

# 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 🛈



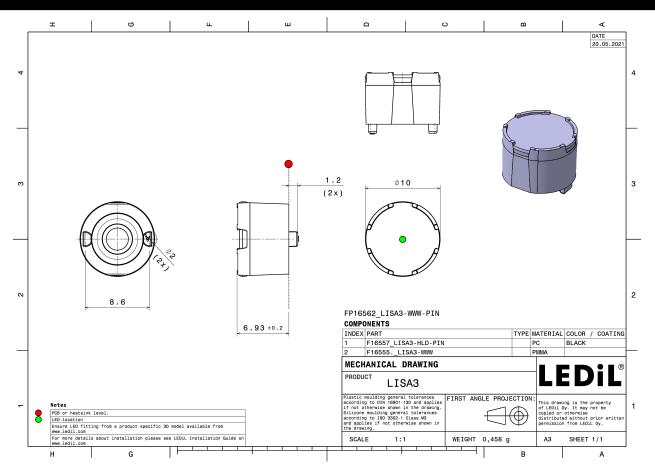
### MATERIAL SPECIFICATIONS:

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



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



#### **PHOTOMETRIC DATA (MEASURED):**

	D		90°	90*
LED				$\land$
FWHM / FWTM	55.0° / 85.0°		157	7.85
Efficiency	74 %			200
Peak intensity	0.9 cd/lm		60°	60.
LEDs/each optic	1			400
Light colour	White		45*	
Required compone				
				- 600
				200
			30° 15°	06 #26 306
	D		90*	90*
LED	XP-E2			
FWHM / FWTM	63.0° / 91.0°	and the second second	R <sup>v</sup>	75
Efficiency	85 %	and the second second	60°	200
Peak intensity	0.8 cd/lm			
LEDs/each optic	1			400
Light colour	White		974	6.
Required compone	ents:			
				- 640
			30*	30.
	5		15%	
			30	<u> </u>
	XP-G3		75*	
FWHM / FWTM	60.0° / 92.0°		75	200
FWHM / FWTM Efficiency	60.0° / 92.0° 80 %		77	200
FWHM / FWTM Efficiency Peak intensity	60.0° / 92.0° 80 % 0.8 cd/lm		29	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	60.0° / 92.0° 80 % 0.8 cd/Im 1		79	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 92.0° 80 % 0.8 cd/lm 1 White		79	60 C
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	60.0° / 92.0° 80 % 0.8 cd/lm 1 White		77	000 600 600
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 92.0° 80 % 0.8 cd/lm 1 White		77	200 400 800
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 92.0° 80 % 0.8 cd/lm 1 White		77	200 - 72° -400 - 62° -600 - 75°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	60.0° / 92.0° 80 % 0.8 cd/Im 1 White		77	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 92.0° 80 % 0.8 cd/Im 1 White		90°	- 400 - - 400 - - - -
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	60.0° / 92.0° 80 % 0.8 cd/Im 1 White			00 00 00 00 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	60.0° / 92.0° 80 % 0.8 cd/lm 1 White Ints:		39 39 29 29 29 29 29 29 29	00 00 00 35 35
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	60.0° / 92.0° 80 % 0.8 cd/lm 1 White Ints:			600 00 00 00 00 130 30 30 30 30 30 30 30
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM	60.0° / 92.0° 80 % 0.8 cd/lm 1 White Ints: XP-G3 61.0° / 95.0°			00 00 00 00 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED EWHM / FWTM Efficiency	60.0° / 92.0° 80 % 0.8 cd/lm 1 White ints: XP-G3 61.0° / 95.0° 80 %			00 00 00 00 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity	60.0° / 92.0° 80 % 0.8 cd/lm 1 White ints: XP-G3 61.0° / 95.0° 80 % 0.8 cd/lm			00 00 00 00 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	60.0° / 92.0° 80 % 0.8 cd/lm 1 White ints: XP-G3 61.0° / 95.0° 80 % 0.8 cd/lm 1 White			00 00 00 00 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 92.0° 80 % 0.8 cd/lm 1 White ints: XP-G3 61.0° / 95.0° 80 % 0.8 cd/lm 1 White			00 00 00 00 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 92.0° 80 % 0.8 cd/lm 1 White ints: XP-G3 61.0° / 95.0° 80 % 0.8 cd/lm 1 White			00 00 00 00 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 92.0° 80 % 0.8 cd/lm 1 White ints: XP-G3 61.0° / 95.0° 80 % 0.8 cd/lm 1 White			00 00 00 00 00 00 00 00 00 00 00 00 00



#### **PHOTOMETRIC DATA (MEASURED):**

🤭 LUMIL	EDS		90* 90*
LED FWHM / FWTM Efficiency	LUXEON CZ 57.0° / 85.0° 85 %		60 72 75 75 75 75 75 75 75 75 75 75 75 75 75
Peak intensity	0.9 cd/lm		
LEDs/each optic Light colour	1 White		45° 45°
Required compone			
			30 <sup>4</sup> 13 <sup>5</sup> 15 <sup>4</sup> 32 <sup>4</sup>
<b>ØNICHI</b>			90° 90°
LED	NF2x757G		
FWHM / FWTM	50.0° / 82.0°		
Efficiency	76 %		60 <sup>1</sup> 60 <sup>4</sup>
Peak intensity	1.1 cd/lm		400
LEDs/each optic	1		
Light colour Required compone	White		9°
			30°
<b>Ø</b> NICHI∕	<b>N</b>		90* 99*
LED	NVSW219F		
FWHM / FWTM	64.0° / 96.0°		
Efficiency	84 %	the second s	50°
Peak intensity	0.7 cd/lm		
LEDs/each optic	1		
Light colour Required compone	White nts:		
OSRAM Opto Semiconductors			90*
LED	OSCONIQ C 2424		25*
FWHM / FWTM			
	53.0° / 81.0°		
Efficiency	84 %		<u>a</u>
Peak intensity	84 % 1 cd/lm		60* 60*
Peak intensity LEDs/each optic	84 % 1 cd/lm 1		60*
Peak intensity	84 % 1 cd/lm 1 White		6 <sup>1</sup> 6 <sup>2</sup>



## PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors		50"
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSLON Square CSSRM2/CSSRM3 60.0° / 93.0° 83 % 0.8 cd/lm 1 White ents:	
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	
seoul semiconductor 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:	



		50° 90°
LED	XHP35.2	
FWHM / FWTM	64.0° / 99.0°	
Efficiency	74 %	200
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	9 <sup>2</sup> 400 63
Required components:		
		3(* 3(* 3(*
		90° 90°
LED	XP-E	
FWHM / FWTM	64.0° / 93.0°	75'
Efficiency	89 %	200
Peak intensity	0.8 cd/lm	601. 60*
LEDs/each optic	1	
Light colour	White	42. 42.
Required components:		
		300
		159 09 359
		90° 90°
	XP-G2	
	XP-G2 66.0° / 93.0°	37 37 39 99
LED		
LED FWHM / FWTM	66.0° / 93.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	66.0° / 93.0° 87 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 93.0° 87 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	66.0° / 93.0° 87 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 93.0° 87 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 93.0° 87 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 93.0° 87 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 93.0° 87 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 93.0° 87 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 93.0° 87 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 93.0° 87 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 93.0° 87 % 0.8 cd/lm 1 White XP-G2 HE 68.0° / 100.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 93.0° 87 % 0.8 cd/lm 1 White XP-G2 HE 68.0° / 100.0° 82 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 93.0° 87 % 0.8 cd/lm 1 White XP-G2 HE 68.0° / 100.0° 82 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 93.0° 87 % 0.8 cd/lm 1 White XP-G2 HE 68.0° / 100.0° 82 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED EU FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 93.0° 87 % 0.8 cd/lm 1 White XP-G2 HE 68.0° / 100.0° 82 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 93.0° 87 % 0.8 cd/lm 1 White XP-G2 HE 68.0° / 100.0° 82 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 93.0° 87 % 0.8 cd/lm 1 White XP-G2 HE 68.0° / 100.0° 82 % 0.7 cd/lm 1	



	DS S	50*
LED FWHM / FWTM Efficiency	LUXEON 2835 Line 54.0° / 82.0° 88 %	20-
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour Required components:	White	
	)S	90*
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	54.0° / 79.0°	757
Efficiency	85 %	60 <sup>4</sup>
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	97° 000 000
Required components:		
	)S	90°
LED	LUXEON TX	
FWHM / FWTM	62.0° / 87.0°	75*
Efficiency	85 %	500
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	age - 660
Required components:		30° 25° 25°
	DS Contraction of the second se	30*
LED	LUXEON V2	75
FWHM / FWTM	60.0° / 92.0°	79 200
Efficiency	88 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour Required components:	White	9 <sup>44</sup> 660



UMILED	)S	90 <sup>4</sup> 90
LED	LUXEON Z	75*
FWHM / FWTM	58.0° / 80.0°	
Efficiency	88 %	60% 400 65
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	er e
Required components:		
		36° 30
	JS	50 <sup>4</sup>
LED	SST-20	
FWHM / FWTM	56.0° / 84.0°	200
Efficiency	86 %	69 <sup>4</sup>
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 600 42
Required components:		
		30 <sup>4</sup> 1000 30
<b>Μ</b> ΝΙCΗΙΛ		30°
LED	NCSxx19B	
FWHM / FWTM	60.0° / 88.0°	73*
Efficiency	82 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	400
Light colour	White	a5* az
Required components:		600
		30° 30° 35°
<b>Μ</b> ΝΙCΗΙΛ		30*
LED	NVSW219D	
FWHM / FWTM	67.0° / 88.0°	78*
Efficiency	84 %	60 <sup>1</sup>
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	440
Light colour	White	454
Required components:		and the second sec



<b>Ø</b> ΝΙCΗΙΛ		90* 90*
LED	NVSxx19B/NVSxx19C	75'
FWHM / FWTM	61.0° / 92.0°	200
Efficiency	83 %	50° 60°
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	6°.
Required components:		
		30"
OSRAM Opto Semiconductors		90*
LED	Duris S5 (2 chip)	
FWHM / FWTM	49.0° / 77.0°	751
Efficiency	87 %	400
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	454
Required components:		
		342 347
OSRAM		
		90° 90°
Opto Semiconductors	Durie S5 (Single chin)	90* 90*
Opto Semiconductors	Duris S5 (Single chip) 48.0° / 76.0°	97 75 75
Opto Semiconductors LED FWHM / FWTM	48.0° / 76.0°	
opto Semiconductors LED FWHM / FWTM Efficiency	48.0° / 76.0° 86 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	48.0° / 76.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	48.0° / 76.0° 86 % 1.3 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	48.0° / 76.0° 86 % 1.3 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	48.0° / 76.0° 86 % 1.3 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	48.0° / 76.0° 86 % 1.3 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	48.0° / 76.0° 86 % 1.3 cd/lm 1	27 60 60 60 60 60 60 60 60 60 60 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	48.0° / 76.0° 86 % 1.3 cd/lm 1	27 60 60 60 727 60 60 60 60 60 60 60 60 60 60 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	48.0° / 76.0° 86 % 1.3 cd/lm 1 White	27 60 60 60 727 60 60 60 60 60 60 60 60 60 60 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	48.0° / 76.0° 86 % 1.3 cd/lm 1 White	27 60 60 60 60 60 60 60 60 60 60 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	48.0° / 76.0° 86 % 1.3 cd/lm 1 White OSCONIQ P 3030 56.0° / 82.0°	9°. 90 90 90 90 90 90 90 90 90 90 90 90 90
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	48.0° / 76.0° 86 % 1.3 cd/lm 1 White OSCONIQ P 3030 56.0° / 82.0° 85 %	00.         00.         00.           00.         00.         00.           00.         00.         00.           00.         00.         00.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	48.0° / 76.0° 86 % 1.3 cd/lm 1 White OSCONIQ P 3030 56.0° / 82.0°	00.         00.         00.           00.         00.         00.           00.         00.         00.           00.         00.         00.
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	48.0° / 76.0° 86 % 1.3 cd/lm 1 White OSCONIQ P 3030 56.0° / 82.0° 85 % 1 cd/lm 1	00.         00.         00.           00.         00.         00.           00.         00.         00.           00.         00.         00.
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	48.0° / 76.0° 86 % 1.3 cd/lm 1 White OSCONIQ P 3030 56.0° / 82.0° 85 % 1 cd/lm	9°. 90 90 90 90 90 90 90 90 90 90 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	48.0° / 76.0° 86 % 1.3 cd/lm 1 White OSCONIQ P 3030 56.0° / 82.0° 85 % 1 cd/lm 1	9°. 90 90 90 90 90 90 90 90 90 90 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	48.0° / 76.0° 86 % 1.3 cd/lm 1 White OSCONIQ P 3030 56.0° / 82.0° 85 % 1 cd/lm 1	9°. 90 90 90 90 90 90 90 90 90 90 90 90 90
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	48.0° / 76.0° 86 % 1.3 cd/lm 1 White OSCONIQ P 3030 56.0° / 82.0° 85 % 1 cd/lm 1	9°. 90 90 90 90 90 90 90 90 90 90 90 90 90



OSRAM		so+ so+
Opto Semiconductors	OSLON Black	
LED FWHM / FWTM	46.0° / 71.0°	75*
Efficiency	88 %	400
Peak intensity	00 % 1.4 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	' White	43° 800 63°
Required components:	White	
Required components.		
		1270
		30°
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Black Flat	
FWHM / FWTM	54.0° / 80.0°	
Efficiency	88 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	Red	gr
Required components:		
		30* 31.*
		15 1380 15'
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square EC	
LED FWHM / FWTM	OSLON Square EC 61.0° / 86.0°	77. 200
		20 20
FWHM / FWTM	61.0° / 86.0°	20 Z20
FWHM / FWTM Efficiency	61.0° / 86.0° 86 %	25° - 220 - 25°
FWHM / FWTM Efficiency Peak intensity	61.0° / 86.0° 86 % 0.9 cd/lm	20 20 9 40 40 40 40 40
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	61.0° / 86.0° 86 % 0.9 cd/lm 1	230
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 86.0° 86 % 0.9 cd/lm 1	75° 200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 86.0° 86 % 0.9 cd/lm 1	73° 72° 60° 60° 80° 80° 80° 80° 80° 80°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 86.0° 86 % 0.9 cd/lm 1	20 20 40 40 
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 86.0° 86 % 0.9 cd/lm 1	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 86.0° 86 % 0.9 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED	61.0° / 86.0° 86 % 0.9 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	61.0° / 86.0° 86 % 0.9 cd/lm 1 White OSLON SSL 120 58.0° / 85.0°	99*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: 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 %	99*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: 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	99*
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	99*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM 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	99*
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	99*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM 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	99* 99* 99*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM 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	30 <sup>4</sup> 50 <sup>4</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 86.0° 86 % 0.9 cd/lm 1 White OSLON SSL 120 58.0° / 85.0° 89 % 1 cd/lm 1	30 <sup>4</sup> 50 <sup>4</sup>



OSRAM Opto Semiconductors		90°
LED	OSLON SSL 150	75'
FWHM / FWTM	63.0° / 84.0°	
Efficiency	87 %	60°
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	400
Light colour	White	9°
Required components:		
		30° 800 30°
OSRAM		50* 50*
Opto Semiconductors	OSLON SSL 80	
FWHM / FWTM	53.0° / 79.0°	21. 22.
Efficiency	87 %	
Peak intensity	1.1 cd/im	60°
LEDs/each optic	1	
Light colour	White	gr
Required components:		200
		30° 30° 30°
OSRAM		90°
OSRAM Opto Semiconductors		90°
Opto Semiconductors	SEH 4746AS	37
Opto Semiconductors	SFH 4715AS	
Opto Semiconductors LED FWHM / FWTM	43.0° / 67.0°	37
opto Semiconductors LED FWHM / FWTM Efficiency	43.0° / 67.0° 87 %	37
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic	43.0° / 67.0° 87 % 1	37
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	43.0° / 67.0° 87 %	37 90 90 90 90 90 90
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic	43.0° / 67.0° 87 % 1	37 90 90 90 90 90 90
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	43.0° / 67.0° 87 % 1	37 90 90 90 90 90 90
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	43.0° / 67.0° 87 % 1	75 66 67 150 150
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	43.0° / 67.0° 87 % 1	37 90 90 90 90 90 90
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	43.0° / 67.0° 87 % 1	75 60 60 1229 100 1229 100 1209 100 1209 100 100 100 100 100 100 100 1
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	43.0° / 67.0° 87 % 1	75 60 60 1229 100 1229 100 1209 100 1209 100 100 100 100 100 100 100 1
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	43.0° / 67.0° 87 % 1 IR	75 60 60 1229 100 1229 100 1209 100 1209 100 100 100 100 100 100 100 1
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	43.0° / 67.0° 87 % 1 IR	75 60 60 1229 100 1229 100 1209 100 1209 100 100 100 100 100 100 100 1
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	43.0° / 67.0° 87 % 1 IR SFH 4725S 48.0° / 72.0°	75 60 60 1229 100 1229 100 1209 100 1209 100 100 100 100 100 100 100 1
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	43.0° / 67.0° 87 % 1 IR SFH 4725S 48.0° / 72.0° 88 %	5. 6. 6. 1229 100 1229 100 1229 100 100 100 100
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic	43.0° / 67.0° 87 % 1 IR SFH 4725S 48.0° / 72.0° 88 % 1	5. 6. 6. 1220 1220 1200 1200 1200 1200 1000 100
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	43.0° / 67.0° 87 % 1 IR SFH 4725S 48.0° / 72.0° 88 %	5. 6. 6. 1229 100 1229 100 1229 100 100 100 100
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic	43.0° / 67.0° 87 % 1 IR SFH 4725S 48.0° / 72.0° 88 % 1	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	43.0° / 67.0° 87 % 1 IR SFH 4725S 48.0° / 72.0° 88 % 1	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	43.0° / 67.0° 87 % 1 IR SFH 4725S 48.0° / 72.0° 88 % 1	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.
opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:  COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	43.0° / 67.0° 87 % 1 IR SFH 4725S 48.0° / 72.0° 88 % 1	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.



OSRAM		90° 90°
Opto Semiconductors	CELL 47074 C	
LED FWHM / FWTM	SFH 4727AS 38.0° / 65.0°	75. 25.
Efficiency	81 %	400
Peak intensity	1.7 cd/lm	60°
LEDs/each optic	1	200
Light colour	IR	43*
Required components:		1270
Required components.		
		100
		30° 15° 0° 15°
OSRAM Opto Semiconductors		50° 50°
LED	Synios P2720 1 mm	
FWHM / FWTM	54.0° / 80.0°	32. 23.
Efficiency	88 %	
Peak intensity	1.1 cd/lm	400
LEDs/each optic	1	
Light colour	Red	97
Required components:		
		30. 31.
OCDAM		
OSRAM Opto Semiconductors		90° 90°
OSRAM Opto Semiconductors LED	SYNIOS S2222 (KW DDLM31)	
Opto Semiconductors	SYNIOS S2222 (KW DDLM31) 55.0° / 82.0°	
Opto Semiconductors		
opto Semiconductors LED FWHM / FWTM	55.0° / 82.0°	
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	55.0° / 82.0° 96 % 1.1 cd/lm 1	737 737 66 <sup>1</sup> 
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.0° / 82.0° 96 % 1.1 cd/lm	
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	55.0° / 82.0° 96 % 1.1 cd/lm 1	27 27 60 
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.0° / 82.0° 96 % 1.1 cd/lm 1	27 27 60 
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.0° / 82.0° 96 % 1.1 cd/lm 1	27 27 60 
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.0° / 82.0° 96 % 1.1 cd/lm 1	27 27 60 
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 82.0° 96 % 1.1 cd/lm 1 White	27. 64. 7. 60. 7. 7. 60. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 82.0° 96 % 1.1 cd/lm 1 White	27. 64. 7. 60. 7. 7. 60. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 82.0° 96 % 1.1 cd/lm 1 White	77 64 67 69 77 77 77 77 77 77 77 77 77 77 77 77 77
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 82.0° 96 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMNSUN</b> LED FWHM / FWTM Efficiency	55.0° / 82.0° 96 % 1.1 cd/lm 1 White ILH351B 62.0° / 95.0° 85 %	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity	55.0° / 82.0° 96 % 1.1 cd/lm 1 White LH351B 62.0° / 95.0° 85 % 0.8 cd/lm	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	55.0° / 82.0° 96 % 1.1 cd/lm 1 White LH351B 62.0° / 95.0° 85 % 0.8 cd/lm 1	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.0° / 82.0° 96 % 1.1 cd/lm 1 White LH351B 62.0° / 95.0° 85 % 0.8 cd/lm	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	55.0° / 82.0° 96 % 1.1 cd/lm 1 White LH351B 62.0° / 95.0° 85 % 0.8 cd/lm 1	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.0° / 82.0° 96 % 1.1 cd/lm 1 White LH351B 62.0° / 95.0° 85 % 0.8 cd/lm 1	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.0° / 82.0° 96 % 1.1 cd/lm 1 White LH351B 62.0° / 95.0° 85 % 0.8 cd/lm 1	



<b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351D 65.0° / 100.0° 81 % 0.7 cd/lm 1 White	200 97 27 20 20 20 20 20 20 20 20 27 20 20 27 27 20 20 27 27 27 27 27 27 27 27 27 27 27 27 27
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	C LM301A 53.0° / 75.0° 87 % 1.2 cd/lm 1 White	51 <sup>4</sup> 51 <sup>4</sup> 51 <sup>4</sup> 51 <sup>4</sup> 61 <sup>4</sup> 60 <sup>4</sup> 61 <sup>4</sup> 60 <sup>4</sup> 61 <sup>4</sup> 60 <sup>4</sup> 61 <sup>4</sup>
SAMSUN 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	
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM302A 53.0° / 80.0° 87 % 1.2 cd/lm 1 White	



ED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	FWR1107MS 44.0° / 68.0° 85 % 1 IR	30 <sup>-</sup> 40
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	FWR1108MS 60.0° / 87.0° 88 % 1 IR	
EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	MFN1107MS 35.0° / 60.0° 91 % 2.2 cd/lm 1 IR	5 <sup>14</sup> 5 <sup>14</sup> 6 <sup>14</sup> 6 <sup>14</sup> 6 <sup>14</sup> 6 <sup>15</sup> 6 <sup>15</sup> 6
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	



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	20 21 21 21 21 21 21 21 21 21 21
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	MGN1108MS 52.0° / 76.0° 90 % 1.2 cd/lm 1 IR	20° 20° 20° 20° 20° 20° 20° 20°
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.

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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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