

MOLLY-S

~25° spot beam

SPECIFICATION:

Dimensions	Ø 69.8 mm
Height	24.8 mm
ROHS compliant	yes 🛈



PRODUCT DATASHEET C15800_MOLLY-S

MATERIALS:

Component MOLLY-S

Type Single lens

Material	Colour	Finish
PMMA	clear	

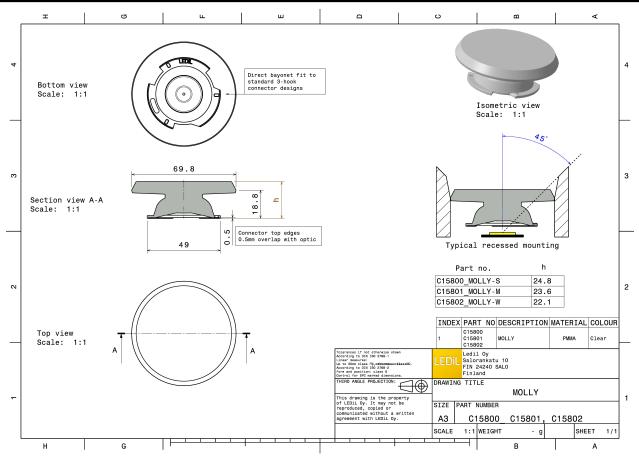
ORDERING INFORMATION:

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

Qty 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: VEROSE-13-18	
CITTIZE 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	



CITIZE	N	30 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C13658_CLAMF Bender Wirth: 43	P-VERO13-18	
CREE S LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14123_CLAMF		
CREE EDS FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14036_CLAMF		
CREE CLEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14036_CLAMF		



		90* 90*
LED	CMT14xx	
FWHM / FWTM	19.0° / 32.0°	77
Efficiency	90 %	
Peak intensity	6.4 cd/lm	
LEDs/each optic	1	
Light colour	White	97
Required componer		
C13658_CLAMP		
Bender Wirth: 43		
		304 314
		135 00 1359
		30*
LED	CMT19xx	
FWHM / FWTM	26.0° / 44.0°	
Efficiency	90 %	
Peak intensity	3.5 cd/lm	
LEDs/each optic	1	
Light colour	White	2×
Required componer		
C13658_CLAMP		
Bender Wirth: 47	7 Тур L1	3200
		30" 30" 30"
		30°
CREE ÷	CMT28xx	90° 90°
CREE LED FWHM / FWTM	CMT28xx 35.0° / 61.0°	90 ³ 90 ³
LED		94 ⁴ 72 ⁴ 200 200
LED FWHM / FWTM Efficiency	35.0° / 61.0°	50 ⁴ 52 ⁴ 50 ⁵ 60 ⁶ 60 ⁶ 60 ⁷ 60 ⁷ 60 ⁷ 60 ⁷
LED FWHM / FWTM	35.0° / 61.0° 85 %	
LED FWHM / FWTM Efficiency Peak intensity	35.0° / 61.0° 85 % 1.7 cd/m	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	35.0° / 61.0° 85 % 1.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 61.0° 85 % 1.7 cd/m 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	35.0° / 61.0° 85 % 1.7 cd/m 1 White hts: -VERO29	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP	35.0° / 61.0° 85 % 1.7 cd/m 1 White hts: -VERO29	
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/m 1 White hts: -VERO29	
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/m 1 White hts: -VERO29 1 Typ L3	
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 CXA/B 15xx	
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/m 1 White hts: -VERO29 1 Typ L3 CXA/B 15xx 17.0° / 30.0°	
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 CXA/B 15xx 17.0° / 30.0° 91 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47 CREEE ED FWHM / FWTM Efficiency Peak intensity	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	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47 CREEE EDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	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	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47 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	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47 Efficiency Peak intensity LEDs/each optic Light colour Required component	35.0° / 61.0° 85 % 1.7 cd/m 1 White hts: -VERO29 1 Typ L3 CXA/B 15xx 17.0° / 30.0° 91 % 7.6 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47 Ender Wirth: 47	35.0° / 61.0° 85 % 1.7 cd/m 1 White hts: -VERO29 1 Typ L3 CXA/B 15xx 17.0° / 30.0° 91 % 7.6 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C13584_CLAMP Bender Wirth: 47 Efficiency Peak intensity LEDs/each optic Light colour Required component	35.0° / 61.0° 85 % 1.7 cd/m 1 White hts: -VERO29 1 Typ L3 CXA/B 15xx 17.0° / 30.0° 91 % 7.6 cd/m 1 White hts:	



Peak intensity 7,1 cd/m LDD iede of within Reguired components: TE Connectivity: 2213382.2 + OPTIC CLIP Z50 TYPE1 2213194.1 OSRAM LED PrevaLED Core G7 L15 H1 LPM iede within Reguired components: C16685_CLAMP-PRVA DHILIPS LED Fortimo SLM L13 COB EVM VEVT 26,0° 420 Efficiency 39 % Peak intensity 3.1 cd/m LDD iede within Reguired components: C16685_CLAMP-PRVA DENELPS LED Fortimo SLM L13 C0B (EVM VEV) Efficiency 39 % Peak intensity 3.0 cd/m LED iede within Reguired components: C16685_CLAMP-PRVA		EDS		
Efficiency 89 % Peak insisty 7,1 c0/m LED/each optic 1 Light colour White Required components: TE Connectivity: 2213382 2 + OPTIC CLIP Z50 TYPE1 22131941				90°
Peak intensity 7,1 cd/m LED2 each optic 1 LED2 each optic 1 LED2 For Our White Regulied components: TE Connectivity: 2213382:2 + OPTIC CLIP Z50 TYPE1 2213194.1 OSRAM LED PrevaLED Core G7 L15 H1 Peak intensity 3, 1 cd/m LED2 is conducted in the intervention of the interventio	FWHM / FWTM	18.0° / 31.0°		75°
LEDs/each optic 1 Light colour White Required components: TE connectivity: 2213382.2 + OPTIC CLIP Z50 TYPE1 2213194.1 COSRAM LED PrevaLED Core G7 L15 H1 FWHM / FVTM 25.0° / 48.0° Filiciancy 28 % Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White Required components: C16685_CLAMP-PRV-A	Efficiency	89 %		
LEDEvelopments: TE Connectivity: 22133822 + OPTIC CLIP Z60 TYPE1 2213194-1 OSRRAM LED PrevaLED Core G7 L15 H1 EVM // FVTTM 26.0° /48.0° Efficiency 89 % Peak intensity 3.1 cd/m LEDEvelopments: C 16685_CLAMP-PRV-A DENTICES EVENT 24.0° Efficiency 89 % Peak intensity 3.3 cd/m LEDEvelopments: TE connectivity: 2213180-2 + OPTIC CLIP Z50 TYPE1 2213194-1 DENTICES EDM FVTM 24.0° Efficiency 89 % Peak intensity 3.3 cd/m LEDEvelopments: TE connectivity: 2213180-2 + OPTIC CLIP Z50 TYPE1 2213194-1 DENTICES EDM FVTM 24.0° Efficiency 89 % Peak intensity 3.1 cd/m LEDevelopments: TE connectivity: 2213180-2 + OPTIC CLIP Z50 TYPE1 2213194-1 DENTICES EDM FVTM 26.0° /47.0° Efficiency 88 % Peak intensity 3.1 cd/m LEDevelopments: TE connectivity: 2213180-2 + OPTIC CLIP Z50 TYPE1 2213194-1 DENTICES EDM FVTM 26.0° /47.0° Efficiency 88 % Peak intensity 3.1 cd/m LEDevelopments: TE connectivity: 2213180-2 + OPTIC CLIP Z50 TYPE1 2213194-1 DENTICES EDM FVTM 26.0° /47.0° Efficiency 88 % Peak intensity 3.1 cd/m LEDevelopments: EDM FVTM 26.0° /47.0° Efficiency 88 % Peak intensity 3.1 cd/m	Peak intensity	7.1 cd/lm		
Required components: TE Connectivity: 2213382.2 + OPTIC CLIP Z50 TYPE1 2213194-1 COSRAM LED Meret Value 20:0° 48.0° Efficiency 89 % Peak intensity 3.1 cd/m LED Areach optic 1 Light colour White Required components: C16685_CLAMP-PRV-A COSRES ED Fortmo SLM L13 COB FVHM / FVTM 24:0° / 42.0° Efficiency 89 % Peak intensity 3.30-2 + OPTIC CLIP Z50 TYPE1 2213194-1	LEDs/each optic	1		\times / / \wedge ×
Required components: TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1 OSRAM LED PrevaLED Core G7 L15 H1 FYHM / FVTM 26.07 / 40.° Efficiency 89 % Peak intensity 3.1 od/m LED/seah optic 1 Light colour White Required components: C16885_CLAMP-PRV-A PHILIPS LED Fortimo SLM L13 C0B FYHM / FVTM 24.07 / 42.0° Efficiency 89 % Peak intensity 3.3 od/m LED/seah optic 1 Light colour White Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1	Light colour	White		at at
OSRAM LED rewLED core 67 L15 H1 EWHM / FVTM 26 9 % Pakintensity 3.1 cd/m LED weak-topice 1 Light colou White Reguired components: 0 C16885_CLAMP-PRV-A 0 PHILLES 0 LED methods 0 LED methods 0 EWHM / SVM 2.0 c/m LED methods 0 LED methods 0 EWHM / SVM 2.0 c/m LED methods 0 LED methods <th>Required compone</th> <th>nts:</th> <th></th> <th></th>	Required compone	nts:		
LED PrevaLED Core G7 L15 H1 FWHM / FWTM 260° / 48.0° Fittienery 89 % Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White Required components: C16885_CLAMP-PRV-A	TE Connectivity	2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1		900 34° 330 0° 33°
LED PrevaLED Core G7 L15 H1 FWHM / FWTM 260° / 48.0° Fittienery 89 % Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White Required components: C16885_CLAMP-PRV-A	OSRAN	1		90 ⁴ A 90 ⁴
FWHM / FWTM 26.0° / 48.0° Efficiency 89 % Peak intensity 3.1 od/m LEDs/each optic 1 Light colour White Required components: C16685_CLAMP-PRV-A				
Efficiency 89% Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White Required components: C16685_CLAMP-PRV-A				75*
Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White Required components: C16685_CLAMP-PRV-A	Efficiency			
LEDs/each optic 1 Light colour While Required components: C16685_CLAMP-PRV-A	Peak intensity	3.1 cd/lm		
Required components: C16685_CLAMP-PRV-A PHILLPS LED Fortimo SLM L13 COB FWHM / FWTM 24.0° / 42.0° Efficiency 89 % Peak intensity 3.9 cd/m LEDs/each optic 1 Light colour White Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1 PHILLPS Efficiency 88 % Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White Required components: TE Connectivity: 231310-2 + OPTIC CLIP Z50 TYPE1 2213194-1	LEDs/each optic	1		1600
C16685_CLAMP-PRV-A	Light colour	White		g- / / ×:
CIBOS_CLAMP-PRV-A	Required compone	nts:		
PHILIPS LED Fortimo SLM L13 CoB FWHM / FWTM 24.0° / 42.0° Efficiency 89 % Peak intensity 3.9 cd/m LEDs/each optic 1 Light colour White Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1 PHILLPS Efficiency LED Fortimo SLM L15 + SLM holder FWHM / FWTM 26.0° / 47.0° Efficiency 88 % Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White Required components: 1 Efficiency 88 % Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White Required components: •				
LED Fortimo SLM L13 CoB FWHM / FWTM 24.0° / 42.0° Efficiency 89 % Peak intensity 3.9 cd/lm LEDs/each optic 1 Light colour White Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1 PHILLPS LED Fortimo SLM L15 + SLM holder FWHM / FWTM 26.0° / 47.0° Efficiency 88 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:				34 ⁴ 200 35 ⁷
FWHM / FWTM 24.0° / 42.0° Efficiency 89 % Peak intensity 3.9 cd/lm LEDs/each optic 1 Light colour White Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1 PHILIPS LED Fortimo SLM L15 + SLM holder FWHM / FWTM 26.0° / 47.0° Efficiency 88 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	PHILI	PS		
Efficiency 89 % Peak intensity 3.9 cd/lm LEDs/each optic 1 Light colour White Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1	LED	Fortimo SLM L13 CoB		
Peak intensity 3.9 cd/lm LEDs/each optic 1 Light colour White Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1	FWHM / FWTM	24.0° / 42.0°		
LEDs/each optic 1 Light colour White Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1 PHILIPS LED Fortimo SLM L15 + SLM holder FWHM / FWTM 26.0° / 47.0° Efficiency 88 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	Efficiency	89 %		
Light colour White Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1 PHILEDS LED Fortimo SLM L15 + SLM holder FWHM / FWTM 26.0° / 47.0° Efficiency 88 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	Peak intensity	3.9 cd/lm		
Required components: TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1	LEDs/each optic	1		
TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1 Peticipes LED Fortimo SLM L15 + SLM holder FWHM / FWTM 26.0° / 47.0° Efficiency 88 % Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White Required components: Image: Component in the image is a comp	Light colour	White		
PHILLIPS LED Fortimo SLM L15 + SLM holder FWHM / FWTM 26.0° / 47.0° Efficiency 88 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Component state	Required compone	nts:		
LED Fortimo SLM L15 + SLM holder FWHM / FWTM 26.0° / 47.0° Efficiency 88 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	TE Connectivity	2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
FWHM / FWTM 26.0° / 47.0° Efficiency 88 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	PHILIP	PS	and the second se	<u>50*</u> 50*
FWHM / FWTM 26.0° / 47.0° Efficiency 88 % Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components: ***	LED	Fortimo SLM L15 + SLM holder		75
Peak intensity 3.1 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM			
LEDs/each optic 1 Light colour White Required components:	-	88 %		690 600
Light colour White Required components:		3.1 cd/lm		
Required components:				
				42°
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1				
	TE Connectivity	OPTIC CLIP Z50 TYPE1 2213194-1		3 ¹



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	77. 60 ¹ 500 61 ²
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	\land
FWHM / FWTM	25.0° / 47.0°	75.
Efficiency	85 %	
Peak intensity	3.5 cd/lm	
LEDs/each optic	1	
Light colour	White	63* G3*
Required components:	Winte	2430
C14036_CLAMP_CX	A25-30	
		2200
		30" 30" 30"
	DS	50°
LED	LUXEON CoB 1205HD	
FWHM / FWTM	19.0° / 33.0°	73
Efficiency	86 %	60°
Peak intensity	6.8 cd/lm	
LEDs/each optic	1	1600
Light colour	White	g
Required components:		
C13658_CLAMP-VE	RO13-18	2400
Bender Wirth: 480 Ty	′р L1	
		30° 30°
		90°
LED	LUXEON CoB 1208	20 ⁴ 20 ³⁷ 20 ⁴ 20 ⁴
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	
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	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	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 3	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 3	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 3	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook	
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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 3	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 3 Ender Wirth: 632a 3 ELED FWHM / FWTM Efficiency Peak intensity	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 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 3 Ender Wirth:	LUXEON CoB 1208 24.0° / 44.0° 87 % 4 cd/lm 1 White Hook	
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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 632a 3 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	



GENERAL INFORMATION:

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

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

MATERIALS:

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

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

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