLU710/711 Asymmetric 91 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	N CLU710/711 Asymmetric 91 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	N CLU710/711 Asymmetric 91 % 0.6 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	N CLU710/711 Asymmetric 91 % 0.6 cd/lm 1 White tts:	



CITIZE				
	Ν			
LED	CLU720/721/723			
FWHM / FWTM	Asymmetric			
Efficiency	91 %			
Peak intensity	0.6 cd/lm			The loss
LEDs/each optic	1		\times / \langle	
	ı White			
Light colour				================================
Required compone	STD-BASE-VERO13-18			
			7	
Bender Wirth: 43	ыз тур ⊑т		/ 1	
			274 m ²	e
CITIZE	N			-
LED	CLU730/731/733			
FWHM / FWTM	Asymmetric		10 J /	1 m
Efficiency	84 %			
Peak intensity	0.5 cd/lm			- en en
LEDs/each optic	1			
Light colour	White			
Required compone				_ 40 / 45
	STD-BASE-CLL040			
012032_LENA-C				
			1-	
			/12* B)	- 100
				1
LED	- CMA1840	and the second se		
FWHM / FWTM	Asymmetric		to a	
Efficiency	90 %			
Peak intensity	0.6 cd/lm		94°	the first
LEDs/each optic				
LEDs/each optic	1))
Light colour	1 White			
Light colour Required compone	1 White nts:			
Light colour Required compone	1 White		-	-W
Light colour Required compone	1 White nts:		-	- K0
Light colour Required compone	1 White nts:			
Light colour Required compone	1 White nts: STD-BASE-CXA18			
Light colour Required compone C14146_LENA-S	1 White nts: STD-BASE-CXA18			
Light colour Required compone C14146_LENA-S	1 White nts: STD-BASE-CXA18 CMA2550			
Light colour Required compone C14146_LENA-S CREE CLED LED FWHM / FWTM	1 White nts: STD-BASE-CXA18			
Light colour Required compone C14146_LENA-S CREE LED LED FWHM / FWTM Efficiency	1 White Ints: STD-BASE-CXA18 CMA2550 Asymmetric 91 %			
Light colour Required compone C14146_LENA-S CREE LED ED FWHM / FWTM Efficiency Peak intensity	1 White Ints: STD-BASE-CXA18 CMA2550 Asymmetric			
Light colour Required compone C14146_LENA-S CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White Ints: STD-BASE-CXA18 CMA2550 Asymmetric 91 % 0.6 cd/lm			
Light colour Required compone C14146_LENA-S CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White Ints: STD-BASE-CXA18 CMA2550 Asymmetric 91 % 0.6 cd/lm 1 White			
Light colour Required compone C14146_LENA-S CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	1 White nts: STD-BASE-CXA18 CMA2550 Asymmetric 91 % 0.6 cd/lm 1 White nts:			
Light colour Required compone C14146_LENA-S CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	1 White Ints: STD-BASE-CXA18 CMA2550 Asymmetric 91 % 0.6 cd/lm 1 White			
Light colour Required compone C14146_LENA-S CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	1 White nts: STD-BASE-CXA18 CMA2550 Asymmetric 91 % 0.6 cd/lm 1 White nts:			



	D			- 1
LED	CMT14xx		A (
FWHM / FWTM	Asymmetric		~ _ / /	1
Efficiency	90 %			
Peak intensity	0.6 cd/lm		x#\	
LEDs/each optic	1	and the second se	~ 0.1	
Light colour	White			
Required compone	ents:			····///
C13868_LENA-	STD-BASE-VERO13-18			$<$ / \sim
Bender Wirth: 4	34 Typ L1			
			r. "	
	D			
LED	CMT19xx		1	
FWHM / FWTM	Asymmetric		· //	1 A
Efficiency	91 %			· / / · · ·
Peak intensity	0.6 cd/lm			· · · · · ·
LEDs/each optic	1			
Light colour	White			see and an
Required compone	ents:			
C13868_LENA-	STD-BASE-VERO13-18			
Bender Wirth: 4			1	200 V
			$\mathcal{L} = \mathcal{L}$	
			1. m,	* * *
CREE÷ LE		1.000		~ ~
LED	CMT19xx			N /
FWHM / FWTM	Asymmetric	A DESCRIPTION OF THE OWNER		NA 7
Efficiency	91 %			* KAN X
Peak intensity	0.6 cd/lm			
LEDs/each optic	1	and the second	XAL	
Light colour	White			-*** as
Required compone			\smallsetminus	
C12691_LENA-	STD-BASE-CLL030			TIX
			1 1	
			ar an	
	D			~ ~ ~
LED	CMT28xx			N have
FWHM / FWTM	Asymmetric			1/2
Efficiency	90 %		$\times / / \sim$	- NN
Peak intensity	0.6 cd/lm			
LEDs/each optic	1			
Light colour	White		6 / /	10 J
Required compone	ents:			
	STD-BASE-CLL040		1 A C	P X
			1	
			L' de	
			n' n'	e 🔆 🎢



LED	CMT28xx			
FWHM / FWTM	Asymmetric		1 m ~ ~ /	
Efficiency	89 %			
Peak intensity	0.5 cd/lm		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
LEDs/each optic	1			
Light colour	White			
Required compone				
	STD-BASE-VERO29			\
Bender Wirth: 4			1-4-	
			1 1	
	_		ц. Т	v 97 .
			s.*	× ~.
LED	CXA/B 15xx		- Andrew -	
FWHM / FWTM	Asymmetric			
Efficiency	88 %		$\sim /$	and N
Peak intensity	0.6 cd/lm		ar III	
LEDs/each optic	1			
Light colour	White		6 X -	
Required compone	nts:			
C13186_LENA-	STD-BASE-CXA15			
			1	300
			6	
				e 19
			r*	~
LED	CXA/B 15xx			
LED FWHM / FWTM	CXA/B 15xx Asymmetric			
LED FWHM / FWTM Efficiency	CXA/B 15xx Asymmetric 84 %			
LED FWHM / FWTM Efficiency Peak intensity	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White		er Kr	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White ints:		07 10 10 10 10 10	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White white STD-BASE-CXA15		97 10 10 10	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White white STD-BASE-CXA15		27 20 20 20 20 20 20 20 20 20 20 20 20 20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White white STD-BASE-CXA15			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-CXA15 LENS			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA- C11996_LENA-	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-CXA15 LENS			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA- C11996_LENA-	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White ints: STD-BASE-CXA15 LENS			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA- C11996_LENA-	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-CXA15 LENS			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA- C11996_LENA- C11996_LENA- C11996_LENA- Efficiency Peak intensity	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-CXA15 LENS			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA- C11996_LENA- C11996_LENA-	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-CXA15 LENS CXA/B 15xx Asymmetric 91 %			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA- C11996_LENA- C11996_LENA- C11996_LENA- Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-CXA15 LENS CXA/B 15xx Asymmetric 91 % 0.6 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA- C11996_LENA- C11996_LENA- C11996_LENA- Efficiency Peak intensity LEDs/each optic	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-CXA15 LENS CXA/B 15xx Asymmetric 91 % 0.6 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA- C11996_LENA- C11996_LENA- C11996_LENA- Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-CXA15 LENS CXA/B 15xx Asymmetric 91 % 0.6 cd/lm 1 White Ints: STD-BASE-VERO13-18			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA- C11996_LENA- C11996_LENA- C11996_LENA- Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-CXA15 LENS CXA/B 15xx Asymmetric 91 % 0.6 cd/lm 1 White Ints: STD-BASE-VERO13-18			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA- C11996_LENA- C11996_LENA- C11996_LENA- Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-CXA15 LENS CXA/B 15xx Asymmetric 91 % 0.6 cd/lm 1 White Ints: STD-BASE-VERO13-18			



LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM / FWTM	Asymmetric	
Efficiency	91 %	
Peak intensity	0.6 cd/m	ur // / / / / / / / / / / / / / / / / /
LEDs/each optic	1	
Light colour	White	
Required componer		
	STD-BASE-CXA18	
01110_00000		
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM / FWTM	Asymmetric	
Efficiency	90 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	e au
Required componer	nts:	
C13868_LENA-S	TD-BASE-VERO13-18	
Bender Wirth: 43	7 Typ L1	
	1	u
LED	CXA/B 25xx	
FWHM / FWTM	Asymmetric	
Efficiency	82 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	te la
Required componer	nts:	
C13324_LENA-S	STD-BASE-CXA25	
	1	
LED	CXA/B 25xx	
FWHM / FWTM	Asymmetric	ut to the second s
Efficiency	73 %	XAN
Peak intensity	0.9 cd/lm	e* X
LEDs/each optic	1	
Light colour	White	
Required componer		
	STD-BASE-CXA25	/ Hand And
C11996_LENA-L		
		1 ⁴⁴



		5.1 mm
LED	- CXA/B 25xx	
FWHM / FWTM	Asymmetric	
Efficiency	78 %	
Peak intensity	0.5 cd/m	50° - 500 - 500
LEDs/each optic	1	
Light colour	White	
Required componer		
	TD-BASE-CXA25	10 10
C11996_LENA-L		
_		
LED	CXA2011	······································
EED FWHM / FWTM	Asymmetric	
Efficiency	83 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer		
	TD-BASE-CXA20	
012100_2221070		X X X
		1 Total
		21° ay e ye
		5.0° (0.00)
LED	CXA2011	
FWHM / FWTM	Asymmetric	
Efficiency	80 %	
-		
Peak intensity	0.5 cd/lm	······································
Peak intensity LEDs/each optic	0.5 cd/lm 1	
LEDs/each optic	1	
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour Required componen	1 White	10
LEDs/each optic Light colour Required componen	1 White hts: TD-BASE-CXA20	
LEDs/each optic Light colour Required componer C12105_LENA-S	1 White hts: TD-BASE-CXA20	
LEDs/each optic Light colour Required componen C12105_LENA-S C11996_LENA-L	1 White its: ITD-BASE-CXA20 ENS	
LEDs/each optic Light colour Required componen C12105_LENA-S C11996_LENA-L	1 White hts: ITD-BASE-CXA20 ENS	
LEDs/each optic Light colour Required componen C12105_LENA-S C11996_LENA-L	1 White hts: TD-BASE-CXA20 ENS EDS LUXEON CoB 1202/1203	
LEDs/each optic Light colour Required componen C12105_LENA-S C11996_LENA-L C11996_LENA-L ED FWHM / FWTM	1 White hts: TD-BASE-CXA20 ENS EDS LUXEON CoB 1202/1203 Asymmetric	
LEDs/each optic Light colour Required componen C12105_LENA-S C11996_LENA-L ED FWHM / FWTM Efficiency	1 White hts: TD-BASE-CXA20 ENS EDS LUXEON CoB 1202/1203 Asymmetric 91 %	
LEDs/each optic Light colour Required componen C12105_LENA-S C11996_LENA-L EM LED FWHM / FWTM Efficiency Peak intensity	1 White hts: TD-BASE-CXA20 ENS EDS LUXEON CoB 1202/1203 Asymmetric 91 % 0.6 cd/lm	
LEDs/each optic Light colour Required componen C12105_LENA-S C11996_LENA-L WWW LENA FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White hts: TD-BASE-CXA20 ENS EDS LUXEON CoB 1202/1203 Asymmetric 91 % 0.6 cd/lm 1	
LEDs/each optic Light colour Required componen C12105_LENA-S C11996_LENA-L C11996_LENA-L EDS/EACH OPTIC Efficiency Peak intensity LEDs/each optic Light colour	1 White hts: TD-BASE-CXA20 ENS EDS LUXEON CoB 1202/1203 Asymmetric 91 % 0.6 cd/lm 1 White	
LEDs/each optic Light colour Required componen C12105_LENA-S C11996_LENA-L C1196_LENA-L C119	1 White hts: ITD-BASE-CXA20 ENS EDS LUXEON CoB 1202/1203 Asymmetric 91 % 0.6 cd/lm 1 White hts:	
LEDs/each optic Light colour Required componen C12105_LENA-S C11996_LENA-L C11996_LENA-L C11996_LENA-L C11996_LENA-S FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S	1 White hts: htD-BASE-CXA20 ENS EDS LUXEON CoB 1202/1203 Asymmetric 91 % 0.6 cd/lm 1 White hts: TD-BASE-VERO13-18	
LEDs/each optic Light colour Required componen C12105_LENA-S C11996_LENA-L C1196_LENA-L C119	1 White hts: htD-BASE-CXA20 ENS EDS LUXEON CoB 1202/1203 Asymmetric 91 % 0.6 cd/lm 1 White hts: TD-BASE-VERO13-18	



Image: Comparison of the components: Comparison of the components: Comparison of the components: Comparison of the components: Comparison of the components: Comparison of the components:	
FWHM / FWTM Asymmetric Efficiency 91 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: ***	
Efficiency 91 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:	
Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:	
LEDs/each optic 1 Light colour White Required components:	
LEDs/each optic 1 Light colour White Required components:	
Light colour White Required components:	
Required components:	
1 ²⁴ 11 ² 12	
C LUMILEDS	w
LED LUXEON CoB 1205HD	hanne a
FWHM / FWTM Asymmetric	1/ 1
Efficiency 91 %	IN
Peak intensity 0.6 cd/lm	
LEDs/each optic 1	
Light colour White	
Required components:	
C11981_LENA-STD-BASE-COB-L110	
	\
LED LUXEON CoB 1211	×
FWHM / FWTM Asymmetric	1
Efficiency 89 %	
Peak intensity 0.5 cd/lm	1 1
	1 1
LEDs/each optic 1	
LEDs/each optic 1)) "
LEDs/each optic 1 Light colour White).
LEDs/each optic 1 Light colour White Required components:	
LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29	
LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 431 Typ L3	
LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 431 Typ L3	
LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 431 Typ L3 CUMILEDS LED LUXEON CoB 1211	
LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 431 Typ L3 CUMILEDS LED LUXEON CoB 1211 FWHM / FWTM Asymmetric	
LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 431 Typ L3 CUMILEDS LED LUXEON CoB 1211 FWHM / FWTM Asymmetric Efficiency 85 %	
LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 431 Typ L3	
LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 431 Typ L3	
LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 431 Typ L3	
LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 431 Typ L3	
LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 431 Typ L3	
LEDs/each optic 1 Light colour White Required components: C13867_LENA-STD-BASE-VERO29 Bender Wirth: 431 Typ L3	



	EDS	2 ⁴⁴
LED	LUXEON CoB 1216/1812	
FWHM / FWTM	Asymmetric	
Efficiency	81 %	
Peak intensity	0.5 cd/lm	and the second sec
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C11996_LENA-	LENS	
A.A.G. STUCCH	II: 8102-G2 + S-8000-12	
	EDS	
LED	LUXEON CoB 1216/1812	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	0.6 cd/lm	20° / / / / / / / / / / / / / / / / / / /
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
	STD-BASE-CLL040	
() , , , , , , , , , , , , , , , , , , ,		
LED	LUXEON CoB 1216/1812	
FWHM / FWTM	Asymmetric	
Efficiency	87 %	25 20
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	e
Required compone		
	STD-BASE-CLL040	
C11996_LENA-	LENS	X MX

LED	LUXEON CoB 1216/1812	
FWHM / FWTM	75.0° / 123.0°	
Efficiency	85 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
A.A.G. STUCCH	II: 8102-G2 + S-8000-12	
		2* X
		107 W 214



ELUMI					
	NUS		-		
LED	CDM-14 (Dim-To-Warm)				The france
FWHM / FWTM	Asymmetric			$\sim \lambda \Lambda$	1/-
Efficiency	91 %				
Peak intensity	0.5 cd/lm		.842	$\sim ///$	1 / Y.
LEDs/each optic	1			$\times ($	
Light colour	White		e	$ \lambda $	m
Required componer	nts:				
	STD-BASE-VERO13-18			SC 🧮	
Bender Wirth: 49	91 Typ L2				
			4	. /	
	INUIS		· · · · · · · · · · · · · · · · · · ·	10 ⁴	e se
			**	·	<u> </u>
LED	CDM-14 (Dim-To-Warm)		12	~ 1	
FWHM / FWTM	Asymmetric				
Efficiency	86 %		100		
Peak intensity	0.5 cd/lm				
LEDs/each optic	1			\times ((
Light colour	White				
Required componen		-			····///
	STD-BASE-VERO13-18				<
C11996_LENA-L					X
Bender Wirth: 49	л тур L2		1		
	NUS		1	. 1	2
LED	CDM-18 (Dim-To-Warm)				
LED FWHM / FWTM	CDM-18 (Dim-To-Warm) Asymmetric		يو.	$\rightarrow \Lambda$	
FWHM / FWTM			.22	\mathcal{A}	
FWHM / FWTM	Asymmetric		ير. مو	A	
FWHM / FWTM Efficiency	Asymmetric 86 %		22 14	A	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.5 cd/lm		,12 ,14 ,14 ,14	A	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.5 cd/lm 1 White		12 14 14		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 86 % 0.5 cd/lm 1 White		, 22 , 82 , 42		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18		,22 ,40 ,40		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS		ja ja je je		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 01 Typ L2				
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 91 Typ L2				
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 21 Typ L2 CDM-18 (Dim-To-Warm)				
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13868_LENA-S C11996_LENA-L Bender Wirth: 49	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 01 Typ L2 CDM-18 (Dim-To-Warm) Asymmetric				
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 91 Typ L2 CDM-18 (Dim-To-Warm) Asymmetric 91 %		12 14 14 14 14 14 14 14 14 14 14 14 14 14		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 ENS 91 Typ L2 CDM-18 (Dim-To-Warm) Asymmetric 91 % 0.5 cd/lm		12 14 14 14 14 14 14 14 14 14 14 14 14 14		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 ENS 91 Typ L2 CDM-18 (Dim-To-Warm) Asymmetric 91 % 0.5 cd/lm 1		12 14 14 14 14 14 14 14 14 14 14 14 14 14		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 21 Typ L2 INUS CDM-18 (Dim-To-Warm) Asymmetric 91 % 0.5 cd/lm 1 White				
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49 C11996_LENA-L Bender Wirth: 49 C11996_LENA-L C C11996_LENA-L C C11996_LENA-L C C11996_LENA-L C C C11996_LENA-L C C C C C C C C C C C C C C C C C C C	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 21 Typ L2 INUS CDM-18 (Dim-To-Warm) Asymmetric 91 % 0.5 cd/lm 1 White nts:				
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49 CEE EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 21 Typ L2 TNUS CDM-18 (Dim-To-Warm) Asymmetric 91 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18				
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49 C11996_LENA-L Bender Wirth: 49 C11996_LENA-L D FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required component	Asymmetric 86 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 21 Typ L2 TNUS CDM-18 (Dim-To-Warm) Asymmetric 91 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18				



C LUM	INUS	24
LED	CDM-9 (Dim-To-Warm)	
FWHM / FWTM	Asymmetric	
Efficiency	85 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
	STD-BASE-VERO13-18	
C11996_LENA-		
Bender Wirth: 4		
	INUS	
LED	CDM-9 (Dim-To-Warm)	
FWHM / FWTM	Asymmetric	
Efficiency	89 %	
Peak intensity	89 % 0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
	STD-BASE-VERO13-18	
_		
Bender Wirth: 4	90 Typ E1	/
(C=LUM	INUS	
LED	CTM-14 (Tunable White)	
FWHM / FWTM	Asymmetric	
Efficiency	84 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C13867_LENA-	STD-BASE-VERO29	
C12606_LENIN	A-DL	
Bender Wirth: 4	42 Typ L3	
	INUS	
LED	CTM-14 (Tunable White)	
FWHM / FWTM	Asymmetric	
Efficiency	88 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
	STD-BASE-VERO29	
Bender Wirth: 4		
		2° 🚽 🚽



CLUMI	INUS		
LED	CTM-18 (Tunable White)		
FWHM / FWTM	Asymmetric		1 m
Efficiency	84 %		
Peak intensity	0.5 cd/lm		
LEDs/each optic	1		
Light colour	Tunable White	e l	at at
Required compone	nts:		
	STD-BASE-VERO29		
C11996_LENA-L	LENS		
Bender Wirth: 44	42 Typ L3		
	INUS		× ~
LED	CTM-18 (Tunable White)		
FWHM / FWTM	Asymmetric		1 m
Efficiency	88 %		~///~~~
Peak intensity	0.5 cd/lm		
LEDs/each optic	1		A M DX
Light colour	White	e l	
Required compone	nts:		
C13867_LENA-8	STD-BASE-VERO29		
Bender Wirth: 44	42 Typ L3		
		67-	
		e w	e 5.
60			
	INUS	1. A A A A A A A A A A A A A A A A A A A	
	CTM-22 (Tunable White)		
LED	CTM-22 (Tunable White)		
LED FWHM / FWTM	CTM-22 (Tunable White) Asymmetric		
LED FWHM / FWTM Efficiency	CTM-22 (Tunable White) Asymmetric 89 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 94 Typ L3		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S Bender Wirth: 49	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 94 Typ L3		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S Bender Wirth: 49	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 94 Typ L3		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S Bender Wirth: 49	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 94 Typ L3		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S Bender Wirth: 4S	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 94 Typ L3		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S Bender Wirth: 4S	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 94 Typ L3 CTM-22 (Tunable White) Asymmetric 84 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S Bender Wirth: 4S	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 94 Typ L3 CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S Bender Wirth: 49 Efficiency Peak intensity LEDs/each optic	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 94 Typ L3 CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-5 Bender Wirth: 45 Ender Wirth: 45 Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 94 Typ L3 CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-5 Bender Wirth: 45 Ender Wirth: 45 Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 24 Typ L3 CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S Bender Wirth: 4S EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S	CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 24 Typ L3 TNUS CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 LENS		



CLUM	INUS		17	
LED	CxM-14 (19x19)			1
FWHM / FWTM	Asymmetric			
Efficiency	83 %			1
Peak intensity	0.5 cd/lm		10 / - 30 - 30 - 30 - 30 - 30 - 30 - 30 -	
LEDs/each optic	1	and the second se		1 1
Light colour	White			Var
Required compone	ents:			1 1
	STD-BASE-CLL030		10	
C11996_LENA-	LENS			
			art a	~ ~**
	INUS		r	
LED	CxM-14 (19x19)			free
FWHM / FWTM	Asymmetric	the second s		
Efficiency	88 %			
Peak intensity	0.6 cd/lm			$\sqrt{}$
LEDs/each optic	1			$\left(-\right) $
Light colour	White			/ / 40
Required compone				
C12691_LENA-	STD-BASE-CLL030			
			e a	
			10 Mar 20	1.
CLUM	INUS		2 ⁻⁴	
			r	
	CxM-22 (28x28) Asymmetric	1000		
LED	CxM-22 (28x28)			
LED FWHM / FWTM	CxM-22 (28x28) Asymmetric			
LED FWHM / FWTM Efficiency	CxM-22 (28x28) Asymmetric 79 %			*** ***
LED FWHM / FWTM Efficiency Peak intensity	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm			*** ***
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White			10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA-	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA-	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA-	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA-	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White Ints: STD-BASE-CLL040 LENS			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA-	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White Ints: STD-BASE-CLL040 LENS			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- EFWHM / FWTM Efficiency	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- Efficiency Peak intensity	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS CxM-22 (28x28) Asymmetric 86 % 0.5 cd/lm			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- Efficiency Peak intensity LEDs/each optic	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS CxM-22 (28x28) Asymmetric 86 % 0.5 cd/lm 1			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- Efficiency Peak intensity LEDs/each optic Light colour	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS CxM-22 (28x28) Asymmetric 86 % 0.5 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- C11996_LENA- Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS CxM-22 (28x28) Asymmetric 86 % 0.5 cd/lm 1 White ents:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- C11996_LENA- Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS CxM-22 (28x28) Asymmetric 86 % 0.5 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- C11996_LENA- Efficiency Peak intensity LEDs/each optic Light colour Required compone	CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS CxM-22 (28x28) Asymmetric 86 % 0.5 cd/lm 1 White ents:			



ØNICHI		
LED	СОВ Ј-Туре	
FWHM / FWTM	Asymmetric	
Efficiency	91 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	~ \ _ ~ / ~
Required compone	nts:	
C13868_LENA-	STD-BASE-VERO13-18	
Bender Wirth: 46	63 Typ L2	
		2. J
ØNICHI		
LED	COB L-Type (LES 11)	
FWHM / FWTM	Asymmetric	
Efficiency	91 %	
Peak intensity	0.6 cd/lm	14 / / / · · · · · · · · · · · · · · · ·
LEDs/each optic	1	
Light colour	White	
Required compone		
	STD-BASE-VERO13-18	
Bender Wirth: 43		
	21	
		 ¹¹⁴ m o 104 3
ØNICHI	L	
LED	COB L-Type (LES 9)	
FWHM / FWTM	Asymmetric	
Efficiency	91 %	
Efficiency Peak intensity	91 % 0.6 cd/lm	20 ⁻⁰⁰ -00-00
-		
Peak intensity	0.6 cd/lm	
Peak intensity LEDs/each optic	0.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White ints: STD-BASE-VERO13-18	
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-	0.6 cd/lm 1 White ints: STD-BASE-VERO13-18	
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-	0.6 cd/lm 1 White Ints: STD-BASE-VERO13-18 38 Typ L1	
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA- Bender Wirth: 43	0.6 cd/lm 1 White Ints: STD-BASE-VERO13-18 38 Typ L1	
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA- Bender Wirth: 43	0.6 cd/lm 1 White Ints: STD-BASE-VERO13-18 38 Typ L1	
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA- Bender Wirth: 43	0.6 cd/lm 1 White ints: STD-BASE-VERO13-18 38 Typ L1 NVCWJ024Z-V1MT: COB J-Type Tunable White	
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA- Bender Wirth: 43	0.6 cd/lm 1 White ints: STD-BASE-VERO13-18 38 Typ L1 NVCWJ024Z-V1MT: COB J-Type Tunable White Asymmetric	
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA- Bender Wirth: 4: WICHIM LED FWHM / FWTM Efficiency Peak intensity	0.6 cd/lm 1 White ints: STD-BASE-VERO13-18 38 Typ L1 NVCWJ024Z-V1MT: COB J-Type Tunable White Asymmetric 90 %	
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA- Bender Wirth: 4: WICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.6 cd/lm 1 White ints: STD-BASE-VERO13-18 38 Typ L1 NVCWJ024Z-V1MT: COB J-Type Tunable White Asymmetric 90 % 0.6 cd/lm	
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA- Bender Wirth: 43 WICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1 White INTS: STD-BASE-VERO13-18 38 Typ L1 NVCWJ024Z-V1MT: COB J-Type Tunable White Asymmetric 90 % 0.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA- Bender Wirth: 43 WICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White INTS: STD-BASE-VERO13-18 38 Typ L1 NVCWJ024Z-V1MT: COB J-Type Tunable White Asymmetric 90 % 0.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA- Bender Wirth: 43 MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White Ints: STD-BASE-VERO13-18 38 Typ L1 NVCWJ024Z-V1MT: COB J-Type Tunable White Asymmetric 90 % 0.6 cd/lm 1 White Ints: STD-BASE-VERO13-18	
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA- Bender Wirth: 43 WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-	0.6 cd/lm 1 White Ints: STD-BASE-VERO13-18 38 Typ L1 NVCWJ024Z-V1MT: COB J-Type Tunable White Asymmetric 90 % 0.6 cd/lm 1 White Ints: STD-BASE-VERO13-18	



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ØNICHI	•	and the second se	e"w
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White		
FWHM / FWTM	Asymmetric		
Efficiency	85 %		
Peak intensity	0.5 cd/lm		- / - au
LEDs/each optic	1	and the second se	
Light colour	White		e () ()
Required componer			
C13868_LENA-S	TD-BASE-VERO13-18		
C11996_LENA-L			
Bender Wirth: 49	8 Typ L2		
OSRAM Opto Semiconductors			
LED	Soleriq S13		
FWHM / FWTM	Asymmetric		
Efficiency	90 %		
Peak intensity	0.6 cd/lm	the second se	art fin
LEDs/each optic	1		
Light colour	White		
Required componer	nts:		
	TD-BASE-VERO13-18		
Bender Wirth: 43	7 Typ L1		
			n e ge
OSRAM Opto Semiconductors			
Opto Semiconductors	Soleria S19		
Opto Semiconductors LED	Soleriq S19 Asymmetric		
Opto Semiconductors LED FWHM / FWTM	Soleriq S19 Asymmetric 89 %		
Opto Semiconductors LED	Asymmetric		
Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 89 %		200 - 200 -
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 89 % 0.5 cd/lm		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 89 % 0.5 cd/lm 1 White		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 89 % 0.5 cd/lm 1 White		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 89 % 0.5 cd/lm 1 White hts: TD-BASE-VERO29		
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13867_LENA-S	Asymmetric 89 % 0.5 cd/lm 1 White hts: TD-BASE-VERO29		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13867_LENA-S Bender Wirth: 46	Asymmetric 89 % 0.5 cd/lm 1 White hts: TD-BASE-VERO29		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13867_LENA-S Bender Wirth: 46 OSRAM Opto Semiconductors	Asymmetric 89 % 0.5 cd/lm 1 White hts: TD-BASE-VERO29 2 Typ L3		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13867_LENA-S Bender Wirth: 46 OSRAM Opto Semiconductors LED	Asymmetric 89 % 0.5 cd/lm 1 White hts: TD-BASE-VERO29 2 Typ L3 Soleriq S19		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13867_LENA-S Bender Wirth: 46 OSERAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 89 % 0.5 cd/lm 1 White ts: STD-BASE-VERO29 2 Typ L3 Soleriq S19 Asymmetric		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13867_LENA-S Bender Wirth: 46 OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 89 % 0.5 cd/lm 1 White tts: STD-BASE-VERO29 2 Typ L3 Soleriq S19 Asymmetric 85 %		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13867_LENA-S Bender Wirth: 46 OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 89 % 0.5 cd/lm 1 White hts: TD-BASE-VERO29 2 Typ L3 Soleriq S19 Asymmetric 85 % 0.5 cd/lm		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13867_LENA-S Bender Wirth: 46 Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 89 % 0.5 cd/lm 1 White hts: DTD-BASE-VERO29 2 Typ L3 Soleriq S19 Asymmetric 85 % 0.5 cd/lm 1		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13867_LENA-S Bender Wirth: 46 Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 89 % 0.5 cd/lm 1 White hts: TD-BASE-VERO29 2 Typ L3 Soleriq S19 Asymmetric 85 % 0.5 cd/lm 1 White		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13867_LENA-S Bender Wirth: 46 Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 89 % 0.5 cd/lm 1 White hts: TD-BASE-VERO29 2 Typ L3 Soleriq S19 Asymmetric 85 % 0.5 cd/lm 1 White hts: Soleriq S19		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13867_LENA-S Bender Wirth: 46 OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer C13867_LENA-S	Asymmetric 89 % 0.5 cd/lm 1 White hts: TD-BASE-VERO29 2 Typ L3 Soleriq S19 Asymmetric 85 % 0.5 cd/lm 1 White hts: TD-BASE-VERO29		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13867_LENA-S Bender Wirth: 46 Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 89 % 0.5 cd/lm 1 White hts: TD-BASE-VERO29 2 Typ L3 Soleriq S19 Asymmetric 85 % 0.5 cd/lm 1 White hts: TD-BASE-VERO29 ENS		



PHILIPS

 LED
 Fortimo SLM L13 CoB

 FWHM / FWTM
 Asymmetric

 Efficiency
 90 %

 Peak intensity
 0.6 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C12292_LENA-STD-BASE-MEZ



PHILIPS

LED	Fortimo SLM L13 CoB
FWHM / FWTM	Asymmetric
Efficiency	85 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required componen	ts:
C12292_LENA-S	TD-BASE-MEZ
C11996_LENA-LE	ENS



PHILIPS

 LED
 Fortimo SLM L15 CoB

 FWHM / FWTM
 Asymmetric

 Efficiency
 90 %

 Peak intensity
 0.6 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C12292_LENA-STD-BASE-MEZ

PHILIPS

 LED
 Fortimo SLM L15 CoB

 FWHM / FWTM
 Asymmetric

 Efficiency
 85 %

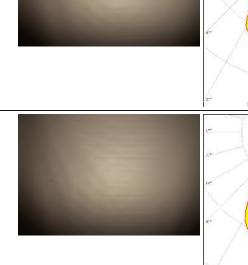
 Peak intensity
 0.5 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components
 C12292_LENA-ST-BASE-MEZ

 C11996_LENA-LENS
 State



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PHILIPS LED Fortmo SLM L19 CoB FVMA/FVTM Kaymmatric Elliptic colur White Required components: C1282_LENA_STD-BASE-CLL040 C1199_LENALENS Fortmo SLM L19 CoB PHILIPS Fortmo SLM L19 CoB LED Fortmo SLM L19 CoB PVHM //FVTM Asymmetric Elliptic colur White Required components: C1282_LENA_STD-BASE-CLL040 C1199_LENALENS Fortmo SLM L19 CoB PVHM //FVTM Asymmetric Elliptic colur White Required components: C1282_LENA_STD-BASE-CLL040 C1289_LENALENS Fortmo SLM L23 CoB PVHM //FVTM Asymmetric Elliptic colur White Required components: C12802_LENA_STD-BASE-CLL040 PHILIPS C12802_LENA_STD-BASE-CLL040 PHILIPS C12802_LENA_STD-BASE-CLL040 PHILIPS C12802_LENA_STD-BASE-CLL040 C12802_LENA_STD-BASE-CLL040 Fortmo SLM L23 CoB PHM //FVTM Asymmetric ElDivencing to 1 C12802_LENA_STD-BASE-CLL040 C12802_LENA_STD-BASE-CLL040				
LED Forms SLM L19 CoB FWHM / FWTM Asymmetric Endening 85 % Pack Intensity 0.5 cd/m LED Reach pills PHILLOPS LED Fortime SLM L19 CoB FWHM / FWTM Asymmetric Endening 90 % PHILLIPS LED Fortime SLM L19 CoB FWHM / FWTM Asymmetric Endening 90 % Pack Intensity 0.6 cd/m LED Keen pills Description of the second secon	PHILI	S		24
PWHA/PWTM Asymetric Efficiency as 5% Peak intensity 0.5 cd/m LED/each optic 1 LED/each optic 2 C12982_LENA-STD-BASE-CLIOO C1998_LENA-LENS	LED	Fortimo SLM L19 CoB		
Efficiency 35% Peak intensity 0.5 cd/m Light colour White Required components: C12892_LENA-STD-BASE-CLL040 C11990_LENA-LENS	FWHM / FWTM			
Peak intensity 0.5 cd/m LEDu/each optic 1 LEDu/each optic 2 C12892_LENA-STD-ASE-CLL040 C1996_LENA-LENS PHILIPS LED Fortimo SLM L19 CoB FWHM / FWTM Asymmetric Efficiency 39 % Peak intensity 0.5 cd/m LEDweak optic 1 Luph cdour White Required components: C12892_LENA-STD-BASE-CLL040 PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 39 % Peak intensity 0.6 cd/m LEDweak optic 1 Luph cdour White Required components: C12892_LENA-STD-BASE-CLL040 PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 39 % Peak intensity 0.6 cd/m LEDweak optic 1 Luph cdour White Required components: C12892_LENA-STD-BASE-CLL040		-		
LEDReach optic 1 Light colour White Required components: C12852_LENASTD-BASE-CLL040 C1966_LENA-LENS	=			er for an an
Light colour White Required components: C12892_LENA-STD-BASE-CLL040 C1996_LENA-LENS				
Required components: C12892_LENA-STD-BASE-CLL040 C1199_LENA-LENS				
C12892_LENA-STD-BASE-CLL040 C11996_LENA-LENS PHILLIPS LED Folimo SLM L19 C0B FWHM / FWTM Asymmetric Efficiency 90 % Peak intensity 0.6 cd/m LED2/each optic 1 Lipht colour White Required components: C12892_LENA-STD-BASE-CLL040 PHILLIPS LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 90 % Peak intensity 0.6 cd/m LED2/each optic 1 LED2/each optic 1 LED2/each optic 1 LED2/each optic 1 LED2/each optic 1 LIpht colour White Required components: C12892_LENA-STD-BASE-CLL040				
C11936_LENA-LENS				
PHILIPS LD Forma SLM L19 CoB EVMM / FVTM Asymmetric Efficiency 90 % Peak intensity 0.6 cdfm LED/eeah optic 1 LED/eeah optic 1 LED/eeah optic 1 Efficiency 90 % Peak intensity 0.6 cdfm EDE/EDE/EDE/EDE/EDE/EDE/EDE/EDE/EDE/EDE				
PHILIPS LED Fortimo SLM L19 CoB FWHM / FWTM Asymmetric Efficiency 90 % Peak intensity 0.6 cd/m LEDweak noppic 1 Light colour White Required components: C12892_LENA-STD-BASE-CLL040 C12892_LENA-STD-BASE-CLL040 Image: Classical Classica				XF VA
LED Fortimo SLM L19 CoB FWH / FWTM Asymmetric Efficiency 90 % Peak intensity 0.6 cd/m LEDs/each optic 1 LLD/st colour White Required components: C12692_LENA-STD-BASE-CLL040				2.* <u>59</u> <u>6'</u> <u>2</u> ' 8 '
FWHM / FWTM Asymmetric Efficiency 90 % Peak intensity 0.6 cd/m LED/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040	PHILI	PS		
Efficiency 90 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: C12892_LENA-STD-BASE-CLI040	LED	Fortimo SLM L19 CoB		
Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040	FWHM / FWTM	Asymmetric	A DESCRIPTION OF TAXABLE PARTY.	
LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040	Efficiency	90 %		
LEDs/each optic 1 Light colour White Required components: C12892_LENA-STD-BASE-CLL040	Peak intensity	0.6 cd/lm		
Light colour While Required components: C12692_LENA-STD-BASE-CLL040 PHILLPS LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 90% Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour While Required components: C12692_LENA-STD-BASE-CLL040 PHILLPS LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 85% Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour While Required components: C12692_LENA-STD-BASE-CLL040 FUTHM / FWTM Asymmetric Efficiency 85% Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour While Required components: C12692_LENA-STD-BASE-CLL040		1		
Required components: C12892_LENA-STD-BASE-CLL040 PHILLPS LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 90% Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: C12892_LENA-STD-BASE-CLL040 PHILLPS LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 85% Peak intensity 0.5 cd/m LEDs/each optic 1 LEDs/each optic 1 LED So cd/m LEDs/each optic 1 LED So cd/m LEDs/each optic 1 LED So cd/m LEDs/each optic 1 LEDS/each optic		White		e la
C12692_LENA-STD-BASE-CLL040		nts:		
DHILLDS LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 90 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: 21292_LENA-STD-BASE-CLL040 DHILLDS Entrimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: Efficiency LID Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 85 % LeDs/each optic 1 Light colour White Required components: Classe-chuod Light colour White Required components: Classe-chuod Light colour White Required components: Classe-chuod Classe_chuod Under the chuod Classe_chuod Under the chuod Classe_chuod Under the chuod				
LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 90 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-STD-BASE-CLL040	_			
LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 90 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-STD-BASE-CLL040				
LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 90 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-STD-BASE-CLL040				tr w v sr
LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 90 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-STD-BASE-CLL040	PHILI	S		2 ¹⁴
FWHM / FWTM Asymmetric Efficiency 90 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-STD-BASE-CLL040				
Efficiency 90 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040	FWHM / FWTM			
Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040	Efficiency			
LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS	=		and the second se	se la
Light colour White Required components: C12692_LENA-STD-BASE-CLL040	=			
Required components: C12692_LENA-STD-BASE-CLL040 PHILEDS LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS				
C12692_LENA-STD-BASE-CLL040				
PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS Fortimo SLM L23 CoB				
LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS				
LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS				
LED Fortimo SLM L23 CoB FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS				2.4 m/ et //p
FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS C11996_LENA-LENS	PHILI	PS		2"W
Efficiency 85 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS	LED	Fortimo SLM L23 CoB		
Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS	FWHM / FWTM	Asymmetric		
LEDs/each optic 1 Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS	Efficiency	85 %		
Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS	Peak intensity	0.5 cd/lm		
Light colour White Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS		1		
Required components: C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS		White		
C12692_LENA-STD-BASE-CLL040 C11996_LENA-LENS		nts:		Non and A
C11996_LENA-LENS				
				2" 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10



SAMS	UNG	
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	Asymmetric	
Efficiency	91 %	20
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C12691_LENA-	STD-BASE-CLL030	
SAMS	UNG	
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	Asymmetric	
Efficiency	87 %	
Peak intensity	0.5 cd/lm	Martin Carlo
LEDs/each optic	1	
Light colour	White	e 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Required compone		
	STD-BASE-CLL030	
_		
SAMSI	ING	
LED FWHM / FWTM	LC040D / LC060D / LC080D	
Efficiency	Asymmetric 91 %	
Peak intensity	0.6 cd/lm	st // ³⁴
LEDs/each optic	1	
Light colour	White	
Required compone		
	STD-BASE-CLL040	
012002_222101		
		12° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10
SAMS	JNG	·
LED	LC040D / LC060D / LC080D	
FWHM / FWTM	Asymmetric	
Efficiency	86 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
	ants:	
Required compone		
	STD-BASE-CLL040	



SHA	RP		
LED	Mega Zenigata (GW6DME)		
FWHM / FWTM	Asymmetric		1 1 100
Efficiency	87 %		
Peak intensity	0.5 cd/lm	10 / / / · · · ·	e / / e
LEDs/each optic	1		
Light colour	White		• / / **
Required compone			
C12292_LENA-	STD-BASE-MEZ		
		1. · · · · · · · · · · · · · · · · · · ·	
SHA	RP		
LED	Mega Zenigata (GW6DME)		
FWHM / FWTM	Asymmetric		- at
Efficiency	83 %		
Peak intensity	0.5 cd/lm	100 Jan 100 Ja	» / / »·
LEDs/each optic	1		
Light colour	White		ar a
Required compone			
	STD-BASE-MEZ		·/
C11996_LENA-			
CT1990_LLINA-			
		in the second se	· · · · · · · · · · · · · · · · · · ·
TRIDON	IIC		
LED	SLE G7 LES15		~ ~
FWHM / FWTM			1
	Asymmetric 92 %		
Efficiency			the second se
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		A AC
Light colour	White		• = = = = = = = = = = = = =
Required compone			
C12691_LENA-	STD-BASE-CLL030		$<\!$
		2.* ",	
TRIDO			
LED	SLE G7 LES17 H		× .
FWHM / FWTM	SLE G7 LES17 п 76.0° / 123.0°		1 al
Efficiency	91 %		
		set 1	and the second
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		
Light colour	White		"
Required compone			
C14547_LENA-	ADAPTER-B		X
		/ /	•\
			e 194 - Se



TRIDON	NIC	······································
LED	SLE G7 LES21 H	
FWHM / FWTM	Asymmetric	
Efficiency	90 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	fr. A man at an
Required compone	ents:	
C14547_LENA-	ADAPTER-B	
		and all the
	-	
XICATO)	
	XOB 14.5 mm	
LED	XOB 14.5 mm	
LED FWHM / FWTM	XOB 14.5 mm Asymmetric	
LED FWHM / FWTM Efficiency	XOB 14.5 mm Asymmetric 91 %	
LED FWHM / FWTM Efficiency Peak intensity	XOB 14.5 mm Asymmetric 91 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XOB 14.5 mm Asymmetric 91 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XOB 14.5 mm Asymmetric 91 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XOB 14.5 mm Asymmetric 91 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XOB 14.5 mm Asymmetric 91 % 0.6 cd/lm 1 White ents:	



bridgelux.		
LED	V10 Gen7	
FWHM / FWTM	Asymmetric	
Efficiency	85 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C13868_LENA-STE		
Bender Wirth: 486 T		
	,, , , , , , , , , , , , , , , , , , ,	
bridgelux.		15°
LED	V13 Gen7	
FWHM / FWTM	Asymmetric	
Efficiency	91 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C13868_LENA-STE	-BASE-VERO13-18	
Bender Wirth: 477 T	yp L1	
bridgelux.		
bridgelux. LED	V13 Gen7	
	V13 Gen7 Asymmetric	
LED		
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 87 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 87 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 87 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 87 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 87 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 87 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 87 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 87 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2103CT	Asymmetric 87 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2103CT	Asymmetric 87 % 0.7 cd/lm 1 White • 50-2100LN	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2103CT	Asymmetric 87 % 0.7 cd/lm 1 White 50-2100LN V13 Gen7	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2103CT bridgeLux LED FWHM / FWTM	Asymmetric 87 % 0.7 cd/lm 1 White 50-2100LN V13 Gen7 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2103CT	Asymmetric 87 % 0.7 cd/lm 1 White 50-2100LN V13 Gen7 Asymmetric 84 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2103CT bridgetux LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 87 % 0.7 cd/lm 1 White 50-2100LN V13 Gen7 Asymmetric 84 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2103CT DEAL: 50-2103CT	Asymmetric 87 % 0.7 cd/lm 1 White 50-2100LN V13 Gen7 Asymmetric 84 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2103CT DEAL: 50-2103CT DEAL: 50-2103CT EFWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 87 % 0.7 cd/lm 1 White \$50-2100LN V13 Gen7 Asymmetric 84 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2103CT DEAL: 50-2103CT EFWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 87 % 0.7 cd/lm 1 White 50-2100LN V13 Gen7 Asymmetric 84 % 0.7 cd/lm 1 White S	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2103CT DEAL: 50-2103CT DEAL: 50-2103CT EFMHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LEN	Asymmetric 87 % 0.7 cd/lm 1 White 50-2100LN V13 Gen7 Asymmetric 84 % 0.7 cd/lm 1 White S	



LED	CXA/B 30xx	
FWHM / FWTM	Asymmetric	*
Efficiency	82 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	50° 10° 10° 10°
Required components:		
IDEAL: 50-2234C + 5	0-2100LN	
		1
		/ ar + / /
		······································
LED	CXA/B 30xx	
FWHM / FWTM	Asymmetric	17 W
Efficiency	78 %	
LEDs/each optic	1	
Light colour	White	40° / 400 / 400
Required components:		
C11996_LENA-LENS		
IDEAL: 50-2234C + 5	0-2100LN	
	DS	EX
LED	LUXEON CoB 1204/1205	
FWHM / FWTM	Asymmetric	
Efficiency	83 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
	White	
Required components:	winte	
Required components: C12292_LENA-STD-		
	BASE-MEZ	
C12292_LENA-STD-	BASE-MEZ	
C12292_LENA-STD- C11996_LENA-LENS	BASE-MEZ	
C12292_LENA-STD- C11996_LENA-LENS	BASE-MEZ	
C12292_LENA-STD- C11996_LENA-LENS	BASE-MEZ S DS LUXEON CoB 1204/1205	
C12292_LENA-STD- C11996_LENA-LENS C11996_LENA-LENS LED FWHM / FWTM	BASE-MEZ S LUXEON CoB 1204/1205 Asymmetric	
C12292_LENA-STD- C11996_LENA-LENS C11996_LENA-LENS LED FWHM / FWTM Efficiency	BASE-MEZ S DS LUXEON CoB 1204/1205 Asymmetric 90 %	
C12292_LENA-STD- C11996_LENA-LENS C11996_LENA-LENS CLUMILEI LED FWHM / FWTM Efficiency Peak intensity	BASE-MEZ S LUXEON CoB 1204/1205 Asymmetric	
C12292_LENA-STD- C11996_LENA-LENS C11996_LENA-LENS COMPLET LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	BASE-MEZ S LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1	
C12292_LENA-STD- C11996_LENA-LENS C11996_LENA-LENS COMPLET LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	BASE-MEZ S LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm	
C12292_LENA-STD- C11996_LENA-LENS C11996_LENA-LENS COMPLET LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	BASE-MEZ LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White	
C12292_LENA-STD- C11996_LENA-LENS C11996_LENA-LENS CLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	BASE-MEZ LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White	
C12292_LENA-STD- C11996_LENA-LENS C11996_LENA-LENS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	BASE-MEZ LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White	



LUMILE	EDS	67 A
LED	LUXEON CoB 1208	
FWHM / FWTM	Asymmetric	
Efficiency	90 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required component	s:	
C12292_LENA-S1	D-BASE-MEZ	
		2 ⁵ <u>10</u> <u>10</u> <u>10</u>
	EDS	6.7
LED	LUXEON CoB 1208	
FWHM / FWTM	Asymmetric	24
Efficiency	82 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	of the second se
Required component	s:	
C12292_LENA-S1	TD-BASE-MEZ	
C11996_LENA-LE	NS	
		1.5
	DS	E 177 U 26
LED	LUXEON K12	
FWHM / FWTM	Asymmetric	
Efficiency	%	
LEDs/each optic	1	
Light colour	White	
Required component	s:	
C12924_LENA-S1	TD-BASE-LUXEON-K	
C11996_LENA-LE	INS	
	EDS	
LED	LUXEON K12	
FWHM / FWTM	Asymmetric	
Efficiency	%	
LEDs/each optic	1	
	White	
Light colour	·e·	
Light colour Required component		
Required component	ID-BASE-LUXEON-K	
Required component		



LUMILEDS

LED	LUXEON K16
FWHM / FWTM	Asymmetric
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	
C12924_LENA-STD-B	ASE-LUXEON-K
C11996_LENA-LENS	

LUMILEDS

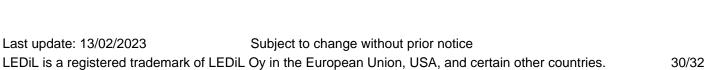
LED	LUXEON K16
FWHM / FWTM	Asymmetric
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	
C12924_LENA-STD-E	BASE-LUXEON-K

ELUMINUS

CxM-14 (19x19)
Asymmetric
91 %
0.6 cd/lm
1
White
BASE-VERO13-18
o L1

Last update: 13/02/2023

LED	Soleriq S15
FWHM / FWTM	Asymmetric
Efficiency	86 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C12691_LENA-STD-E	BASE-CLL030





Sacha		
SEQUE SEMICONDUCTOR		
LED	ZC12/18	
FWHM / FWTM	Asymmetric	
Efficiency	91 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components	S:	
	D-BASE-VERO13-18	
Bender Wirth: 433	Тур L1	
SHA	Sb	
LED	Mega Zenigata (GW5DGC)	
FWHM / FWTM	Asymmetric	
Efficiency	%	
LEDs/each ontic	1	
-	1 White	
Light colour	White	
Light colour Required components	White s:	
Light colour	White s:	
Light colour Required components	White s:	
Light colour Required components	White s:	
Light colour Required components C12292_LENA-ST	White s: D-BASE-MEZ	
Light colour Required components C12292_LENA-ST	White s: D-BASE-MEZ	
Light colour Required components C12292_LENA-ST	White s: ID-BASE-MEZ	
Light colour Required components C12292_LENA-ST	White s: D-BASE-MEZ RCP Mega Zenigata (GW5DGC)	
Light colour Required components C12292_LENA-ST SHA LED FWHM / FWTM	White s: D-BASE-MEZ RCP Mega Zenigata (GW5DGC) Asymmetric	
Light colour Required components C12292_LENA-ST SHAI LED FWHM / FWTM Efficiency	White s: ID-BASE-MEZ RPP Mega Zenigata (GW5DGC) Asymmetric %	
Light colour Required components C12292_LENA-ST SHAT LED FWHM / FWTM Efficiency LEDs/each optic	White s: ID-BASE-MEZ RCP Mega Zenigata (GW5DGC) Asymmetric % 1	
Light colour Required components C12292_LENA-ST SHAT LED FWHM / FWTM Efficiency LEDs/each optic Light colour	White s: ID-BASE-MEZ RCP Mega Zenigata (GW5DGC) Asymmetric % 1 White	
Light colour Required components C12292_LENA-ST SHAC LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components	White S: ID-BASE-MEZ RCP Mega Zenigata (GW5DGC) Asymmetric % 1 White S:	
LEDs/each optic Light colour Required components C12292_LENA-ST SHACE ESHACE FWHM / FWTM Efficiency LEDs/each optic Light colour Required components C12292_LENA-ST C11996_LENA-LE	White S: D-BASE-MEZ Mega Zenigata (GW5DGC) Asymmetric % 1 White S: D-BASE-MEZ	



PRODUCT DATASHEET C13101_LENA-X-WAS

GENERAL INFORMATION:

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

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

MATERIALS:

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

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

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