

PRODUCT DATASHEET CP16109_CARMEN-50-W-C

CARMEN-50-W-C

~55° wide beam. Assembly with holder C compatible with LEDiL HEKLA.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 50.0 mm
Height	25.5 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

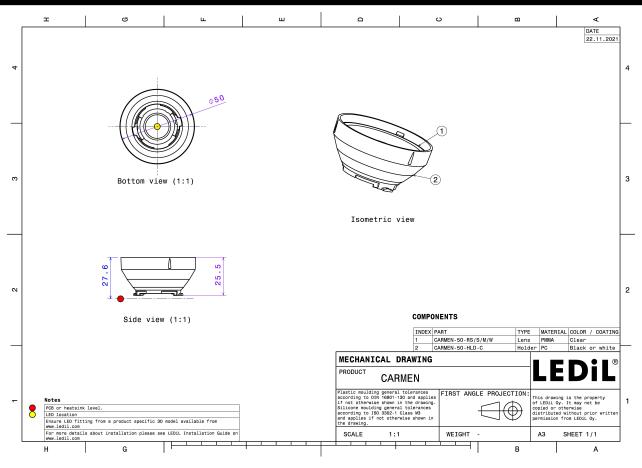
Component	Туре	Material	Colour	Finish
CARMEN-50-W	Single lens	PMMA	clear	
CARMEN-50-HLD-C	Holder	PC	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP16109_CARMEN-50-W-C	Single lens	308	112	28	5.7
» Box size: 476 x 273 x 292 mm					



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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15253_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA		



bridgelux.		90 ⁴
LED	Vesta DTW 13mm (21W)	
FWHM / FWTM	60.0° / 85.0°	
Efficiency	62 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	ar de la companya de
Required compone	nts:	
C16142_HEKLA		
Bender Wirth: 49		
		30° 20 0° 10°
bridgelux.		904
LED	Vesta TW 6mm DP	
FWHM / FWTM	43.0° / 67.0°	
Efficiency	71 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C16142_HEKLA		
Bender Wirth: 50		3270
		15° 0° 15°
\frown		
bridgelux.		90 ⁴
LED	Vesta TW 9mm (9W) DP	
LED FWHM / FWTM	48.0° / 73.0°	97 97 97
LED FWHM / FWTM Efficiency	48.0° / 73.0° 68 %	
LED FWHM / FWTM Efficiency Peak intensity	48.0° / 73.0° 68 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	48.0° / 73.0° 68 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	48.0° / 73.0° 68 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K 39 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 48	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K 39 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 48	48.0° / 73.0° 68 % 1.1 cd/Im 1 White nts: -SOCKET-K 39 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 48 CITTIZE LED	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K 39 Typ L8 N CLL02x/CLU02x (LES10)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 48 CITTIZE LED FWHM / FWTM	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K 39 Typ L8 N CLL02x/CLU02x (LES10) 54.0° / 81.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K 39 Typ L8 N CLL02x/CLU02x (LES10) 54.0° / 81.0° 80 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K 39 Typ L8 N CLL02x/CLU02x (LES10) 54.0° / 81.0° 80 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K 39 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K 39 Typ L8 N CLL02x/CLU02x (LES10) 54.0° / 81.0° 80 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K 39 Typ L8 N CLL02x/CLU02x (LES10) 54.0° / 81.0° 80 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C16142_HEKLA Bender Wirth: 48 CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	48.0° / 73.0° 68 % 1.1 cd/lm 1 White nts: -SOCKET-K 39 Typ L8 N CLL02x/CLU02x (LES10) 54.0° / 81.0° 80 % 1 cd/lm 1 White nts:	



	NT		
CITIZE	IN		90* 9
LED	CLU700/701/702		
FWHM / FWTM	52.0° / 76.0°		
Efficiency	85 %		60 ⁶ 400 6
Peak intensity	1.2 cd/lm		
LEDs/each optic	1		
Light colour	White		97 e
Required compone			
F15255_HEKLA	-SOCKET-C		
			364 <u>1200</u> 3
CITIZE	N		50°
LED	CLU710/711		
FWHM / FWTM	52.0° / 77.0°		75 2
Efficiency	78 %		
Peak intensity	1.1 cd/lm		60 ² 6
LEDs/each optic	1		
Light colour	White		
Required compone			
F15859_HEKLA			
_			
			30-
CITIZE	N		125 1250 135'
CITIZE			15 ¹ 18 ⁵ 15 ⁴
LED	CLU7A2 (LES 4.2mm)	1000	35°29°29°29°
LED FWHM / FWTM	CLU7A2 (LES 4.2mm) 53.0° / 73.0°		15 ¹ 15 ⁶ 15 ⁴
LED FWHM / FWTM Efficiency	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 %		25 ⁵ 25 ⁵ 25 ⁴
LED FWHM / FWTM Efficiency Peak intensity	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm		5 ⁵⁷ <u>16⁵</u> 25 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White		15 ⁵ 16 ⁵ 15 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White ents:		25 ⁵ <u>16</u> 5 <u>10⁴</u> 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White ents: -SOCKET-C		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White ents: -SOCKET-C		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White ents: -SOCKET-C		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White ents: -SOCKET-C		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White ents: -SOCKET-C		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White ents: -SOCKET-C		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White ents: -SOCKET-C N CLU7B2 51.0° / 72.0° 85 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White ents: -SOCKET-C N CLU7B2 51.0° / 72.0° 85 % 1.2 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White white SOCKET-C N CLU7B2 51.0° / 72.0° 85 % 1.2 cd/lm 1 White white stress:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White white SOCKET-C N CLU7B2 51.0° / 72.0° 85 % 1.2 cd/lm 1 White white stress:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White white SOCKET-C N CLU7B2 51.0° / 72.0° 85 % 1.2 cd/lm 1 White white stress:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CLU7A2 (LES 4.2mm) 53.0° / 73.0° 87 % 1.2 cd/lm 1 White white SOCKET-C N CLU7B2 51.0° / 72.0° 85 % 1.2 cd/lm 1 White white stress:		



		50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15256_HEKLA	CMA1516 57.0° / 81.0° 83 % 1 cd/lm 1 White hts:	
		50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CMT14xx 55.0° / 81.0° 54 % 0.7 cd/lm 1 White hts:	
		Q1 ⁴ Q1 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	CXA/B 13xx 54.0° / 76.0° 88 % 1.2 cd/m 1 White hts:	
		90 ⁴ 90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15956_HEKLA	CXA/B 13xx 54.0° / 77.0° 86 % 1.1 cd/lm 1 White hts:	



	D	95°
LED	CXA/B 15xx	
FWHM / FWTM	56.0° / 81.0°	
Efficiency	84 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	g. a.
Required compone	ents:	
F15256_HEKLA	A-SOCKET-D	
		345
	EDC	25% 6% 12°
		90 [*]
LED	LUXEON CoB 1202HD	
FWHM / FWTM	54.0° / 76.0°	
Efficiency	85 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
F15848_HEKLA	A-SOCKET-G	
		30 ¹⁰ 2200 30 ¹ 20 ¹⁰ 0 ¹⁰ 10 ¹
	.EDS	30, 30,
LED	LUXEON CoB 1202s	
FWHM / FWTM	52.0° / 75.0°	
Efficiency	85 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr d
Required compone	ents:	
F15848_HEKLA	A-SOCKET-G	
		34.0 1220 30
	FDS	25 [°] 6 ⁰ 12 [°]
	LUXEON CX Plus CoB - HD S01H4	75
FWHM / FWTM	45.0° / 67.0°	
Efficiency	78 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1 White	gr 80
Light colour Required compone	White	
Bender Wirth: 6	340 ทยห เล	
		30 ⁶ 12 ⁵ 0 ⁴ 22 ⁵



COMIL	.EDS	
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB - HD S01H6 / HD S02H6 45.0° / 68.0° 77 %	0x
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone Bender Wirth: 6		
Bender Winn: 6	зас пекіа	
	EDS	
LED	LUXEON CX Plus CoB - HD S04H9	
FWHM / FWTM	49.0° / 74.0°	
Efficiency	76 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr.
Required compone	ents:	
Bender Wirth: 6	34c Hekla	
		94* 125 22* 4* 12*
	EDS	20*
	EDS LUXEON CX Plus CoB M02 / M03 (Gen2)	30 ⁴
LED FWHM / FWTM		20
LED	LUXEON CX Plus CoB M02 / M03 (Gen2)	80°
LED FWHM / FWTM	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0°	6 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 %	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White	g*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White ents:	90° 97° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White ents: 41a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White white Marking LUXEON CX Plus CoB S01 (Gen2)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White ents: 41a Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 45.0° / 67.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 WIM / FWTM Efficiency	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White ents: 41a Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 45.0° / 67.0° 78 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 WITH: 6 COMPARENT Efficiency Peak intensity	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White ents: 41a Hekla LUXEON CX Plus CoB S01 (Gen2) 45.0° / 67.0° 78 % 1.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 WIM / WITH: 6 FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White ents: 41a Hekla EDS LUXEON CX Plus CoB S01 (Gen2) 45.0° / 67.0° 78 % 1.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 Composed of the second Bender Wirth: 6 Composed of the second Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White white white EDS LUXEON CX Plus CoB S01 (Gen2) 45.0° / 67.0° 78 % 1.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 WIM / WITH Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White white EDS LUXEON CX Plus CoB S01 (Gen2) 45.0° / 67.0° 78 % 1.4 cd/lm 1 White mts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 Composed of the second Bender Wirth: 6 Composed of the second Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White white EDS LUXEON CX Plus CoB S01 (Gen2) 45.0° / 67.0° 78 % 1.4 cd/lm 1 White mts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6 Composition Bender Wirth: 6 Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB M02 / M03 (Gen2) 48.0° / 72.0° 75 % 1.2 cd/lm 1 White white EDS LUXEON CX Plus CoB S01 (Gen2) 45.0° / 67.0° 78 % 1.4 cd/lm 1 White mts:	



-			
	INUS	190 ⁴	9
LED	CDM-6 (Dim-To-Warm)		
FWHM / FWTM	44.0° / 68.0°	23	
Efficiency	68 %		
Peak intensity	1.3 cd/lm		\sim /
LEDs/each optic	1		
Light colour	White	or and the second se	$\langle \rangle$
Required compone	ents:		
C16142_HEKLA			
Bender Wirth: 4	90 Typ L8		
		340 200 at	5°
ELUM	INUS	30*	9
LED	CDM-9 (Dim-To-Warm)		
FWHM / FWTM	48.0° / 72.0°		h^{-1}
Efficiency	67 %		
Peak intensity	1.1 cd/lm		\mathbf{i}
LEDs/each optic	1		
Light colour	White	er de la companya de	
Required compone	ents:		
C16142_HEKLA	A-SOCKET-K		
Bender Wirth: 4	90 Typ L8		
(C LUM	INUS	50*	
LED		90 ⁴	9
LED	CTM-9 (Tunable White) 48.0° / 72.0°	35.	
LED FWHM / FWTM	CTM-9 (Tunable White)	35°	3
LED	CTM-9 (Tunable White) 48.0° / 72.0°	99 ⁴ 79 ⁵ 69 ⁴ 402	
LED FWHM / FWTM Efficiency	CTM-9 (Tunable White) 48.0° / 72.0° 67 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm	99 ⁴ 75 69 ⁴ 69 ⁴ 60	
LED FWHM / FWTM Efficiency Peak intensity	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White		* *
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K	95° 75° 90° 90° 90° 90°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K 95 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K 95 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K 95 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K 95 Typ L8		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4 WITH LED FWHM / FWTM Efficiency	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K 95 Typ L8 INUS CXM-3 51.0° / 73.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4: Efficiency Peak intensity	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K 95 Typ L8 INUS CXM-3 51.0° / 73.0° 87 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4: Efficiency Peak intensity LEDs/each optic	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K 95 Typ L8 INUS CXM-3 51.0° / 73.0° 87 % 1.2 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 4	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K 95 Typ L8 INUS CXM-3 51.0° / 73.0° 87 % 1.2 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4 Efficiency Peak intensity LEDs/each optic Light colour	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K 95 Typ L8 INUS CXM-3 51.0° / 73.0° 87 % 1.2 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K 95 Typ L8 INUS CXM-3 51.0° / 73.0° 87 % 1.2 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CTM-9 (Tunable White) 48.0° / 72.0° 67 % 1 cd/lm 1 White ents: A-SOCKET-K 95 Typ L8 INUS CXM-3 51.0° / 73.0° 87 % 1.2 cd/lm 1 White ents:		



E		
ELUM	INUS	90° 90°
LED	CXM-4	
FWHM / FWTM	50.0° / 73.0°	
Efficiency	83 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr es
Required compone	ents:	
F15255_HEKLA		
		30 ⁴ 200 00 30 ⁴
ELUM	INUS	20 ⁴ 20
LED	CxM-9 (13.5x13.5)	
FWHM / FWTM	55.0° / 81.0°	
Efficiency	83 %	
Peak intensity	1 cd/lm	90 ⁴
LEDs/each optic	1	
Light colour	White	
Required compone		
F15255_HEKLA		
ØNICHI/	•	2001 (c) 1000
		50° 50°
LED	COB S-Type (LES 7)	
FWHM / FWTM	53.0° / 78.0°	
Efficiency	83 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1 White	
Light colour	White	
Required compone	ents:	
	ents:	
Required compone	ents:	
Required compone	ents:	
Required compone	ents: A-SOCKET-G	
Required compone F15848_HEKLA	ents: A-SOCKET-G	
Required compone F15848_HEKL4	ents: A-SOCKET-G	- 10
Required compone F15848_HEKLA	A-SOCKET-G NJCWL024Z-V1MT: COB L-Type Tunable White	
Required compone F15848_HEKLA	A-SOCKET-G NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 67.0°	
Required compone F15848_HEKLA	A-SOCKET-G NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 67.0° 66 %	
Required compone F15848_HEKLA	A-SOCKET-G NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 67.0° 66 % 1.3 cd/lm	
Required compone F15848_HEKLA	A-SOCKET-G NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 67.0° 66 % 1.3 cd/lm 1 White	
Required compone F15848_HEKLA	A-SOCKET-G NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 67.0° 66 % 1.3 cd/lm 1 White ents: A-SOCKET-K	
Required compone F15848_HEKLA	A-SOCKET-G NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 67.0° 66 % 1.3 cd/lm 1 White ents: A-SOCKET-K	
Required compone F15848_HEKLA	A-SOCKET-G NJCWL024Z-V1MT: COB L-Type Tunable White 42.0° / 67.0° 66 % 1.3 cd/lm 1 White ents: A-SOCKET-K	20 ¹ 20 ² 22 ² 22 ²



A		
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	NVCWJ024Z-V1MT: COB J-Type Tunable White 49.0° / 74.0° 65 % 1 cd/lm 1 White ents: A-SOCKET-K	
PHILLI ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	Fortimo SLM L09 CoB 55.0° / 79.0° 81 % 1.1 cd/lm 1 White ents:	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	LC003D / LC006D / LC009D / LC013D 56.0° / 82.0° 82 % 1 cd/lm 1 White ents:	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	LC010C G2 51.0° / 74.0° 85 % 1.2 cd/lm 1 White ents:	



SΛMSι	JNG	substitution 50°	90
LED	LC010T (Tunable White)		1
FWHM / FWTM	47.0° / 72.0°		4
Efficiency	67 %		
Peak intensity	1.1 cd/lm		
LEDs/each optic	1		
Light colour	Tunable White	at the second	~
Required compone	nts:	80	
C16142_HEKLA	-SOCKET-K		
Bender Wirth: 50)1 Тур L8	30* 339 0* 39	33
S ΛΜS	JNG	100 million (100 m	90
LED	LC020C G2		1
FWHM / FWTM	53.0° / 77.0°	72	20
Efficiency	79 %		~
Peak intensity	1.1 cd/lm		
LEDs/each optic	1		
Light colour	White	9	45
Required compone	nts:		
F15859_HEKLA	-SOCKET-I		
			36
TRIDON		90 ⁴	90
LED	SLE G7 LES09		
FWHM / FWTM	53.0° / 79.0°	2"	75
Efficiency	82 %		
Peak intensity	1.1 cd/lm		66
LEDs/each optic	1		
Light colour	White		
Required compone			
F15255_HEKLA	-300KET-C		
F15255_HEKLA	-SUCKET-C		
F15255_HEKLA	-300ke1-0		30
		24 ⁴ 25 ¹⁷ 230 15 ¹	3
TRIDON	lic	100	35
	SLE G7 LES13	30 ¹ 13 ¹ 13 ¹	90 90 75
TRIDON LED FWHM / FWTM	SLE G7 LES13 64.0° / 87.0°		90
TRIDON LED FWHM / FWTM Efficiency	SLE G7 LES13 64.0° / 87.0° 73 %	54 ¹ 54 ¹ 71 64 64	9
TRIDON LED FWHM / FWTM Efficiency Peak intensity	SLE G7 LES13 64.0° / 87.0° 73 % 0.7 cd/lm		90
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SLE G7 LES13 64.0° / 87.0° 73 % 0.7 cd/lm 1		9
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES13 64.0° / 87.0° 73 % 0.7 cd/Im 1 White		9
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES13 64.0° / 87.0° 73 % 0.7 cd/lm 1 White nts:		9
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SLE G7 LES13 64.0° / 87.0° 73 % 0.7 cd/lm 1 White nts:		9
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES13 64.0° / 87.0° 73 % 0.7 cd/lm 1 White nts:		9



XICATO)	91 ⁴ 91 ⁴
LED	XOB 6 mm	
FWHM / FWTM	50.0° / 73.0°	
Efficiency	82 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	a. A.
Required compone	ents:	
F15255_HEKLA-SOCKET-C		
		30
		325 ¹ 0 ¹ 25 ⁵
XICATO		3)*3)*
LED		
LED	XOB 9.8 mm	
LED FWHM / FWTM	XOB 9.8 mm 54.0° / 79.0°	
FWHM / FWTM	54.0° / 79.0°	60 ³ 600 76 ⁴
FWHM / FWTM Efficiency	54.0° / 79.0° 83 %	
FWHM / FWTM Efficiency Peak intensity	54.0° / 79.0° 83 % 1.1 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	54.0° / 79.0° 83 % 1.1 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	54.0° / 79.0° 83 % 1.1 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	54.0° / 79.0° 83 % 1.1 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	54.0° / 79.0° 83 % 1.1 cd/lm 1 White ents:	



PHOTOMETRIC DATA (SIMULATED):

bridgelux.		90° 90°
LED	V10 Gen7	
FWHM / FWTM	54.0° / 76.0°	75°
Efficiency	84 %	
Peak intensity	1.2 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 45°
Required components:	THE STATES	
F15255_HEKLA-SO	CKET-C	
		30° 1220 30° 30°
bridgelux.		90° 90°
LED	V6 Gen6	
FWHM / FWTM	46.0° / 63.0°	73*
Efficiency	85 %	- 400
Peak intensity	1.5 cd/lm	60* · · · · · · · · · · · · · · · · · · ·
LEDs/each optic	1	
Light colour	White	900
Required components:		
F15253_HEKLA-SO	CKET-A	
_		1220
bridgelux.		50°
bridgelux. LED	V8 Gen7	59* 59*
	V8 Gen7 54.0° / 74.0°	3°
LED FWHM / FWTM		
LED FWHM / FWTM Efficiency	54.0° / 74.0°	60 - 67
LED FWHM / FWTM Efficiency Peak intensity	54.0° / 74.0° 90 %	60 - 6 ⁴
LED FWHM / FWTM Efficiency	54.0° / 74.0° 90 % 1.2 cd/lm	2. 9 9 13 13 10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	54.0° / 74.0° 90 % 1.2 cd/lm 1	a. 60 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	54.0° / 74.0° 90 % 1.2 cd/lm 1 White	59 ¹⁴ 59 ¹⁴ 59 ¹⁴ 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	54.0° / 74.0° 90 % 1.2 cd/lm 1 White	5 ¹ 5 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	54.0° / 74.0° 90 % 1.2 cd/lm 1 White	5 ⁵⁴ 5 ⁷ 6 ⁶⁴ 6 ⁷ 6 ⁷ 6 ⁷ 6 ⁷ 6 ⁷ 6 ⁷ 6 ⁷ 6 ⁷
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	54.0° / 74.0° 90 % 1.2 cd/lm 1 White	10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	54.0° / 74.0° 90 % 1.2 cd/lm 1 White	84 94 30, 12, 36, 64, 66, 66, 66, 66, 66, 66, 66, 66, 66, 66, 66, 66, 66, 66, 66, 66, 66, 67, 66, 66, 68, 66, 66, 69, 70, 75, 72, 75, 75, 73, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOC	54.0° / 74.0° 90 % 1.2 cd/lm 1 White	5 ¹ 5 ¹ 6 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOG	54.0° / 74.0° 90 % 1.2 cd/lm 1 White CKET-A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOO	54.0° / 74.0° 90 % 1.2 cd/lm 1 White CKET-A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOO	54.0° / 74.0° 90 % 1.2 cd/lm 1 White CKET-A VERO10 49.0° / 73.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOO bridgeLux. LED FWHM / FWTM Efficiency	54.0° / 74.0° 90 % 1.2 cd/lm 1 White CKET-A VERO10 49.0° / 73.0° 83 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOO bridgetux. LED FWHM / FWTM Efficiency Peak intensity	54.0° / 74.0° 90 % 1.2 cd/lm 1 White CKET-A VERO10 49.0° / 73.0° 83 % 1.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SO(bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	54.0° / 74.0° 90 % 1.2 cd/lm 1 White CKET-A VERO10 49.0° / 73.0° 83 % 1.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOO bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	54.0° / 74.0° 90 % 1.2 cd/lm 1 White CKET-A VERO10 49.0° / 73.0° 83 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOG bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	54.0° / 74.0° 90 % 1.2 cd/lm 1 White CKET-A VERO10 49.0° / 73.0° 83 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15253_HEKLA-SOG bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	54.0° / 74.0° 90 % 1.2 cd/lm 1 White CKET-A VERO10 49.0° / 73.0° 83 % 1.3 cd/lm 1 White	



PHOTOMETRIC DATA (SIMULATED):

ΜΝΙCΗΙΛ

LED	COB L-Type (LES 11)		
FWHM / FWTM	65.0° / 87.0°		
Efficiency	84 %		
Peak intensity	0.8 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
F15858_HEKLA-SOCKET-H			

ΜΝΙCΗΙΛ

LED	COB L-Type (LES 9)		
FWHM / FWTM	62.0° / 81.0°		
Efficiency	89 %		
Peak intensity	1 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
F15858 HEKLA-SOCKET-H			

Μ ΝΙCΗΙΛ			90 ⁴ 90 ⁴
LED	COB S-Type (LES 6)		
FWHM / FWTM	48.0° / 67.0°		78*
Efficiency	79 %		60° 60°
Peak intensity	1.4 cd/lm		$f \times // \longrightarrow X$
LEDs/each optic	1		
Light colour	White		45° 45°
Required components	:		
F15848_HEKLA-SO	DCKET-G		
			30%
			15° 0° 15°
SAMSU	NG		90* 90*
LED	LC003D / LC006D / LC009D / LC013D		
FWHM / FWTM	53.0° / 75.0°		31. 31.
Efficiency	79 %		400
Peak intensity	1.2 cd/lm		
LEDs/each optic	1		
Light colour	White		95° 43°
Required components	:		
F17435_HEKLA-G	2-C		
		1. 不知道我们 是我们的意义。	30- 3250 30-



PHOTOMETRIC DATA (SIMULATED):

SAMSUI	NG	50° 50°
LED	LC003D / LC006D / LC009D / LC013D	
FWHM / FWTM	52.0° / 74.0°	73.
Efficiency	80 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	$ \times / \rangle \times $
Light colour	White	95* 63*
Required components:		
F17435_HEKLA-G2		
		30° 30° 35°
SAMSUI	NG	50 ⁴
LED	LC010C	
FWHM / FWTM	51.0° / 68.0°	
Efficiency	84 %	400
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 65*
Required components:		
F17435_HEKLA-G2		
		30° 30'
SAMSUI	NG	• <u>155⁹ 0⁸ 155⁹</u>
	LH231B	
FWHM / FWTM	50.0° / 73.0° 82 %	
Efficiency		
Peak intensity LEDs/each optic	1.2 cd/lm 7	
Light colour	7 White	
Required components:		
F15255_HEKLA-SC		
XICATO		50* 50*
LED	XTM - 9mm LES	75* 78*
FWHM / FWTM	55.0° / 76.0 + 6.0°	
Efficiency	87 %	60* 400 60*
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	$ \times / \times \times $
Light colour	White	45* 45*
Required components:		
C15743_XTM-ADA	PTER-50-B	



PRODUCT DATASHEET CP16109_CARMEN-50-W-C

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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