

# **MOLLY-W**

~60° wide beam

### **SPECIFICATION:**

Dimensions	Ø 69.8 mm
Height	22.1 mm
ROHS compliant	yes 🛈



PRODUCT DATASHEET C15802\_MOLLY-W

### **MATERIALS:**

Component MOLLY-W

### Туре Single lens

Qty in box

198

Material	Colour	Finish
PMMA	clear	

MPQ

18

Box weight (kg)

8.1

MOQ

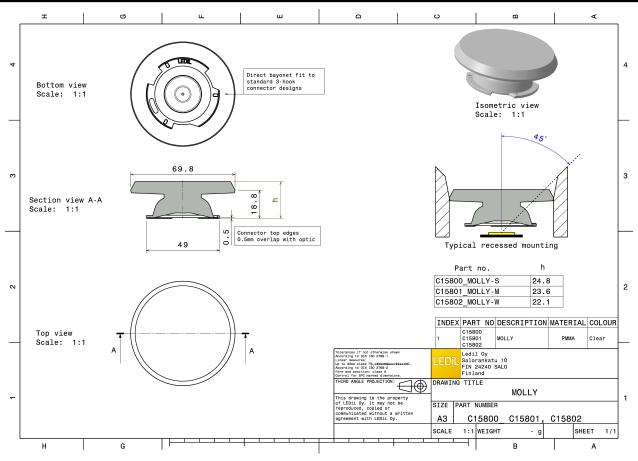
36

#### **ORDERING INFORMATION:**

Component C15802\_MOLLY-W » Box size: 476 x 273 x 292 mm



# PRODUCT DATASHEET C15802\_MOLLY-W



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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Bender Wirth: 63		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16402_CLAMP		
bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16402_CLAMP		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13658_CLAMP Bender Wirth: 48	-VERO13-18	



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP		
Bender Wirth: 48	33 Typ L3	34* 260
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 49	Р-VERO29 14 Тур L3	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Bender Wirth: 43	CLL03x/CLU03x 61.0° / 86.0° 89 % 0.9 cd/lm 1 White nts:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16791_CLAMP TE Connectivity:	CLL03x/CLU03x 58.0° / 83.0° 90 % 0.9 cd/lm 1 White nts: Z45-A	



CITIZE	<b>N</b>	99*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13658_CLAMI Bender Wirth: 4	LCN-C02B (Tunable White) 62.0° / 84.0° 89 % 0.9 cd/lm 1 White ents: P-VERO13-18	
LEDS FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14123_CLAMI		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14036_CLAMI		
CREE C LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14036_CLAM		



			50°	90*
LED	CMT14xx	and the second se		
FWHM / FWTM	60.0° / 83.0°		71	75*
Efficiency	90 %			
Peak intensity	0.9 cd/lm			60*
LEDs/each optic	1		460	$\mathbf{X}$
Light colour	White		95*	45*
Required compone	ents:			
C13658_CLAMF				$\mathbf{X}$
Bender Wirth: 43	34 Typ L1		200	$\sim$
			30° 23° 0° 13°	36*
			50*	90*
LED	CMT19xx			
FWHM / FWTM	61.0° / 85.0°		73	75*
Efficiency	90 %			4
Peak intensity	0.8 cd/lm	and the second se	607	60*
LEDs/each optic	1			$\searrow$
Light colour	White		45*	45*
Required compone	ents:			
C13658_CLAMF				$\backslash$
Bender Wirth: 47				X
			30-	36.*
CREE 🚖				
LEDS			90*	90*
LEDS	CMT28xx	and the second se	90°	90*
LED FWHM / FWTM	CMT28xx 61.0° / 87.0°		25	90*
LED FWHM / FWTM			9° 7° 20	90*
LED FWHM / FWTM Efficiency	61.0° / 87.0°		97 75 64	90° 
LEDs LED FWHM / FWTM Efficiency Peak intensity	61.0° / 87.0° 88 %		50°	90°
LED FWHM / FWTM Efficiency	61.0° / 87.0° 88 % 0.8 cd/lm		97 75 99 90 90 90 90 90	90° 77°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	61.0° / 87.0° 88 % 0.8 cd/lm 1 White		997 75 909 909 909 909 909 900 900 900 900 90	9°*
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents:		9° 77 00° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9°	99° 75° 69°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29		5° 60 60 60	99° 75° 65°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29			90* 73* 60* 63*
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 43	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29			90° - 27° - 60° - 60° - 60°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 43	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29 71 Typ L3			90° 77° 60° 60°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 43	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29			99°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 43	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29 71 Typ L3 CXA/B 15xx			99°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 43 CREE LED FWHM / FWTM Efficiency	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: D-VERO29 71 Typ L3 CXA/B 15xx 61.0° / 84.0° 90 %			99°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 47 CREE LEDs LED FWHM / FWTM Efficiency Peak intensity	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29 71 Typ L3 CXA/B 15xx 61.0° / 84.0°			97 72 60 67 97 72 72 72 60
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 43 CREE LED FWHM / FWTM Efficiency	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29 71 Typ L3 CXA/B 15xx 61.0° / 84.0° 90 % 0.9 cd/lm			97 97 97 97 97 97 97 97 97
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 43 CREE € LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29 71 Typ L3 CXA/B 15xx 61.0° / 84.0° 90 % 0.9 cd/lm 1 White			97 - 27 - 69" - 69" - 69" - 69" - 69" - 69" - 69" - 69" - 69"
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 41 CREE LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29 71 Typ L3 CXA/B 15xx 61.0° / 84.0° 90 % 0.9 cd/lm 1 White ents:			97 97 97 97 97 97 97 97 97
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 43 CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29 71 Typ L3 CXA/B 15xx 61.0° / 84.0° 90 % 0.9 cd/lm 1 White ents:			60°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13584_CLAMF Bender Wirth: 43 CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	61.0° / 87.0° 88 % 0.8 cd/lm 1 White ents: P-VERO29 71 Typ L3 CXA/B 15xx 61.0° / 84.0° 90 % 0.9 cd/lm 1 White ents:			90°



	FDS	w
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1204HD 57.0° / 80.0° 89 % 1 cd/lm 1 White	
	INUS	90° 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13658_CLAMF Bender Wirth: 49	P-VERO13-18	
ELUM	INUS	90* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13658_CLAMF Bender Wirth: 49	P-VERO13-18	
ELUM	INUS	50* 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13658_CLAMF Bender Wirth: 49	CDM-9 (Dim-To-Warm) 61.0° / 83.0° 89 % 0.9 cd/lm 1 White ents: P-VERO13-18	77 61 61 60 60 60 60 60 60 60 60 60 60 60 60 60



<b>ELUM</b>	INUS	90°
LED	CTM-14 (Tunable White)	
FWHM / FWTM	62.0° / 85.0°	75.
Efficiency	88 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	4404
Light colour	White	45°
Required compone	ents:	
C13584_CLAM	P-VERO29	
Bender Wirth: 4	42 Typ L3	
		36° 36° 35°
<b>E</b> LUM	INUS	90° 90°
LED	CTM-14 RGBW	
FWHM / FWTM	61.0° / 84.0°	12.
Efficiency	89 %	200
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	400
Light colour	RGBW	432 437
Required compone	ents:	
C13584_CLAM		
Bender Wirth: 5	00 Typ L3-1	
		30° 000 30°
() LUM	INUS	90° 91°
LED	CTM-22 (Tunable White)	
FWHM / FWTM	62.0° / 88.0°	73.
Efficiency	87 %	200
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	49°
Required compone	ents:	
C13584_CLAM	P-VERO29	
Bender Wirth: 4	94 Typ L3	
		30* 30* 30*
ØNICHI/	N Contraction of the second se	90° 90°
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White	
FWHM / FWTM	60.0° / 82.0°	 200
Efficiency	89 %	607 607
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	97°
Required compone	ents:	
C13658_CLAM	P-VERO13-18	
Bender Wirth: 4	98 Typ L2	
		367 310



#### OSRA LED PrevaLED Core G7 L15 H1 FWHM / FWTM 57.0° / 82.0° Efficiency 90 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: C16685\_CLAMP-PRV-A 1000 PS Ρ Fortimo SLM L13 CoB LED FWHM / FWTM 60.0° / 83.0° Efficiency 89 % Peak intensity 0.9 cd/lm LEDs/each optic 1 White Light colour Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1 PHILIPS LED Fortimo SLM L15 + SLM holder FWHM / FWTM 57.0° / 81.0° Efficiency 89 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1 PHILIPS Fortimo SLM L15 CoB LED FWHM / FWTM 60.0° / 83.0° Efficiency 88 % Peak intensity 0.9 cd/lm LEDs/each optic 1 White Light colour Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



SAMSI	JNG	90°
LED	LC035T (Tunable white)	77'
FWHM / FWTM	62.0° / 88.0°	
Efficiency	89 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	at the second
Required compone	nts:	
C13584_CLAMF	P-VERO29	
Bender Wirth: 50	02 Typ L3	
		30° 0° 13°
XICATO		p, p,
LED	XTM - 19mm LES	
FWHM / FWTM	60.0° / 85.0°	
Efficiency	90 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
C16491_XTM-A	DAPTER-50-A	
		157 01 257



## **OPTICAL RESULTS (SIMULATED):**

bridgelux.		90* 90*
LED	V9 HD Gen7	
FWHM / FWTM	58.0° / 77.0°	73.
Efficiency	90 %	
Peak intensity	1 cd/lm	60° - 400
LEDs/each optic	1	
Light colour	White	97*
Required components:		
C13658_CLAMP-VE		200
Bender Wirth: 496 T		
		36. 34.
		15 00 150
bridgelux.		90*
LED	VERO13	75*
FWHM / FWTM	55.0° / 75.0°	
Efficiency	90 %	60°
Peak intensity	1.1 cd/lm	- 400
LEDs/each optic	1	
Light colour	White	93* 93*
Required components:		
C13658_CLAMP-VE	RO13-18	
		30.
		13 0° 15°
1		
CITIZEN		90* 90*
	- CLL02x/CLU02x (LES10)	
		91 71 72
LED	CLL02x/CLU02x (LES10)	92 <sup>4</sup> 77 70 100 90 <sup>4</sup> 90 <sup>4</sup>
LED FWHM / FWTM	CLL02x/CLU02x (LES10) 54.0° / 73.0°	92 <sup>4</sup> 72 72 72 72
LED FWHM / FWTM Efficiency	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 %	51 72 90 40 40 62
LED FWHM / FWTM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm	91 <sup>1</sup> 91 <sup>1</sup> 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White	91 71 62 63 72 72 72 72 72 72 72 72 72 72 72 72 72
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White	91 92 72 01 800 00 77 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White	92* 92* 72* 72* 94* 60* 64* 77* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White	51 <sup>4</sup> 51 <sup>4</sup> 51 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 T	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 T	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White yp L1	Big Big Big
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 T	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White yp L1 CXA/B 1816 & CXA/B 1820 & CXA 1850	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 T	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White yp L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 58.0° / 78.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 T CREE LED FWHM / FWTM Efficiency	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White yp L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 58.0° / 78.0° 90 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 T Bender Wirth: 434 T	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White yp L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 58.0° / 78.0° 90 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 T Bender Wirth: 434 T Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White yp L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 58.0° / 78.0° 90 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 T Bender Wirth: 434 T Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White yp L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 58.0° / 78.0° 90 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 T Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White yp L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 58.0° / 78.0° 90 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 T Bender Wirth: 434 T Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White yp L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 58.0° / 78.0° 90 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 T Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White yp L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 58.0° / 78.0° 90 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 T Efficiency Peak intensity LEDs/each optic Light colour Required components:	CLL02x/CLU02x (LES10) 54.0° / 73.0° 89 % 1.2 cd/lm 1 White yp L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 58.0° / 78.0° 90 % 1.1 cd/lm 1 White	



## **OPTICAL RESULTS (SIMULATED):**

		99*
LED	CXA/B 25xx	75
FWHM / FWTM	57.0° / 77.0°	
Efficiency	%	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	e. e.
Required components		
C14036_CLAMP_0	CXA25-30	
		30*
		107 100 107
	IUS	50 <sup>*</sup> 75
LED	CTM-18 (Tunable White)	75
FWHM / FWTM	54.0° / 75.0°	
Efficiency	80 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required components	::	
C13658_CLAMP-V	ER013-18	000
		30°



#### **GENERAL INFORMATION:**

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

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

#### **MATERIALS:**

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

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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

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#### Distribution Partners www.ledil.com/

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