

PRODUCT DATASHEET FP16562_LISA3-WWW-PIN

LISA3-WWW-PIN

~60° wide beam with location pin installation

TECHNICAL SPECIFICATIONS:

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



MATERIAL SPECIFICATIONS:

Component	Туре	Material	Colour	Finish
LISA3-WWW	Single lens	PMMA	clear	
LISA3-HLD-PIN	Holder	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



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



PHOTOMETRIC DATA (MEASURED):

CREE C LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 61.0° / 95.0° 80 % 0.8 cd/lm 1 White	20° 20° 20° 20° 20° 20° 20° 20°
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G 50.0° / 82.0° 76 % 1.1 cd/lm 1 White	124 04 124 20, 90 90 20, 90 95 20, 90 95 20, 90 95



CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP35.2 64.0° / 99.0° 74 % 0.7 cd/lm 1 White	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-E 64.0° / 93.0° 89 % 0.8 cd/lm 1 White	59 ⁴ 99 ⁴ 75 ⁵ 70 ⁰ 69 ⁴ 60 ⁴ 7 ⁵ 60 ⁶ 7 ⁵ 60 ⁶ 7 ⁵ 60 ⁶ 7 ⁵ 60 ⁶ 7 ⁵ 60 ⁶
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-E2 62.0° / 88.0° 89 % 0.9 cd/lm 1 White	20° 20° 20° 20° 20° 400 400 400 400 400 400 400 400 400 4
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-E2 64.0° / 90.0° 89 % 0.8 cd/lm 1 White	



CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 66.0° / 93.0° 87 % 0.8 cd/lm 1 White	50° 50° 50° 60° 60° 60° 60° 60° 60° 60° 60° 60° 6
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 HE 68.0° / 100.0° 82 % 0.7 cd/lm 1 White	200
EUMILEI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line 54.0° / 82.0° 88 % 1 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 54.0° / 79.0° 85 % 1.2 cd/lm 1 White	



	S S	90° 90°
LED	LUXEON TX	73. 75
FWHM / FWTM	62.0° / 87.0°	200
Efficiency	85 %	60.0
Peak intensity	0.8 cd/lm 1	440
LEDs/each optic Light colour	1 White	45 ⁴
Required components:	White	
Required components.		
		30" 3000 31
	S	15 ¹ 0 ⁶ 25 ¹
LED	LUXEON V2	
FWHM / FWTM	60.0° / 92.0°	73* 75*
Efficiency	88 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	400
Light colour	White	er er
Required components:		
		000
		30
)S	90 ⁺ 90 ⁺
LED	LUXEON Z	
FWHM / FWTM	58.0° / 80.0°	73.
Efficiency		
Efficiency	88 %	50 ⁶
Efficiency Peak intensity	88 % 1 cd/lm	60 ⁴
		60° 400 00°
Peak intensity LEDs/each optic Light colour	1 cd/lm	6° 40 6°
Peak intensity LEDs/each optic	1 cd/lm 1	0* 40 0* gr
Peak intensity LEDs/each optic Light colour	1 cd/lm 1	5° 40 6°
Peak intensity LEDs/each optic Light colour	1 cd/lm 1	9 ³⁴
Peak intensity LEDs/each optic Light colour Required components:	1 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	1 cd/lm 1 White	200 - 200 -
Peak intensity LEDs/each optic Light colour	1 cd/lm 1 White	200 - D00
Peak intensity LEDs/each optic Light colour Required components:	1 cd/lm 1 White	200 - 200 -
Peak intensity LEDs/each optic Light colour Required components:	1 cd/lm 1 White SST-20 56.0° / 84.0° 86 %	
Peak intensity LEDs/each optic Light colour Required components:	1 cd/lm 1 White SST-20 56.0° / 84.0° 86 % 1 cd/lm	90° 30° 30° 30° 30° 30° 30° 30° 3
Peak intensity LEDs/each optic Light colour Required components:	1 cd/lm 1 White SST-20 56.0° / 84.0° 86 % 1 cd/lm 1	90° 30° 30° 30° 30° 30° 30° 30° 3
Peak intensity LEDs/each optic Light colour Required components:	1 cd/lm 1 White SST-20 56.0° / 84.0° 86 % 1 cd/lm	90° 30° 30° 30° 30° 30° 30° 30° 3
Peak intensity LEDs/each optic Light colour Required components:	1 cd/lm 1 White SST-20 56.0° / 84.0° 86 % 1 cd/lm 1	90° 30° 30° 30° 30° 30° 30° 30° 3
Peak intensity LEDs/each optic Light colour Required components:	1 cd/lm 1 White SST-20 56.0° / 84.0° 86 % 1 cd/lm 1	90° 30° 30° 30° 30° 30° 30° 30° 3
Peak intensity LEDs/each optic Light colour Required components:	1 cd/lm 1 White SST-20 56.0° / 84.0° 86 % 1 cd/lm 1	



Μ ΝΙCΗΙΛ		90* 90*
LED FWHM / FWTM	NCSxx19B 60.0° / 88.0°	37
Efficiency	82 %	eq* eq
Peak intensity	0.8 cd/lm	
LEDs/each optic	1 White	45°
Light colour Required components:	Wille	
Required components.		
(No. 1997)		125, 04, 122, 306, 326
ΜΝΙCΗΙΛ		90* 90*
LED	NVSW219D	75'
FWHM / FWTM	67.0° / 88.0°	
Efficiency	84 %	600 601
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	63°
Required components:		640
		36° 15° 0° 15° 30°
Μ ΝΙCΗΙΛ		90*
LED	NI/0W/040E	
	NVSW/219F	
	NVSW219F 66.0° / 99.0°	75
FWHM / FWTM	66.0° / 99.0°	20
FWHM / FWTM Efficiency	66.0° / 99.0° 84 %	201
FWHM / FWTM Efficiency Peak intensity	66.0° / 99.0°	200 60 ²
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	66.0° / 99.0° 84 % 0.7 cd/lm	77 00 197 197 197 197 197 197 197 197 197 197
FWHM / FWTM Efficiency Peak intensity	66.0° / 99.0° 84 % 0.7 cd/lm 1	797
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 99.0° 84 % 0.7 cd/lm 1	79°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 99.0° 84 % 0.7 cd/lm 1	79
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 99.0° 84 % 0.7 cd/lm 1	77 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 99.0° 84 % 0.7 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 99.0° 84 % 0.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 99.0° 84 % 0.7 cd/lm 1 White NVSxx19B/NVSxx19C	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 99.0° 84 % 0.7 cd/lm 1 White NVSxx19B/NVSxx19C 61.0° / 92.0°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 99.0° 84 % 0.7 cd/lm 1 White NVSxx19B/NVSxx19C	200 200 200 200 200 200 200 200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WICHIN LED FWHM / FWTM Efficiency Peak intensity	66.0° / 99.0° 84 % 0.7 cd/lm 1 White NVSxx19B/NVSxx19C 61.0° / 92.0° 83 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 99.0° 84 % 0.7 cd/lm 1 White NVSxx19B/NVSxx19C 61.0° / 92.0° 83 % 0.8 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 99.0° 84 % 0.7 cd/lm 1 White NVSxx19B/NVSxx19C 61.0° / 92.0° 83 % 0.8 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 99.0° 84 % 0.7 cd/lm 1 White NVSxx19B/NVSxx19C 61.0° / 92.0° 83 % 0.8 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 99.0° 84 % 0.7 cd/lm 1 White NVSxx19B/NVSxx19C 61.0° / 92.0° 83 % 0.8 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 99.0° 84 % 0.7 cd/lm 1 White NVSxx19B/NVSxx19C 61.0° / 92.0° 83 % 0.8 cd/lm 1	



OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Duris S5 (2 chip) 49.0° / 77.0° 87 % 1.2 cd/lm 1 White	20 20 00 00 00 00 00 00 00 00
OSRAM		90° 90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Duris S5 (Single chip) 48.0° / 76.0° 86 % 1.3 cd/lm 1 White	30. 30. 40. 61. 52. 61. 53. 54. 55. 56. 56. 56. 56. 56. 56. 56
OSRAM Opto Semiconductors		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ P 3030 56.0° / 82.0° 85 % 1 cd/lm 1 White	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Black 46.0° / 71.0° 88 % 1.4 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50



OSRAM Opto Semiconductors		50° 90°
UED	OSLON Black Flat	
FWHM / FWTM	54.0° / 80.0°	75*
Efficiency	88 %	
Peak intensity	1.1 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	Red	45* AS
Required components:		
		300 340
		30 15° 1230 15°
OSRAM Opto Semiconductors		50°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	61.0° / 90.0°	235
Efficiency	87 %	60 ⁴
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	42° 42°
Required components:		
		30* 34*
0000414		15 ³ 0 ⁶ 15 ⁵
OSRAM Opto Semiconductors		90* <u>90*</u>
OSRAM Opto Semiconductors	OSLON Square EC	30 ⁴
Opto Semiconductors	OSLON Square EC 61.0° / 86.0°	39* 90* 73* 200
Opto Semiconductors LED		99* 99* 75* 200 84*
Opto Semiconductors LED FWHM / FWTM	61.0° / 86.0°	59°
opto Semiconductors LED FWHM / FWTM Efficiency	61.0° / 86.0° 86 %	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	61.0° / 86.0° 86 % 0.9 cd/lm	50° 50° 75° 200 60° 60°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	61.0° / 86.0° 86 % 0.9 cd/lm 1	59* 99* 75 200 64* 410
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 86.0° 86 % 0.9 cd/lm 1	97 97 200 604 400 604 604 604 604 604 6
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 86.0° 86 % 0.9 cd/lm 1	5°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 86.0° 86 % 0.9 cd/lm 1	20 27 28 29 20 20 20 20 20 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 86.0° 86 % 0.9 cd/lm 1	25° 200 25° 200 200 200 200 200 200 200 200 200 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 86.0° 86 % 0.9 cd/lm 1 White	25 20 20 20 20 20 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 86.0° 86 % 0.9 cd/lm 1 White	25° 200 25° 200 200 200 200 200 200 200 200 200 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	61.0° / 86.0° 86 % 0.9 cd/lm 1 White OSLON SSL 120 58.0° / 85.0°	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	61.0° / 86.0° 86 % 0.9 cd/lm 1 White OSLON SSL 120 58.0° / 85.0° 89 %	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	61.0° / 86.0° 86 % 0.9 cd/lm 1 White OSLON SSL 120 58.0° / 85.0° 89 % 1 cd/lm	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	61.0° / 86.0° 86 % 0.9 cd/lm 1 White OSLON SSL 120 58.0° / 85.0° 89 % 1 cd/lm 1	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 86.0° 86 % 0.9 cd/lm 1 White OSLON SSL 120 58.0° / 85.0° 89 % 1 cd/lm	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	61.0° / 86.0° 86 % 0.9 cd/lm 1 White OSLON SSL 120 58.0° / 85.0° 89 % 1 cd/lm 1	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 86.0° 86 % 0.9 cd/lm 1 White OSLON SSL 120 58.0° / 85.0° 89 % 1 cd/lm 1	31. 32. 30. 32. 62. 90. 90. 90. 63. 90. 90. 90. 53. 90. 90. 90.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 86.0° 86 % 0.9 cd/lm 1 White OSLON SSL 120 58.0° / 85.0° 89 % 1 cd/lm 1	31. 32. 30. 32. 62. 90. 90. 90. 63. 90. 90. 90. 53. 90. 90. 90.



		
OSRAM Opto Semiconductors		90° 90°
LED	OSLON SSL 150	
FWHM / FWTM	63.0° / 84.0°	75' 75'
Efficiency	87 %	
Peak intensity	0.9 cd/lm	60° 60°
LEDs/each optic	1	400
Light colour	White	σ ² σ ²
Required components:	White	
		30° 30° 30°
OSRAM Opto Semiconductors		90* 90*
LED	OSLON SSL 80	
FWHM / FWTM	53.0° / 79.0°	21. 22.
Efficiency	87 %	400
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr dr
Required components:		
		30° 31°
		15° 0° 15°
OSRAM Oto Semiconductors		90° 90'
OSRAM Opto Semiconductors		125 ¹ 0 ⁴ 125 ¹
Opto Semiconductors	SFH 4725S	20 ⁻ 0 ⁺ 22 ⁺
Opto Semiconductors	SFH 4725S 48.0° / 72.0°	200 200 200 200 200 200 200 200
Opto Semiconductors LED FWHM / FWTM		
opto Semiconductors LED FWHM / FWTM Efficiency	48.0° / 72.0°	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic	48.0° / 72.0° 88 %	
opto Semiconductors LED FWHM / FWTM Efficiency	48.0° / 72.0° 88 % 1	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	48.0° / 72.0° 88 % 1	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	48.0° / 72.0° 88 % 1	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	48.0° / 72.0° 88 % 1	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	48.0° / 72.0° 88 % 1	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	48.0° / 72.0° 88 % 1	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	48.0° / 72.0° 88 % 1 IR	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: Opto Semiconductors LED	48.0° / 72.0° 88 % 1 IR SFH 4727AS	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	48.0° / 72.0° 88 % 1 IR SFH 4727AS 38.0° / 65.0°	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	48.0° / 72.0° 88 % 1 IR SFH 4727AS 38.0° / 65.0° 81 %	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	48.0° / 72.0° 88 % 1 IR SFH 4727AS 38.0° / 65.0° 81 % 1.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	48.0° / 72.0° 88 % 1 IR SFH 4727AS 38.0° / 65.0° 81 % 1.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	48.0° / 72.0° 88 % 1 IR SFH 4727AS 38.0° / 65.0° 81 % 1.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	48.0° / 72.0° 88 % 1 IR SFH 4727AS 38.0° / 65.0° 81 % 1.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	48.0° / 72.0° 88 % 1 IR SFH 4727AS 38.0° / 65.0° 81 % 1.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	48.0° / 72.0° 88 % 1 IR SFH 4727AS 38.0° / 65.0° 81 % 1.7 cd/lm 1	



OSRAM Opto Semiconductors LED	Survice D0720 4 mm	50* 50*
	Synios P2720 1 mm	75°
FWHM / FWTM	54.0° / 80.0°	
Efficiency	88 % 1.1 cd/lm	60° 60°
Peak intensity		
LEDs/each optic	1 Red	ar
Light colour Required components:	Reu	
Required components.		
		36° 30° 30°
SAMSUN	IG	50° 50°
LED	LH351C	
FWHM / FWTM	62.0° / 88.0°	200
Efficiency	84 %	60°
Peak intensity	0.8 cd/lm	400
LEDs/each optic	1	
Light colour	White	47°
Required components:		
		XXXX
		30° 30°
SAMSUN		
<u>91111901</u>		90* 90*
LED	LH351D	75
FWHM / FWTM	65.0° / 100.0°	
Efficiency	81 %	60°
Peak intensity	0.7 cd/lm	
LEDs/each optic		
Light colour Required components:	White	
Required components.		
Required components.		
Required components.		60
required components.		20 ⁴ 20 ⁵ 0 ⁴ 13 ⁵
	IG	
SAMSUN		90°
SAMSUN	LM301A	90 90 90 90 90 90 90 90 90 90 90 90 90 9
SAMSUN LED FWHM / FWTM	LM301A 53.0° / 75.0°	
SAMSUN LED FWHM / FWTM Efficiency	LM301A 53.0° / 75.0° 87 %	
SAMSUN LED FWHM / FWTM Efficiency Peak intensity	LM301A 53.0° / 75.0° 87 % 1.2 cd/lm	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM301A 53.0° / 75.0° 87 % 1.2 cd/lm 1	
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM301A 53.0° / 75.0° 87 % 1.2 cd/lm	
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM301A 53.0° / 75.0° 87 % 1.2 cd/lm 1	25° 00 65° 25° 00 65° 25° 00 65° 55° 00 65°
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM301A 53.0° / 75.0° 87 % 1.2 cd/lm 1	
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM301A 53.0° / 75.0° 87 % 1.2 cd/lm 1	



SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	C LM301B 55.0° / 82.0° 87 % 1.1 cd/lm 1 White	90 ⁴ 90 ⁴ 9
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	C LM302A 53.0° / 80.0° 87 % 1.2 cd/lm 1 White	5°
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	94 ⁴ 79 ⁵ 95 ⁴ 95 ⁴ 95 ⁴ 960 960 960 960 960 960 960 960 960 960
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	MFN1108MS 52.0° / 76.0° 90 % 1.2 cd/lm 1 IR	



STANLEY		90° 90°
LED	MGN1107MS	
FWHM / FWTM	35.0° / 60.0°	
Efficiency	91 %	50 ¹
Peak intensity	2.2 cd/lm	
LEDs/each optic	1	
Light colour	IR	42× 42*
Required components:		1600
		30* 35*
~		15° 2830 15°
STANLEY		
		90°
LED	MGN1108MS	50° 50°
	MGN1108MS 52.0° / 76.0°	y
LED		
LED FWHM / FWTM	52.0° / 76.0°	37
LED FWHM / FWTM Efficiency	52.0° / 76.0° 90 %	77
LED FWHM / FWTM Efficiency Peak intensity	52.0° / 76.0° 90 % 1.2 cd/lm	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	52.0° / 76.0° 90 % 1.2 cd/lm 1 IR	7° 75° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	52.0° / 76.0° 90 % 1.2 cd/lm 1 IR	2° 6° ••••••••••••••••••••••••••••••••••
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	52.0° / 76.0° 90 % 1.2 cd/lm 1 IR	27° 72° 69° 400 400 40°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	52.0° / 76.0° 90 % 1.2 cd/lm 1 IR	2° 6° ••••••••••••••••••••••••••••••••••



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:

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LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc. 228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

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