

PRODUCT DATASHEET CA16127_OLGA-S

OLGA-S

~11° spot beam beam. Assembly with holder and installation tape.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 32.0 mm
Height	19.1 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component
OLGA-S
OLGA-HLD
SPUTNIK-TAPE3

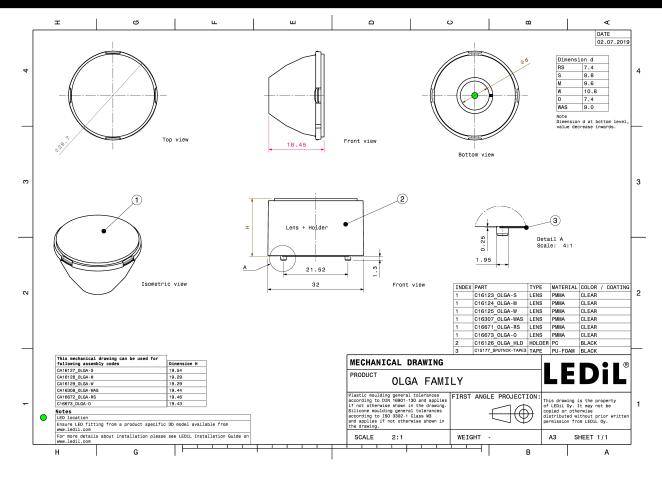
Туре	
Single lens	
Holder	
Таре	

Material	Colour	Finish
PMMA	clear	
PC	black	
Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA16127_OLGA-S	Single lens	792	132	66	9.8
» Box size: 476 x 273 x 292 mm					

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





		90*	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XD16 13.0° / 28.0° 82 % 10.4 cd/lm 1 White	55 25 25	200
		90°	80*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP35 HD 19.0° / 37.0° 83 % 5.5 cd/lm 1 White	97 27 27	200 - 25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP35 HI 15.0° / 31.0° 87 % 8.5 cd/lm 1 White	37 79 91 91 91 91 91	
CREE CLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP50 24.0° / 44.0° 83 % 3.7 cd/lm 1 White	35 ¹ 72 85 ⁴ 87	90° 000 1600 1600 200 200 200 200 200 200 200



		50° 50°
LED	XHP50.2	
FWHM / FWTM	23.0° / 43.0°	73° 000 73°
Efficiency	82 %	
Peak intensity	4 cd/lm	60 ⁴
LEDs/each optic	1	
Light colour	White	97° 2430 63°
Required compone		
		2200
		30° 30°
		15° 0° 15°
		30* 90*
LED	XM-L	
FWHM / FWTM	17.0° / 34.0°	78*
Efficiency	86 %	50 ⁴ 50 ⁴
Peak intensity	6.8 cd/lm	
LEDs/each optic	1	
Light colour	White	43× 43×
Required compone	ints:	
		6430
		34
		125) Ø ₆ 125
		10 ¹ 0 ¹ 10 ² 90 ⁴ 90 ⁴ 90 ⁴
LED	XM-L3	101° 04° 101° 94° 99° 99°
LED FWHM / FWTM	XM-L3 17.0° / 35.0°	
LED FWHM / FWTM Efficiency	XM-L3 17.0° / 35.0° 85 %	72
LED FWHM / FWTM Efficiency Peak intensity	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm	72
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1	27 64 229
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White	77. 69. 1200 1200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White	77. 69. 1200 1200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White	79. 60. 62. 220 220 62. 62.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White	73. 64. 67. 67. 69. 60. 60. 60. 60. 60. 60. 60. 60. 60. 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White	79. 60. 62. 220 220 62. 62.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White ints: XP-E 11.0° / 27.0° 87 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White ints: XP-E 11.0° / 27.0° 87 % 12.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White Mbite XP-E 11.0° / 27.0° 87 % 12.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White Mbite XP-E 11.0° / 27.0° 87 % 12.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White Mbite XP-E 11.0° / 27.0° 87 % 12.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L3 17.0° / 35.0° 85 % 6.5 cd/lm 1 White Mbite XP-E 11.0° / 27.0° 87 % 12.1 cd/lm 1 White	





		30' 39'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-E2 11.0° / 26.0° 89 % 13.6 cd/lm 1 White	
		4)*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G2 13.0° / 29.0° 87 % 10 cd/lm 1 White	
		204
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 14.0° / 31.0° 86 % 8.4 cd/lm 1 White	
CREE CLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	- XP-L HI 14.0° / 29.0° 88 % 10.2 cd/lm 1 White	



	ס	50*
LED	XP-L2	72
FWHM / FWTM	18.0° / 36.0°	
Efficiency	82 %	500 Start St
Peak intensity	5.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		400
		34 37 46 37 3
	D	
LED	XQ-E HD	
FWHM / FWTM	11.0° / 28.0°	
Efficiency	81 %	
Peak intensity	11 cd/lm	
LEDs/each optic	1	
Light colour	White	9 ⁵⁷ 669
Required compone	ents:	
		200
	_	122 b 122
CDEE - NIE		
		5)* · · · · · · · · · · · · · · · · · · ·
LED	XQ-E HI	50°
LED FWHM / FWTM	XQ-E HI 11.0° / 26.0°	55 ⁴ 5 77 200 2
LED FWHM / FWTM Efficiency	XQ-E HI 11.0° / 26.0° 86 %	50 ⁴ 5 73 ⁴ 200 2 66 ⁴ 6
LED FWHM / FWTM Efficiency Peak intensity	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm	5)* 75 6)* 60* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White ents: XT-E 14.0° / 30.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White ents: XT-E 14.0° / 30.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE Component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White ents: XT-E 14.0° / 30.0° 84 % 8.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White ents: XT-E 14.0° / 30.0° 84 % 8.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE Component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White ents: XT-E 14.0° / 30.0° 84 % 8.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White ents: XT-E 14.0° / 30.0° 84 % 8.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HI 11.0° / 26.0° 86 % 13.6 cd/lm 1 White ents: XT-E 14.0° / 30.0° 84 % 8.8 cd/lm 1 White	



	EDS	504
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON C 11.0° / 27.0° 84 % 11.6 cd/lm 1 White	
	EDS	30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CZ 11.0° / 25.0° 89 % 14.8 cd/lm 1 White	
	EDC	20 ⁴ 30 <u>0</u> 00 20 ⁴
LED FWHM / FWTM	LUXEON M/MX 24.0° / 44.0°	
Efficiency Peak intensity LEDs/each optic	84 % 3.8 cd/lm 1	500 × 100
Light colour Required compone	White	
		200 June - 20 Ju
	EDS	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON MZ 19.0° / 35.0° 86 % 6.3 cd/lm 1 White	
		20 ¹ 20 ¹ 20 ¹ 20 ¹



	EDC	
C LUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES 14.0° / 30.0° 86 % 9.5 cd/lm 1 White	30. 0, 12, d. 0, 12, d. 0, 0, 12, 10, 0, 12, 12, 10, 0, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX 14.0° / 29.0° 86 % 9.8 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	LUXEON V 18.0° / 35.0° 84 % 6.5 cd/lm 1 White	Me Me Me Me 24. 60. 90. 64. 20.0 90. 35. 20.0 90. 36. 20.0 90.
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 15.0° / 31.0° 86 % 9 cd/lm 1 White	27 00 12 00 12 00 10 10 10 10 10 10 10 10 10 10 10 10



🖉 LUMIL	EDS	90 ⁴ 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Z 11.0° / 25.0° 88 % 15.1 cd/lm 1 White	
🖉 LUMIL	EDS	50° A 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Z ES 12.0° / 27.0° 89 % 12.1 cd/lm 1 White ents:	
	<u> </u>	125/ 12600 127
	NCSxE17A	99° 99
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	12.0° / 26.0° 87 % 12.7 cd/lm 1 White	
		24' 38mb 20
∕∕ NICHI∧		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NV4x144A 23.0° / 43.0° 84 % 4.1 cd/lm 1 White	25





ØNICHI		1997
LED FWHM / FWTM	NVSW219D 14.0° / 30.0°	500
Efficiency	85 %	799
Peak intensity	9.3 cd/lm	100
LEDs/each optic	1	107
Light colour	White	
Required compone	nts:	
ØNICHI		50'
LED	NVSW319B	
FWHM / FWTM	16.0° / 33.0°	29
Efficiency	86 %	
Peak intensity	7.4 cd/lm	
LEDs/each optic	1	
Light colour	White	¢, 60
Required compone	nts.	20° 20° 20° 20°
ØNICHI		90° 00°
LED	NVSxE21A	
FWHM / FWTM	14.0° / 28.0°	
Efficiency	87 %	61 ⁴
Peak intensity	10.3 cd/lm	
LEDs/each optic	1	
Light colour Required compone	White nts:	
		90° 90'
LED	NVSxx19B/NVSxx19C	75
FWHM / FWTM	15.0° / 31.0°	
Efficiency Peak intensity	85 %	6/1
LEDs/each optic	8.8 cd/lm 1	
Light colour	ı White	gr a start
Required compone		



[
OSRAM Opto Semiconductors		90* 90*
LED	Duris S8	
FWHM / FWTM	24.0° / 43.0°	
Efficiency	86 %	60* 60*
Peak intensity	4.3 cd/lm	
LEDs/each optic	1	
Light colour	White	62× 62*
Required componer	nts:	200
		30* 30*
OSDAM		<u>1357 00 1557</u>
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (2W version)	25*
FWHM / FWTM	14.0° / 30.0°	
Efficiency	87 %	50° 50°
Peak intensity	9.2 cd/lm	
LEDs/each optic	1	X /
Light colour	White	e. A e.
Required componer	nts:	6430
		30* 9650 30*
		15" 0° 15"
OSRAM		
OSRAM Opto Semiconductors		50° 50°
Opto Semiconductors	OSCONIQ P 3737 (3W version)	
opto Semiconductors LED FWHM / FWTM	17.0° / 33.0°	
opto Semiconductors LED FWHM / FWTM Efficiency	17.0° / 33.0° 86 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	17.0° / 33.0° 86 % 7.2 cd/lm	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 33.0° 86 % 7.2 cd/lm 1	90 ⁴ 75 ⁴ 70 ⁵ 70 ⁵ 70 ⁵ 70 ⁵ 70 ⁵
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 33.0° 86 % 7.2 cd/lm 1 White	90 ⁴ 75 ⁴ 70 ⁵ 70 ⁵ 70 ⁵ 70 ⁵ 70 ⁵
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 33.0° 86 % 7.2 cd/lm 1 White	g, 500 100 100 100 100 100 100 100
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 33.0° 86 % 7.2 cd/lm 1 White	g, 500 100 100 100 100 100 100 100
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 33.0° 86 % 7.2 cd/lm 1 White	5° 600 6° 6°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 33.0° 86 % 7.2 cd/lm 1 White	500 57 600 600 600 600 600 600 600 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	17.0° / 33.0° 86 % 7.2 cd/lm 1 White	30° 55° 60° 55° 60° 55° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	17.0° / 33.0° 86 % 7.2 cd/lm 1 White hts:	200 000 000 000 000 000 000 000
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component OSRAM Opto Semiconductors LED	17.0° / 33.0° 86 % 7.2 cd/lm 1 White hts:	200 000 000 000 000 000 000 000
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM	17.0° / 33.0° 86 % 7.2 cd/lm 1 White hts: OSCONIQ P 7070 23.0° / 42.0°	200 000 000 000 000 000 000 000
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency	17.0° / 33.0° 86 % 7.2 cd/lm 1 White hts: OSCONIQ P 7070 23.0° / 42.0° 84 %	200 000 000 000 000 000 000 000
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	17.0° / 33.0° 86 % 7.2 cd/lm 1 White tts: OSCONIQ P 7070 23.0° / 42.0° 84 % 4.1 cd/lm	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 33.0° 86 % 7.2 cd/lm 1 White tts: OSCONIQ P 7070 23.0° / 42.0° 84 % 4.1 cd/lm 1	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 33.0° 86 % 7.2 cd/lm 1 White tts: OSCONIQ P 7070 23.0° / 42.0° 84 % 4.1 cd/lm 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 33.0° 86 % 7.2 cd/lm 1 White tts: OSCONIQ P 7070 23.0° / 42.0° 84 % 4.1 cd/lm 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 33.0° 86 % 7.2 cd/lm 1 White tts: OSCONIQ P 7070 23.0° / 42.0° 84 % 4.1 cd/lm 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 33.0° 86 % 7.2 cd/lm 1 White tts: OSCONIQ P 7070 23.0° / 42.0° 84 % 4.1 cd/lm 1 White	



OSRAM Opto Semiconductors			50° A 50°
LED FWHM / FWTM	OSLON Black Flat 11.0° / 24.0°	-	20
Efficiency	88 %		6gs 60*
Peak intensity	16 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone	nts:		1200 30 ⁴ 10 ⁷ 0 ⁴ 10 ⁷
OSRAM Opto Semiconductors			50°
LED	OSLON Square CSSRM2/CSSRM3		
FWHM / FWTM	14.0° / 30.0°		70
Efficiency	87 %		
Peak intensity	10.2 cd/lm		
LEDs/each optic	1		
Light colour	White		43° 4130
Required compone	nts:		
			20° 25° 0° 35°
OSRAM Opto Semiconductors			90* 90*
LED	OSLON Square EC		
FWHM / FWTM	13.0° / 29.0°		
Efficiency	85 %		50° 500 60°
Peak intensity	10 cd/lm		
LEDs/each optic	1		
Light colour	White		45° 6130
Required compone	nts:		
OSRAM Opto Semiconductors			90* 90*
LED	OSLON Square PC		
FWHM / FWTM	13.0° / 30.0°		75
Efficiency	85 %		
Peak intensity	10.1 cd/lm		
LEDs/each optic	1		
Light colour	White		93 ¹
Required compone			
			30 ⁴ 10 ⁴ 10 ⁴ 10 ⁴ 10 ⁴



OCDAN		
OSRAM Opto Semiconductors		50°
LED	OSLON SSL 150	77
FWHM / FWTM	11.0° / 26.0°	
Efficiency	87 %	69*
Peak intensity	13 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required compone	nts:	900
		34.
OCDAM		
OSRAM Opto Semiconductors		90*
LED	OSLON SSL 80	
FWHM / FWTM	13.0° / 28.0°	
Efficiency	86 %	eer to the second s
Peak intensity	11.1 cd/lm	
LEDs/each optic	1	
Light colour	White	er* 600. er*
Required compone	nts:	
		80
		25° of 35°
000444		
OSRAM Opto Semiconductors		1000
OSRAM Opto Semiconductors LED	OSTAR Stage (S2WN)	500 -
Opto Semiconductors	OSTAR Stage (S2WN) 14.0° / 30.0°	1100 - 940 - 160 -
Opto Semiconductors		300 -
opto Semiconductors LED FWHM / FWTM	14.0° / 30.0°	500
Opto Semiconductors LED FWHM / FWTM Efficiency	14.0° / 30.0° 86 %	909
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	14.0° / 30.0° 86 % 9.3 cd/lm	800
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW	1010 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW	1010 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW	1010 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW nts: JNG LH181A 15.0° / 30.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW nts: JNG LH181A 15.0° / 30.0° 81 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW nts: JNG LH181A 15.0° / 30.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 30.0° 86 % 9.3 cd/lm 1 RGBW nts:	



SAMSI		50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH181B 15.0° / 29.0° 87 % 9.7 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH231B 16.0° / 31.0° 88 % 8.6 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351B 14.0° / 30.0° 87 % 9.3 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351C 15.0° / 31.0° 86 % 8.5 cd/lm 1 White	





S ΛΜS	JNG	90 [*]
LED	LH351D	
FWHM / FWTM	18.0° / 36.0°	
Efficiency	85 %	
Peak intensity	6.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		439
		\times / \setminus λ
		314 640
		15° 0° 15°
SAMSU	JNG	90°
LED	LH508A	
FWHM / FWTM	21.0° / 40.0°	
Efficiency	86 %	80
Peak intensity	4.9 cd/lm	
LEDs/each optic	1	
Light colour	White	9 320
Required compone	ents:	
		20*
		125°, 6°, 13°,
сллсі		
S ΛΜSΙ		92*
LED	LM302A	90 ⁴
LED FWHM / FWTM	LM302A 14.0° / 30.0°	30 ⁺
LED FWHM / FWTM Efficiency	LM302A 14.0° / 30.0° 89 %	92* 72 60*
LED FWHM / FWTM Efficiency Peak intensity	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm	92 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White	94 73 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White	94 73 73 73 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White	92 ⁴ 737 97 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White ents:	30° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White ents:	30° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White ents:	30° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White ents: JNGG LM561B 14.0° / 31.0°	30° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White ents: JNG LM561B 14.0° / 31.0° 88 %	30° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White ents: JNG LM561B 14.0° / 31.0° 88 % 9.3 cd/lm	30° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White ents: JNG LM561B 14.0° / 31.0° 88 % 9.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White ents: JNG LM561B 14.0° / 31.0° 88 % 9.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White ents: JNG LM561B 14.0° / 31.0° 88 % 9.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302A 14.0° / 30.0° 89 % 9.9 cd/lm 1 White ents: JNG LM561B 14.0° / 31.0° 88 % 9.3 cd/lm 1 White	



SEOUL		30* 399
SEOUL SEMICONDUCTOR	Z5M3	
FWHM / FWTM	16.0° / 32.0°	77 200
Efficiency	84 %	
Peak intensity	7.7 cd/lm	
LEDs/each optic	1	
Light colour	White	\$ ⁴
Required compone	ents:	
		400
		20 ⁵ 200 30



PHOTOMETRIC DATA (SIMULATED):

LED FWHM / FWTM	XHP50.3 HD 22.0° / 40.0°	37 37 39
Efficiency	84 %	50 ⁰ 5000 50 ⁴
Peak intensity	4.8 cd/lm	BUT DE
LEDs/each optic	1	
Light colour	White	¢r tr
Required components:		3200
		30° 32°
		135 [°] 0 ⁶ 135 [°]
LED	XHP50.3 HI	
FWHM / FWTM	18.0° / 36.0°	25*
Efficiency	95 %	1000
Peak intensity	6.4 cd/lm	60°
LEDs/each optic	1	
Light colour	White	gr*
Required components:		
		300 300
		15° 0° 15°
		90 ⁴ 90 ⁴
	XHP70.3	5 ¹
LED	XHP70.3 26.0 + 28.0° / 50.0°	99 ¹ 75 ²
LED FWHM / FWTM	XHP70.3 26.0 + 28.0° / 50.0° 82 %	
LED FWHM / FWTM Efficiency	26.0 + 28.0° / 50.0° 82 %	77
LED FWHM / FWTM Efficiency Peak intensity	26.0 + 28.0° / 50.0°	77
LED FWHM / FWTM Efficiency	26.0 + 28.0° / 50.0° 82 % 3 cd/lm	6°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1	61 61 22
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1	6°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1	g* 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1	77 - 77 60 51 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1 White	27 29 29 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1 White	27 29 29 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1 White XP-E2 11.0° / 28.0°	30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1 White XP-E2 11.0° / 28.0° 91 %	30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1 White XP-E2 11.0° / 28.0°	30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1 White XP-E2 11.0° / 28.0° 91 % 12.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1 White XP-E2 11.0° / 28.0° 91 % 12.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1 White XP-E2 11.0° / 28.0° 91 % 12.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1 White XP-E2 11.0° / 28.0° 91 % 12.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	26.0 + 28.0° / 50.0° 82 % 3 cd/lm 1 White XP-E2 11.0° / 28.0° 91 % 12.7 cd/lm 1	



PHOTOMETRIC DATA (SIMULATED):

CREE LED	XP-G2 HE 15.0° / 32.0° 88 % 8.7 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 26.0° / 51.0° 94 % 3.2 cd/lm 1 White	200 200 50 50 50 50 50 50 50 50 50
WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NFMW48xA 21.0° / 40.0° 89 % 5.5 cd/lm 1 White	30° 94° 94° 94° 94° 94° 94° 94° 94° 94° 94
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NV4WB35AM 18.0° / 34.0° 89 % 7.2 cd/lm 1 White	200 Br. 200 Br



PHOTOMETRIC DATA (SIMULATED):

SAMSU	NG	90 ⁴ 90 ⁴
LED	LH151B	
FWHM / FWTM	22.0° / 38.0°	
Efficiency	88 %	1500
Peak intensity	5.1 cd/lm	
LEDs/each optic	4	
Light colour	White	g*
Required componen	IS:	
		300



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:

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