

PRODUCT DATASHEET CN14237_WINNIE-M

WINNIE-M

~35° medium beam. Holder with 35 mm screw hole distance according to Zhaga standard. Compatible with Bender+Wirth 4xx Typ L5 connector.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.8 mm
Height	19.3 mm
Fastening	screw
ROHS compliant	yes 🛈



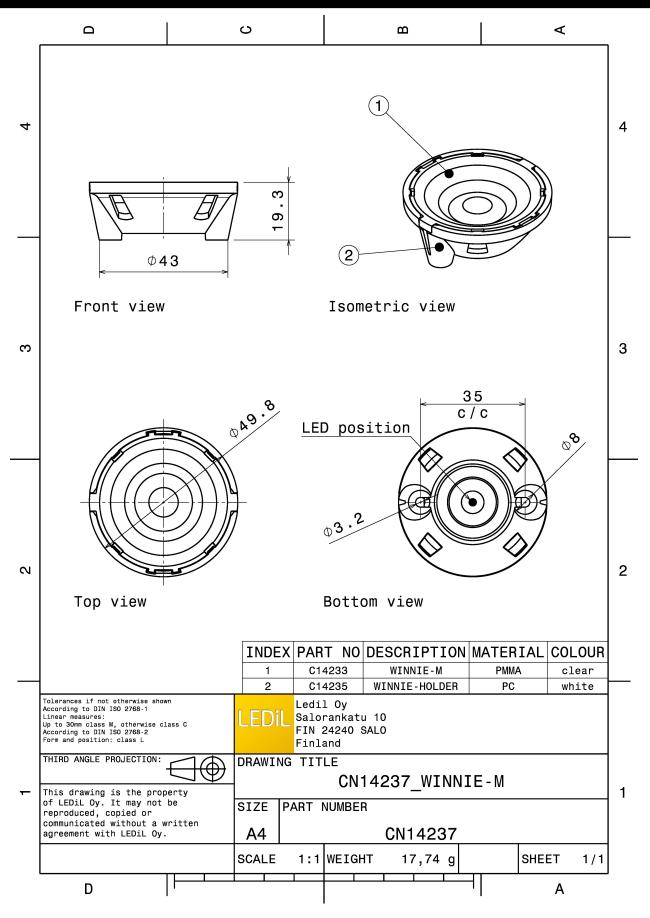
MATERIAL SPECIFICATIONS:

Component	Туре	Material	Colour	Finish
WINNIE-M	Single lens	PMMA	clear	
WINNIE-HOLDER	Holder	PC	white	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CN14237_WINNIE-M	Single lens	364	84	28	0.0
» Box size:					

PRODUCT DATASHEET CN14237_WINNIE-M



See also our general installation guide: www.ledil.com/installation_guide



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	V18 Gen6 58.0° / 113.0° 88 % 0.7 cd/lm 1 White ents:		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	V6 Gen6 27.0° / 58.0° 86 % 2.4 cd/lm 1 White ents:		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	V8 Gen6 31.0° / 70.0° 85 % 1.8 cd/lm 1 White ents:		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	VERO10 36.0° / 74.0° 89 % 1.6 cd/lm 1 White ents:		27° 6° 37° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°



C I I I Z H	N	
CITIZE		
LED	CLL01x	
FWHM / FWTM	27.0° / 60.0°	
Efficiency	85 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
017177		
CITIZE	N	50 ⁴
LED	CLL02x/CLU02x (LES10)	
FWHM / FWTM	35.0° / 72.0°	27
Efficiency	86 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	er e
Required compone		
Bender Wirth: 43		
		30" 30 25" 0 ⁴ 35"
CITIZE	N	
LED	CLL02x/CLU02x (LES10)	
FWHM / FWTM	35.0° / 72.0°	
	87 %	
Efficiency		
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	11.5.	
Required compone	115.	
Required compone		90 ⁴
CITIZE	N	
	N CLL03x/CLU03x	
CITIZE LED FWHM / FWTM	N CLL03x/CLU03x 49.0° / 95.0°	
CITIZE LED FWHM / FWTM Efficiency	N CLL03x/CLU03x 49.0° / 95.0° 86 %	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	N CLL03x/CLU03x 49.0° / 95.0° 86 % 0.9 cd/lm	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	N CLL03x/CLU03x 49.0° / 95.0° 86 % 0.9 cd/lm 1 White	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	N CLL03x/CLU03x 49.0° / 95.0° 86 % 0.9 cd/lm 1 White white	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	N CLL03x/CLU03x 49.0° / 95.0° 86 % 0.9 cd/lm 1 White white	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	N CLL03x/CLU03x 49.0° / 95.0° 86 % 0.9 cd/lm 1 White white	



CITIZE	N	50 ⁴
LED	CLU700/701/702	
FWHM / FWTM	27.0° / 56.0°	
Efficiency	89 %	
Peak intensity	2.6 cd/lm	
LEDs/each optic	1	
Light colour	White	e ^r
Required compone	ents:	30 ⁴ 32 ⁴ 32 ⁴ 3
CITIZE	^C N	90 ^x
LED	CLU700/701/702	
FWHM / FWTM	28.0° / 58.0°	
Efficiency	87 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
Bender Wirth: 4	34 Typ L5	
		30° ×
	זאי	25' 6' 25'
CITIZE	N1N	
	0111740/744	
	CLU710/711	75
FWHM / FWTM	33.0° / 67.0°	27 - 40
FWHM / FWTM Efficiency	33.0° / 67.0° 87 %	
FWHM / FWTM Efficiency Peak intensity	33.0° / 67.0° 87 % 1.8 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	33.0° / 67.0° 87 % 1.8 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	33.0° / 67.0° 87 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents: 70 Typ L5	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents: 70 Typ L5	30 ⁴ 55 ⁷ 360 55 ⁷ 3
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents: 70 Typ L5	30 ⁴ 55 ⁷ 30 90 ⁴ 9
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4 CITTIZE LED FWHM / FWTM	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents: 70 Typ L5	30 ⁴ 55 ⁷ 360 55 ⁷ 3
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4 CITTIZE LED FWHM / FWTM Efficiency	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents: 70 Typ L5 CLU710/711 32.0° / 70.0° 86 %	30 ⁴ 55 ⁷ 30 90 ⁴ 9
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4 CITTIZE LED FWHM / FWTM Efficiency Peak intensity	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents: 70 Typ L5	30 ⁴ 55 ⁷ 30 90 ⁴ 9
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents: 70 Typ L5 CLU710/711 32.0° / 70.0° 86 % 1.7 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents: 70 Typ L5 CLU710/711 32.0° / 70.0° 86 % 1.7 cd/lm 1 White	30 ⁴ 55 ⁷ 30 90 ⁴ 9
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents: 70 Typ L5 CLU710/711 32.0° / 70.0° 86 % 1.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents: 70 Typ L5 CLU710/711 32.0° / 70.0° 86 % 1.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	33.0° / 67.0° 87 % 1.8 cd/lm 1 White ents: 70 Typ L5 CLU710/711 32.0° / 70.0° 86 % 1.7 cd/lm 1 White	



CITIZE	N		90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4	CLU720/721 41.0° / 80.0° 90 % 1.3 cd/lm 1 White ents:		3* 30*
CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 13xx 25.0° / 55.0° 88 % 2.7 cd/Im 1 White		54 ⁴ 54 64 65 109 109 109 109 109 109 109 109
CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 13xx 26.0° / 58.0° 87 % 2.8 cd/lm 1 White		
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 25xx 55.0° / 109.0° 85 % 0.8 cd/lm 1 White		



		90° 90°
LED	MHD-E/G	75*
FWHM / FWTM	30.0° / 67.0°	
Efficiency	87 %	60* 60*
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ints:	300 X00
	.EDS	<u>(100) of 100°</u>
LED	LUXEON CoB 1202/1203	
FWHM / FWTM	34.0° / 74.0°	
Efficiency	86 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
	FDS	
	LUXEON CoB 1202s	
FWHM / FWTM Efficiency	27.0° / 60.0° 86 %	
	80 % 2.5 cd/lm	
Peak intensity		
LEDs/each optic Light colour	1 White	
Required compone	ans.	
LED	CxM-14 (19x19)	
FWHM / FWTM	45.0° / 94.0°	
Efficiency	85 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	



C LUM	INUS	
LED	CxM-9 (13.5x13.5)	
FWHM / FWTM	36.0° / 76.0°	
Efficiency	87 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
OSRAM Opto Semiconductors		
LED	Duris S10	
FWHM / FWTM	24.0° / 58.0°	
Efficiency	88 %	
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
OSRAM Opto Semiconductors		
LED	Soleriq S13	
FWHM / FWTM	41.0° / 88.0°	
Efficiency	85 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
OSRAM		
Opto Semiconductors	Soleriq S19	
FWHM / FWTM	55.0° / 104.0°	
Efficiency	83 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	0.8 ca/im 1	
LEDS/each optic	1 White	
Required compone		
	51 KS.	



LED LC018D / LC028D / LC023D / LC023D FWHM / FWTM 48,0° / 98,0° FWM / FWTM 48,0° / 98,0° Feldencry 85 % Peak Intensity 0.9 cd/m LED readown LED MJT COB LES 14.5 FWTM / FWTM 51,0° / 101,0° Efficiency 84 % Felder Intensity 0.9 cd/m LED Address 14.5 FWTM / FWTM 51,0° / 101,0° Efficiency 84 % Felder Intensity 0.9 cd/m LED Address 14.5 FWTM / FWTM 51,0° / 101,0° Efficiency 84 % Felder Intensity 1.5 cd/m LED Address 14.5 FWTM / FWTM 36,0° / 75,0° Fficiency 89 % Peak Intensity 1.5 cd/m LED Address 14.5 FWTM / FWTM 36,0° / 75,0° Fficiency 89 % Peak Intensity 1.5 cd/m LED Address 15.5 Fender Wirk: 43 Typ L5 FWTM / FWTM 36,0° / 75,0° Fficiency 89 % Peak Intensity 1.5 cd/m LED Address 15.5 Fender Wirk: 43 Typ L5 FWTM / FWTM 36,0° / 75,0° Fficiency 87 % Fender Wirk: 43 Typ L5 FWTM / FWTM 46,0° / 91,0° Efficiency 87 % Peak Intensity 1.00/m LED Address 10.5 FWTM / FWTM 46,0° / 91,0° Efficiency 87 % Peak Intensity 1.00/m LED Address 10.5 FWTM / FWTM 10.00 / 10.5 Efficiency 87 % Peak Intensity 1.00/m LED Address 10.5 FWTM / FWTM 10.5 FWTM / F	SAMSI	JNG	50 ⁺
Efficiency 85% Peak Itensity 0.9 of ulm LED vector protocols Required components: Efficiency 0.9 d/m LED vector protocols Efficiency 0.9 d/m LED vector vector EFD MJT COB LES 9.8 FWHM / FWTM 35.0'' LED vector vector ELED MJT COB LES 9.8 FWHM / FWTM 35.0'' LED vector EFD vector E	LED		
Peak intensity 0.9 cd/m LEDo/seach.optic 1 LEDo/seach.optic 1 LEDo/sea	FWHM / FWTM	48.0° / 98.0°	70
LED-Seach optic 1 Light colour White Required components: ED MUT COB LES 14.5 FWHM /FVTM 510° / 1010° Efficiency 89% Peak intensity 0.9 colm LED-Seach optic 1 LED-Seach optic	Efficiency	85 %	
Light colour White Required components: LED MJT COB LES 14.5 FWHA/ FVTM 51.0°/101.0° Efficiency 84% Peak intensity 0.9 cd/m LEDSeeded optic 1 Light colour White Required components: Bender Wirth: 433 Typ L5 Efficiency 89% Peak intensity 1.5 cd/m LEDS/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5	Peak intensity	0.9 cd/lm	
Light colour White Required components: LED MJT COB LES 14.5 FWHA/ FVTM 51.0°/101.0° Efficiency 84% Peak intensity 0.9 cd/m LEDSeeded optic 1 Light colour White Required components: Bender Wirth: 433 Typ L5 Efficiency 89% Peak intensity 1.5 cd/m LEDS/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5	LEDs/each optic	1	
With VFWTM Story TAGE WHM / FWTM 51.0° / 101.0° Efficiency 44 % Peak intensity 0.9 cd/m LED2/each optic 1 Lght colour White Regulard Components: Bender Wirth: 433 Typ L5	Light colour	White	er August
ED MJT COB LES 14.5 FWHM / FWTM 51.0° / 101.0° Efficiency 84 % Peak intensity 0.9 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 433 Typ L5 Efficiency 89 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Efficiency 89 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Efficiency 87 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5		ents:	
ED MJT COB LES 14.5 FWHM / FWTM 51.0° / 101.0° Efficiency 84 % Peak intensity 0.9 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 433 Typ L5 Efficiency 89 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Efficiency 89 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Efficiency 87 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5			
ED MJT COB LES 14.5 FWHM / FWTM 51.0° / 101.0° Efficiency 84 % Peak intensity 0.9 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 433 Typ L5 Efficiency 89 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Efficiency 89 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Efficiency 87 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5			
ED MJT COB LES 14.5 FWHM / FWTM 51.0° / 101.0° Efficiency 84 % Peak intensity 0.9 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 433 Typ L5 Efficiency 89 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Efficiency 89 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Efficiency 87 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5			20-
Was NERVORMENT LED MAT COB LES 14.5 FWHM / FWTM 51.0° / 101.0° Efficiency 84 % Peak intensity 0.9 col/m LEDS/each optic 1 Light colour White Required components: Bender With: 433 Typ L5 FWHM / FWTM 36.0° / 75.0° Efficiency 89 % Peak intensity 1.5 col/m LED x All Typ L5 FWHM / FWTM 38.0° / 75.0° Efficiency 89 % Peak intensity 1.5 col/m LED x All Typ L5 FWHM / FWTM 48.0° / 91.0° Efficiency 87 % Peak intensity 1 col/m LED x Col/p 1.0° Efficiency 87 % Peak intensity 1 col/m LED x Col/m LED x Col/p 1.0° Efficiency 87 % Peak intensity 1 col/m LED x Col/p 1.0° Efficiency 87 % Peak intensity 1 col/m LED x Col/m LED x Col/m X LED x Col/m X	SEOUL		
FWHM / FWTM \$1.0° / 101.0° Efficiency 84 % Peak intensity 0.9 cd/m LEDS/each optic 1 Light colour White Required components: Bender Wirth: 433 Typ L5 West Streamer LED MUT COB LES 9.8 FWHM / FWTM \$6.0° / 75.0° Efficiency 89 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/m LED Z012/18 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/m LED Z012/18 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5	SEOUL SEMICONDUCTOR		50*
Efficiency 84 % Peak intensity 0.9 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 433 Typ L5	LED	MJT COB LES 14.5	
Peak intensity 0.9 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirk: 433 Typ L5	FWHM / FWTM		
LEDs/each optic 1 Light colour White Required components: Bender Wirkt: 433 Typ L5	Efficiency	84 %	
Light colour White Required components: Bender Wirth: 433 Typ L5	Peak intensity	0.9 cd/lm	
Required components: Bender Wirth: 433 Typ L5	LEDs/each optic		
Bender Wirth: 433 Typ L5			24.
With VECKNOWS LED MJT COB LES 9.8 FWHM / FUTM 36.0° / 75.0° Efficiency 89 % Peak intensity 1.5 cd/m LED/seach optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Sexessence LED LED ZC12/18 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/m LEDS/each optic 1 Light colour White Required components: Efficiency Sex serverse LED LED ZC12/18 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/m LEDS/each optic 1 Light colour White Required components: Eines			
Store Succession I LED MJT COB LES 9.8 FWHM / FWTM 36.0° / 75.0° Efficiency 89 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Statisticsteerene ZC12/18 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: EtD Bender Wirth: 434 Typ L5 Image: Colour Wirth Colour Co	Bender Wirth: 43	33 Typ L5	
Store Succession I LED MJT COB LES 9.8 FWHM / FWTM 36.0° / 75.0° Efficiency 89 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Statisticsteerene ZC12/18 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: EtD Bender Wirth: 434 Typ L5 Image: Colour Wirth Colour Co			20
Store Succession I LED MJT COB LES 9.8 FWHM / FWTM 36.0° / 75.0° Efficiency 89 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Statisticsteerene ZC12/18 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: EtD Bender Wirth: 434 Typ L5 Image: Colour Wirth Colour Co			30* 125 0* 135
LED MJT COB LES 9.8 FWHM / FWTM 36.0° / 75.0° Efficiency 89 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5			90°
FWHM / FWTM 36.0° / 75.0° Efficiency 89 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5	SECOL SEMICONDUCTOR		
Efficiency 89 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5	I FD	MJT COB LES 9.8	
Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5	LED FWHM / FWTM		77
LEDs/each optic 1 Light colour White Required components: Bender Wirth: 434 Typ L5 Secure Secure	FWHM / FWTM	36.0° / 75.0°	77
Light colour White Required components: Bender Wirth: 434 Typ L5 SKOULSEMECONDUCTOR LED ZC12/18 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency	36.0° / 75.0° 89 %	60 79
Required components: Bender Wirth: 434 Typ L5	FWHM / FWTM Efficiency Peak intensity	36.0° / 75.0° 89 % 1.5 cd/lm	77 61 00
Bender Wirth: 434 Typ L5	FWHM / FWTM Efficiency Peak intensity LEDs/each optic	36.0° / 75.0° 89 % 1.5 cd/lm 1	77 67 77
store State	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	36.0° / 75.0° 89 % 1.5 cd/lm 1 White	77 64 77 77
scoul semiconductors LED ZC12/18 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents:	77 64 er 520
scoul semiconductors LED ZC12/18 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents:	77 61 62 60 60 60 60 60 60 60 60 60 60 60 60 60
SEQUI SEMICONDUCTOR LED ZC12/18 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents:	
LED ZC12/18 FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4:	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents:	gr 90 er 90 57
FWHM / FWTM 46.0° / 91.0° Efficiency 87 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4:	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents:	24
Efficiency 87 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4:	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents: 34 Typ L5	24
Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4:	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents: 34 Typ L5	61 0 0 120 120 100
LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4: seoul semiconductor LED	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents: 34 Typ L5 ZC12/18 46.0° / 91.0°	61 0 0 120 120 100
Light colour White Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4: SEOUL SEMICONDUCTOR LED FWHM / FWTM	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents: 34 Typ L5 ZC12/18 46.0° / 91.0° 87 %	61 0 0 120 120 100
Required components:	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents: 34 Typ L5 ZC12/18 46.0° / 91.0° 87 % 1 cd/lm	gr 90 er 90 57
	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents: 34 Typ L5 ZC12/18 46.0° / 91.0° 87 % 1 cd/lm 1	gr 90 er 90 57
	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents: 34 Typ L5 ZC12/18 46.0° / 91.0° 87 % 1 cd/lm 1 White	gr 90 er 90 57
	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4: Stout structure Bender Stout	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents: 34 Typ L5 ZC12/18 46.0° / 91.0° 87 % 1 cd/lm 1 White ents:	9° 4° 120 3°
	FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 4: Stout structure Bender Stout	36.0° / 75.0° 89 % 1.5 cd/lm 1 White ents: 34 Typ L5 ZC12/18 46.0° / 91.0° 87 % 1 cd/lm 1 White ents:	6* 60 47 150 3* 160



	TING TIONS	3 ³
LED	DMC 124 / 125	
FWHM / FWTM	44.0° / 84.0°	32
Efficiency	88 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	Star Star
Required compone	ents:	
Bender Wirth: 4	33 Typ L5	
		314 220 24
		10 ⁵ 0 ³ 10 ⁵
	IING	
	TIONS	90° 90°
LED SOLUT	DMC 128	
		25
LED	DMC 128	32- 25-
LED FWHM / FWTM	DMC 128 50.0° / 96.0°	32- 25-
LED FWHM / FWTM Efficiency	DMC 128 50.0° / 96.0° 87 %	32- 25-
LED FWHM / FWTM Efficiency Peak intensity	DMC 128 50.0° / 96.0° 87 % 0.9 cd/lm	32- 25-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	DMC 128 50.0° / 96.0° 87 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	DMC 128 50.0° / 96.0° 87 % 0.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	DMC 128 50.0° / 96.0° 87 % 0.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	DMC 128 50.0° / 96.0° 87 % 0.9 cd/lm 1 White ents:	



PHOTOMETRIC DATA (SIMULATED):

		80 ⁺ 99
		90"
LED FWHM / FWTM	CXA/B 15xx 33.0° / 68.0°	75
Efficiency	93 %	
Peak intensity	93 % 2 cd/lm	60 ⁴ 00
LEDs/each optic	1	
Light colour	White	
Required components:	White	
required components.		100
		30° 0° 13°
	DS	90 ⁴ 90 ⁴
LED	LUXEON CoB 1202/1203	
FWHM / FWTM	34.0° / 69.0°	
Efficiency	89 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	of an an
Required components:		
Bender Wirth: 441 T	/p L5	
		30* 30
	DS	40)
LED	LUXEON CoB Compact	
FWHM / FWTM	27.0° / 60.0°	
Efficiency	86 %	
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
	US	
LED FWHM / FWTM	CxM-14 (19x19)	
Efficiency	49.0° / 95.0° 86 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
Bender Wirth: 433 T	/o L5	
Sender Wirdt. 400 T	P	



PHOTOMETRIC DATA (SIMULATED):

	NUS
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LED	CxM-9 (13.5x13.5)	
FWHM / FWTM	35.0° / 72.0°	
Efficiency	86 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
Bender Wirth: 434 Typ L5		

NICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	COB S-Type (LES 6) 25.0° / 53.0° 92 % 3.3 cd/lm 1 White	99° 90° 90° 90° 90° 90° 90° 90° 90° 90°
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Soleriq S9 32.0° / 71.0° 90 % 1.9 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC003D / LC006D / LC009D / LC013D 36.0° / 74.0° 92 % 1.7 cd/lm 1 White	25° 0° 15° 0° 15°



PHOTOMETRIC DATA (SIMULATED):

SAMSU	NG	50%
LED	LC010C	
FWHM / FWTM	27.0° / 56.0°	
Efficiency	92 %	80
Peak intensity	3 cd/lm	90
LEDs/each optic	1	
Light colour	White	4
Required component		
Bender Wirth: 479		200
	NO	25 ⁵ 3800 15 ⁵
SVWSN	IN U	50°
LED	LC020C	75
FWHM / FWTM	32.0° / 66.0°	
Efficiency	90 %	9 ⁴
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	9 ⁴
Required component		
Bender Wirth: 479	Typ L5	
		30 ⁴ 10 ⁷ 0 ⁴ 10 ⁷
SAMSU	NG	80*
LED	LC040C	
FWHM / FWTM	40.0° / 82.0°	
Efficiency	89 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	94 00
Required component	S:	
Bender Wirth: 479 Typ L5		
		- 200
SEOUL		
SEOUL SEMICONDUCTOR	ZC4/6	
FWHM / FWTM	35.0° / 72.0°	
Efficiency	86 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required component		
Bender Wirth: 434		
	,,	



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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