

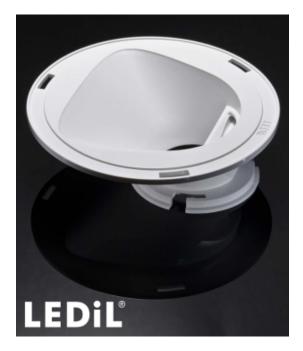
PRODUCT DATASHEET C13101_LENA-X-WAS

LENA-X-WAS

White version with asymmetric beam for wall-washing

TECHNICAL SPECIFICATIONS:

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



MATERIAL SPECIFICATIONS:

Component LENA-X-WAS	Type Reflector	Material HRPC	Colour white	I	-inish	Coating
ORDERING INFORM	MATION:					
Component C13101_LENA-X-WAS » Box size: 480 x 280 x 3	300 mm		Qty in box 56	MOQ 56	MPQ 56	Box weight (kg) 3.2



www.ledil.com/installation_guide



bridgelux.		90°
LED	BXRA ES Rectangle	
FWHM / FWTM	Asymmetric	73 6 73 6
Efficiency	77 %	
Peak intensity	0.5 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	45° () 45°
Required compone	nts:	
C12153_LENA-S	STD-BASE-BXRA	400
C11996_LENA-L	ENS	
		30° 15' 0° 15' 30'
bridgelux.		90* 90*
LED	BXRA ES Rectangle	
FWHM / FWTM	Asymmetric	73°
Efficiency	81 %	
Peak intensity	0.5 cd/lm	60°.
LEDs/each optic	1	
Light colour	White	45* 45*
Required compone	nts:	400
C12153_LENA-S	STD-BASE-BXRA	
		30* 600 30*
1		15° 0° 15°
bridgelux.		22 ³ 0 ⁴ 25 ⁴
bridgelux. LED	BXRA RS	15 ² d ⁴ 15 ²
	BXRA RS Asymmetric	15 ² d ⁴ 15 ²
LED		32 ⁴ 39 ⁴ 15 ⁴
LED FWHM / FWTM	Asymmetric	200 200 200 201
LED FWHM / FWTM Efficiency	Asymmetric 83 %	200 - 200 - 604
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 83 % 0.5 cd/lm	10 ² 0 ² 10 ² 10 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 83 % 0.5 cd/m 1 White hts:	15 ² q ⁴ 15 ² 9 ² 17 ³ 4 ⁴ 40 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 83 % 0.5 cd/m 1 White hts:	200 200 200 60 ⁴ 200 60 ⁴ 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 83 % 0.5 cd/lm 1 White hts: STD-BASE-RS	200 40 40 40 40 40 40 40 40 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12229_LENA-S	Asymmetric 83 % 0.5 cd/lm 1 White hts: STD-BASE-RS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12229_LENA-S	Asymmetric 83 % 0.5 cd/lm 1 White hts: STD-BASE-RS	23 23 25 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12229_LENA-S C11996_LENA-L	Asymmetric 83 % 0.5 cd/lm 1 White hts: STD-BASE-RS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12229_LENA-S C11996_LENA-L	Asymmetric 83 % 0.5 cd/lm 1 White hts: STD-BASE-RS ENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12229_LENA-S C11996_LENA-L bridgeLUX. LED FWHM / FWTM Efficiency	Asymmetric 83 % 0.5 cd/lm 1 White hts: STD-BASE-RS ENS BXRA RS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12229_LENA-S C11996_LENA-L DrdgeLUX. LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 83 % 0.5 cd/m 1 White hts: STD-BASE-RS ENS BXRA RS Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12229_LENA-S C11996_LENA-L Dridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 83 % 0.5 cd/m 1 White hts: STD-BASE-RS ENS BXRA RS Asymmetric 87 % 0.5 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12229_LENA-S C11996_LENA-L D FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 83 % 0.5 cd/m 1 White hts: STD-BASE-RS ENS BXRA RS Asymmetric 87 % 0.5 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12229_LENA-S C11996_LENA-L D FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 83 % 0.5 cd/lm 1 White hts: STD-BASE-RS ENS BXRA RS Asymmetric 87 % 0.5 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12229_LENA-S C11996_LENA-L D FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 83 % 0.5 cd/lm 1 White hts: STD-BASE-RS ENS BXRA RS Asymmetric 87 % 0.5 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12229_LENA-S C11996_LENA-L D FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 83 % 0.5 cd/lm 1 White hts: STD-BASE-RS ENS BXRA RS Asymmetric 87 % 0.5 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12229_LENA-S C11996_LENA-L D FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 83 % 0.5 cd/lm 1 White hts: STD-BASE-RS ENS BXRA RS Asymmetric 87 % 0.5 cd/lm 1 White hts:	



bridgelux.			90°
LED	V10 Gen6		75'
FWHM / FWTM	Asymmetric		
Efficiency	82 %		60*
Peak intensity	0.5 cd/lm		
LEDs/each optic	1	1 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A	
Light colour	White		g
Required compone			
	STD-BASE-CXA15	and the second se	
C11996_LENA-	LENS		
			30° 125° 0° 25° 30°
bridgelux.			90* 9 0*
LED	V22 Gen7	1	
FWHM / FWTM	Asymmetric		73.
Efficiency	83 %		
Peak intensity	0.5 cd/lm		200
LEDs/each optic	1		
Light colour	White		45° 65°
Required compone	ents:		460
C13867_LENA-	STD-BASE-VERO29		
C11996_LENA-			
Bender Wirth: 4	31 Тур L3		30° 13° 30°
bridgelux.			90* 90*
bridgelux. LED	V22 Gen7		90* 90*
	V22 Gen7 Asymmetric		92* 92* 73* 77.
LED			90* 90* 73* 90*
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric		90° 90° 73° 72° 66° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.5 cd/lm 1		90° 90° 75° 75° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.5 cd/lm 1 White		9° 73° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 86 % 0.5 cd/lm 1 White ents:		50° 50° 50° 50° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29		\$* 50 50 50 50 60 60 60 60 60 60 60 60 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C14169_LENA-	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS		50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS		20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C14169_LENA-	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS		9° 9° 40° 50° 50° 60° 50° 60° 60° 60° 60° 60° 60° 60° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C14169_LENA- Bender Wirth: 4	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS		90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C14169_LENA- Bender Wirth: 4 bridgeLux. LED FWHM / FWTM	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS 31 Typ L3 Vero SE 29 Asymmetric		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C14169_LENA- Bender Wirth: 4 bridgeLux, LED FWHM / FWTM Efficiency	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS 31 Typ L3 Vero SE 29		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C14169_LENA- Bender Wirth: 4 bridgelux. LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS 31 Typ L3 Vero SE 29 Asymmetric		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C14169_LENA- Bender Wirth: 4 bridgeLux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS 31 Typ L3 Vero SE 29 Asymmetric 90 % 0.5 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C14169_LENA- Bender Wirth: 4 bridgeLux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS 31 Typ L3 Vero SE 29 Asymmetric 90 % 0.5 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C14169_LENA- Bender Wirth: 4 bridgeLux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS 31 Typ L3 Vero SE 29 Asymmetric 90 % 0.5 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C14169_LENA- Bender Wirth: 4 bridgeLux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS 31 Typ L3 Vero SE 29 Asymmetric 90 % 0.5 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C14169_LENA- Bender Wirth: 4 bridgeLux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS 31 Typ L3 Vero SE 29 Asymmetric 90 % 0.5 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C14169_LENA- Bender Wirth: 4 bridgeLux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 CLEAR-LENS 31 Typ L3 Vero SE 29 Asymmetric 90 % 0.5 cd/lm 1 White ents:		



bridgelux.		90° 90°
LED	VERO13	
FWHM / FWTM	Asymmetric	73.0
Efficiency	92 %	200
Peak intensity	0.6 cd/lm	60°
LEDs/each optic	1	
Light colour	White	45° 400 45°
Required compone	ints:	
	STD-BASE-VERO13-18	
		600
		30* 30* 30*
bridgelux.		90* 90*
LED	VERO18	
FWHM / FWTM	Asymmetric	73°
Efficiency	91 %	200
Peak intensity	0.6 cd/lm	- 60 ⁴
LEDs/each optic	1	
Light colour	White	45* 400 5*
Required compone	ints:	
	STD-BASE-VERO13-18	
		(30° 30° 30° 15° 30°
bridgelux.		90* 90*
bridgeluX. LED	VERO29	90° 90°
	VERO29 Asymmetric	90° 90° 73° 70°
LED		97 97 739 97 73
LED FWHM / FWTM	Asymmetric	90° 90° 750 70° 70° 60° 60°
LED FWHM / FWTM Efficiency	Asymmetric 84 %	99° 90° 73° 73° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.5 cd/lm	97* 90* 73* 74* 60* 60* 60* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.5 cd/lm 1 White	99° 90° 73° 90° 60° 90° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 84 % 0.5 cd/lm 1 White	99 ¹ 19
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29	97° 97° 64° 970 97° 65° 970 97°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-	Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29	99° 90° 73° 90° 60° 70° 60° 60° 60° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA-	Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA-	Asymmetric 84 % 0.5 cd/lm 1 White ints: STD-BASE-VERO29 LENS	97° 73° 66° 66° 66° 66° 66° 66° 66° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- bridgeLux, LED	Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 LENS VERO29	97 ⁴ 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Dridgelux. LED FWHM / FWTM	Asymmetric 84 % 0.5 cd/lm 1 White ints: STD-BASE-VERO29 LENS VERO29 Asymmetric	99° 23° 60° 60° 60° 60° 60° 60° 60° 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- C11996_LENA- bridgeLUX. LED FWHM / FWTM Efficiency	Asymmetric 84 % 0.5 cd/lm 1 White ints: STD-BASE-VERO29 LENS VERO29 Asymmetric 89 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- C11996_LENA- bridgeLUX. LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.5 cd/lm 1 White ints: STD-BASE-VERO29 LENS VERO29 Asymmetric 89 % 0.5 cd/lm	97 ¹ 73 ¹ 64 ² 97 ¹ 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- C11996_LENA- bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.5 cd/lm 1 White ints: STD-BASE-VERO29 LENS VERO29 Asymmetric 89 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- C11996_LENA- DFMHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.5 cd/lm 1 White ints: STD-BASE-VERO29 LENS VERO29 Asymmetric 89 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- C11996_LENA- DirdgeLX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 LENS VERO29 Asymmetric 89 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- C11996_LENA- DirdgeLX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 84 % 0.5 cd/lm 1 White ints: STD-BASE-VERO29 LENS VERO29 Asymmetric 89 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- C11996_LENA- DirdgeLX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 LENS VERO29 Asymmetric 89 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- C11996_LENA- DirdgeLX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 LENS VERO29 Asymmetric 89 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29	



CITIZE	Ν	9°	90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C11995_LENA-	CL-L340 Asymmetric 84 % 1.2 cd/lm 1 White nts: STD-BASE-CL340		
CITIZE	N	2000 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 20	90
LED	CL-L340		
FWHM / FWTM	Asymmetric	724	
Efficiency	82 %	40	
Peak intensity	0.5 cd/lm		200
LEDs/each optic	1		
Light colour	White	67 A	
Required compone			
	STD-BASE-CL340		
C11996_LENA-	LENS		
		20* <u>1</u>	0° 15* 30
CITIZE	N	80*	90
LED	CLL03x/CLU03x		
FWHM / FWTM	Asymmetric	724	
	81 %		
Efficiency	01 /0		800
	1.2 cd/lm	50 ⁶	
Peak intensity			
Peak intensity LEDs/each optic	1.2 cd/lm		
-	1.2 cd/lm 1 White	, det	100
Peak intensity LEDs/each optic Light colour Required compone	1.2 cd/lm 1 White		160
Peak intensity LEDs/each optic Light colour Required compone	1.2 cd/lm 1 White nts:		160
Peak intensity LEDs/each optic Light colour Required compone	1.2 cd/lm 1 White nts:		
Peak intensity LEDs/each optic Light colour Required compone C12691_LENA-	1.2 cd/lm 1 White nts: STD-BASE-CLL030		800 800 0 ⁰ 15 ⁰ 800
Peak intensity LEDs/each optic Light colour Required compone C12691_LENA-	1.2 cd/lm 1 White nts: STD-BASE-CLL030		
Peak intensity LEDs/each optic Light colour Required compone C12691_LENA-: CITTIZE LED	1.2 cd/lm 1 White nts: STD-BASE-CLL030 N CLL03x/CLU03x		
Peak intensity LEDs/each optic Light colour Required compone C12691_LENA-: CITTIZE LED FWHM / FWTM	1.2 cd/lm 1 White nts: STD-BASE-CLL030 N CLL03x/CLU03x Asymmetric		
Peak intensity LEDs/each optic Light colour Required compone C12691_LENA- CITTIZE LED FWHM / FWTM Efficiency	1.2 cd/lm 1 White nts: STD-BASE-CLL030 N CLL03x/CLU03x Asymmetric 80 %		
Peak intensity LEDs/each optic Light colour Required compone C12691_LENA- CITTIZE LED FWHM / FWTM Efficiency Peak intensity	1.2 cd/lm 1 White nts: STD-BASE-CLL030 N CLL03x/CLU03x Asymmetric 80 % 0.5 cd/lm		
Peak intensity LEDs/each optic Light colour Required compone C12691_LENA- CITERE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1.2 cd/lm 1 White nts: STD-BASE-CLL030 N CLL03x/CLU03x Asymmetric 80 % 0.5 cd/lm 1		
Peak intensity LEDs/each optic Light colour Required compone C12691_LENA- CITERE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.2 cd/lm 1 White nts: STD-BASE-CLL030 N CLL03x/CLU03x Asymmetric 80 % 0.5 cd/lm 1 White		
Peak intensity LEDs/each optic Light colour Required compone C12691_LENA- CITEIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	1.2 cd/lm 1 White nts: STD-BASE-CLL030 N CLL03x/CLU03x Asymmetric 80 % 0.5 cd/lm 1 White nts:		
Peak intensity LEDs/each optic Light colour Required compone C12691_LENA- CITEIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12691_LENA-	1.2 cd/lm 1 White nts: STD-BASE-CLL030 N CLL03x/CLU03x Asymmetric 80 % 0.5 cd/lm 1 White nts: STD-BASE-CLL030		
Peak intensity LEDs/each optic Light colour Required compone C12691_LENA- CITEIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	1.2 cd/lm 1 White nts: STD-BASE-CLL030 N CLL03x/CLU03x Asymmetric 80 % 0.5 cd/lm 1 White nts: STD-BASE-CLL030		



CITIZE	N			90*	
LED	CLL03x/CLU03x				
FWHM / FWTM	Asymmetric			730	
Efficiency	91 %			\searrow //-	200
Peak intensity	0.6 cd/lm			50*	
LEDs/each optic	1				
Light colour	White			45*	400
Required compone	ents:	A REAL PROPERTY.			
C13868_LENA-	STD-BASE-VERO13-18				$< / \times$
Bender Wirth: 43	33 Typ L1			1	600
				30* 155	0° 15°
CITIZE	N			90*	
LED	CLL04x/CLU04x				
FWHM / FWTM	Asymmetric			754	
Efficiency	82 %			$ $ \times \times $ $	
Peak intensity	1 cd/lm			66*	200
LEDs/each optic	1		1000	$ \times $	
Light colour	White		-	45*	
Required compone	ents:				400
	STD-BASE-CLL040				
				\times $ $	\square
				/30*	600
	'N			30° 13 ⁵	600 0° 15*
				30* 125 ^b	500 0 ⁴ 15*
LED	CLL04x/CLU04x			90° 55 ³	
LED FWHM / FWTM	CLL04x/CLU04x Asymmetric			30- 20-	<u> </u>
LED FWHM / FWTM Efficiency	CLL04x/CLU04x Asymmetric 85 %			64 ²	
LED FWHM / FWTM Efficiency Peak intensity	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm			50° 23°	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/Im 1			60 ^x	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White			67 66 70 50 20 20 20	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents:			-67" -67" -73" -29"	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29			92. 92. 33. 96. 36.	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS			-0°-	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 43	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 31 Typ L3			20 ¹⁰ 20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4:	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White white STD-BASE-VERO29 LENS 31 Typ L3			20* 20* 20* 20* 20* 20* 20*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4: CITTIZEE LED	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 31 Typ L3			20- 20- 20- 20- 20- 20- 20- 20- 20- 20-	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4: CITTIZEE LED FWHM / FWTM	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 31 Typ L3			30* 32*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4: CITTIZE LED FWHM / FWTM Efficiency	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 31 Typ L3			60° 90° 90° 90° 90° 90° 90° 90° 9	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4: CITTIZE LED FWHM / FWTM Efficiency Peak intensity	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 31 Typ L3 CLL04x/CLU04x Asymmetric 84 % 0.5 cd/lm			50° 22° 22° 22° 22° 22° 22° 22° 22° 22° 2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4: CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 31 Typ L3 CLL04x/CLU04x Asymmetric 84 % 0.5 cd/lm 1			50° 20°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4: CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 31 Typ L3 CLL04x/CLU04x Asymmetric 84 % 0.5 cd/lm 1 White			6°- 20- 20- 20- 20- 20- 20- 20- 20- 20- 20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4: CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 31 Typ L3 CLL04x/CLU04x Asymmetric 84 % 0.5 cd/lm 1 White ents:			62. 26. 26. 26. 27. 27. 27. 27. 27. 27. 27. 27	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4: CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C11996_LENA-	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 31 Typ L3 CLL04x/CLU04x Asymmetric 84 % 0.5 cd/lm 1 White ents: LENS			62. 97. 96. 96. 96. 96. 96. 96. 96. 96	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4: CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C11996_LENA-	CLL04x/CLU04x Asymmetric 85 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 31 Typ L3 CLL04x/CLU04x Asymmetric 84 % 0.5 cd/lm 1 White ents:			6°- 20- 20- 20- 20- 20- 20- 20- 20- 20- 20	



CITIZE	N	91* 91*
LED	CLL04x/CLU04x	
FWHM / FWTM	Asymmetric	75*
Efficiency	74 %	
Peak intensity	0.5 cd/lm	60*
-		200
LEDs/each optic		
Light colour	White	* *
Required compone		
	STD-BASE-CLL040	
C11996_LENA-	LENS	
		30* 15 ⁴ 30*
CITIZE	N	90°
LED	CLL04x/CLU04x	
FWHM / FWTM	Asymmetric	73*
Efficiency	90 %	200
Peak intensity	0.5 cd/lm	50° 60°.
LEDs/each optic	1	
Light colour	White	
Required compone		
	STD-BASE-VERO29	
Bender Wirth: 4		
Dender Wittil. 4	ST TYP ES	600
		30* 15° 0° 15* 30*
CITIZE	N	9/* 9/*
LED	CLU710/711	
FWHM / FWTM	Asymmetric	754 751
Efficiency	91 %	
Peak intensity	0.6 cd/lm	-00° 60°.
LEDs/each optic	1	
Light colour	White	
Required compone		400
	STD-BASE-CLL030	
CT203T_LENA		
		000
		30° 15' 0° 10° 30°
CITIZE	N	
LED	CLU710/711	
FWHM / FWTM	Asymmetric	75%
Efficiency	86 %	
Peak intensity	0.5 cd/lm	504 684
LEDs/each optic	1	
	ı White	
Light colour		ee.
Required compone		400
	STD-BASE-CLL030	
C11996_LENA-	LEINO	
		30°
		24 0. 13



CITIZE	N	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU720/721 Asymmetric 91 % 0.6 cd/lm 1 White nts: STD-BASE-VERO13-18	
CITIZE	CLU730/731	90°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.5 cd/lm 1 White	
Required compone C12692_LENA-	nts: STD-BASE-CLL040	20° <u>13</u> ° <u>60</u> <u>3</u> 0° <u>3</u> 0° <u>3</u> 0°
		80° - 81'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CMA1840 Asymmetric 90 % 0.6 cd/lm 1 White	
Required compone		
LED	CMA2550 Asymmetric	90°
Efficiency Peak intensity LEDs/each optic Light colour	91 % 0.6 cd/lm 1 White	
Required compone	nts: STD-BASE-CXA25	



	D		
LED	CMT14xx		
FWHM / FWTM	Asymmetric		75%
Efficiency	90 %		
Peak intensity	0.6 cd/lm		504
LEDs/each optic	1		
Light colour	White		
Required compone			
	-STD-BASE-VERO13-18		
Bender Wirth: 4			
			30" 15 ⁵ 0 ⁶ 15"
	D		901
LED	CMT19xx		
FWHM / FWTM	Asymmetric		730
Efficiency	91 %		
Peak intensity	0.6 cd/lm		507
LEDs/each optic	1		
Light colour	White		45* 400
Required compone	ents:		
	-STD-BASE-VERO13-18		
Bender Wirth: 4			640
			30° 13 ³ 0° 15 ⁴
	D		90*
LED	CMT19xx		
FWHM / FWTM	Asymmetric		750
Efficiency	91 %		200
Peak intensity	0.6 cd/lm		50*
LEDs/each optic	1		
Light colour	White		45* 400
Required compone	ents:		
	-STD-BASE-CLL030		
			600
			30° 10° 10°
CREE 🔶 LE	D		90*
LED	CMT28xx		
FWHM / FWTM	Asymmetric		73
Efficiency	89 %		200
Peak intensity	0.5 cd/lm		60* / / / / / / / / / / / / / / / / / / /
LEDs/each optic	1		
Light colour	White		45+ 400
Required compone	ents:		
C13867_LENA-	STD-BASE-VERO29		X / Y
Bender Wirth: 4	71 Typ L3		000
			15° 0° 15°



LED	CMT28xx	30.
FWHM / FWTM	Asymmetric	750 76
Efficiency	90 %	200
Peak intensity	0.6 cd/lm	604 604
LEDs/each optic	1	
Light colour	White	
Required compone		
	STD-BASE-CLL040	
		600
		30° 15° 30°
		90* 90*
LED	CXA/B 15xx	
FWHM / FWTM	Asymmetric	28°
Efficiency	91 %	50 ⁴
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	451 460 451
Required compone		
C13868_LENA-8	STD-BASE-VERO13-18	X X X
Bender Wirth: 44	I1 Typ L1	600
		(30° 30° 30° 30°
		90" 10 ¹ 0 ¹ 13 ¹ 90 ¹
	CXA/B 15xx	90°
	CXA/B 15xx	20- 20- 20- 20- 20- 20- 20- 20- 20- 20-
LED		20 ⁴ 20 ⁵ 20 ⁵ 20 ⁵ 20 ⁵ 20 ⁵
LED FWHM / FWTM	CXA/B 15xx Asymmetric	90 [*] 25 ³ 0 ³ 15 ³ 9 ⁵
LED FWHM / FWTM Efficiency	CXA/B 15xx Asymmetric 84 %	25 ⁴
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 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White	20 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-S	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15	30* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30* 30* 60* 30* 460 60* 30* 10* 10*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-S C11996_LENA-I	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15 LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-S C11996_LENA-I	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15 LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-S C11996_LENA-I	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15 ENS CXA/B 15xx	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-S C11996_LENA-I	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15 LENS CXA/B 15xx Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-S C11996_LENA-I CT1996_LENA-I	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15 ENS CXA/B 15xx Asymmetric 88 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-S C11996_LENA-I CT1996_LENA-I	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15 _ENS CXA/B 15xx Asymmetric 88 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-S C11996_LENA-L C11996_LENA-L Efficiency Peak intensity LEDs/each optic	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15 LENS CXA/B 15xx Asymmetric 88 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-S C11996_LENA-LENA-S C11996_LENA-LENA-S C11996_LENA-LENA-S C11996_LENA-LENA-S C11996_LENA-LENA-S C11996_LENA-LENA-S C11996_LENA-S C11996_LENA-S C11996_LENA-S C11996_LENA-S C11996_LENA-S C11996_LENA-S C11996_LENA-S	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15 LENS CXA/B 15xx Asymmetric 88 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-S C11996_LENA-I CREE LENA-I EFMHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15 ENS CXA/B 15xx Asymmetric 88 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-S C11996_LENA-I CTEEE>LEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15 LENS CXA/B 15xx Asymmetric 88 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13186_LENA-S C11996_LENA-I CREE LENA-I EFMHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 15xx Asymmetric 84 % 0.5 cd/lm 1 White nts: STD-BASE-CXA15 ENS CXA/B 15xx Asymmetric 88 % 0.6 cd/lm 1 White nts:	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 Asymmetric 91 % 0.6 cd/lm 1 White	
		15 ⁵ 0 ⁴ 13 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 Asymmetric 90 % 0.6 cd/lm 1 White nts: STD-BASE-VERO13-18	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13324_LENA-S C11996_LENA-I	CXA/B 25xx Asymmetric 78 % 0.5 cd/lm 1 White nts: STD-BASE-CXA25 LENS	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13324_LENA-S C11996_LENA-I	CXA/B 25xx Asymmetric 73 % 0.9 cd/lm 1 White nts: STD-BASE-CXA25	20° 00° 12° 20° 00° 20° 00° 20° 00° 20° 00° 20° 00°



	D		90*
LED	CXA/B 25xx		
FWHM / FWTM	Asymmetric		730 76
Efficiency	82 %		
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		
Light colour	White		45'
Required compone			440
	STD-BASE-CXA25		
			600
			130* 30 15° 0° 15* 30
	D		90* 90
LED	CXA2011		
FWHM / FWTM	Asymmetric		75*
Efficiency	83 %		200
Peak intensity	0.5 cd/lm		
LEDs/each optic	1		
Light colour	White		45* 440 45
Required compone	ents:		
C12105_LENA-	STD-BASE-CXA20		
			640
			30 13 ⁵ 0 ⁶ 15 ⁶
CREE ÷ LEI	0		90° 99
LED	CXA2011		
FWHM / FWTM	Asymmetric		75
Efficiency	80 %		
Peak intensity	0.5 cd/lm		50° 50
LEDs/each optic	1		
Light colour	White		45*
Required compone	ents:		400
C12105_LENA-	STD-BASE-CXA20		
C11996_LENA-	LENS		
			30 ⁴ 10 ² 0 ² 10 ⁴ 30
	EDS		NO
LED	LUXEON CoB 1202/1203		90
FWHM / FWTM	Asymmetric		73 77
Efficiency	Asymmetric 91 %		
Peak intensity	91 % 0.6 cd/lm		505 50
LEDs/each optic	1		
Light colour	White		
Required compone			45
	STD-BASE-VERO13-18	-	
Bender Wirth: 43			
	оотур шт		600
			30* 15 ³ 0* 19* 30



				~ 1	
🥙 LUMIL	EDS		90	,e	
LED	LUXEON CoB 1204HD				
FWHM / FWTM	Asymmetric		75	r //	
Efficiency	91 %				
Peak intensity	0.6 cd/lm		.60	* \ <u>_</u> ////	
LEDs/each optic	1				
Light colour	White		4	r \ \	100 at
Required compone	nts:				
	STD-BASE-COB-L110			$\times \vee >$	

			s)° 15°	o ⁶ 15* 34
	EDS		90	44	9
LED	LUXEON CoB 1205HD				
FWHM / FWTM	Asymmetric		7	10 × /	
Efficiency	91 %				
Peak intensity	0.6 cd/lm		.60	or \///	
LEDs/each optic	1				
Light colour	White		42	v X	uo a
Required compone	nts:				
	STD-BASE-COB-L110				$< / \times$
_				1	80
)	()	
			/30	155	9° 15° 3
	EDS		(36	y* 13 ⁵	ol- 15+ 34
		1000		25 ²	***************************************
	LUXEON CoB 1211	1000	2	··· 20	
LED			.28		
LED FWHM / FWTM	LUXEON CoB 1211 Asymmetric		.33		
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1211 Asymmetric 85 %		.33		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm		.25		
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White		.**		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1211 Asymmetric 85 % 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-3	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 LENS		.**		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-3 C11996_LENA-1	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 LENS 31 Typ L3				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-3 C11996_LENA-1 Bender Wirth: 43	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 LENS 31 Typ L3		.**		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-3 C11996_LENA-1 Bender Wirth: 43	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 LENS 31 Typ L3				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-3 C11996_LENA-1 Bender Wirth: 43	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 LENS 31 Typ L3 EDS LUXEON CoB 1211		.**		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-3 C11996_LENA-1 Bender Wirth: 43	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 LENS 31 Typ L3 EDS LUXEON CoB 1211 Asymmetric		2 (2) 2 2 2 2 2 2 2 2 2 2 2 2 2		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-3 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 LENS 31 Typ L3 EDS LUXEON CoB 1211 Asymmetric 89 %				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-3 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 LENS 31 Typ L3 EDS LUXEON CoB 1211 Asymmetric 89 % 0.5 cd/lm				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-3 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43 C11996_LENA-4 Bender Wirth: 43	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 LENS 31 Typ L3 EDS LUXEON CoB 1211 Asymmetric 89 % 0.5 cd/lm 1 White				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-I Bender Wirth: 43 C11996_LENA-I Bender Wirth: 43 C11996_LENA-I Bender Wirth: 43 C11996_LENA-I Bender Wirth: 43 C11996_LENA-I Bender Wirth: 43 C11996_LENA-I Bender Wirth: 43 EDS/each optic Light colour Required compone	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 LENS 31 Typ L3 EDS LUXEON CoB 1211 Asymmetric 89 % 0.5 cd/lm 1 White nts:				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-3 C11996_LENA-1 Bender Wirth: 43 C11996_LENA-1 Bender Wirth: 43 C11996_LENA-1 EFWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-3	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 ENS 31 Typ L3 EDS LUXEON CoB 1211 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-I Bender Wirth: 43 C11996_LENA-I Bender Wirth: 43 C11996_LENA-I Bender Wirth: 43 C11996_LENA-I Bender Wirth: 43 C11996_LENA-I Bender Wirth: 43 C11996_LENA-I Bender Wirth: 43 EDS/each optic Light colour Required compone	LUXEON CoB 1211 Asymmetric 85 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29 ENS 31 Typ L3 EDS LUXEON CoB 1211 Asymmetric 89 % 0.5 cd/lm 1 White nts: STD-BASE-VERO29				



	FDS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1216/1812 Asymmetric 87 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040	
	EDS	23 ⁴ 0 ⁴ 13 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C11996_LENA-	LUXEON CoB 1216/1812 Asymmetric 81 % 0.5 cd/lm 1 White ents:	
	FDS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1216/1812 75.0° / 123.0° 85 % 0.5 cd/lm 1 White	
	EDS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1216/1812 Asymmetric 92 % 0.6 cd/lm 1 White	



lea			
	NUS	8°	90*
LED	CDM-14 (Dim-To-Warm)		
FWHM / FWTM	Asymmetric	73*	77
Efficiency	86 %		
Peak intensity	0.5 cd/lm	50*	200 60*
LEDs/each optic	1		
Light colour	White	-67	5*
Required compone	nts:		400
C13868_LENA-{	STD-BASE-VERO13-18		
C11996_LENA-L	LENS		
Bender Wirth: 49	91 Typ L2	30* <u>10</u>	aito 15° 30°
	NUS		90*
LED	CDM-14 (Dim-To-Warm)		
FWHM / FWTM	Asymmetric	73	77
Efficiency	91 %		200
Peak intensity	0.5 cd/lm	505	60*
LEDs/each optic	1		
Light colour	White	5.	400 45*
Required compone	nts:		
C13868_LENA-	STD-BASE-VERO13-18		
Bender Wirth: 49	91 Typ L2		600
			of 18*
LED	CDM-18 (Dim-To-Warm)	- 50°	90*
EED FWHM / FWTM	Asymmetric	73*	71
	Asymmetric		
Efficiency	86 %		
Efficiency Reak intensity	86 % 0.5 cd/m	50	20060*
Peak intensity	0.5 cd/lm	Ser Contraction of the Contracti	200
Peak intensity LEDs/each optic	0.5 cd/lm 1		64
Peak intensity LEDs/each optic Light colour	0.5 cd/lm 1 White	57	200
Peak intensity LEDs/each optic Light colour Required component	0.5 cd/lm 1 White nts:		200
Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-S	0.5 cd/lm 1 White nts: STD-BASE-VERO13-18	47 47	20 64
Peak intensity LEDs/each optic Light colour Required component	0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS		20 64
Peak intensity LEDs/each optic Light colour Required componel C13868_LENA-5 C11996_LENA-L Bender Wirth: 49	0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 91 Typ L2		209 64 400 45 0 ⁴ 15 25
Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49	0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 21 Typ L2		
Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49	0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 01 Typ L2 NUS CDM-18 (Dim-To-Warm)		
Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49	0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 21 Typ L2 CDM-18 (Dim-To-Warm) Asymmetric		
Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49	0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 ENS 91 Typ L2 CDM-18 (Dim-To-Warm) Asymmetric 91 %		
Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49 CEE LED FWHM / FWTM Efficiency Peak intensity	0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 ENS 91 Typ L2 NUS CDM-18 (Dim-To-Warm) Asymmetric 91 % 0.5 cd/lm		
Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49 CEDE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 ENS 21 Typ L2 INUS CDM-18 (Dim-To-Warm) Asymmetric 91 % 0.5 cd/lm 1		
Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 4S C11996_LENA-L Bender Wirth: 4S C11996_LENA-L Bender Wirth: 4S C11996_LENA-L Bender Wirth: 4S C11996_LENA-S Bender Wirth: 4S C11996_LENA-S LENA-S C11996_LENA-S Bender Wirth: 4S C11996_LENA-S LENA-S E FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	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		
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 Bender Wirth: 49 C11996_LENA-L Bender Wirth: 49 C11996_LENA-L Bender Wirth: 49 C11996_LENA-S Bender Wirth: 49 C11996_LENA-S EB FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen Bender Wirth: 49 C11996_LENA-S C1996_LENA-S C1996_LENA-S C1996_LENA-S C1996_LENA-S C1996_LENA-S C1996_LENA-S C1996_LENA-S	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:		
Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S C11996_LENA-L Bender Wirth: 49 CEE LUMI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13868_LENA-S	0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 21 Typ L2 NUS CDM-18 (Dim-To-Warm) Asymmetric 91 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18		
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 Bender Wirth: 49 C11996_LENA-L Bender Wirth: 49 C11996_LENA-L Bender Wirth: 49 C11996_LENA-S Bender Wirth: 49 C11996_LENA-S EB FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen Bender Wirth: 49 C11996_LENA-S C1996_LENA-S C1996_LENA-S C1996_LENA-S C1996_LENA-S C1996_LENA-S C1996_LENA-S C1996_LENA-S	0.5 cd/lm 1 White nts: STD-BASE-VERO13-18 LENS 21 Typ L2 NUS CDM-18 (Dim-To-Warm) Asymmetric 91 % 0.5 cd/lm 1 White nts: STD-BASE-VERO13-18		



	INUS	80*	901
LED	CDM-9 (Dim-To-Warm)		
FWHM / FWTM	Asymmetric	71	75
Efficiency	85 %		
Peak intensity	0.5 cd/lm	50 200	60'
LEDs/each optic	1		
Light colour	White		6
Required compone			
	STD-BASE-VERO13-18		
C11996_LENA-I			
Bender Wirth: 49		30° 30 [°] 30° 30°	30'
	INUS	80-	90'
LED	CDM-9 (Dim-To-Warm)		
FWHM / FWTM	Asymmetric	78	75
Efficiency	89 %		
Peak intensity	0.5 cd/lm		60'
LEDs/each optic	1		
Light colour	White		6
Required compone	ents:		
C13868_LENA-	STD-BASE-VERO13-18		
Bender Wirth: 49	90 Typ L1		
		50°	30'
	INUS	89	90'
			90'
LED FWHM / FWTM	CTM-14 (Tunable White)	29 ⁴	90'
LED		25	90
LED FWHM / FWTM Efficiency	CTM-14 (Tunable White) Asymmetric		90'
LED FWHM / FWTM Efficiency Peak intensity	CTM-14 (Tunable White) Asymmetric 84 %		90'
LED FWHM / FWTM Efficiency	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm		90'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White		99 78 69
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White		99 77 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White white STD-BASE-VERO29		92 ⁻ 73 ⁻ 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White white STD-BASE-VERO29 A-DL		95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S C12606_LENIN/ Bender Wirth: 44	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 A-DL 42 Typ L3		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S C12606_LENIN/	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 A-DL 42 Typ L3		99 73 60 60 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S C12606_LENIN/ Bender Wirth: 44	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 A-DL 42 Typ L3		90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S C12606_LENIN/ Bender Wirth: 44	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 A-DL 42 Typ L3		92
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S C12606_LENIN/ Bender Wirth: 44	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 A-DL 42 Typ L3		99 73 67 73 73 73 75 75 75 75 75 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S C12606_LENIN/ Bender Wirth: 44 C12606_LENIN/ Bender Wirth: 44 Efficiency Peak intensity	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 A-DL 42 Typ L3 INUS CTM-14 (Tunable White) Asymmetric 88 %		92 73 60 75 75 75 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S C12606_LENIN/ Bender Wirth: 44 C12606_LENIN/ Bender Wirth: 44 Efficiency Peak intensity LEDs/each optic	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 A-DL 42 Typ L3 INUS CTM-14 (Tunable White) Asymmetric 88 % 0.5 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-S C12606_LENIN/ Bender Wirth: 44 C12606_LENIN/ Bender Wirth: 44 Efficiency Peak intensity LEDs/each optic	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 A-DL 42 Typ L3 INUS CTM-14 (Tunable White) Asymmetric 88 % 0.5 cd/lm 1 White		92 75 60 75 75 75 75 75 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-5 C12606_LENIN/ Bender Wirth: 44 Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 A-DL 42 Typ L3 INUS CTM-14 (Tunable White) Asymmetric 88 % 0.5 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-5 C12606_LENIN/ Bender Wirth: 44 Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 A-DL 42 Typ L3 INUS CTM-14 (Tunable White) Asymmetric 88 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29		90 75 60 75 75 75 75 75 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-5 C12606_LENIN/ Bender Wirth: 44 C12606_LENIN/ Bender Wirth: 44 Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-5	CTM-14 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29 A-DL 42 Typ L3 INUS CTM-14 (Tunable White) Asymmetric 88 % 0.5 cd/lm 1 White Ints: STD-BASE-VERO29		



ELUM	INUS		90*	
LED	CTM-18 (Tunable White)			
FWHM / FWTM	Asymmetric		750	
Efficiency	84 %			
Peak intensity	0.5 cd/lm		604	- 200
LEDs/each optic	1			
Light colour	Tunable White		45*	
Required compone				
	STD-BASE-VERO29			400
Bender Wirth: 4	42 Typ L3		30* 152	0° 15° 30
ELUM	INUS		90*	9
LED	CTM-18 (Tunable White)			
FWHM / FWTM	Asymmetric		750	
Efficiency	88 %			200
Peak intensity	0.5 cd/lm		60*	
LEDs/each optic	1		$\parallel \times / \wedge$	
Light colour	White		45+	
Required compone	ents:			400
C13867_LENA-	STD-BASE-VERO29			
Bender Wirth: 4	42 Typ L3			
			1	600
			150	0° 15°
(C=LUM	INUS		90*	90
LED			90*	×
LED	CTM-22 (Tunable White) Asymmetric		<u>39</u> *	
LED FWHM / FWTM	CTM-22 (Tunable White)		9°	
LED FWHM / FWTM Efficiency	CTM-22 (Tunable White) Asymmetric		90°	-200
LED FWHM / FWTM Efficiency Peak intensity	CTM-22 (Tunable White) Asymmetric 84 %		90° 70° 60°	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm		90 70 60 61	- 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White		81 20 20 61	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White		91 20 20 20	200 - C
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29		91 30 60 60	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS		91 73 64 67	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA-	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 94 Typ L3		50°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 94 Typ L3		9°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 94 Typ L3		Яс 20- 20- 20- 20- 20- 20- 20- 20- 20- 20-	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 94 Typ L3		22° 23° 65° 65° 29° 29°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 94 Typ L3 INUS CTM-22 (Tunable White) Asymmetric			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 94 Typ L3 INUS CTM-22 (Tunable White) Asymmetric 89 %			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 94 Typ L3 INUS CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 94 Typ L3 INUS 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 C13867_LENA- C11996_LENA- Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 94 Typ L3 INUS CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White		9° , 6° , 6° , 6° , 6°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 94 Typ L3 INUS CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29		9° 9° 9° 9° 9° 9° 9° 9° 9° 9°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- C11996_LENA- Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA-	CTM-22 (Tunable White) Asymmetric 84 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29 LENS 94 Typ L3 INUS CTM-22 (Tunable White) Asymmetric 89 % 0.5 cd/lm 1 White ents: STD-BASE-VERO29			



60			1
ELUM	INUS	.50*	9
LED	CxM-14 (19x19)		
FWHM / FWTM	Asymmetric	77	
Efficiency	88 %		
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		
Light colour	White	er	
Required compone	ents:		
C12691_LENA-	STD-BASE-CLL030		
			1
		30* 10 ⁰ of	15* 3
	INUS	29*	
LED	CxM-14 (19x19)		
FWHM / FWTM	Asymmetric	72*	
Efficiency	83 %		
Peak intensity	0.5 cd/lm		
LEDs/each optic	1		
Light colour	White	5.	
Required compone	ents:		
C12691_LENA-	STD-BASE-CLL030		
C11996_LENA-	LENS		
		30° 119 0°	15* *
ELUM	INUS	<i>w</i> [*]	90
LED	CxM-22 (28x28)		
FWHM / FWTM	Asymmetric	78	
Efficiency	86 %		
Peak intensity	0.5 cd/lm		
2 san anonony	0.0 00/111		
LEDs/each optic	1		
LEDs/each optic	1 White		
LEDs/each optic Light colour Required compone	1 White	6 7 6 0).
LEDs/each optic Light colour Required compone	1 White ents:).
LEDs/each optic Light colour Required compone	1 White ents:		
LEDs/each optic Light colour Required compone C12692_LENA-	1 White ents: STD-BASE-CLL040		
LEDs/each optic Light colour Required compone C12692_LENA-	1 White ents: STD-BASE-CLL040		
LEDs/each optic Light colour Required compone C12692_LENA-	1 White ents: STD-BASE-CLL040		
LEDs/each optic Light colour Required compone C12692_LENA-	1 White onts: STD-BASE-CLL040		
LEDs/each optic Light colour Required compone C12692_LENA- C12692_LENA-	1 White ents: STD-BASE-CLL040 INUS CxM-22 (28x28) Asymmetric 79 %		
LEDs/each optic Light colour Required compone C12692_LENA- C12692_LENA- Ele FWHM / FWTM Efficiency Peak intensity	1 White ents: STD-BASE-CLL040		
LEDs/each optic Light colour Required compone C12692_LENA- C12692_LENA- Elec FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White ents: STD-BASE-CLL040 INUS CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1		
LEDs/each optic Light colour Required compone C12692_LENA- C12692_LENA	1 White ents: STD-BASE-CLL040 INUS CxM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White		
LEDs/each optic Light colour Required compone C12692_LENA- C12692_LENA	1 White ents: STD-BASE-CLL040 CXM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents:		
LEDs/each optic Light colour Required compone C12692_LENA- C12692_LENA- C12692_LENA- Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA-	1 White ents: STD-BASE-CLL040 CXM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040		
LEDs/each optic Light colour Required compone C12692_LENA- C12692_LENA	1 White ents: STD-BASE-CLL040 CXM-22 (28x28) Asymmetric 79 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040		



<i><i>(()</i></i>			
∕∕ NICHI∕			90* 90
LED	СОВ Ј-Туре		
FWHM / FWTM	Asymmetric		75%
Efficiency	91 %		200
Peak intensity	0.6 cd/lm		60°
LEDs/each optic	1		
Light colour	White		45+ 400 45
Required compone	nts:		
C13868_LENA-	STD-BASE-VERO13-18		
Bender Wirth: 46	33 Typ L2		610
			30* 15 ⁵ 0 ⁶ 15 ⁵
Ø NICHI/			90* 90
LED	COB L-Type (LES 11)		
FWHM / FWTM	Asymmetric		75%
Efficiency	91 %		- 200
Peak intensity	0.6 cd/lm		60°
LEDs/each optic	1		
Light colour	White		45* 400 45
Required compone	nts:		
C13868_LENA-	STD-BASE-VERO13-18		
Bender Wirth: 43	38 Typ L1		610
			30* 15 ⁴ 0 ⁶ 15* 30'
Ø NICHI∕			90*
LED	COB L-Type (LES 9)		
FWHM / FWTM	Asymmetric		75%
Efficiency	91 %		
Peak intensity	0.6 cd/lm		50°
LEDs/each optic	1		
Light colour	White		45* 400 45
Required compone			
C13868_LENA-	STD-BASE-VERO13-18		
Bender Wirth: 43	38 Typ L1		600
			30* 15* 0° 15* 30'
ØNICHI∕			90*
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White		
FWHM / FWTM	Asymmetric		750 750
Efficiency	85 %		
Peak intensity	0.5 cd/lm	and the second	50 ¹
LEDs/each optic	1	and the second se	
Light colour	White		45'
Required compone	nts:		
C13868 ENA	STD-BASE-VERO13-18		400
CISCOD_LLINA-	STE BROE VERGIO IO		
C11996_LENA-	ENS		
	ENS		



ØNICHI	N Contraction of the second seco	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVCWJ024Z-V1MT: COB J-Type Tunable White Asymmetric 90 % 0.6 cd/lm 1 White ents: STD-BASE-VERO13-18	
OSRAM		30* 13 ⁵ 0 ⁶ 13 ⁵ 30
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13868_LENA-3 Bender Wirth: 43	STD-BASE-VERO13-18	
OSRAM		
C11996_LENA- Bender Wirth: 46	STD-BASE-VERO29 LENS	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13867_LENA- Bender Wirth: 44	STD-BASE-VERO29	



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 components: C12292_LENA-STD-BASE-MEZ C11996_LENA-LENS



IPS PHIL

Fortimo SLM L13 CoB LED FWHM / FWTM Asymmetric Efficiency 90 % Peak intensity 0.6 cd/lm LEDs/each optic 1 White Light colour Required components: C12292_LENA-STD-BASE-MEZ

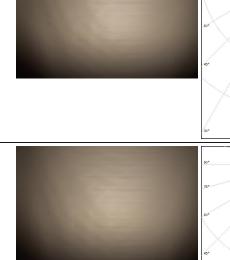


PHILIPS

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

Fortimo SLM L15 CoB LED FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 0.5 cd/lm LEDs/each optic 1 White Light colour Required components: C12292_LENA-STD-BASE-MEZ C11996_LENA-LENS



Last update: 26/10/2019 Subject to change without prior notice LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.



PHILIP	S			90*	
LED	Fortimo SLM L19 CoB				
FWHM / FWTM	Asymmetric			75%	
Efficiency	90 %				200
Peak intensity	0.6 cd/lm			50*	
LEDs/each optic	1				
Light colour	White			45*	460
Required componer			1000		
	STD-BASE-CLL040				
					600
				30° 15°	0° 13°
PHILIP	S			90*	
LED	Fortimo SLM L19 CoB				
FWHM / FWTM	Asymmetric			750	
Efficiency	85 %				
Peak intensity	0.5 cd/lm				
LEDs/each optic	1				
Light colour	White			45*	
Required componer	nts:				
C12692_LENA-S	STD-BASE-CLL040				
C11996_LENA-L	ENS				
				/30*	600
				/30° 15 ⁵	640 0° 15°
PHILIP	S			30* <u>13</u> >	60 0° 10°
PHILIP	S Fortimo SLM L23 CoB			20* 22 ³	00 123°
	Fortimo SLM L23 CoB Asymmetric			20° 22 ³	
LED FWHM / FWTM Efficiency	Fortimo SLM L23 CoB Asymmetric 85 %			50° 50° 50° 50° 50° 50° 50° 50° 50° 50°	
LED FWHM / FWTM Efficiency Peak intensity	Fortimo SLM L23 CoB Asymmetric			30° 25°	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1			50° 22°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White			50° 20°	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White nts:			274 60 ⁴	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12692_LENA-S	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040			274 60 ⁴	200 200 400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040			274 60 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12692_LENA-S	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040			274 60 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12692_LENA-S C11996_LENA-L	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040 ENS			274 60 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12692_LENA-S C11996_LENA-L	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040 ENS			274 60 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12692_LENA-S C11996_LENA-L	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040 ENS			274 60 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12692_LENA-S C11996_LENA-L C11996_LENA-L ED FWHM / FWTM	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040 ENS			274 60 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12692_LENA-S C11996_LENA-S C11996_LENA-S EFFICIENCY	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040 ENS Fortimo SLM L23 CoB Asymmetric 90 %			274 60 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12692_LENA-S C11996_LENA-S C11996_LENA-S C11996_LENA-S EFFICIENCY FWHM / FWTM Efficiency Peak intensity	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040 ENS Fortimo SLM L23 CoB Asymmetric 90 % 0.6 cd/lm			274 60 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12692_LENA-S C11996_LENA-S C11996_LENA-S C11996_LENA-S EFMHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040 ENS Fortimo SLM L23 CoB Asymmetric 90 % 0.6 cd/lm 1			274 60 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C12692_LENA-S C11996_LENA-L C11996_LENA-L EFFICIENCY FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040 ENS Fortimo SLM L23 CoB Asymmetric 90 % 0.6 cd/lm 1 White				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12692_LENA-S C11996_LENA-L C11996_LENA-L ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040 ENS Fortimo SLM L23 CoB Asymmetric 90 % 0.6 cd/lm 1 White hts:				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12692_LENA-S C11996_LENA-L C11996_LENA-L ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040 ENS Fortimo SLM L23 CoB Asymmetric 90 % 0.6 cd/lm 1 White				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C12692_LENA-S C11996_LENA-L C11996_LENA-L ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L23 CoB Asymmetric 85 % 0.5 cd/lm 1 White hts: STD-BASE-CLL040 ENS Fortimo SLM L23 CoB Asymmetric 90 % 0.6 cd/lm 1 White hts:				



SAMS	UNG	80*	90*
LED	LC016D / LC019D / LC026D / LC033D		
FWHM / FWTM	Asymmetric	75%	
Efficiency	91 %		200
Peak intensity	0.6 cd/lm	605	
LEDs/each optic	1		
Light colour	White		
Required compone	ents:		
C12691_LENA-	STD-BASE-CLL030		
		20* 12 ^j	0° 15° 30
SAMS	UNG	914	90
LED	LC016D / LC019D / LC026D / LC033D		
FWHM / FWTM	Asymmetric	730	
Efficiency	87 %		
Peak intensity	0.5 cd/lm	205	200
LEDs/each optic	1		
Light colour	White	45*	5
Required compone	ents:		
C12691_LENA-	STD-BASE-CLL030		400
C11996_LENA-	LENS		
		× 12	0% 15* 30
SAMS	JNG	30*	90*
LED	LC040D / LC060D / LC080D		
LED FWHM / FWTM	LC040D / LC060D / LC080D Asymmetric	729	73
		75	
FWHM / FWTM	Asymmetric	73	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 %	774 805	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.5 cd/lm 1 White	774 63 ⁴	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 86 % 0.5 cd/lm 1 White ents:	734 634 457	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA-	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040	73 ³ 63 ⁴ 657	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040	223	200 60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA-	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040	23° 63° 45°	200 60 609 60 60 60 60 60 60 60 60 60 60 60 60 60 6
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA-	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS	23° 63° 63° 93° 15°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA-	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS	23° 63° 45° 90° 13	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA-	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS UNG	23° 63° 55° 130° 150° 150°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA-	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS UNG LC040D / LC060D / LC080D		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- SAMSU LED FWHM / FWTM Efficiency	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS UNG LC040D / LC060D / LC080D Asymmetric		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- SAMSS LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS UNG LC040D / LC060D / LC080D Asymmetric 91 %		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA-	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS UNG LC040D / LC060D / LC080D Asymmetric 91 % 0.6 cd/lm		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS UNG LC040D / LC060D / LC080D Asymmetric 91 % 0.6 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS UNG LC040D / LC060D / LC080D Asymmetric 91 % 0.6 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS UNC LC040D / LC060D / LC080D Asymmetric 91 % 0.6 cd/lm 1 White ents:		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C12692_LENA- C11996_LENA- C11996_LENA- SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 86 % 0.5 cd/lm 1 White ents: STD-BASE-CLL040 LENS UNC LC040D / LC060D / LC080D Asymmetric 91 % 0.6 cd/lm 1 White ents:		



SHA	PP	
LED	Mega Zenigata (GW6DME)	90° 90°
FWHM / FWTM	Asymmetric	75°
Efficiency	87 %	
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required componer		- 400
C12292_LENA-S		
_		
		60
		130° 15° 0° 15° 30°
SHA	RP	90°
LED	Mega Zenigata (GW6DME)	
FWHM / FWTM	Asymmetric	73°
Efficiency	83 %	
Peak intensity	0.5 cd/lm	200
LEDs/each optic	1	
Light colour	White	45°
Required componer		
C12292_LENA-S		
C11996_LENA-L	ENS	
		30*
TDIDON		
TRIDON		90* 90*
LED	SLE G7 LES15	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	.50° 60°.
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	400
Required component		
C12691_LENA-S	TD-BASE-CLL030	
		600
		30° 15° 0° 15°
TRIDON		
LED	SLE G7 LES17 H	90"
FWHM / FWTM	76.0° / 123.0°	73°
Efficiency	91 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required componer		
C14547_LENA-A		
		500
1		



TRIDON	NIC	90 ⁴
LED	SLE G7 LES21 H	
FWHM / FWTM	Asymmetric	
Efficiency	90 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C14547_LENA-	ADAPTER-B	
		30* 30
		13 ⁵ 0 ⁶ 19*
XICATO)	90° 90
	XOB 14.5 mm	90 ⁻
	XOB 14.5 mm	25 ⁴ 20
LED		90 ⁺ 90
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 compone	XOB 14.5 mm Asymmetric 91 % 0.6 cd/lm 1 White ents:	



bridgelux.		50° 50°
LED	V10 Gen7	
FWHM / FWTM	Asymmetric	
Efficiency	85 %	60°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
	White	er 400 er
Required components:		
C13868_LENA-STD-B	ASE-VERO13-18	
Bender Wirth: 486 Typ	L1	_ 600
		30° 10° 10° 30°
bridgelux.		
	\//2 O7	
	V13 Gen7	75
	Asymmetric	
	87 %	60°
	0.7 cd/lm	
	1	
	White	
Required components:		
IDEAL: 50-2103CT + 5	0-2100LN	
		30. 34.
		45% 0% 15%
bridgelux.		90° 0° 12° 90°
	V13 Gen7	90 ⁴ 90 ²
LED	V13 Gen7 Asymmetric	32° 0° 12° 30° 30° 30°
LED FWHM / FWTM		100 200 60, 20, 20, 20, 10, 20, 20,
LED FWHM / FWTM Efficiency	Asymmetric	200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 %	200 00 ⁴ 12 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.7 cd/lm	57° 0° 12°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.7 cd/lm 1	25° et 12° 25° et 12° 200 et 12°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.7 cd/lm 1	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.7 cd/lm 1 White	200 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LENS	Asymmetric 84 % 0.7 cd/lm 1 White	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LENS IDEAL: 50-2103CT + 5	Asymmetric 84 % 0.7 cd/lm 1 White	No. No. No. 120. 00. No. 100. 00. No. 100. 00. No. 120. 00.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LENS IDEAL: 50-2103CT + 5	Asymmetric 84 % 0.7 cd/lm 1 White 0-2100LN	30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LENS IDEAL: 50-2103CT + 5	Asymmetric 84 % 0.7 cd/lm 1 White i0-2100LN	22- 22- 20- 20- 20- 20- 20- 20-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LENS IDEAL: 50-2103CT + 5	Asymmetric 84 % 0.7 cd/lm 1 White i0-2100LN V13 Gen7 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LENS IDEAL: 50-2103CT + 5 DridgeLuX. LED FWHM / FWTM Efficiency	Asymmetric 84 % 0.7 cd/lm 1 White 0-2100LN V13 Gen7 Asymmetric 91 %	25- 25- 26- 26- 26- 26- 26- 26- 26- 26- 26- 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LENS IDEAL: 50-2103CT + 5 Dridgetux, LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.7 cd/lm 1 White io-2100LN V13 Gen7 Asymmetric 91 % 1.3 cd/lm	25- 26- 26- 26- 26- 26- 26- 27- 25- 25- 25- 25- 25- 25- 25- 25- 25- 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LENS IDEAL: 50-2103CT + 5 DEAL: 50-2103CT + 5 DEAL: 50-2103CT + 5 FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.7 cd/lm 1 White io-2100LN V13 Gen7 Asymmetric 91 % 1.3 cd/lm 1	25- 26- 26- 26- 26- 26- 26- 27- 25- 25- 25- 25- 25- 25- 25- 25- 25- 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LENS IDEAL: 50-2103CT + 5 DEAL: 50-2103CT + 5 DEAL: 50-2103CT + 5 FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.7 cd/lm 1 White io-2100LN V13 Gen7 Asymmetric 91 % 1.3 cd/lm	60 60 75 75 75 60 60 75 75 75 60 75 75 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LENS IDEAL: 50-2103CT + 5 DEAL: 50-2103CT + 5 DEAL: 50-2103CT + 5 FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.7 cd/lm 1 White 0-2100LN V13 Gen7 Asymmetric 91 % 1.3 cd/lm 1 White	60 60 75 75 75 60 60 75 75 75 60 75 75 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LENS IDEAL: 50-2103CT + 5 DIGGELUX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C13868_LENA-STD-B.	Asymmetric 84 % 0.7 cd/lm 1 White 0-2100LN V13 Gen7 Asymmetric 91 % 1.3 cd/lm 1 White ASE-VERO13-18	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C11996_LENA-LENS IDEAL: 50-2103CT + 5 DEAL: 50-2103CT + 5 DEAL: 50-2103CT + 5 FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.7 cd/lm 1 White 0-2100LN V13 Gen7 Asymmetric 91 % 1.3 cd/lm 1 White ASE-VERO13-18	



		90*
LED	CXA/B 30xx	
FWHM / FWTM	Asymmetric	75*
Efficiency	82 %	200
Peak intensity	0.7 cd/lm	60 ²
LEDs/each optic	1	
Light colour	White	45* 440 45*
Required components:		
IDEAL: 50-2234C +		
		30°
		157 00 357
		90* 90*
LED	CXA/B 30xx	73
FWHM / FWTM	Asymmetric	200
Efficiency	78 %	60 ⁴
LEDs/each optic	1	
Light colour	White	47°
Required components:	:	
C11996_LENA-LEN		
IDEAL: 50-2234C +	50-2100LN	
		30"
		15% 0% 15%
UMILE	DS	90*
	DS LUXEON CoB 1204/1205	
		90 ⁴ 75 ⁴
LED	LUXEON CoB 1204/1205	
LED FWHM / FWTM	LUXEON CoB 1204/1205 Asymmetric	
LED FWHM / FWTM Efficiency	LUXEON CoB 1204/1205 Asymmetric 90 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C12292_LENA-STE	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White : D-BASE-MEZ	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C12292_LENA-STE	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White : D-BASE-MEZ	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C12292_LENA-STE	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White D-BASE-MEZ	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C12292_LENA-STE	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White D-BASE-MEZ	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C12292_LENA-STE C12292_LENA-STE LED FWHM / FWTM Efficiency	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White : D-BASE-MEZ D-BASE-MEZ	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C12292_LENA-STE C12292_LENA-STE ED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White : D-BASE-MEZ DS LUXEON CoB 1204/1205 Asymmetric 83 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components. C12292_LENA-STE C12292_LENA-STE ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White : D-BASE-MEZ LUXEON CoB 1204/1205 Asymmetric 83 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components. C12292_LENA-STE C12292_LENA-STE ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White : D-BASE-MEZ DS LUXEON CoB 1204/1205 Asymmetric 83 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C12292_LENA-STE C12292_LENA-STE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White D-BASE-MEZ LUXEON CoB 1204/1205 Asymmetric 83 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C12292_LENA-STE EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C12292_LENA-STE	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White D-BASE-MEZ	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C12292_LENA-STE C12292_LENA-STE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White D-BASE-MEZ	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C12292_LENA-STE EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C12292_LENA-STE	LUXEON CoB 1204/1205 Asymmetric 90 % 0.8 cd/lm 1 White D-BASE-MEZ	



COMILE	DS	90° 90°
LED	LUXEON CoB 1208	77
FWHM / FWTM	Asymmetric	
Efficiency	90 %	697
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	g.
Required component		
C12292_LENA-ST	D-BASE-MEZ	1220
		30° 100 31
	DS	90*
LED	LUXEON CoB 1208	
FWHM / FWTM	Asymmetric	73
Efficiency	82 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	97 400 e
Required component	5:	
C12292_LENA-ST	D-BASE-MEZ	
C11996_LENA-LE	NS	
		30*
	DS	
LED	LUXEON K12	
FWHM / FWTM	Asymmetric	
Efficiency	%	
LEDs/each optic	1	
Light colour	White	
Required component	S:	
C12924_LENA-ST	D-BASE-LUXEON-K	
	DS	
LED	LUXEON K12	
FWHM / FWTM	Asymmetric	
Efficiency	%	
LEDs/each optic	1	
Light colour	White	
Required component	S:	
C12924_LENA-ST	D-BASE-LUXEON-K	
C11996_LENA-LE	NS	
—		



UMILEDS

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

LED	CxM-14 (19x19)
FWHM / FWTM	Asymmetric
Efficiency	91 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13868_LENA-STD-E	BASE-VERO13-18
Bender Wirth: 433 Typ	o L1

OSRAM

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-I	BASE-CLL030



FWHM / FWTM Asymmetric		
LED 2019 FWHM FWTM Asymmetric Efficiency 91% Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VERO13-18 Eender With: 433 Ty-L SHARP ED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ ED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ		
FWH/ FWTM Asymmetric Efficiency 91 % Peak intensity 0.6 od/m LED voice 1 Light colour White Required components: C13988_LENA-STD-BASE-VER013-18 Bender Wirth: 433 Typ_L1 SENCENCE SCHCARCY % LED Mega Zenigata (GW5DGC) FWH/ / FWTM Asymmetric Efficiency % LED/each optice 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ SCHCARCY % LED Mega Zenigata (GW5DGC) FWH/ / FWTM Asymmetric Efficiency % LED Mega Zenigata (GW5DGC) FWH/ / FWTM Asymmetric Efficiency % LED Mega Zenigata (GW5DGC) FWH/ / FWTM Asymmetric Efficiency % LED Mega Zenigata (GW5DGC) FWH/ FWTM Asymmetric Efficiency % LED Mega Zenigata (GW5DGC) FWH/ FWTM		7012/19
Efficiency 9 ¹ % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components: C13985_LENA-STD-BASE-VER013-18 Bender Wirth: 433 Typ L1 SHARP ED Mega Zenigata (GW5DGC) FWH // FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ ED Mega Zenigata (GW5DGC) FWH // FWTM Asymmetric Efficiency % LED Mega Zenigata (GW5DGC) FWH // FWTM Asymmetric Efficiency %		
Peak intensity 0.6 cd/m LEDe/each optic 1 Light colour White Required components: C13868_LENA-STD-BASE-VER013-18 Bender Wirth: 433 Typ L1 SCHARCP KUMM / FWTM Asymmetric Efficiency % LEDe Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDe/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ SCHARCP LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDe/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ		•
LEDs/each opic 1 Light color White Required components: C 1386E_LENA-STD-BASE-VERO13-18 Bender Wirth: 433 Ty L 1 SENEARE LED Mega Zenigata (GWSDGC) FWHM / FWTM Asymetric Efficiency % LEDs/each opic 1 Light color White Required components: C 1229_LENA-STD-BASE-MEZ ELD Mega Zenigata (GWSDGC) FWHM / FWTM Asymetric Efficiency % LED Mega Zenigata (GWSDGC) FWHM / FWTM Asymetric Efficiency % FWHM / FWTM Asymetric FWHM / FWTM Asymetric FWHM / FWTM Asymetric FWHM / FWTM Asym	•	
Light colour While Required components: C13868_LENA-STD-BASE-VERO13-18 Bender Wirk: 433 Typ L1 SCHARPS SCHARPS LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C1229_LENA-STD-BASE-MEZ SCHARPS LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LED Efficiency % LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LED Efficiency % LED Efficien		
Required components: C13868_LENA-STD-BASE-VER013-18 Bender Wirth: 433 Typ L1 SCHCACP SCHCACP EVHM / FWTM Agymetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ SCHCACP EVHM / FWTM Agymetric Efficiency % LED Mega Zenigata (GW5DGC) FWHM / FWTM Agymetric Efficiency % LED Agymetric Efficiency % LE		
C13868_ENA-STD-BASE-VERO13-18 Bender Wirth: 433 Typ L1 SCHCARP LD Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % Light colour White Required components: C1229_LENA-STD-BASE-MEZ LD Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency		
Bender Wirth: 433 Typ L1 SHARPS LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12992_LENA-STD-BASE-MEZ SHARPS LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LED Mega Zenigata (GW5DGC) FWTM / FWTM Asymmetric Efficiency % LED Mega Zenigata (GW5DGC) Efficiency % LED Mega Zenigata (GW		
SHARP LED Mega Zenigata (GW5DGC). FWHM / FWTM Asymmetric. Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ SHARP Mega Zenigata (GW5DGC). FWHM / FWTM Asymmetric. Efficiency % LEDs/each optic 1 Light colour Wite Required components: C12292_LENA-STD-BASE-MEZ		
LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required comporents: C12292_LENA-STD-SE-MEZ EDS Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-SE-MEZ	Bender Wirth: 433	3 Typ L1
LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required comporents: C12292_LENA-STD-SE-MEZ EDS Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-SE-MEZ		
LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required comporents: C12292_LENA-STD-SE-MEZ EDS Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-SE-MEZ	<u></u>	
LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BSE-MEZ EDS Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BSE-MEZ	SHA	RP
FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ C12292_LENA-STD-BASE-MEZ		
Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ C12292_LENA-STD-BASE-MEZ	LED	Mega Zenigata (GW5DGC)
LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ SENER LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ	FWHM / FWTM	Asymmetric
LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ C12292_LENA-STD-BASE-MEZ SHACP KUP Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: Vhite C12292_LENA-STD-BASE-MEZ Light colour	Efficiency	%
Light colour White Required components: C12292_LENA-STD-BASE-MEZ SHARP Mega Zenigata (GW5DGC) FWHM / FWTM Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: Vinite C12292_LENA-STD-BASE-MEZ Vinite		1
Required components: C12292_LENA-STD-BASE-MEZ SHARP LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: L/2292_LENA-STD-B/SE-MEZ		White
C12292_LENA-STD-BASE-MEZ SHARP LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ		ts:
SHARP LED Mega Zenigata (GW5DGC) FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: K C12292_LENA-STD-BXSE-MEZ K		
LEDMega Zenigata (GW5DGC)FWHM / FWTMAsymmetricEfficiency%LEDs/each optic1Light colourVhiteRequired components:VC12292_LENA-STD-EXE-MEZ	_	
LEDMega Zenigata (GW5DGC)FWHM / FWTMAsymmetricEfficiency%LEDs/each optic1Light colourVhiteRequired components:VC12292_LENA-STD-EXE-MEZ		
LEDMega Zenigata (GW5DGC)FWHM / FWTMAsymmetricEfficiency%LEDs/each optic1Light colourVhiteRequired components:VC12292_LENA-STD-EXE-MEZ		
LEDMega Zenigata (GW5DGC)FWHM / FWTMAsymmetricEfficiency%LEDs/each optic1Light colourVhiteRequired components:VC12292_LENA-STD-EXE-MEZ	CUA	DD
FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ	SIA	
FWHM / FWTM Asymmetric Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ		
Efficiency % LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ		
LEDs/each optic 1 Light colour White Required components: C12292_LENA-STD-BASE-MEZ		
Light colour White Required components: C12292_LENA-STD-BASE-MEZ		
Required components: C12292_LENA-STD-BASE-MEZ		
C12292_LENA-STD-BASE-MEZ		
C11996_LENA-LENS		
	C11996_LENA-LE	ENS



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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

Local sales and technical support www.ledil.com/ where_to_buy

Shipping locations

Salo, Finland Hong Kong, China

Distribution Partners www.ledil.com/

where_to_buy

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Ledil: <u>C13101_LENA-X-WAS</u>