

G2-LXP2-D-P

~14° diffused spot beam with light, black holder. Assembly with location pins and installation tape.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.8 mm
Height	14.7 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

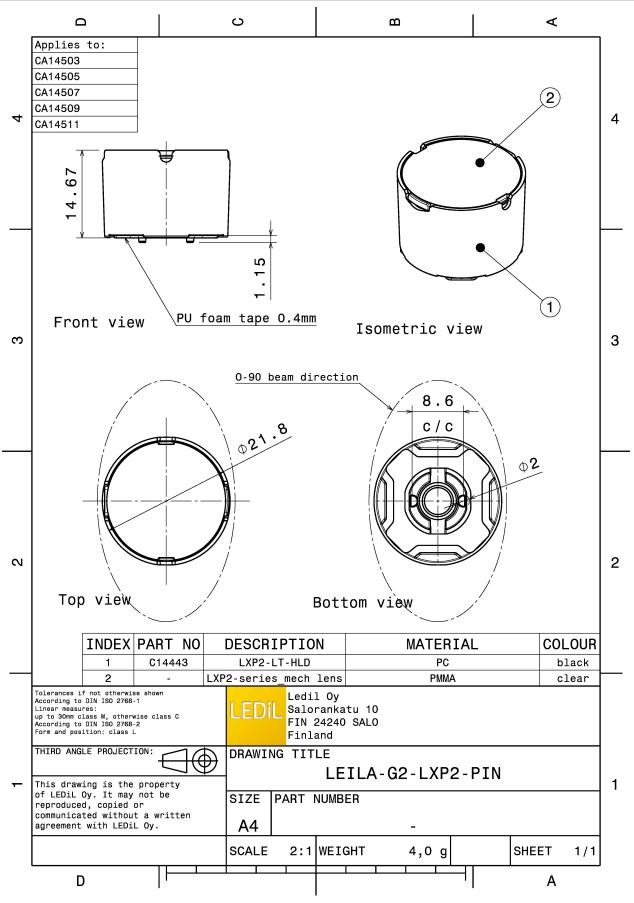
Component	Туре	Material	Colour	Finish
LXP2-D	Single lens	PMMA	clear	
LXP2-LT-HLD	Holder	PC	black	
HEIDI-TAPE	Таре	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA14507_G2-LXP2-D-P	Single lens	1680		112	8.3
» Box size: 480 x 280 x 300 mm					



PRODUCT DATASHEET CA14507_G2-LXP2-D-P



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

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WHM / FWTM 9.7 / 22.0° fifticiency 88 % Pack Intensity 11.9 od/m LED XO-E HD WHM / FVTM 11.0° / 25.0° fifticiency 85 % Pack Intensity 11.8 od/m LED XO-E HD WHM / FVTM 11.0° / 25.0° fifticiency 85 % Pack Intensity 11.8 od/m LED watch optic 1 Light colour White Required components: ED XO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Pack Intensity 12 od/m LED XO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Required components: ED XO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Required components: ED XO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Required components: ED KO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Required components: ED KO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Required components: ED KO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Required components: ED KO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Required components: ED KO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Required components: ED KO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Required components: ED KO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Required components: ED KO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Required components: ED KO-E HI WHM / FVTM 11.0° / 25.0° fifticiency 84 % Required components: ED KO-E HI FVTM 11.0° / 25.0° FVTM 11.0° FVTM 11.0° / 25.0° FVTM 11.0° FVTM 11.0° FVTM 11.0° FVTM 11.0° FV			
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EDVacadoptic 1 ight colour White Required components:			
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CREE©LED LED XQ-E HI WHM / FWTM 11.0° / 25.0° Efficiency 84 % Peak intensity 12 cd/m LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White	
CREE©LED LED XQ-E HI WHM / FWTM 11.0° / 25.0° Efficiency 84 % Peak intensity 12 cd/m LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White	
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EWHM / FWTM 11.0° / 25.0° Efficiency 84 % Peak intensity 12 cd/lm EDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White	
FWHM / FWTM 11.0° / 25.0° Efficiency 84 % Peak intensity 12 cd/m LEDs/each optic 1 Light colour White Required components: ************************************	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XQ-E HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White nts:	
Peak intensity 12 cd/m LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XQ-E HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White nts:	
LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XQ-E HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White hts: XQ-E HI 11.0° / 25.0°	
Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XQ-E HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White hts: XQ-E HI 11.0° / 25.0° 84 %	
Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE Compone LED FWHM / FWTM Efficiency Peak intensity	XQ-E HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White hts: XQ-E HI 11.0° / 25.0° 84 %	
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XQ-E HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White nts: XQ-E HI 11.0° / 25.0° 84 % 12 cd/lm 1	
	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 HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White nts: XQ-E HI 11.0° / 25.0° 84 % 12 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 HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White nts: XQ-E HI 11.0° / 25.0° 84 % 12 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 HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White nts: XQ-E HI 11.0° / 25.0° 84 % 12 cd/lm 1 White	
1200 1200	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 HD 11.0° / 25.0° 85 % 11.8 cd/lm 1 White nts: XQ-E HI 11.0° / 25.0° 84 % 12 cd/lm 1 White	



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON C 11.0° / 25.0° 80 % 11 cd/lm 1 White	
UMIL	EDS	90° . 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CZ 12.0° / 28.0° 86 % 10.8 cd/lm 1 White	
	EDS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 18.0° / 41.0° 83 % 4.7 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Z ES 14.0° / 31.0° 83 % 8.7 cd/lm 1 White	



∅ NICHI/		90 ⁴ 0
LED	NCSxx19A	
FWHM / FWTM	13.0° / 30.0°	77 73
Efficiency	86 %	
Peak intensity	9 cd/lm	6 ¹ - 1000 - 00
LEDs/each optic	1	
Light colour	White	er e
Required compone		400
		30*
		20 ⁻¹ 10 ⁻¹
		90* 90
LED	NF2x757G	70
FWHM / FWTM	16.0° / 37.0°	
Efficiency	88 %	
Peak intensity	6.5 cd/lm	229
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	400
		30° 317 0° 12°
ØNICHI/		90° A 94°
LED	NVSW219F	
FWHM / FWTM	15.0° / 32.0°	75 500
Efficiency	87 %	
Peak intensity	7.7 cd/lm	
LEDs/each optic	1	
Light colour	White	ete
Required compone	nts:	
		400
		30* 000 30
ØNICHI/		
LED	NVSW319B	
		77
FWHM / FWTM	17.0° / 35.0°	72 500
FWHM / FWTM Efficiency	17.0° / 35.0° 87 %	$\Gamma \setminus Z \land H \land \land \land$
FWHM / FWTM Efficiency Peak intensity	17.0° / 35.0°	$\Gamma \setminus Z \land \Lambda \land \land \land$
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 35.0° 87 % 6.5 cd/lm	ar
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 35.0° 87 % 6.5 cd/lm 1 White	50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 35.0° 87 % 6.5 cd/lm 1 White	ar
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 35.0° 87 % 6.5 cd/lm 1 White	81
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 35.0° 87 % 6.5 cd/lm 1 White	81



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ØNICHIA		90* 90*
LED	NVSW3x9A	
FWHM / FWTM	17.0° / 36.0°	75
Efficiency	81 %	
Peak intensity	6.1 cd/lm	
LEDs/each optic	1	
Light colour	White	g* det
Required componer		
		692
		30° (du 30)
		25 ⁵ of 25 ⁵
ØNICHIA		904
LED	NVSW519A	75
FWHM / FWTM	19.0° / 38.0°	
Efficiency	86 %	60 ¹
Peak intensity	5.6 cd/lm	
LEDs/each optic	1	
Light colour	White	ar
Required componer	nts:	
		600
		34
		15 ⁵ 0 ⁶ 25 ⁵
ØNICHIA		90° 90'
LED	NWSx229A	<u>36</u> , 26, 26, 26, 26, 26, 26, 26, 26, 26, 26
LED FWHM / FWTM	NWSx229A 29.0° / 42.0°	90 ⁴ 90 ⁷
LED FWHM / FWTM Efficiency	NWSx229A 29.0° / 42.0° 83 %	90 ⁴ 997 72 10 ⁴ 500
LED FWHM / FWTM Efficiency Peak intensity	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/lm	90 ⁴ 997 792 60 ⁵ 1000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/Im 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/Im 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/Im 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/Im 1 White	gr (123)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/Im 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/Im 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/Im 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/lm 1 White hts: Duris S5 (Single chip)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/lm 1 White nts: Duris S5 (Single chip) 16.0° / 38.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/lm 1 White nts: Duris S5 (Single chip) 16.0° / 38.0° 86 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/lm 1 White nts: Duris S5 (Single chip) 16.0° / 38.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/lm 1 White nts: Duris S5 (Single chip) 16.0° / 38.0° 86 % 6.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/lm 1 White nts: Duris S5 (Single chip) 16.0° / 38.0° 86 % 6.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Depts Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/lm 1 White nts: Duris S5 (Single chip) 16.0° / 38.0° 86 % 6.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/lm 1 White nts: Duris S5 (Single chip) 16.0° / 38.0° 86 % 6.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NWSx229A 29.0° / 42.0° 83 % 4.6 cd/lm 1 White nts: Duris S5 (Single chip) 16.0° / 38.0° 86 % 6.1 cd/lm 1 White	



OSRAM		
Opto Semiconductors		90°
LED	OSLON Square CSSRM2/CSSRM3	71
FWHM / FWTM	14.0° / 31.0°	
Efficiency	88 %	60 ²
Peak intensity	8.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	1300
		2 ³⁶ 12 ⁵ 0, 12 ⁵
SAMSU	ING	301 30
LED	LH181A	
FWHM / FWTM	15.0° / 37.0°	79
Efficiency	78 %	
Peak intensity	5.7 cd/lm	
LEDs/each optic	1	
Light colour	White	g*
Required compone		
i toquiroù compone		
		150 00 150 m
SVWSI	JNG	50° A 50°
LED	LH181B	
FWHM / FWTM	15.0° / 37.0°	77
Efficiency	82 %	
Peak intensity	6.3 cd/lm	
LEDs/each optic	1	
Light colour	White	g. as
Required compone	nts:	
		30° 600 30
SEOUL		
SEOUL SEMICONDUCTOR		90° 90°
LED	Z5M3	75
FWHM / FWTM	16.0° / 36.0°	
Efficiency	84 %	
Peak intensity	6.2 cd/lm	
LEDs/each optic	1	
Light colour	White	9 × × × × × × × × × × × × × × × × × × ×
Required compone	nts:	
		30* 6450 30
		<u></u>



SEOUL SEOUL SEMICONDUCTOR			8 ³
LED	Z8Y22P		27
FWHM / FWTM	15.0° / 37.0°		
Efficiency	78 %		605
Peak intensity	5.6 cd/lm		
LEDs/each optic	1		
Light colour	White		2000
Required compone	ents:		
			4000
			30*
			15° 0° 15°



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	J Series 2835 12.0° / 26.0° 93 % 13.3 cd/lm 1 White	201 201 201 201 201 201 201 201
CREE LED	XP-E2 10.0° / 20.0° 92 % 21.8 cd/lm 1 Amber	99° 99° 99° 99° 99° 600 60° 99° 60° 99° 60° 99° 60° 99° 60° 99° 60°
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 10.0° / 19.0° 94 % 24.2 cd/lm 1 White	5)* 77 77 600 607 607 607 607 607
CREES LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 HE 14.0° / 28.0° 91 % 11.5 cd/lm 1 White	



		90°
LED	XP-G3	75
FWHM / FWTM	14.0° / 27.0°	
Efficiency	91 %	50° 50°
Peak intensity	11.9 cd/lm	$\sim \times / / / \times \sim$
LEDs/each optic	1	600
Light colour	White	47 / / / / / / / / / / / / / / / / / / /
Required components:		
		9600
		30° 36*
		15% 1280% 15%
		90° 90°
LED	XP-P	75*
FWHM / FWTM	8.0° / 18.0°	in a second s
Efficiency	93 %	60°
Peak intensity	30 cd/lm	
LEDs/each optic	1	
Light colour	White	47" (<u>1970</u>) (3"
Required components:		
		30° 34.°
		15° 33000 0° 15°
		10* 00*
LED	XT-E	
FWHM / FWTM	11.0° / 23.0°	
Efficiency	90 %	60°
Peak intensity	16 cd/lm	6430
LEDs/each optic	1	$\times \times / 1 \times \times$
Light colour	White	47° 9500 43°
Required components:		\times
		12000
		30° - 13400 - 32°
	5	10) 0 10 90° 90°
		20 B0 [*]
	LUXEON HL2X	75'
FWHM / FWTM Efficiency	14.0° / 26.0°	3200
LEIIICIENCV	0.2.9/	
	93 %	60°
Peak intensity	13.5 cd/lm	9,0
Peak intensity LEDs/each optic	13.5 cd/lm 1	X / / X
Peak intensity LEDs/each optic Light colour	13.5 cd/lm	gr at
Peak intensity LEDs/each optic	13.5 cd/lm 1	X / / X
Peak intensity LEDs/each optic Light colour	13.5 cd/lm 1	ç,
Peak intensity LEDs/each optic Light colour	13.5 cd/lm 1	ç,
Peak intensity LEDs/each optic Light colour	13.5 cd/lm 1	ç, a.



)S	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON IR Compact 8.0° / 17.0° 84 % 1 White	
)S	50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON T 12.0° / 24.0° 93 % 14.3 cd/lm 1 White	71 et et et et et et et et et et et et et
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX 11.0° / 24.0° 92 % 15.4 cd/lm 1 White	22, 0, 12, 7, 1000 6, 120 6, 6, 6, 6, 7, 8, 9, 6, 7, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxx19B/NVSxx19C 13.0° / 27.0° 89 % 12 cd/lm 1 White	21 - 120 - 121 - 251 - 2



OSRAM		90° 90°
Opto Semiconductors	OSCONIQ P 3030	
FWHM / FWTM	10.0° / 22.0°	73' 25'
Efficiency	92 %	60° 60°
Peak intensity	18 cd/lm	
LEDs/each optic	1	
Light colour	Blue	er er
Required components:		12800
		\times / \vee \times
		36* 1900 100 36*
OSRAM		50° 50°
Opto Semiconductors		
FWHM / FWTM	OSCONIQ P 3737 Flat 12.0° / 28.0°	75*
	93 %	
Efficiency Peak intensity	93 % 12.3 cd/lm	60°
LEDs/each optic	1	6430 art
Light colour	White	
Required components:		3600
		30° 122000 30°
1		15° 0° 35°
OSRAM Oto Semiconductors		90* 90* 99*
OSRAM Opto Semiconductors	OSI ON Square Flat	7 7
LED	OSLON Square Flat	7 7
LED FWHM / FWTM	9.4° / 20.0°	99 ⁴
LED FWHM / FWTM Efficiency	9.4° / 20.0° 91 %	99 ⁴
LED FWHM / FWTM Efficiency Peak intensity	9.4° / 20.0° 91 % 19.1 cd/lm	99 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	9.4° / 20.0° 91 % 19.1 cd/lm 1	99 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	9.4° / 20.0° 91 % 19.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	9.4° / 20.0° 91 % 19.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	9.4° / 20.0° 91 % 19.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	9.4° / 20.0° 91 % 19.1 cd/lm 1	95° 95° 96° 95° 96° 95° 96° 95° 96° 96° 96° 96° 96° 96° 96° 96° 96°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.4° / 20.0° 91 % 19.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.4° / 20.0° 91 % 19.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.4° / 20.0° 91 % 19.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.4° / 20.0° 91 % 19.1 cd/lm 1 White OSLON SSL 150	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OPLO Semiconductors LED FWHM / FWTM	9.4° / 20.0° 91 % 19.1 cd/lm 1 White OSLON SSL 150 10.0° / 19.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.4° / 20.0° 91 % 19.1 cd/lm 1 White OSLON SSL 150 10.0° / 19.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	9.4° / 20.0° 91 % 19.1 cd/lm 1 White OSLON SSL 150 10.0° / 19.0° 93 % 24.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.4° / 20.0° 91 % 19.1 cd/lm 1 White OSLON SSL 150 10.0° / 19.0° 93 % 24.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.4° / 20.0° 91 % 19.1 cd/lm 1 White OSLON SSL 150 10.0° / 19.0° 93 % 24.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.4° / 20.0° 91 % 19.1 cd/lm 1 White OSLON SSL 150 10.0° / 19.0° 93 % 24.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.4° / 20.0° 91 % 19.1 cd/lm 1 White OSLON SSL 150 10.0° / 19.0° 93 % 24.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.4° / 20.0° 91 % 19.1 cd/lm 1 White OSLON SSL 150 10.0° / 19.0° 93 % 24.5 cd/lm 1	



OSRAM Opto Semiconductors		90* 90*
Opto Semiconductors	OSLON SSL 80	
FWHM / FWTM	8.3° / 17.0°	75. 200
Efficiency	92 %	
Peak intensity	30.5 cd/lm	60°
LEDs/each optic	1	
Light colour	White	
Required components:		
		30° 30°
		30° 330000 30° 15° 0° 15°
OSRAM Opto Semiconductors		30* A 90*
LED	SFH 4715AS	
FWHM / FWTM	11.0° / 24.0°	200 Ze.
Efficiency	92 %	50°
Peak intensity	15.8 cd/lm	6400 P
LEDs/each optic	1	
Light colour	IR	ar 9000 ar
Required components:		
		Land
		30% 10000 30%
		15° 0° 15°
OSRAM Opto Semiconductors		
	SFH 4770S 9.0° / 26.0°	
FWHM / FWTM		
Efficiency	85 % 1	
LEDs/each optic Light colour	ı White	
Required components:	White	
Required components.		
SAMSUN	IG	50° A 50°
LED	LH351A	
FWHM / FWTM	11.0° / 23.0°	2000
Efficiency	91 %	
Peak intensity	15.9 cd/lm	6430
LEDs/each optic	1	
Light colour	White	97 950 65 [*]
Required components:		$ \times \times $
		1200
		364 340
		15° 0° 15°



SAMSUN	IG	90° 90°
LED	LH351B	
FWHM / FWTM	12.0° / 26.0°	75'
Efficiency	92 %	
Peak intensity	13 cd/lm	60°
LEDs/each optic	1	6430
Light colour	White	gr
Required components:		
		\times
		No. 100
		15° 0° 15°
SEOUL SEMICONDUCTOR		90* 90*
LED	Z5M1/Z5M2	
FWHM / FWTM	12.0° / 23.0°	75'
Efficiency	93 %	
Peak intensity	15.2 cd/lm	605 602
LEDs/each optic	1	
Light colour	White	gr gr,
Required components:		
		30* 30*
		15° 0° 15°
-		
		90 ⁴ A 90 ⁴
SEOUL SEMICONDUCTOR	Z5M4	
SEOUL SEMICONDUCTOR	Z5M4 13.0° / 30.0°	35 90 90
seoul semiconductor LED FWHM / FWTM		200 Jon
seoul semiconductor LED FWHM / FWTM Efficiency	13.0° / 30.0° 94 %	604
seoul semiconductor LED FWHM / FWTM	13.0° / 30.0°	80. 200 30 30 30 30 30 30 30 30 30 30 30 30 3
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	13.0° / 30.0° 94 % 11.1 cd/lm	5. 61 93 93 93 93 93 93 93 93 93 93 93 93 93
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	13.0° / 30.0° 94 % 11.1 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 30.0° 94 % 11.1 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 30.0° 94 % 11.1 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 30.0° 94 % 11.1 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	13.0° / 30.0° 94 % 11.1 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 30.0° 94 % 11.1 cd/lm 1	
SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	13.0° / 30.0° 94 % 11.1 cd/lm 1	91 ⁻ 91 ² 91 ⁻ 91 ² 91 ⁻ 91 ² 91 ⁻ 91 ² 91 ⁻ 91 ²
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR	13.0° / 30.0° 94 % 11.1 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SECOUL SEMICONDUCTOR LED	13.0° / 30.0° 94 % 11.1 cd/lm 1 White	91 ⁻ 91 ² 91 ⁻ 91 ² 91 ⁻ 91 ² 91 ⁻ 91 ² 91 ⁻ 91 ²
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	13.0° / 30.0° 94 % 11.1 cd/lm 1 White Z5P 10.0° / 22.0°	91 ⁻ 91 ² 91 ⁻ 91 ² 91 ⁻ 91 ² 91 ⁻ 91 ² 91 ⁻ 91 ²
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	13.0° / 30.0° 94 % 11.1 cd/lm 1 White Z5P 10.0° / 22.0° 92 % 17.5 cd/lm 1	90 90 90 90 90 90 90 90 90 90 90 90 90 9
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 30.0° 94 % 11.1 cd/lm 1 White Z5P 10.0° / 22.0° 92 % 17.5 cd/lm	91 ⁻ 91 ² 91 ⁻ 91 ² 91 ⁻ 91 ² 91 ⁻ 91 ² 91 ⁻ 91 ²
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	13.0° / 30.0° 94 % 11.1 cd/lm 1 White Z5P 10.0° / 22.0° 92 % 17.5 cd/lm 1	97 - 000 - 07 99 - 000 - 07 99 - 000 - 07 99 - 000 - 07 99 - 07 90 - 0
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 30.0° 94 % 11.1 cd/lm 1 White Z5P 10.0° / 22.0° 92 % 17.5 cd/lm 1	97 - 000 - 07 99 - 000 - 07 99 - 000 - 07 99 - 000 - 07 99 - 07 90 - 0
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 30.0° 94 % 11.1 cd/lm 1 White Z5P 10.0° / 22.0° 92 % 17.5 cd/lm 1	97 99 99 99 99 99 99 90 90 90 90 90 90 90
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	13.0° / 30.0° 94 % 11.1 cd/lm 1 White Z5P 10.0° / 22.0° 92 % 17.5 cd/lm 1	97 99 99 99 99 99 99 90 90 90 90 90 90 90



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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