

PRODUCT DATASHEET FP16562_LISA3-WWW-PIN

LISA3-WWW-PIN

~60° wide beam with location pin installation

SPECIFICATION:

Dimensions	Ø 9.9 mm
Height	7 mm
Fastening	pin
ROHS compliant	yes 🛈



MATERIALS:

Component LISA3-WWW LISA3-HLD-PIN

Type Single lens Holder

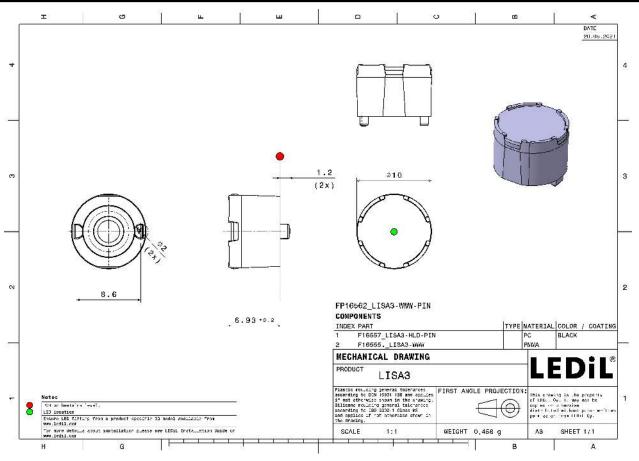
Material	Colour	Finish
PMMA	clear	
PC	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16562_LISA3-WWW-PIN	Single lens	2000	300	100	1.4
» Box size: 310 x 230 x 60 mm					



PRODUCT DATASHEET FP16562_LISA3-WWW-PIN



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



OPTICAL RESULTS (MEASURED):

			×
LED	XD16		
FWHM / FWTM	55.0° / 85.0°		
Efficiency	74 %		1 5 ⁻² / / w
Peak intensity	0.9 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone	ents:		
	D		
LED	XP-E2		
FWHM / FWTM	63.0° / 91.0°		11 ⁻
Efficiency	85 %		
Peak intensity	0.8 cd/lm		$f \times / / \wedge \times \uparrow$
LEDs/each optic	1		
Light colour	White		er de la companya de
Required compone	ents:		
			149
	C		
LED	XP-G3		
LED FWHM / FWTM	XP-G3 60.0° / 92.0°		
LED FWHM / FWTM Efficiency	XP-G3 60.0° / 92.0° 80 %		
LED FWHM / FWTM Efficiency Peak intensity	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White		2 ¹² - 20 - 7 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White		2 ¹² - 20 - 7 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White		2 ¹² - 20 - 7 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White		2 ¹² - 20 - 7 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White ents: XP-G3		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White ents: XP-G3 61.0° / 95.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White ents: XP-G3 61.0° / 95.0° 80 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White ents: XP-G3 61.0° / 95.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White ents: XP-G3 61.0° / 95.0° 80 % 0.8 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE Compone LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White ents: XP-G3 61.0° / 95.0° 80 % 0.8 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White ents: XP-G3 61.0° / 95.0° 80 % 0.8 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE Compone LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White ents: XP-G3 61.0° / 95.0° 80 % 0.8 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE Compone LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White ents: XP-G3 61.0° / 95.0° 80 % 0.8 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE CLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 60.0° / 92.0° 80 % 0.8 cd/lm 1 White ents: XP-G3 61.0° / 95.0° 80 % 0.8 cd/lm 1 White		



OPTICAL RESULTS (MEASURED):

A		
	LUXEON CZ	
FWHM / FWTM	57.0° / 85.0°	
Efficiency	85 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
ØNICHI		
LED	NF2x757G	
FWHM / FWTM	50.0° / 82.0°	
Efficiency	76 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
ØNICHI	L	
LED	NVSW219F	
FWHM / FWTM	64.0° / 96.0°	
Efficiency	84 %	er:
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
OSRAM		
Opto Semiconductors	OSCONIQ C 2424	
EED FWHM / FWTM	53.0° / 81.0°	
Efficiency	84 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		



OPTICAL RESULTS (MEASURED):

OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required compone		
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351C 64.0° / 96.0° 84 % 0.8 cd/lm 1 White	
Stout StateOnDuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z5M4 62.0° / 95.0° 84 % 0.8 cd/lm 1 White ents:	



		6.7 W
LED	J Series 2835	
FWHM / FWTM	53.0° / 82.0°	
Efficiency	87 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	' White	
Required components:	Wine	
		A Contraction of the second se
		×
LED	J Series 2835	
FWHM / FWTM	53.0° / 82.0°	
Efficiency	87 %	
Peak intensity	1.1 cd/lm	$X \neq \sqrt{2\pi} X > 2$
LEDs/each optic	1	$\times // \times \times$
Light colour	White	
Required components:		
		1. · · · · · · · · · · · · · · · · · · ·
LED	XP-E	
FWHM / FWTM	64.0° / 93.0°	nt
Efficiency	89 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		1 1.05 4 100 T
		17W
LED	XP-G2	
FWHM / FWTM	66.0° / 93.0°	$ \lambda / \lambda $
Efficiency	87 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	* / / /
Required components:		
		1 mart
		(37) W (30)



LED FWHM / FWTM Efficiency Peak intensity	XP-G2 HE 68.0° / 100.0° 82 % 0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	e Alexandre a
Required components:		
	DS	6.5 397
LED	LUXEON 2835 Line	
FWHM / FWTM	54.0° / 82.0°	15 A A A A A A A A A A A A A A A A A A A
Efficiency	88 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	er / / / / / / / / / / / / / /
Required components:		
	DS	
LED	LUXEON 3030 2D (Round LES)	$1 \rightarrow 1$
FWHM / FWTM	54.0° / 79.0°	
Efficiency	85 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	9° / - 29
Required components:		
	DS	
LED	LUXEON HL2X	
FWHM / FWTM	66.0° / 98.0°	
Efficiency	85 %	57 500 W
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	47°
Required components:		



A		
	LUXEON TX	
FWHM / FWTM	62.0° / 87.0°	
Efficiency	85 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	1 Anna and Anna
Required components:		
	DS S	a
LED	LUXEON V2	
FWHM / FWTM	60.0° / 92.0°	
Efficiency	88 %	p / / / / / / / / / / / / / / / / / / /
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		X I X
	DS	8.7 W
LED	LUXEON Z	
FWHM / FWTM	58.0° / 80.0°	
Efficiency	88 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	\times $/$ \times \times
Light colour	White	x / / / / / / / / / / / / / / / / / / /
Required components:		A
	5	
		A
LED		
LED FWHM / FWTM	LUXEON Z ES	
FWHM / FWTM		
FWHM / FWTM Efficiency	LUXEON Z ES 56.0° / 82.0°	
FWHM / FWTM	LUXEON Z ES 56.0° / 82.0° 88 %	
FWHM / FWTM Efficiency Peak intensity	LUXEON Z ES 56.0° / 82.0° 88 % 1 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Z ES 56.0° / 82.0° 88 % 1 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES 56.0° / 82.0° 88 % 1 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES 56.0° / 82.0° 88 % 1 cd/lm 1	5
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES 56.0° / 82.0° 88 % 1 cd/lm 1	



	JS	Polor Intensity graph	· · · · · ·
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	SST-10-IR-B90 54.0° / 80.0° 86 % 1 IR		
	JS		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SST-20 56.0° / 84.0° 86 % 1 cd/lm 1 White		
ØNICHIA			1.7 N
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NCSxx19B 60.0° / 88.0° 82 % 0.8 cd/lm 1 White		
ØNICHIA			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSW219D 67.0° / 88.0° 84 % 0.7 cd/lm 1 White		



WNICHIA		
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	61.0° / 92.0°	11
Efficiency	83 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	V PLAN
Light colour	White	
Required components:		
		30 X
OSRAM		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Opto Semiconductors		#* *
LED	Duris S5 (2 chip)	
FWHM / FWTM	49.0° / 77.0°	
Efficiency	87 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		\times \land \land \land \land
OSRAM Opto Semiconductors		try we
Opto Semiconductors	Duris S5 (Single chip)	
FWHM / FWTM	48.0° / 76.0°	n A A
Efficiency	86 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
OSRAM		Real and the second sec
Opto Semiconductors		×
LED	OSCONIQ P 3030	
FWHM / FWTM	56.0° / 82.0°	
Efficiency	85 %	e- / w
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		25° 2° 11'



OSRAM Opto Semiconductors		5 >>
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	58.0° / 90.0°	
Efficiency	86 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	\times $/$ \times \times
Light colour	White	
Required components:		
OSRAM Opto Semiconductors		a
LED	OSLON Black	
FWHM / FWTM	46.0° / 71.0°	
Efficiency	88 %	e X / Market New J
Peak intensity	1.4 cd/im	
LEDs/each optic	1	
Light colour	White	
Required components:		
OSRAM Opto Semiconductors		17 ×
LED	OSLON Black Flat (LUW HWQP)	
FWHM / FWTM	54.0° / 80.0°	
Efficiency	88 %	
Peak intensity		
	1.1 cd/im	$\langle / / / \rangle$
LEDs/each optic	1.1 cd/lm 1	
LEDs/each optic Light colour		9°
	1	5 5 6 7 7 8 7 8 7 8 7
Light colour	1	5
Light colour	1	9°
Light colour	1	
Light colour Required components:	1	
Light colour Required components:	1 Red	
Light colour Required components: Opto Semiconductors LED	1 Red OSLON Square EC	
Light colour Required components: Opto Semiconductors LED FWHM / FWTM	1 Red OSLON Square EC 61.0° / 86.0°	
Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	1 Red OSLON Square EC 61.0° / 86.0° 86 %	
Light colour Required components: OBSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	1 Red OSLON Square EC 61.0° / 86.0° 86 % 0.9 cd/lm	
Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 Red OSLON Square EC 61.0° / 86.0° 86 % 0.9 cd/lm 1	
Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 Red OSLON Square EC 61.0° / 86.0° 86 % 0.9 cd/lm	
Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 Red OSLON Square EC 61.0° / 86.0° 86 % 0.9 cd/lm 1	
Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 Red OSLON Square EC 61.0° / 86.0° 86 % 0.9 cd/lm 1	
Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 Red OSLON Square EC 61.0° / 86.0° 86 % 0.9 cd/lm 1	
Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 Red OSLON Square EC 61.0° / 86.0° 86 % 0.9 cd/lm 1	



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OSRAM Opto Semiconductors			a."
LED	OSLON SSL 120		
FWHM / FWTM	58.0° / 85.0°		
Efficiency	89 %		
Peak intensity	1 cd/lm		57 A
LEDs/each optic	1		
Light colour	Amber		
Required components:			
OSRAM			
Opto Semiconductors			
LED	OSLON SSL 150		
FWHM / FWTM	63.0° / 84.0°		
Efficiency	87 %		er / / / w
Peak intensity	0.9 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
			X
			× ×
OSRAM			2.7 307 307
Opto Semiconductors			
	OSLON SSL 80		11
FWHM / FWTM	53.0° / 79.0° 87 %		
Efficiency Book intoncity	87 % 1.1 cd/lm		
Peak intensity	1.1 ca/im 1		
LEDs/each optic Light colour	White		
Required components:	White		
OSRAM		Polar intensity graph	
OSRAM Opto Semiconductors		Polar intensity graph	
Opto Semiconductors	SEH 47465	Polar intensity graph	
Opto Semiconductors	SFH 4715S	Polar intensity graph	
Opto Semiconductors LED FWHM / FWTM	47.0° / 70.0°	Polar intensity groph	
^{opto Semiconductors} LED FWHM / FWTM Efficiency	47.0° / 70.0° 88 %	Polor intensity graph	
Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic	47.0° / 70.0° 88 % 1	Polor intensity graph	
Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	47.0° / 70.0° 88 %	Polar intensity graph	
Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic	47.0° / 70.0° 88 % 1	Polar intensity graph	
Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	47.0° / 70.0° 88 % 1	Polar intensity graph	
Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	47.0° / 70.0° 88 % 1	Polar intensity graph	



Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	SFH 4716S 57.0° / 83.0° 85 % 1 IR	Polor intensity graph	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Synios P2720 1 mm 54.0° / 80.0° 88 % 1.1 cd/lm 1 Red		
OSRAM Depto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SYNIOS S2222 55.0° / 82.0° 96 % 1.1 cd/lm 1 White		
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	G LH351B 62.0° / 95.0° 85 % 0.8 cd/lm 1 White		



SAMSUN	IG	*
LED	LH351D	
FWHM / FWTM	65.0° / 100.0°	
Efficiency	81 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
SAMSUN	IG	×
LED	LM301A	
FWHM / FWTM	53.0° / 75.0°	
Efficiency	87 %	
Peak intensity	1.2 cd/im	
LEDs/each optic	1	
Light colour	White	4" /
Required components:		
SAMSUN	IG	
	LM301B	
LED	LM301B	
LED FWHM / FWTM	LM301B 55.0° / 82.0°	
LED FWHM / FWTM Efficiency	LM301B 55.0° / 82.0° 87 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1 White IG LM302A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1 White IG LM302A 53.0° / 80.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1 White IG LM302A 53.0° / 80.0° 87 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1 White V LM302A 53.0° / 80.0° 87 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1 White Vhite LM302A 53.0° / 80.0° 87 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1 White V LM302A 53.0° / 80.0° 87 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1 White Vhite LM302A 53.0° / 80.0° 87 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1 White Vhite LM302A 53.0° / 80.0° 87 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1 White Vhite LM302A 53.0° / 80.0° 87 % 1.2 cd/lm 1	



LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	FWR1107MS 44.0° / 68.0° 85 % 1 IR	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	FWR1108MS 60.0° / 87.0° 88 % 1 IR	20 ¹ 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	MFN1107MS 35.0° / 60.0° 91 % 2.2 cd/lm 1 IR	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	MFN1108MS 52.0° / 76.0° 90 % 1.2 cd/lm 1 IR	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	MGN1107MS 35.0° / 60.0° 91 % 2.2 cd/lm 1 IR	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	MGN1108MS 52.0° / 76.0° 90 % 1.2 cd/lm 1 IR	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	MJN1107MS 50.0° / 77.0° 89 % 1 IR	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	MJN1108MS 61.0° / 88.0° 88 % 1 IR	



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.

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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