

MOLLY-S

~25° spot beam

SPECIFICATION:

Dimensions	Ø 69.8 mm
Height	24.8 mm
ROHS compliant	yes 🛈



MATERIALS:

Component MOLLY-S

Type Single lens

Material	Colour	Finish
PMMA	clear	

ORDERING INFORMATION:

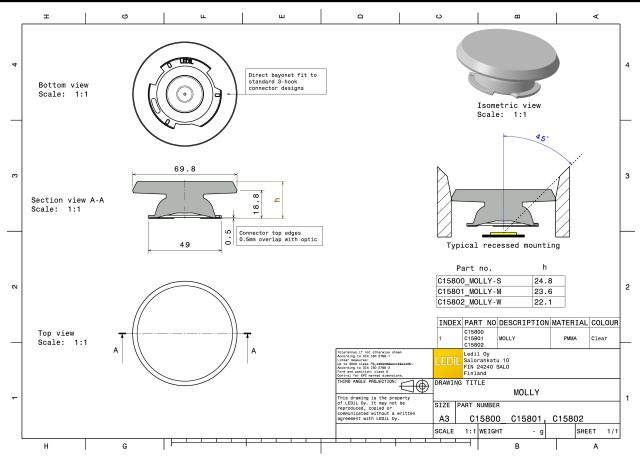
Component C15800_MOLLY-S » Box size: 480 x 280 x 300 mm

Qt	y in box	MOQ	MPQ	Box weight (kg)
	198	36	18	9.7





PRODUCT DATASHEET C15800_MOLLY-S



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 compone Bender Wirth: 63		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16402_CLAMF	Vero SE 13 23.0° / 40.0° 90 % 4.2 cd/lm 1 White nts: P-VEROSE-13-18	
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16402_CLAMF	Vero SE 18 31.0° / 54.0° 88 % 2.4 cd/lm 1 White nts: 2-VEROSE-13-18	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13658_CLAMF Bender Wirth: 43	CLL03x/CLU03x 23.0° / 42.0° 87 % 3.9 cd/lm 1 White nts: 2-VERO13-18	



CITIZE	N	30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16791_CLAMF TE Connectivity:	CLL03x/CLU03x 24.0° / 45.0° 88 % 3.5 cd/lm 1 White nts: 2-Z45-A	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14123_CLAMF		
CREE CLEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14036_CLAMF		
CREE CEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14036_CLAMF		



			90*
LED	CMT14xx		
FWHM / FWTM	19.0° / 32.0°		73.
Efficiency	90 %		
Peak intensity	6.4 cd/lm		60° 60°
LEDs/each optic	1		
Light colour	White		97°
Required componer			
C13658_CLAMP			
Bender Wirth: 43			X / X
			30° 30°
			15° 0° 15°
			30* 30*
LED	CMT19xx		
FWHM / FWTM	26.0° / 44.0°		
Efficiency	90 %		50° 50°
Peak intensity	3.5 cd/lm		
LEDs/each optic	1		
Light colour	White		93°
Required componer	nts:		
C13658_CLAMP	-VERO13-18		
Bender Wirth: 47	7 Typ L1		3230
			305
			90 ⁴
LEDS	CMT28xx		9 ¹
LED	CMT28xx 35.0° / 61.0°		32. 94. 95.
LED FWHM / FWTM	35.0° / 61.0°		30°
LEDs LED FWHM / FWTM Efficiency	35.0° / 61.0° 85 %		
LEDs LED FWHM / FWTM Efficiency Peak intensity	35.0° / 61.0° 85 % 1.7 cd/lm		60° 60°
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	35.0° / 61.0° 85 %		e, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 61.0° 85 % 1.7 cd/lm 1 White		21
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	35.0° / 61.0° 85 % 1.7 cd/lm 1 White nts:		27. 60. 61. 62.
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	35.0° / 61.0° 85 % 1.7 cd/lm 1 White nts: -VERO29		27. 60. 61. 62.
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP	35.0° / 61.0° 85 % 1.7 cd/lm 1 White nts: -VERO29		27. 60. 61. 62.
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47	35.0° / 61.0° 85 % 1.7 cd/lm 1 White nts: -VERO29		27. 60. 61. 62.
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47	35.0° / 61.0° 85 % 1.7 cd/lm 1 White nts: -VERO29 1 Typ L3		
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47	35.0° / 61.0° 85 % 1.7 cd/lm 1 White hts: -VERO29 1 Typ L3		
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47	35.0° / 61.0° 85 % 1.7 cd/lm 1 White nts: -VERO29 11 Typ L3 CXA/B 15xx 17.0° / 30.0°		
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47	35.0° / 61.0° 85 % 1.7 cd/lm 1 White nts: P-VERO29 11 Typ L3 CXA/B 15xx 17.0° / 30.0° 91 %		
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47 CREE EDS LED FWHM / FWTM Efficiency Peak intensity	35.0° / 61.0° 85 % 1.7 cd/lm 1 White nts: P-VERO29 11 Typ L3 CXA/B 15xx 17.0° / 30.0° 91 % 7.6 cd/lm		
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47 CREE LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	35.0° / 61.0° 85 % 1.7 cd/lm 1 White nts: P-VERO29 11 Typ L3 CXA/B 15xx 17.0° / 30.0° 91 % 7.6 cd/lm 1		
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47 CREE LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 61.0° 85 % 1.7 cd/lm 1 White nts: P-VERO29 11 Typ L3 CXA/B 15xx 17.0° / 30.0° 91 % 7.6 cd/lm 1 White		
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13584_CLAMP Bender Wirth: 47 CREE EDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	35.0° / 61.0° 85 % 1.7 cd/lm 1 White hts: -VERO29 1 Typ L3 CXA/B 15xx 17.0° / 30.0° 91 % 7.6 cd/lm 1 White hts:		
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47 CREE LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 61.0° 85 % 1.7 cd/lm 1 White hts: -VERO29 1 Typ L3 CXA/B 15xx 17.0° / 30.0° 91 % 7.6 cd/lm 1 White hts:		
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C13584_CLAMP Bender Wirth: 47 CREE EDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	35.0° / 61.0° 85 % 1.7 cd/lm 1 White hts: -VERO29 1 Typ L3 CXA/B 15xx 17.0° / 30.0° 91 % 7.6 cd/lm 1 White hts:		



<i>M</i>	EDC		
🥙 LUMIL	EDS		90* 90*
LED	LUXEON CoB 1204HD		25*
FWHM / FWTM	18.0° / 31.0°		1600
Efficiency	89 %		
Peak intensity	7.1 cd/lm		
LEDs/each optic	1		
Light colour	White		gr
Required compone	nts:		
TE Connectivity:	2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
			6139
			30. 30.
OSRAM	1		90° 90°
LED	PrevaLED Core G7 L15 H1		
EED FWHM / FWTM	26.0° / 48.0°		785
Efficiency	89 %		
Peak intensity	3.1 cd/lm		60° (0°
LEDs/each optic	1		
LEDS/each oplic	ı White		47 ⁻ 1600
Required compone			
C16685_CLAMF			2000
CTOOD_CEAM			
			36° 3000 36°
PHILIF	DS		
LED	Fortimo SLM L13 CoB		
FWHM / FWTM	24.0° / 42.0°		
Efficiency	89 %		
Peak intensity	3.9 cd/lm	and the second	
LEDs/each optic	1		
Light colour	White		
Required compone	nts:		
	2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
PHILIF	PS		90°
LED	Fortimo SLM L15 + SLM holder		75
FWHM / FWTM	26.0° / 47.0°		
Efficiency	88 %		60° 60°
Peak intensity	3.1 cd/lm		
LEDs/each optic	1		
Light colour	White		43° 63'
Required compone	ints:		
TE Connectivity:	OPTIC CLIP Z50 TYPE1 2213194-1		
1			X / X
			300 300



PHILIP	DS	90° R 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity	Fortimo SLM L15 CoB 27.0° / 47.0° 88 % 3.1 cd/lm 1 White ints: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1	77
XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16491_XTM-A	XTM - 19mm LES 28.0° / 52.0° 89 % 2.6 cd/lm 1 White Ints:	90° 97° 90° 97° 90° 97° 90° 97° 90° 97° 90° 97° 90° 90° 97° 90° 90° 90° 90°



OPTICAL RESULTS (SIMULATED):

bridgelux.		90° X 90°
LED	V9 HD Gen7	
FWHM / FWTM	16.0° / 26.0°	75*
Efficiency	91 %	
Peak intensity	10.8 cd/lm	60° × 60°
LEDs/each optic	1	1600
Light colour	White	934 934
Required components		$\times / \times /$
C13658_CLAMP-V		2430
Bender Wirth: 496		\times / \times
		15% 00 15%
bridgelux.		90* 90*
LED	VERO13	
FWHM / FWTM	21.0° / 39.0°	23
Efficiency	90 %	1000
Peak intensity	5.2 cd/lm	
LEDs/each optic	1	
Light colour	White	95* 3220 65*
Required components		
C13658_CLAMP-V		
		30° 30°
		15° 0° 15°
0100-00-0	T	
CITIZEN		90* 90*
		<u>90*</u>
	CLL02x/CLU02x (LES10) 16.0° / 30.0°	3°.
LED	CLL02x/CLU02x (LES10)	9° 9°
LED FWHM / FWTM	CLL02x/CLU02x (LES10) 16.0° / 30.0°	61 500 6r
LED FWHM / FWTM Efficiency	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 %	91 92 72 61 259 62
LED FWHM / FWTM Efficiency Peak intensity	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm	9* 9* 9* 200 0* 9* 200 0* 0* 200 0*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White	30 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White	30 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White S: ERO13-18	30 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White S: ERO13-18	30 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V Bender Wirth: 434	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White S: ERO13-18	200 00 00 00 00 00 00 0 00 0 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V Bender Wirth: 434	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White S: ERO13-18 Typ L1	200 00 00 00 00 00 00 0 00 0 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V Bender Wirth: 434	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White SE ERO13-18 Typ L1 CXA/B 1816 & CXA/B 1820 & CXA 1850	200 00 00 00 00 00 00 0 00 0 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V Bender Wirth: 434	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White S: ERO13-18 Typ L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 19.0° / 34.0°	30, 22, 10, 20, 61, 013, 02, 02, 61, 020, 02, 02, 52, 200, 04, 05, 53, 200, 05, 05, 53, 200, 05, 05, 53, 200, 05, 05, 53, 200, 05, 05,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V Bender Wirth: 434	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White S: ERO13-18 Typ L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 19.0° / 34.0° 89 %	30, 30,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V Bender Wirth: 434	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White :: ERO13-18 Typ L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 19.0° / 34.0° 89 % 6.5 cd/lm	30, 30,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V Bender Wirth: 434	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White :: ERO13-18 Typ L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 19.0° / 34.0° 89 % 6.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V Bender Wirth: 434	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White :: ERO13-18 Typ L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 19.0° / 34.0° 89 % 6.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V Bender Wirth: 434	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White :: ERO13-18 Typ L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 19.0° / 34.0° 89 % 6.5 cd/lm 1 White ::	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V Bender Wirth: 434	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White :: ERO13-18 Typ L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 19.0° / 34.0° 89 % 6.5 cd/lm 1 White ::	6. 6. 6. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V Bender Wirth: 434	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White :: ERO13-18 Typ L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 19.0° / 34.0° 89 % 6.5 cd/lm 1 White ::	6. 6. 6. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C13658_CLAMP-V Bender Wirth: 434	CLL02x/CLU02x (LES10) 16.0° / 30.0° 87 % 8.8 cd/lm 1 White :: ERO13-18 Typ L1 CXA/B 1816 & CXA/B 1820 & CXA 1850 19.0° / 34.0° 89 % 6.5 cd/lm 1 White ::	6. 6. 6. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7



OPTICAL RESULTS (SIMULATED):

		90° 90°
LED	CXA/B 25xx	
FWHM / FWTM	25.0° / 47.0°	75' 75'
Efficiency	85 %	
Peak intensity	3.5 cd/lm	
LEDs/each optic	1	
Light colour	White	97
Required components:		2430
C14036_CLAMP_CX/	A25-30	
		220
		30 <u>159</u> <u>0</u>
UMILED	IS In the second s	90° X
LED	LUXEON CoB 1205HD	
FWHM / FWTM	19.0° / 33.0°	77
Efficiency	86 %	60*
Peak intensity	6.8 cd/lm	
LEDs/each optic	1	-1600
Light colour	White	934 · · · · · · · · · · · · · · · · · · ·
Required components:		
C13658_CLAMP-VER	RO13-18	
Bender Wirth: 480 Typ	p L1	
1		
		30° 3200 36°
	95	20 ¹⁰ 20 ¹⁰ 20 ¹⁰ 20 ¹⁰ 20 ¹⁰
	LUXEON CoB 1208	
		207 07 207 157 07 157 594 157 207 207 207 207 207 207 207 20
LED	LUXEON CoB 1208	
LED FWHM / FWTM	LUXEON CoB 1208 24.0° / 44.0°	
LED FWHM / FWTM Efficiency	LUXEON CoB 1208 24.0° / 44.0° 87 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White	27 69 69 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 31	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 31	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 31	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 31	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 31	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 31 Ender Wirth: 632a 31	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook CTM-18 (Tunable White) 23.0° / 47.0° 78 % 3.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 3 Ender Wirth:	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook CTM-18 (Tunable White) 23.0° / 47.0° 78 % 3.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 31 Ender Wirth: 632a 31 Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook CTM-18 (Tunable White) 23.0° / 47.0° 78 % 3.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 31 EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook CTM-18 (Tunable White) 23.0° / 47.0° 78 % 3.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 31 Ender Wirth: 632a 31 Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook CTM-18 (Tunable White) 23.0° / 47.0° 78 % 3.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 31 Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook CTM-18 (Tunable White) 23.0° / 47.0° 78 % 3.1 cd/lm 1 White	



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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LEDiL Oy

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