

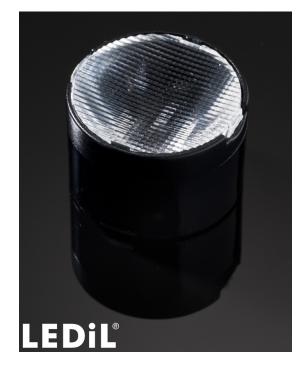
PRODUCT DATASHEET CA11484_LXP2-O-90

LXP2-O-90

~10° x 40° oval beam optimized for CREE XP-E. 14.7 mm high assembly with installation tape. Variant with beam direction rotated 90°.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.6 mm
Height	14.7 mm
Fastening	tape
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

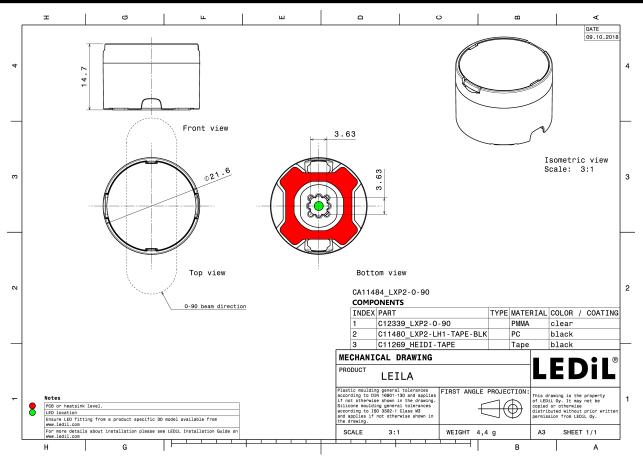
Component	Туре	Material	Colour	Finish
LXP2-O-90	Single lens	PMMA	clear	
LXP2-LH1-TAPE-BLK	Holder	PC	black	
HEIDI-TAPE	Таре	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11484_LXP2-O-90	Single lens	1680	336	112	9.2
» Box size: 480 x 280 x 300 mm					



PRODUCT DATASHEET CA11484_LXP2-O-90



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



PHOTOMETRIC DATA (MEASURED):

	D		90*		90*
LED	XP-E				
FWHM / FWTM	9.0 + 41.0° / 20.0 + 61.0°		25*	~ 1	12.
Efficiency	89 %		7	1600	$K \setminus X$
Peak intensity	5.8 cd/lm		60.6	$\sim /// $	60°
LEDs/each optic	1			\sim	
Light colour	White		450	3230	45%
Required compone					
	ents.				
			1	4830	$-\mathcal{T}$
			X		
			30*	15% 0%	30.
	D		90°		90*
LED	XP-E2				
FWHM / FWTM	10.0 + 42.0° / 20.0 + 60.0°		75*		25
Efficiency	86 %			/ // T</td <td></td>	
Peak intensity	6.2 cd/lm		60.0		× *
LEDs/each optic	1			3230	
Light colour	White		950		45*
Required compone				4600	
					$ \land \ $
			\sim		
			/	150 00	150
	D		90°		90*
	D XP-G		90°		90°
			90 ⁴ 75		
LED	XP-G		99* 75 601		
LED FWHM / FWTM	XP-G 12.0 + 40.0° / 25.0 + 63.0°		90* 75* 60*	100	39
LED FWHM / FWTM Efficiency	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 %		90* 75: 60*	189	95* 55*
LED FWHM / FWTM Efficiency Peak intensity	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm		90* 75 90*	100	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White		90* 73 90 97	100	60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White		90* 735 60*	100	60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White		90* 75: 90* 97*	109	60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White		90* 75: 69* 9*		60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White ents:		90* 73 90* 90* 90*		6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White ents:		90* 75: 90* 95* 90*		60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White ents:		90* 75: 90* 90* 90*	600	60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White ents:		90* 75* 90* 90* 90*	600	60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White ents:		90 ⁴ 75 60 ⁴ 77 75 77 70 70 70 70	600	60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White ents: XP-G2 12.0 + 40.0° / 27.0 + 62.0°		90 ⁴ 75 90 ⁴ 90 ⁴ 75 90 ⁴ 75	600	60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE LED FWHM / FWTM Efficiency	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White ents:		90 ³ 75 69 ⁴ 97 90 ⁴ 75 60 ⁴	600	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White ents: XP-G2 12.0 + 40.0° / 27.0 + 62.0° 87 % 4.4 cd/lm		90 ³ 73 90 ⁴ 90 ⁴ 90 ⁴ 90 ⁴ 90 ⁴ 90 ⁴	600	60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Equired compone Efficiency Peak intensity LEDs/each optic	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White ents: XP-G2 12.0 + 40.0° / 27.0 + 62.0° 87 % 4.4 cd/lm 1 White		95* 75 95* 95* 95*	600	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic Light colour	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White ents: XP-G2 12.0 + 40.0° / 27.0 + 62.0° 87 % 4.4 cd/lm 1 White		90* 75 90* 90* 90* 75 90* 75 90*		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic Light colour	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White ents: XP-G2 12.0 + 40.0° / 27.0 + 62.0° 87 % 4.4 cd/lm 1 White		95 ⁴ 75 96 95 95 95 95 95 95 95 95 95 95		90 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE CLE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 12.0 + 40.0° / 25.0 + 63.0° 89 % 4.6 cd/lm 1 White ents: XP-G2 12.0 + 40.0° / 27.0 + 62.0° 87 % 4.4 cd/lm 1 White		90 ⁴ 75 90 ⁴ 97 90 ⁴ 90 ⁴ 90 ⁴ 90 ⁴ 90 ⁴ 90 ⁴		



PHOTOMETRIC DATA (MEASURED):

FWHM / FWTM 13.0 + 41.0° / 30.0 + 63.0° Efficiency 84 % Peak intensity 4.1 cd/lm LEDs/each optic 1 Light colour White Required components: EFF LUMILEDS LED LUXEON Q FWHM / FWTM 12.0 + 41.0° / 62.0 + 27.0° Efficiency 85 % Peak intensity 4.3 cd/lm LEDs/each optic 1			
LED XP-HI FWHM / FWTM 12.0 + 43.0' / 27.0 + 61.0' Eliciency 80% Peak intensity 4.4 culin LED weach optic 1 Light colour White Required components:			50*
PVHH / PVTM 1 20 + 4.0 ' / 20 - 6.0 '' Efficiency 86 % Required components:			
Efficiency 88% Pack Intensity 4.4 coltm Light colour While Required components:			
Peak intensity 4.4 cdlm LEDoleach optic 1 LEDoleach optic 1 LED TTE FWHM /FWTM 13.0 + 41.0° / 30.0 + 63.0° Electrone 84 % Electrone 84 % Elec			
LEDSeach optic 1 Light colour White Required components:			60 ¹² 3000
Light colour White Required components: CREE CLOP LED XT-E FWHM /FVTM 13:0+10"70:0+63.0" Encloancy 45:% Peak intensity 4.1 cdfm LEDVech optic 1 LEDVech optic 1 LEDVECUNCEDS LED LUXEONO FWHM /FVTM 12:0+41:0*62.0+27.0" Encloancy 65:% Peak intensity 4.3 cdfm LEDVech optic 1 Light colour White Required components: FVTMM /FVTM 13:0+42:0*28.0+62.0" Encloancy 89:% Peak intensity 4.3 cdfm LEDVech optic 1 Light colour White Required components: FVTMM /FVTM 13:0+42:0*28.0+62.0" Encloance 99:% Peak intensity 4.3 cdfm LEDVech optic 1 Light colour White Required components: FVTMM /FVTM 13:0+42:0*28.0+62.0" Encloance 99:% Peak intensity 4.3 cdfm LEDVech optic 1 Light colour White Required components:			
Required components:			g-
CREE LD LED XT-F FWHM /FWTM 13.0 + 1.07 / 30.0 + 63.0" Efficiency 84 % Peak intensity 4.1 cd/m LEDWeech optic 1 Light colour White Required components: Image: Components Image: Components: Image: Components			
UNILEDS LED XT-E FWH// FVTM 13.0 + 41.0° / 30.0 + 63.0° Efficiency 84 % Peak intensity 4.1 cd/m LED XMILEDS LED LUXEON 0 FWH// FVTM 12.0 + 41.0° / 62.0 + 27.0° Efficiency 85 % Peak intensity 4.3 cd/m LED LUXEON 0 FWH/ FVTM 12.0 + 41.0° / 62.0 + 27.0° Efficiency 85 % Peak intensity 4.3 cd/m LED LUXEON 0 FWH/ FVTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LED NSW219D FWH/ FVTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LED NSW219D FWH/ FVTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LED/ Exolour White Required componentis: 1 Updreach optic 1 <t< th=""><th></th><th></th><th></th></t<>			
UNILEDS LED XT-E FWH// FVTM 13.0 + 41.0° / 30.0 + 63.0° Efficiency 84 % Peak intensity 4.1 cd/m LED XMILEDS LED LUXEON 0 FWH// FVTM 12.0 + 41.0° / 62.0 + 27.0° Efficiency 85 % Peak intensity 4.3 cd/m LED LUXEON 0 FWH/ FVTM 12.0 + 41.0° / 62.0 + 27.0° Efficiency 85 % Peak intensity 4.3 cd/m LED LUXEON 0 FWH/ FVTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LED NSW219D FWH/ FVTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LED NSW219D FWH/ FVTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LED/ Exolour White Required componentis: 1 Updreach optic 1 <t< th=""><th></th><th></th><th></th></t<>			
CREE + LED XT-E FWHM / FVTTM 13.0 + 41.0° / 30.0 + 63.0° Efficiency 84 % Peak Intensity 4.1 cdfm LED& each optic 1 Light colour White Required components: ************************************			30*
LED XT-E FWHM / FWTM 13.0 + 10° / 30.0 + 63.0° Efficiency 84 % Peak intensity 4.1 cd/m LEDS/each optic 1 LEDS/each optic 1 Light colour White Required components:			15 ⁹ #\$\$0
FWHM / FWTM 13.0 + 41.0 * / 30.0 + 63.0 * Efficiency 84 % Peak intensity 4.1 cd/m LEDs/each optic 1 Light colour White Required components: EED LUXEON Q FWHM / FWTM 12.0 + 41.0 * / 62.0 + 27.0 * Efficiency 85 % Peak intensity 4.3 cd/m LEDs/each optic 1 Light colour White Required components: EED NVSW219D FWHM / FWTM 13.0 + 42.0 * / 28.0 + 62.0 * Efficiency 89 % Peak intensity 4.3 cd/m LEDS / 20.0 * 20.0 * FWHM / FWTM 13.0 + 42.0 * / 28.0 + 62.0 * Efficiency 89 % Peak intensity 4.3 cd/m LEDS / 20.0 * 20.0 * FWHM / FWTM 13.0 + 42.0 * / 28.0 + 62.0 * Efficiency 89 % Peak intensity 4.3 cd/m LEDS / 20.0 * Puble Required components: EFICIENCE // 28.0 + 62.0 * Efficiency 89 % Peak intensity 4.3 cd/m LEDS / 20.0 * 20.0 * Efficiency 89 % Peak intensity 4.3 cd/m LEDS / 20.0 * Efficiency 80 % Peak intensity 4.3 cd/m LEDS / 20.0 * Efficiency 80 % Peak intensity 4.3 cd/m Efficiency 80 % Peak inte			90* a
FWHM / FVTM 13.0 + 41.0 ' / 30.0 + 63.0' Efficiency 84 % Peak intensity 4.1 cd/m LEDscach optic 1 Light colour White Required components: Image: Component in the image: Co	LED	XT-E	
Peak intensity 4.1 cd/lm LEDS/each optic 1 Light colour White Required components: LED LUXEON Q FV/HM / FV/TM 12.0 + 41.0° / 62.0 + 27.0° Efficiency 85 % Peak intensity 4.3 cd/m LEDS/each optic 1 Light colour White Required components: EVICENTA LED NVSW219D FV/HM / FV/TM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LEDS/each optic 1 Light colour White Required components: EVICENTA LED NVSW219D FV/HM / FV/TM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LEDS/each optic 1 Light colour White Required components: EVICENTA LED NVSW219D FV/HM / FV/TM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LEDS/each optic 1 Light colour White Required components:	FWHM / FWTM	13.0 + 41.0° / 30.0 + 63.0°	
LEDs/each optic 1 Light colour White Required components:	Efficiency	84 %	
Light colour White Required components: LED LUXEON Q FWHM / FWTM 12.0 + 41.0" / 62.0 + 27.0" Efficiency 85 % Peak intensity 4.3 cd/m LEDs/each optic 1 Light colour White Required components: LED NVSW219D FWHM / FWTM 13.0 + 42.0" / 28.0 + 62.0" Efficiency 89 % Peak intensity 4.3 cd/m LEDs/each optic 1 Light colour White Required components:	Peak intensity	4.1 cd/lm	
Required components:	LEDs/each optic	1	
Image: Components of the second se	Light colour		¢ A
LED LUXEON Q FWHM / FWTM 12.0 + 41.0° / 62.0 + 27.0° Efficiency 85 % Peak intensity 4.3 cd/m LED / ach optic 1 Light colour White Required components: EVICENN LED NVSW219D FWHM / FWTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LEDs/each optic 1 Light colour White Required components:	Required compone	nts:	
LED LUXEON Q FWHM / FWTM 12.0 + 41.0° / 62.0 + 27.0° Efficiency 85 % Peak intensity 4.3 cd/m LED / ach optic 1 Light colour White Required components: EVICENN LED NVSW219D FWHM / FWTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LEDs/each optic 1 Light colour White Required components:			
LED LUXEON Q FWHM / FWTM 12.0 + 41.0° / 62.0 + 27.0° Efficiency 85 % Peak intensity 4.3 cd/m LED / ach optic 1 Light colour White Required components: EVICENN LED NVSW219D FWHM / FWTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LEDs/each optic 1 Light colour White Required components:			
LED LUXEON Q FWHM / FWTM 12.0 + 41.0° / 62.0 + 27.0° Efficiency 85 % Peak intensity 4.3 cd/m LED / ach optic 1 Light colour White Required components: EVICENN LED NVSW219D FWHM / FWTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LEDs/each optic 1 Light colour White Required components:			34- 12 ⁻ 0 ⁴ 22 ⁻
LED LUXEON Q FWHM / FWTM 12.0 + 41.0° / 62.0 + 27.0° Efficiency 85 % Peak intensity 4.3 cd/m LED / ach optic 1 Light colour White Required components: EVICENN LED NVSW219D FWHM / FWTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/m LEDs/each optic 1 Light colour White Required components:		EDS	50° 2
FWHM / FWTM 12.0 + 41.0° / 62.0 + 27.0° Efficiency 85 % Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components:	LED		
Efficiency 85 % Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components:			
Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components:		85 %	
LEDs/each optic 1 Light colour White Required components:		4.3 cd/lm	
Required components:	LEDs/each optic		
Image: Sinching with the second se	Light colour	White	97
Image: Description of the second s	Required compone	nts:	
Image: Description of the second s			
Image: Description of the second s			
LED NVSW219D FWHM / FWTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components:			30 00 00 00 00
LED NVSW219D FWHM / FWTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components:	ØNICHI/		
FWHM / FWTM 13.0 + 42.0° / 28.0 + 62.0° Efficiency 89 % Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components: ***			
Efficiency 89 % Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components:			1 1 1 1 1 1 1 1 1 1
Peak intensity 4.3 cd/lm LEDs/each optic 1 Light colour White Required components:			
LEDs/each optic 1 Light colour White Required components:			
Light colour White Required components:			
Required components:			2000
50		WING	
	Required compone		1999
	Required compone		100
-18.4° +12.4° +4.5° +4.4° +12.4° +4.4° +12.4° +14.4° +13.4° +14.4	Required compone		139 =
	Required compone		



PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z5 10.0 + 36.0° / 24.0 + 58.0° 89 % 5.7 cd/lm 1 White nts:	21, 0, 72, 0, 72, 25, 6, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z5M1/Z5M2 13.0 + 42.0° / 26.0 + 63.0° 90 % 4.9 cd/lm 1 White nts:	21° 0° 12° 0° 12° 21° 0° 0° 0° 21° 0° 0° 0° 21° 0° 0° 21° 0° 0° 0°



PHOTOMETRIC DATA (SIMULATED):

ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NCSxx19B 10.0 + 42.0° / 24.0 + 60.0° 90 % 5.1 cd/lm 1 Blue	201 00 00 00 00 00 00 00 00 00 00 00 00 0
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NCSxx19B 11.0 + 44.0° / 26.0 + 60.0° 90 % 4.9 cd/lm 1 Green	50° 50° 75° 70° 60° 60° 75° 3556 60° 75° 55° 75° 75° 75° 75° 75° 75° 75° 75° 75°
WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NCSxx19B 10.0 + 42.0° / 22.0 + 58.0° 90 % 5.5 cd/lm 1 Red	99 ⁵ 97 97 97 96 90 90 90 90 90 90 90 90 90 90 90 90 90
NICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxx19B/NVSxx19C 12.0 + 42.0° / 28.0 + 62.0° 88 % 4.3 cd/lm 1 White	



PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors		50° 50°
bolo Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square CSSRM2/CSSRM3 12.0 + 41.0° / 28.0 + 62.0° 90 % 4.7 cd/lm 1 White	200 - 27 200 -
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351C 14.0 + 42.0° / 28.0 + 64.0° 83 % 4 cd/lm 1 White	50° 30° 75° 75° 60° 60° 5000 60°
Required components:	16	20 ⁻ 122 ⁻ 0 ⁺ 12 ⁺ 3 ⁺
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM302D 13.0 + 42.0° / 32.0 + 62.0° 88 % 4 cd/lm 1 White	90 ⁴ 90 ⁴ 9
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Z8Y22P 40.0 + 14.0° / 64.0 + 34.0° 87 % 3.8 cd/lm 1 White	20° 00° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°



PRODUCT DATASHEET CA11484_LXP2<u>-O-90</u>

GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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LEDiL Oy

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