

LISA3-RS-PIN

~15° spot beam with location pin installation

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 10.0 mm
Height	6.9 mm
Fastening	glue
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

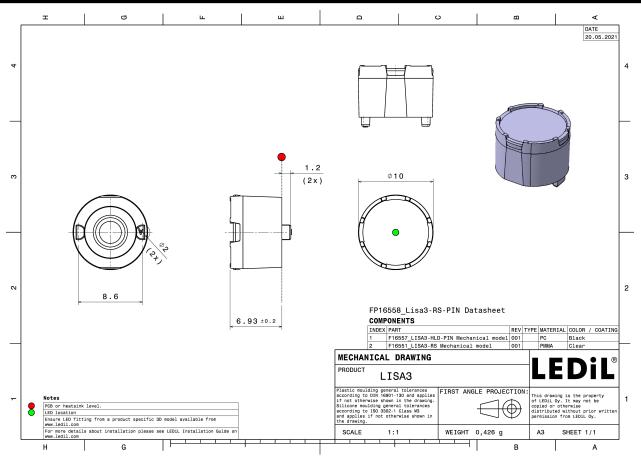
Component	Туре	Material	Colour	Finish
LISA3-RS	Single lens	PMMA	clear	
LISA3-HLD-PIN	Holder	PC	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16558_LISA3-RS-PIN	Single lens	2000	300	100	1.3
» Box size: 310 x 230 x 60 mm					



PRODUCT DATASHEET FP16558_LISA3-RS-PIN



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



PHOTOMETRIC DATA (MEASURED):

		50* 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XD16 19.0° / 34.0° 78 % 5.4 cd/lm 1 White	
		50 ⁴ 50 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-E2 16.0° / 31.0° 90 % 8.1 cd/lm 1 White	
		80 ¹⁶ 80 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 26.0° / 51.0° 84 % 3.1 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 12.0° / 23.0° 89 % 14.6 cd/lm 1 White	
Required compone	nts:	20 ⁶ 12 ⁹ 10 ⁰ 0 12 ³



PHOTOMETRIC DATA (MEASURED):

ØNICHI		391 392
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G 25.0° / 52.0° 88 % 3.3 cd/lm 1 White	
∕∕ NICHI∕		904 904
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 26.0° / 52.0° 90 % 3.2 cd/lm 1 White	200 9 ⁴ 9 ⁴ 200 200 200 200 200 200 200 200 200 20
OSRAM		90* 90*
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSCONIQ C 2424 18.0° / 35.0° 88 % 6.3 cd/lm 1 White ents:	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSLON Square CSSRM2/CSSRM3 21.0° / 40.0° 88 % 4.8 cd/lm 1 White ents:	



PHOTOMETRIC DATA (MEASURED):

SAMS	UNG		90* 90*
LED	LH351C		
FWHM / FWTM	28.0° / 51.0°		73'
Efficiency	90 %		60° 60°
Peak intensity	3.1 cd/lm		
LEDs/each optic	1		
Light colour	White		43"
Required compone	ents:		200
			30. 200 30.
SEOUL			(15 ³) 0 ⁶ 15 ³
SECOL			
SEOUL SEMICONDUCTOR			90* 90*
SEOUL SEMICONDUCTOR	Z5M4	10000	
	Z5M4 29.0° / 51.0°		75
LED			
LED FWHM / FWTM	29.0° / 51.0°		73'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	29.0° / 51.0° 89 %		90 97 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	29.0° / 51.0° 89 % 3.1 cd/lm 1 White		00 00 72
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	29.0° / 51.0° 89 % 3.1 cd/lm 1 White		ge
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	29.0° / 51.0° 89 % 3.1 cd/lm 1 White		90 97 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	29.0° / 51.0° 89 % 3.1 cd/lm 1 White		ge
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	29.0° / 51.0° 89 % 3.1 cd/lm 1 White		ge



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-E 16.0° / 32.0° 91 % 7.8 cd/lm 1 White	201 201 201 201 201 201 201 201
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 20.0° / 40.0° 89 % 5.3 cd/lm 1 White	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 HE 27.0° / 57.0° 86 % 2.8 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-P 12.0° / 26.0° 97 % 12.7 cd/lm 1 White	257 0, 12, 24 26 27 26 20 20 20 20 20 20 20 20 20 20



CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HI 18.0° / 34.0° 82 % 6.4 cd/lm 1 White	g. 220 220 220 20 20 20 20 20 20 20 20 20
Required components:		30 th 32 th 0 th 32 th 30 th
)S	30* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line 16.0° / 36.0° 89 % 7 cd/lm 1 White	31, 6, 12, %, 12, \%, 12
LUMILEE LED FWHM / FWTM Efficiency Peak intensity	LUXEON C 16.0° / 32.0° 78 % 6.3 cd/lm	81
LEDs/each optic Light colour Required components:	1 Red	97
Light colour Required components:	1 Red	er 600 34° 500 50
Light colour	1 Red	er 600 34° 500 50



	05	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON Z 12.0° / 23.0° 87 % 13.2 cd/lm 1 White	24. 25. 26. 27. 28. 29. 29. 20. 20. 20. 20. 20. 20. 20. 20
)S	90* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON Z ES 15.0° / 30.0° 88 % 9 cd/lm 1 White	20 01 02 03 03 03 03 03 03 03 03 03 03
(Estimated and the second seco		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SST-20 20.0° / 40.0° 86 % 5.2 cd/lm 1 White	22° 6° 22° 6° 6° 6° 6° 5° 6° 5° 6°
ED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	NCSU276C 16.0° / 34.0° 90 % 1 UV-A	91° 92° 92° 92°



ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NCSxx19B 18.0° / 37.0° 84 % 5.9 cd/lm 1 White	200 200 200 200 200 200 200 200
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxx19B/NVSxx19C 25.0° / 50.0° 85 % 3.5 cd/lm 1 White	300 300 300 300 300 300 300 300
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Duris S5 (2 chip) 20.0° / 44.0° 87 % 7.1 cd/lm 1 White	200 197 199 199 100 100 100 100 100 100
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Duris S5 (Single chip) 20.0° / 43.0° 86 % 4.5 cd/lm 1 White	300 121 301 302 302 302 303 302 304 303 305 302 305



OSRAM Opto Semiconductors		90° 90°
Opto Semiconductors	OSCONIQ P 3030	
FWHM / FWTM	14.0° / 30.0°	75'
Efficiency	86 %	
Peak intensity	8.5 cd/lm	60°
LEDs/each optic	1	
Light colour	White	gr*
Required components:		
		6430
		30*
		30 15° 0° 15°
OSRAM Opto Semiconductors		90* 9 0*
LED	OSCONIQ P 3737 (2W version)	\rightarrow \wedge \wedge
FWHM / FWTM	20.0° / 40.0°	75
Efficiency	88 %	60° 1600 60°
Peak intensity	5.1 cd/lm	
LEDs/each optic	1	
Light colour	White	5° 2230 45°
Required components:		
		4000
		36° 36°
		0° 15°
OSRAM Opto Semiconductors		90* A 90*
OSRAM Opto Semiconductors	OSLON Black	90°
	OSLON Black 17.0° / 32.0°	30 ¹ 39 ² 300 300
LED		800 200 200 200 200 200 200 200
LED FWHM / FWTM	17.0° / 32.0°	60° (200) 72° (200) 72° (200) 72° (200) 72° (200)
LED FWHM / FWTM Efficiency	17.0° / 32.0° 87 %	33
LED FWHM / FWTM Efficiency Peak intensity	17.0° / 32.0° 87 % 7.6 cd/lm	33
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 32.0° 87 % 7.6 cd/lm 1	gr 200 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 32.0° 87 % 7.6 cd/lm 1	gr 200 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 32.0° 87 % 7.6 cd/lm 1	57 60 67 61 60 67 70 60 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 32.0° 87 % 7.6 cd/lm 1	30° 000 X4 000 001 001 000 001 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	17.0° / 32.0° 87 % 7.6 cd/lm 1	200 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	17.0° / 32.0° 87 % 7.6 cd/lm 1 White	30. 000 34. 0. 000 001 0. 000 000 0. 000 0. 000 0. 0000 0. 000 0. 000 0. 0000 0. 000 0. 000 0. 0000 0.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED	17.0° / 32.0° 87 % 7.6 cd/lm 1 White OSLON Square Flat	200 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	17.0° / 32.0° 87 % 7.6 cd/lm 1 White OSLON Square Flat 16.0° / 33.0°	200 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	17.0° / 32.0° 87 % 7.6 cd/lm 1 White OSLON Square Flat 16.0° / 33.0° 89 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	17.0° / 32.0° 87 % 7.6 cd/lm 1 White OSLON Square Flat 16.0° / 33.0° 89 % 7.5 cd/lm	200 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	17.0° / 32.0° 87 % 7.6 cd/lm 1 White OSLON Square Flat 16.0° / 33.0° 89 % 7.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	17.0° / 32.0° 87 % 7.6 cd/lm 1 White OSLON Square Flat 16.0° / 33.0° 89 % 7.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	17.0° / 32.0° 87 % 7.6 cd/lm 1 White OSLON Square Flat 16.0° / 33.0° 89 % 7.5 cd/lm 1	22.0 22.0 22.0 33. 12.0 23.0 36. 60.0 72.0 36. 60.0 72.0 36. 60.0 60.0 36. 60.0 60.0 36. 60.0 60.0 36. 60.0 60.0 36. 60.0 60.0 37. 90.0 90.0 36. 60.0 60.0 37. 90.0 90.0 37. 90.0 90.0 37. 90.0 90.0 37. 90.0 90.0 37. 90.0 90.0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	17.0° / 32.0° 87 % 7.6 cd/lm 1 White OSLON Square Flat 16.0° / 33.0° 89 % 7.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	17.0° / 32.0° 87 % 7.6 cd/lm 1 White OSLON Square Flat 16.0° / 33.0° 89 % 7.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	17.0° / 32.0° 87 % 7.6 cd/lm 1 White OSLON Square Flat 16.0° / 33.0° 89 % 7.5 cd/lm 1	



r		
OSRAM		90° 90°
Opto Semiconductors	OSLON SSL 120	
LED FWHM / FWTM	16.0° / 29.0°	75.
Efficiency	90 %	
Peak intensity	90 % 9 cd/lm	60* 3200 60*
LEDs/each optic	1	
Light colour	' Hyper Red	57 57 57 57 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Required components:	Typer Neu	600
Required components.		
		15° 0° 15° 30°
OSRAM Opto Semiconductors		90° 00°
LED	OSLON SSL 150	
FWHM / FWTM	14.5° / 29.0°	2. Z.
Efficiency	88 %	
Peak intensity	8.7 cd/lm	
LEDs/each optic	1	
Light colour	White	97°
Required components:		6400
		30° 30°
		15° 9820 15°
OSRAM Opto Semiconductors		90° A 90°
Opto Semiconductors	OSLON SSL 80	
OSRAM Opto Semiconductors LED FWHM / FWTM	OSLON SSL 80 15.0° / 31.0°	50° 50°
Opto Semiconductors LED FWHM / FWTM		
opto Semiconductors LED FWHM / FWTM Efficiency	15.0° / 31.0°	77
Opto Semiconductors LED FWHM / FWTM	15.0° / 31.0° 87 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	15.0° / 31.0° 87 % 7.6 cd/lm	g. 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	15.0° / 31.0° 87 % 7.6 cd/lm 1	77
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	15.0° / 31.0° 87 % 7.6 cd/lm 1	g. 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	15.0° / 31.0° 87 % 7.6 cd/lm 1	g. 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	15.0° / 31.0° 87 % 7.6 cd/lm 1	72
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	15.0° / 31.0° 87 % 7.6 cd/lm 1	600 600 600 600 600 600 600 600 600 600
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	15.0° / 31.0° 87 % 7.6 cd/lm 1	72
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	15.0° / 31.0° 87 % 7.6 cd/lm 1	30. 30. 30. 30.
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	15.0° / 31.0° 87 % 7.6 cd/lm 1 White	230 51 51 51 51 51 51 51 51 51 51
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	15.0° / 31.0° 87 % 7.6 cd/lm 1 White SFH 4714A	30. 30. 30. 30.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	15.0° / 31.0° 87 % 7.6 cd/lm 1 White SFH 4714A 12.0° / 24.0°	7: 500 72; 601 503 60; 7: 603 60; 7: 603 60; 7: 603 60; 7: 605 72; 805 70; 70; 9:* 90; 72; 9:* 90; 72; 9:* 90; 72; 9:* 90; 72; 9:* 90; 72; 9:* 90; 90;
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	15.0° / 31.0° 87 % 7.6 cd/lm 1 White SFH 4714A 12.0° / 24.0° 86 %	30. 30. 30. 30.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	15.0° / 31.0° 87 % 7.6 cd/lm 1 White SFH 4714A 12.0° / 24.0° 86 % 13.7 cd/lm	7: 500 72; 601 503 60; 7: 603 60; 7: 603 60; 7: 603 60; 7: 605 72; 805 70; 70; 9:* 90; 72; 9:* 90; 72; 9:* 90; 72; 9:* 90; 72; 9:* 90; 72; 9:* 90; 90;
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	15.0° / 31.0° 87 % 7.6 cd/lm 1 White SFH 4714A 12.0° / 24.0° 86 % 13.7 cd/lm 1	
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	15.0° / 31.0° 87 % 7.6 cd/lm 1 White SFH 4714A 12.0° / 24.0° 86 % 13.7 cd/lm 1	
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	15.0° / 31.0° 87 % 7.6 cd/lm 1 White SFH 4714A 12.0° / 24.0° 86 % 13.7 cd/lm 1	
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	15.0° / 31.0° 87 % 7.6 cd/lm 1 White SFH 4714A 12.0° / 24.0° 86 % 13.7 cd/lm 1	



OSRAM Opto Semiconductors		99 ⁴
LED	SFH 4715AS	$\Lambda \land \Lambda \land \Lambda$
FWHM / FWTM	22.0° / 37.0°	50° 1500 50°
Efficiency	86 %	
LEDs/each optic	1	
Light colour	IR	45× 42*
Required components:		30° 0° 12° ×
OSRAM Opto Semiconductors		90°
LED	SFH 4716AS	75
FWHM / FWTM	SFH 4716AS 17.0° / 31.0°	
Efficiency	87 %	60°
LEDs/each optic	1	
Light colour	IR .	er ez:
Required components:		
		600 30 ⁴ 600 20 ⁴
1		200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200
OSDAM		157 of 157
OSRAM Opto Semiconductors		99* 99* 90°
OSRAM Opto Semiconductors LED	Synios P2720 1 mm	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
Opto Semiconductors	Synios P2720 1 mm 12.0° / 24.0°	
Opto Semiconductors		<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
Opto Semiconductors LED FWHM / FWTM	12.0° / 24.0°	64
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 24.0° 88 %	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 24.0° 88 % 13.6 cd/lm	64
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 24.0° 88 % 13.6 cd/lm 1	94 92 92 92 92 92 92 92 92 92 92 92 92 92
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 24.0° 88 % 13.6 cd/lm 1	94 92 92 92 92 92 92 92 92 92 92 92 92 92
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 24.0° 88 % 13.6 cd/lm 1 Red	94 92 92 92 92 92 92 92 92 92 92 92 92 92
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 24.0° 88 % 13.6 cd/lm 1 Red SYNIOS S2222 (KW DDLM31)	94 92 92 92 92 92 92 92 92 92 92 92 92 92
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	12.0° / 24.0° 88 % 13.6 cd/lm 1 Red SYNIOS S2222 (KW DDLM31) 16.0° / 34.0 + 32.0°	54 54 55 55 55 55 55 55 55 55
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	12.0° / 24.0° 88 % 13.6 cd/lm 1 Red SYNIOS S2222 (KW DDLM31) 16.0° / 34.0 + 32.0° 97 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	12.0° / 24.0° 88 % 13.6 cd/lm 1 Red SYNIOS S2222 (KW DDLM31) 16.0° / 34.0 + 32.0° 97 % 8.1 cd/lm	51 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 24.0° 88 % 13.6 cd/lm 1 Red SYNIOS S2222 (KW DDLM31) 16.0° / 34.0 + 32.0° 97 % 8.1 cd/lm 1	00. 00. 00. 33. 72. 0. 70. 00. 00.0 00.0 00.0 01. 00.0 00.0 00.0 02. 00.0 00.0 00.0 02. 00.0 00.0 00.0 03. 00.0 00.0 00.0 03. 00.0 00.0 00.0 03. 00.0 00.0 00.0 03. 00.0 00.0 00.0 03. 00.0 00.0 00.0 03. 00.0 00.0 00.0 03. 00.0 00.0 00.0 03. 00.0 00.0 00.0 03. 00.0 00.0 00.0 03. 00.0 00.0 00.0 03. 00.0 00.0 00.0 03. 00.0 00.0 00.0 03. 00.0 00.0 00.0 </th
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OPTO Semiconductors LED FWHM / FWTM Efficiency Peak intensity	12.0° / 24.0° 88 % 13.6 cd/lm 1 Red SYNIOS S2222 (KW DDLM31) 16.0° / 34.0 + 32.0° 97 % 8.1 cd/lm	80. 90. 33. 72. 60. 90. 90. 90. 91. 92. 92. 93. 93. 90. 94. 90. 95. 90. 95. 90. 95. 90. 95. 90. 95. 90. 95. 90. 95. 90. 95. 90. 95. 90. 95. 90. 95. 90. 95. 90. 95. 90.



SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	C LH351B 26.0° / 49.0° 88 % 3.5 cd/lm 1 White	39, 12, 6, 15, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	G 34.0° / 66.0° 85 % 1.9 cd/lm 1 White	
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	G LM301A 14.5° / 33.0° 87 % 7.1 cd/lm 1 White	34. 25. 25. 25. 25. 25. 25. 25. 25
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	C LM302A 16.0° / 40.0° 87 % 5.3 cd/lm 1 White	20. 20. 20. 20. 20. 20. 20. 20.



seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Z5M3 24.0° / 51.0° 86 % 3.3 cd/lm 1 White	91 ⁴ 92 ⁴ 91 ⁴ 92 ⁴ 92 ⁴ 91 ⁴ 92 ⁴ 92 ⁴ 91 ⁴ 92 ⁴ 92 ⁴ 92 ⁴ 91 ⁴ 92 ⁴
EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	FWR1108MS 16.0° / 32.0° 89 % 7.6 cd/lm 1 IR	60° 62° 62° 62° 62° 62° 62° 62° 62° 62° 62
LED FWHM / FWTM Efficiency Peak intensity	MFN1108MS 16.0° / 30.0° 90 % 9.4 cd/lm	600 90 ⁴ 90 ⁴
LEDs/each optic Light colour Required components:	1 IR	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	MGN1108MS 14.0° / 29.0° 90 % 9.5 cd/lm 1 IR	30° 30° 30° 30° 30° 30° 30° 30° 30° 30°



STANLEY		99 [*]
LED FWHM / FWTM	MJN1108MS 15.0° / 30.0°	
Efficiency LEDs/each optic Light colour	90 % 1 IR	gr at
Required components:		
		34° 25° #86 25°



PRODUCT DATASHEET FP16558_LISA3-RS-PIN

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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