

# **MOLLY-M**

~35°	medium	beam
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### **SPECIFICATION:**

Dimensions	Ø 69.8 mm
Height	23.6 mm
ROHS compliant	yes 🛈



PRODUCT DATASHEET C15801\_MOLLY-M

### **MATERIALS:**

Component MOLLY-M

### **Type** Single lens

Qty in box

198

Material	Colour	Finish
PMMA	clear	

MPQ

18

Box weight (kg)

9.0

MOQ

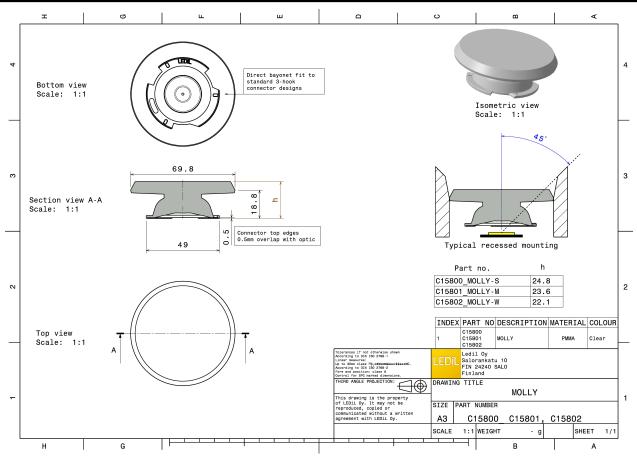
36

#### **ORDERING INFORMATION:**

Component C15801\_MOLLY-M » Box size: 476 x 273 x 292 mm



# PRODUCT DATASHEET C15801\_MOLLY-M



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



bridgelux.		90° 90°
LED	V11 HD Gen 8	
FWHM / FWTM	33.0° / 52.0°	73*
Efficiency	90 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	az. az.
Required compone		
Bender Wirth: 63		
		30° 30°
		 15 00 25*
bridgelux.		90* 90*
LED	Vero SE 13	75*
FWHM / FWTM	36.0° / 54.0°	
Efficiency	90 %	695 605
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	43°
Required compone	nts:	1600
C16402_CLAM	-VEROSE-13-18	
		30, 32, 0, 12, 32,
bridgelux.		30.4
LED	Vero SE 18	
FWHM / FWTM	40.0° / 62.0°	75'
Efficiency	89 %	
Peak intensity	1.7 cd/lm	60°
LEDs/each optic	1	
Light colour	White	45*
Required compone	nts:	1200
	P-VEROSE-13-18	
		30* 30*
		15 <sup>5</sup> 0 <sup>6</sup> 35 <sup>5</sup>
bridgelux.		90 <sup>4</sup> 30 <sup>7</sup> 90 <sup>4</sup>
LED	Vesta TW 15mm DP	35. 35. 35. 35. 35. 35. 35. 35. 35. 35.
LED FWHM / FWTM	38.0° / 58.0°	30, 400 30,   30, 30, 30,
LED FWHM / FWTM Efficiency	38.0° / 58.0° 90 %	60, 20, 20, 20, 20, 20, 0, 20, 0, 20, 20,
LED FWHM / FWTM Efficiency Peak intensity	38.0° / 58.0° 90 % 1.9 cd/lm	60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	38.0° / 58.0° 90 % 1.9 cd/lm 1	60° 90° 90° 90° 90° 90° 90° 90° 90° 90° 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 58.0° 90 % 1.9 cd/lm 1 Tunable White	20 20 20   60 20 20   60 20 20   90 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	38.0° / 58.0° 90 % 1.9 cd/lm 1 Tunable White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13658_CLAM	38.0° / 58.0° 90 % 1.9 cd/lm 1 Tunable White nts: VERO13-18	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	38.0° / 58.0° 90 % 1.9 cd/lm 1 Tunable White nts: VERO13-18	27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13658_CLAM	38.0° / 58.0° 90 % 1.9 cd/lm 1 Tunable White nts: VERO13-18	27



bridgelux.		50*
LED	Vesta TW 18mm (31W) DP	
FWHM / FWTM	40.0° / 61.0°	72
Efficiency	88 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	ar ar
Required compone		
C13584_CLAM		
Bender Wirth: 4		
		200
CITIZE	N	157 d <sup>2</sup> 157
LED	CLL03x/CLU03x	
FWHM / FWTM	36.0° / 55.0°	
Efficiency	89 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
Bender Wirth: 4	3 Тур L1	
CITIZE		90 <sup>4</sup>
LED	LCN-C02B (Tunable White)	3.
FWHM / FWTM	35.0° / 53.0°	
Efficiency	89 %	60° 60°
Peak intensity	2.2 cd/lm	
LEDs/each optic	1	
Light colour	White	¢, ¢,
Required compone		
C13658_CLAM	P-VERO13-18	
Bender Wirth: 4	1 Typ L2	
		30° 10° 30° 10°
		5/ 5/ <sup>3</sup>
LED	CMA1840	
FWHM / FWTM	37.0° / 56.0°	
Efficiency	91 %	
Peak intensity	2 cd/lm	61 <sup>4 -</sup> 800
LEDs/each optic	1	
Light colour	White	gr dr
Required compone		
C14123_CLAM		100
1		
		34° 12° 0° 12°



LKELT			
CREE Constructions LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14036_CLAM			
			90 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14036_CLAM			
CREE 🚖			
LED FWHM / FWTM Efficiency Peak intensity	CMT14xx 33.0° / 50.0° 90 % 2.5 cd/lm		99 <sup>4</sup> 75 <sup>5</sup> 89 <sup>4</sup> 80 <sup>3</sup>
LEDs/each optic Light colour Required compone C13658_CLAMI Bender Wirth: 4	1 White ents: P-VERO13-18		5° 200 50 200 200 50 200 20 20 200 20 200 20 20 20 20 20 20 20 20 20 20 20 20 20 2
LEDs/each optic Light colour Required compone C13658_CLAMI Bender Wirth: 4	1 White ents: P-VERO13-18 34 Typ L1 CMT19xx		500 500 500 500 500 500 500 500 500 500
LEDs/each optic Light colour Required compone C13658_CLAMI Bender Wirth: 4	1 White ents: P-VERO13-18 34 Typ L1		



			900 900
LED	CMT28xx		
FWHM / FWTM	42.0° / 65.0°	the second s	75'
Efficiency	87 %		
Peak intensity	1.5 cd/lm		
LEDs/each optic	1		
Light colour	White		47° 65'
Required compone	nts:		
C13584_CLAMI			1220
Bender Wirth: 4	71 Тур L3		
			36" 36 36
			90* 90'
LED	CXA/B 15xx		
FWHM / FWTM	34.0° / 51.0°		75
Efficiency	90 %		
Peak intensity	2.4 cd/lm		$  \land / / / \land \rangle$
LEDs/each optic	1		
Light colour	White		a. e
Required compone	nts:		
C14123_CLAM			
			30°
	EDS		90* 90°
LED	LUXEON CoB 1204HD		
FWHM / FWTM	30.0° / 46.0°		75
Efficiency	89 %		50°
Peak intensity	2.9 cd/lm		$\Gamma \times / / \wedge \times 1$
LEDs/each optic	1		1000
Light colour	White		47
Required compone	nts:		
TE Connectivity	2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1		2430
			30* 25* 3830 35*
	INUS		90* 90
LED	CDM-14 (Dim-To-Warm)		
FWHM / FWTM	36.0° / 54.0°		
Efficiency	89 %		60 60
Peak intensity	2 cd/lm		
LEDs/each optic	1		
Light colour	White		45° (1
Required compone			
CAREER CLAM			1600
C13658_CLAM			
Bender Wirth: 4			



(ce		
	INUS	50 <sup>4</sup>
LED	CDM-18 (Dim-To-Warm)	
FWHM / FWTM	38.0° / 57.0°	
Efficiency	89 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
C13658_CLAMF	P-VERO13-18	
Bender Wirth: 49	91 Typ L2	365 300 300 300 300 300 300 300 300 300 30
	INUS	5 <sup>2</sup>
LED	CDM-9 (Dim-To-Warm)	
FWHM / FWTM	33.0° / 49.0°	
Efficiency	89 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	a.
Required compone	ents:	
C13658_CLAMF	P-VERO13-18	
Bender Wirth: 49	90 Typ L1	
		3%* 200 3%* at 13*
	INUS	50 <sup>4</sup>
	CTM-14 (Tunable White)	9 × × × × × × × × × × × × × × × × × × ×
		39 <sup>3</sup>
LED	CTM-14 (Tunable White)	
LED FWHM / FWTM	CTM-14 (Tunable White) 34.0° / 52.0°	
LED FWHM / FWTM Efficiency	CTM-14 (Tunable White) 34.0° / 52.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White ints:	94 <sup>4</sup> 75 95 97 97 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White white P-VERO29	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White white P-VERO29	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White Ints: P-VERO29 42 Typ L3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 44	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White Ints: P-VERO29 42 Typ L3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 44	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White I White P-VERO29 42 Typ L3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 44	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White white P-VERO29 42 Typ L3 CTM-14 RGBW	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 44	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White Ints: P-VERO29 42 Typ L3 INUS CTM-14 RGBW 35.0° / 55.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 44	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White mts: P-VERO29 42 Typ L3 <b>INUS</b> CTM-14 RGBW 35.0° / 55.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 44	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White mts: P-VERO29 42 Typ L3 INUS CTM-14 RGBW 35.0° / 55.0° 88 % 2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 44	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White mts: P-VERO29 42 Typ L3 INUS CTM-14 RGBW 35.0° / 55.0° 88 % 2 cd/lm 1 RGBW	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 44 CLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White white white 2-VERO29 42 Typ L3 CTM-14 RGBW 35.0° / 55.0° 88 % 2 cd/lm 1 RGBW white RGBW	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 44 CED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White white v-VERO29 42 Typ L3 CTM-14 RGBW 35.0° / 55.0° 88 % 2 cd/lm 1 RGBW white P-VERO29	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 44 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CTM-14 (Tunable White) 34.0° / 52.0° 88 % 2.2 cd/lm 1 White white v-VERO29 42 Typ L3 CTM-14 RGBW 35.0° / 55.0° 88 % 2 cd/lm 1 RGBW white P-VERO29	



ELUM	INUS	24
LED	CTM-22 (Tunable White)	
FWHM / FWTM	42.0° / 64.0°	
Efficiency	87 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C13584_CLAMI		120
Bender Wirth: 4		
		36
A		*et
ØNICHI/		90° 3
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White	
FWHM / FWTM	33.0° / 51.0°	
Efficiency	89 %	90
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	9° 160
Required compone		
C13658_CLAM	P-VERO13-18	
Bender Wirth: 4	98 Typ L2	
		30 <sup>4</sup> 25 <sup>7</sup> 0 <sup>4</sup> 35 <sup>7</sup>
OSRAN		90°
LED	PrevaLED Core G7 L15 H1	
FWHM / FWTM	35.0° / 55.0°	
Efficiency	90 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr. d
Required compone	ents:	
C16685_CLAM	P-PRV-A	
		30
PHILIP	20	20° 0° 10° 10°
LED		
	Fortimo SLM L13 CoB 35.0° / 53.0°	
FWHM / FWTM		
Efficiency Book intensity	89 % 2.2 cd/lm	600
Peak intensity	2.2 cd/im 1	
LEDs/each optic	1 White	
Light colour		
Required compone		
	: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1	
		$\times$ / $\checkmark$ $\times$
		30°



PHILIF	DS	30, 30, 30,
LED	Fortimo SLM L15 + SLM holder	
FWHM / FWTM	34.0° / 53.0°	
Efficiency	89 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	gr gr
Required compone		15×
	OPTIC CLIP Z50 TYPE1 2213194-1	
		325 <sup>1</sup> 2000 0 <sup>4</sup> 15 <sup>5</sup>
PHILIF	25	- 20 <sup>4</sup>
LED	Fortimo SLM L15 CoB	N1 N2
FWHM / FWTM	36.0° / 54.0°	
Efficiency	88 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	er de la companya de
Required compone	ents:	
TE Connectivity	: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-	
0.0.0.0		
SVWSI		50°
LED	LC035T (Tunable white)	30 <sup>1</sup>
LED FWHM / FWTM	LC035T (Tunable white) 43.0° / 67.0°	
LED FWHM / FWTM Efficiency	LC035T (Tunable white) 43.0° / 67.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMf	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White ents: P-VERO29	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White ents: P-VERO29	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMf	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White ents: P-VERO29	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMf Bender Wirth: 50	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White ents: P-VERO29 02 Typ L3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAME Bender Wirth: 50	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White white P-VERO29 02 Typ L3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 50	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White white P-VERO29 02 Typ L3 XTM - 19mm LES	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 50 <b>XICATC</b> LED FWHM / FWTM	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White ents: P-VERO29 02 Typ L3 XTM - 19mm LES 39.0° / 60.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 50 <b>XICATC</b> LED FWHM / FWTM Efficiency	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White ents: P-VERO29 02 Typ L3 XTM - 19mm LES 39.0° / 60.0° 90 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 50 <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White ents: P-VERO29 02 Typ L3 XTM - 19mm LES 39.0° / 60.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 50 <b>XICCATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White P-VERO29 02 Typ L3 XTM - 19mm LES 39.0° / 60.0° 90 % 1.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 50 <b>XICCATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White P-VERO29 02 Typ L3 XTM - 19mm LES 39.0° / 60.0° 90 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 50 <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White white P-VERO29 02 Typ L3 XTM - 19mm LES 39.0° / 60.0° 90 % 1.8 cd/lm 1 White white statesting the statesting t	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 50 <b>XICCATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White white P-VERO29 02 Typ L3 XTM - 19mm LES 39.0° / 60.0° 90 % 1.8 cd/lm 1 White white statesting the statesting t	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 50 <b>XICATC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC035T (Tunable white) 43.0° / 67.0° 88 % 1.4 cd/lm 1 White white P-VERO29 02 Typ L3 XTM - 19mm LES 39.0° / 60.0° 90 % 1.8 cd/lm 1 White white statesting the statesting t	



# **OPTICAL RESULTS (SIMULATED):**

bridgelux.		90°
LED	V9 HD Gen7	
FWHM / FWTM	32.0° / 44.0°	7 / X
Efficiency	90 %	
Peak intensity	3.3 cd/lm	60*
LEDs/each optic	1	
Light colour	White	42. A.
Required components:		1500
C13658_CLAMP-VE	R013-18	
Bender Wirth: 496 Ty	/p L1	
		30° 2000 31° 31°
bridgelux.		90°
LED	VERO13	
FWHM / FWTM	32.0° / 46.0°	<u>B</u> , <u>B</u> ,
Efficiency	91 %	800
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required components:		
C13658_CLAMP-VE	RO13-18	200
		30° 200 30°
		15 0 15
CITIZEN		90* <b>A</b> 90*
	CLL02x/CLU02x (LES10)	99 <sup>4</sup> 99 <sup>4</sup>
	CLL02x/CLU02x (LES10) 30.0° / 42.0°	
LED		
LED FWHM / FWTM	30.0° / 42.0°	
LED FWHM / FWTM Efficiency	30.0° / 42.0° 89 %	200 00 100 100 100 100 100 100 100 100 1
LED FWHM / FWTM Efficiency Peak intensity	30.0° / 42.0° 89 % 3.6 cd/lm	gr er
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 42.0° 89 % 3.6 cd/lm 1	100 100   100 100   100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 42.0° 89 % 3.6 cd/lm 1 White	gr er
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	30.0° / 42.0° 89 % 3.6 cd/lm 1 White	gr or
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	30.0° / 42.0° 89 % 3.6 cd/lm 1 White	gr or
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	30.0° / 42.0° 89 % 3.6 cd/lm 1 White	¢. 200 ¢.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 Ty	30.0° / 42.0° 89 % 3.6 cd/lm 1 White	or 200 200 200 200 200 200 200 200 200 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 Ty	30.0° / 42.0° 89 % 3.6 cd/lm 1 White rp L1	5°. 200 200 200 200 200 5°. 5°. 5°. 5°. 5°. 5°. 5°. 5°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 Ty	30.0° / 42.0° 89 % 3.6 cd/lm 1 White rp L1 CXA/B 1816 & CXA/B 1820 & CXA 1850	or 200 200 200 200 200 200 200 200 200 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 Ty	30.0° / 42.0° 89 % 3.6 cd/lm 1 White /p L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 33.0° / 47.0°	5°. 200 200 200 200 200 5°. 5°. 5°. 5°. 5°. 5°. 5°. 5°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 Ty Efficiency	30.0° / 42.0° 89 % 3.6 cd/lm 1 White /p L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 33.0° / 47.0° 90 %	5°. 200 50° 50° 50° 50° 50° 50° 50° 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 Ty Efficiency Peak intensity	30.0° / 42.0° 89 % 3.6 cd/lm 1 White /p L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 33.0° / 47.0° 90 % 3.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 Ty Efficiency Peak intensity LEDs/each optic	30.0° / 42.0° 89 % 3.6 cd/lm 1 White rp L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 33.0° / 47.0° 90 % 3.1 cd/lm 1	
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# **OPTICAL RESULTS (SIMULATED):**

-		
		90* 90*
LED	CXA/B 25xx	75*
FWHM / FWTM	36.0° / 50.0°	
Efficiency	88 %	60° 500 50°
Peak intensity	2.2 cd/lm	
LEDs/each optic	1	
Light colour	White	q3 <sup>4</sup> 43*
Required components		1600
C14036_CLAMP_	CXA25-30	
		30° 2450 30°
		15° 0° 15°
	lus	90°
LED	CTM-18 (Tunable White)	75*
FWHM / FWTM	34.0° / 47.0°	
Efficiency	80 %	60° 60°
Peak intensity	2.3 cd/lm	$ \times$ $/$ $/$ $>$ $/$
LEDs/each optic	1	
Light colour	White	g
Light colour Required components		e <sup>r</sup>
-	S.	¢* 67
Required components	S.	er
Required components	S.	er



#### **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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