

PRODUCT DATASHEET F13853_FLORENCE-Z90

FLORENCE-Z90

~90° wide beam. Ideal for retail and industrial lighting. Can be used for general office lighting with shade.

SPECIFICATION:

Dimensions	61.0 x 286.0 mm
Height	8.5 mm
Fastening	screw
ROHS compliant	yes 🛈

MATERIALS:

Co FLC

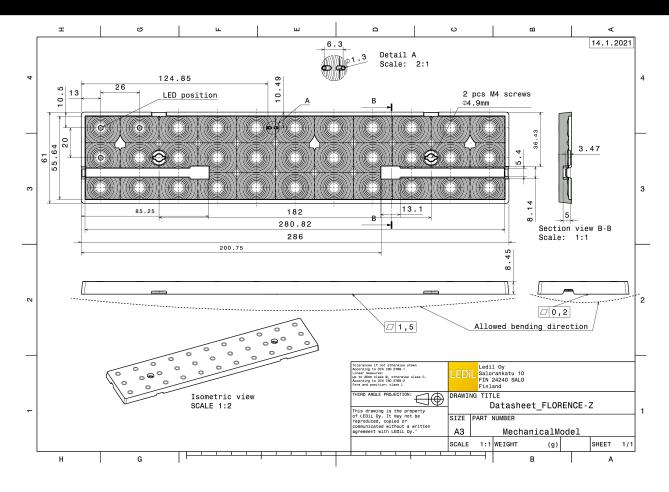


omponent	Туре	Material	Colour	Finish
LORENCE-Z90	Linear lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13853_FLORENCE-Z90	72	18	6	7.8
» Box size: 398 x 298 x 140 mm				

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



		84 84 84 84 84 84 84 84 84 84 84 84 84 8
LED	XH-B/G	
FWHM / FWTM	95.0° / 140.0°	71 72
Efficiency	82 %	
Peak intensity	0.4 cd/lm	er de la constante de la consta
LEDs/each optic	1	
Light colour	White	
Required compone		
		30° 12° 12° 23° 30°
FRANK		90* 90*
LED	LED-Modul 280 x 55 mm 1B	7'
FWHM / FWTM	90.0° / 134.0 + 144.0°	
Efficiency	92 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		30*
FRANK		9°
LED	LED-Modul 280 x 55 mm 1F	
FWHM / FWTM	90.0° / 133.0 + 144.0°	7. 7.
Efficiency	92 %	
Peak intensity	0.4 cd/lm	60*
LEDs/each optic	1	
Light colour	White	ar
Required compone		200
		125 02 225
FRANK		90°
LED	LED-Modul 280 x 55 mm 2F	75 75
FWHM / FWTM	90.0° / 133.0 + 144.0°	
Efficiency	92 %	60°
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	a.
Required compone	ents:	
		40
		30* 20*
1		13° 0° 15°



	FDC	
CUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON 3030 2D (Square LES) 88.0 + 87.0° / 133.0 + 153.0° 91 % 0.4 cd/lm 1 White	
		90 ⁺
LED FWHM / FWTM	LUXEON 3535 2D 92.0° / 135.0°	75
Efficiency	87 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	200
Light colour	White	er an
Required compone	nts:	
		40
	EDS	10 ⁵ 0 ¹ 15 ⁵
LED	LUXEON 3535L HE	71
FWHM / FWTM	92.0° / 139.0°	100
Efficiency	93 %	601 V 60
Peak intensity	0.4 cd/lm	200
LEDs/each optic	1	
Light colour Required compone	White	
UMIL	EDS	90° 90°
LED	LUXEON XR-3535L (L202 - xxxx033C30001)	75* 77
FWHM / FWTM	91.0° / 134.0°	100
Efficiency	93 %	en en
Peak intensity	0.4 cd/lm	20
LEDs/each optic	1	
Light colour Required compone	White	
Required compone	1113.	
		40
		15° 0° 35° 3°



C LUM		9 ¹
-		80 80
LED FWHM / FWTM	MP-2016 90.0° / 140.0°	72 72
Efficiency	90.0*7 140.0* 91 %	
Peak intensity	0.4 cd/lm	60 ¹
LEDs/each optic	1	
Light colour	White	gr a
Required compone		
		30° - 30° - 30°
ØNICHI/	N Contraction of the second se	94
LED	NF2x757D	
FWHM / FWTM	92.0° / 134.0°	37
Efficiency	90 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		40
		30 - 30 - 30
ØNICHI/	N Contraction of the second se	92
LED	NFSW757H	
FWHM / FWTM	90.0 + 83.0° / 122.0 + 131.0°	79
Efficiency	87 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C14646_FLORE	ENCE-3R-SHD-WHT	
		40
		30° 0° 33°
ØNICHI/		94 ⁴ 99 ⁴
LED	NFSW757H	7'
FWHM / FWTM	91.0 + 90.0° / 134.0 + 145.0°	
Efficiency	92 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	9°
Required compone	ents:	
		40
		20 25 00 25

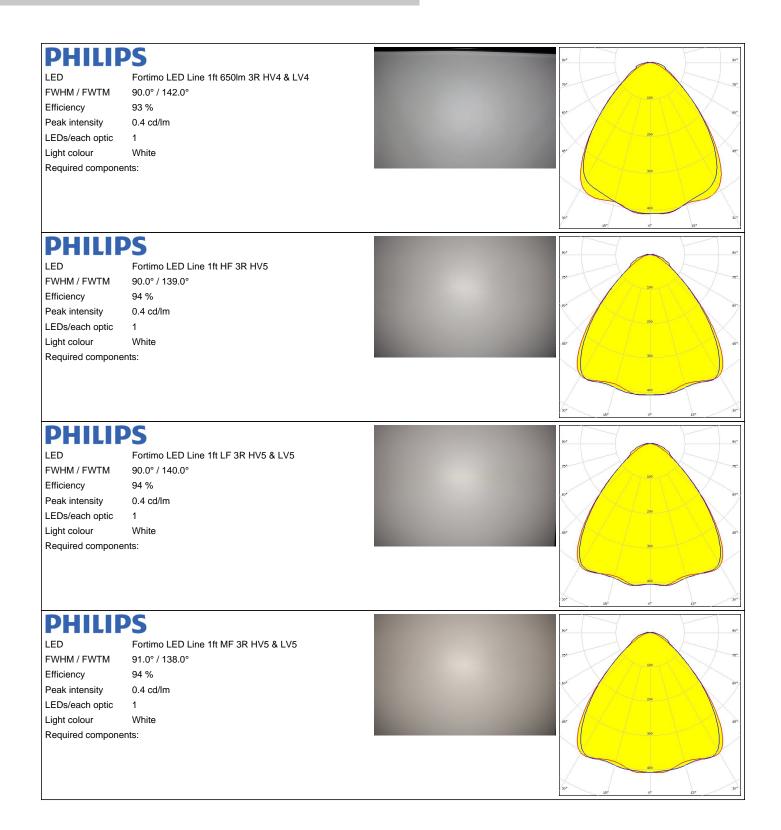


COSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-BAR-G3 1100 280x55 90.0° / 140.0° 92 % 0.4 cd/lm 1 White	30, 60, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2
OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PLG2-BAR-1100-xxx-280x55-DC 92.0° / 138.0° 92 % 0.4 cd/lm 1 White	25° 6° 15° 90° 90° 90° 90° 90° 90° 90° 90
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris E5 92.0° / 135.0° 88 % 0.4 cd/lm 1 White ints:	99° 99° 99° 75° 70° 70° 69° 69° 69° 69° 69° 69° 75° 70° 70° 75° 70° 70° 75° 70° 70° 75° 70° 70°
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris S2 95.0° / 165.0° 90 % 0.4 cd/lm 1 White ints:	



OSRAM Opto Semiconductors		2 ³
LED	Duris S5 (Single chip)	
FWHM / FWTM	91.0° / 133.0°	77
Efficiency	88 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	er de la companya de
Required compone	ents:	
		400
		22 ⁴ 0 ⁴ 22 ⁴
OSRAM Opto Semiconductors		99°
LED	OSCONIQ P 2226	
FWHM / FWTM	94.0° / 140.0°	
Efficiency	83 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		30, 21,
OSRAM		25% 4% 25'
Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	91.0° / 145.0°	
Efficiency	93 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		400
		- 20° - 20° - 20°
PHILIP	20	
		90°
	Fortimo LED Line VO 1ft MF 3R HV5	21 21
FWHM / FWTM	90.0° / 130.0 + 146.0°	
Efficiency	94 %	er bis
Peak intensity	0.4 cd/lm	
LEDs/each optic	1 White	
Light colour	White	σ,
Required compone	ents:	
		44
		30" 22 ⁵ 0 ⁶ 25" 30"







ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM231 A/B 91.0° / 134.0° 88 % 0.4 cd/lm 1 White		90 ⁴ 90 ⁴ 90 ⁴ 90 ⁵ 90 ⁶ 90
Required compone	ents:		200 200 200 207 0° 207 207
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LM561B 86.0° / 133.0° 85 % 0.4 cd/lm 1 White ents:		200 200 200 200 200 200 200 200 200 200
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LM561B Plus 92.0° / 141.0° 93 % 0.4 cd/lm 1 White		90° 90° 73° 500 90° 60° 90° 60° 90° 60° 90° 60° 90° 60°
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LM561C 92.0° / 140.0° 93 % 0.4 cd/lm 1 White		



SAMSI	UNG	50 ⁴	9
LED	LT-R286A		
FWHM / FWTM	93.0° / 140.0°	70	\square
Efficiency	93 %		$^{\sim}$
Peak intensity	0.4 cd/lm		N.
LEDs/each optic	1		\mathbb{N}
Light colour	White	₫ ⁺	N
Required compone	ents:		
			/
		30*	
SEOUL		157 0° 157	
SEOUL SEMICONDUCTOR		9°	5
LED	SEOUL 3030	77	\rightarrow
FWHM / FWTM	91.0° / 138.0°	20 July 20 Jul	
Efficiency	91 %		
Peak intensity	0.4 cd/lm		
LEDs/each optic	1		X
Light colour	White		<u> </u>
Required compone	ents:		
			K
		40	
		30° (° 135°	3
SEOUL		30'	9
SEOUL SEMICONDUCTOR			
	SEOUL 5630C		
LED	SEOUL 5630C 87.0 + 81.0° / 116.0 + 103.0°	79	+-
LED FWHM / FWTM	87.0 + 81.0° / 116.0 + 103.0°	75	Ż
LED FWHM / FWTM Efficiency	87.0 + 81.0° / 116.0 + 103.0° 74 %	75 - 200 -	Ł
LED FWHM / FWTM Efficiency Peak intensity	87.0 + 81.0° / 116.0 + 103.0°	200 - 200 -	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm	99 69 69 50 50 50 50	X X
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White	99 60 57 50 50	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14453_FLORE	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14453_FLORE	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14453_FLORE	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14453_FLORE	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents: ENCE-3R-SHD-GR		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14453_FLORE	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents: ENCE-3R-SHD-GR SEOUL 5630C		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14453_FLORE seous semiconductor LED FWHM / FWTM Efficiency	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents: ENCE-3R-SHD-GR SEOUL 5630C 87.0 + 81.0° / 115.0 + 101.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14453_FLORE	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents: ENCE-3R-SHD-GR SEOUL 5630C 87.0 + 81.0° / 115.0 + 101.0° 71 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14453_FLORE seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents: ENCE-3R-SHD-GR SEOUL 5630C 87.0 + 81.0° / 115.0 + 101.0° 71 % 0.4 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14453_FLORE	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents: ENCE-3R-SHD-GR SEOUL 5630C 87.0 + 81.0° / 115.0 + 101.0° 71 % 0.4 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14453_FLORE stout staticonductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents: ENCE-3R-SHD-GR SEOUL 5630C 87.0 + 81.0° / 115.0 + 101.0° 71 % 0.4 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14453_FLORE SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents: ENCE-3R-SHD-GR SEOUL 5630C 87.0 + 81.0° / 115.0 + 101.0° 71 % 0.4 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14453_FLORE	87.0 + 81.0° / 116.0 + 103.0° 74 % 0.4 cd/lm 1 White ents: ENCE-3R-SHD-GR SEOUL 5630C 87.0 + 81.0° / 115.0 + 101.0° 71 % 0.4 cd/lm 1 White ents:		



SEOUL		
SEOUL SEMICONDUCTOR		50°
LED	SEOUL 5630C	79 79
FWHM / FWTM	89.0 + 83.0° / 121.0 + 123.0°	
Efficiency	86 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	an are an area area area area area area
Light colour	White	× 1
Required compone		
C14646_FLORE	ENCE-3R-SHD-WHT	
		30° 233 31°
SEOUL		90°
SEOUL SEMICONDUCTOR	SEOUL 5630C	
FWHM / FWTM	90.0° / 136.0°	79 79
Efficiency	91 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	g. A start and a start and a start a st
Required compone		
		40
		30° 0° 30°
SEOUL SEOUL SEMICONDUCTOR		50° 50°
LED	SEOUL DC 3030	
FWHM / FWTM	90.0° / 140.0°	77
Efficiency	93 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	g
Required compone	ents:	
TRIDON		90°
LED	LLE G2 55x280mm 2000lm	75 75
FWHM / FWTM	91.0° / 135.0°	
Efficiency	93 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	۳ - Contraction
Required compone	ents:	300 300
		20*
		10 ⁻¹ 0 ¹ 15 ⁻⁰



LED	J Series 5050 Round LES	90* 90*
FWHM / FWTM	88.0° / 120.0°	73* 77*
Efficiency	91 %	100
Peak intensity	0.5 cd/lm	-00 F00
LEDs/each optic	1	200
Light colour	White	
Required components:	white	45°
Required components.		
		400
		$X \longrightarrow X$
		30* <u>15</u> <u>96</u> <u>15</u> * <u>30</u> *
		90* 90*
LED	J Series 5050C 6V E Class	
FWHM / FWTM	87.0° / 122.0°	75* 75*
Efficiency	91 %	
Peak intensity	0.5 cd/lm	60°
LEDs/each optic	1	
Light colour	White	#*
Required components:		
		400
		30. 30.
		15° 0° 15°
)S	<u></u>
		99 ² 9 ³ 99 ²
LED	LUXEON 5050 Round LES	205 [°] 0 ⁴ 25 [°]
LED FWHM / FWTM	LUXEON 5050 Round LES 90.0° / 120.0°	25 ⁵ 0 ⁴ 15 ⁴
LED FWHM / FWTM Efficiency	LUXEON 5050 Round LES 90.0° / 120.0° 91 %	25 ⁴ 0 ⁴ 25 ⁴
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES 90.0° / 120.0°	207 0 ⁴ 127 997 209 604 209
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm	20 ¹ 0 ⁴ 12 ⁵
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1	200 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1	200 40 ⁴ 40 ⁴ 40 ⁴ 200 40 ⁴ 40 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1	200 40 40 40 40 40 40 40 40 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1	123 04 124 124 124 124 125 124 124 125 124 124
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1 White NF2x757G	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1 White NF2x757G 90.0° / 146.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1 White NF2x757G 90.0° / 146.0° 80 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1 White NF2x757G 90.0° / 146.0° 80 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1 White NF2x757G 90.0° / 146.0° 80 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1 White NF2x757G 90.0° / 146.0° 80 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1 White NF2x757G 90.0° / 146.0° 80 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 90.0° / 120.0° 91 % 0.5 cd/lm 1 White NF2x757G 90.0° / 146.0° 80 % 0.4 cd/lm 1	



MICHIΛ		90* 90*
LED	NFMW48xA	
FWHM / FWTM	89.0° / 130.0°	73°
Efficiency	92 %	
Peak intensity	0.4 cd/lm	50* 60
LEDs/each optic	1	200
Light colour	White	45*
Required components:		
		30* 38*
		10 ³ 0 ³ 10 ³
MICHIΛ		90* <u>90</u> *
LED	NFSx757G	
FWHM / FWTM	86.0 + 90.0° / 128.0 + 122.0°	$ \lambda $
Efficiency	92 %	50 ⁴ 604
Peak intensity	0.5 cd/lm	200
LEDs/each optic	2	
Light colour	White	45° 43°
Required components:		
		410
		30* 15 ⁵ 0* 10* 30*
ΜΝΙCΗΙΛ		90 ⁴ 90 ⁴
LED	NVSxE21A	
FWHM / FWTM	90.0° / 163.0°	73' 75'
Efficiency		
LINGICIUS	94 %	-100
	94 % 0.4 cd/lm	500
Peak intensity		200 B2*
	0.4 cd/lm	200
Peak intensity LEDs/each optic	0.4 cd/lm 1	500
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1	0,* 0* 0* 57 00 0* 0 00 0*
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White	55° 6° 55° 6°
Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED	0.4 cd/lm 1 White Duris E 2835	200 200 200 200 200 200 200 200
Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	0.4 cd/lm 1 White Duris E 2835 85.0° / 122.0°	20 ⁴ 20 ⁵ 20 ⁴ 20 ⁴
Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	0.4 cd/lm 1 White Duris E 2835 85.0° / 122.0° 87 %	20 ⁴ 20 ⁵ 20 ⁴ 20 ⁴
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White Duris E 2835 85.0° / 122.0° 87 % 0.5 cd/lm	20 ⁴ 20 ⁵ 20 ⁴ 20 ⁴
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/m 1 White Duris E 2835 85.0° / 122.0° 87 % 0.5 cd/m 1	80°
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White Duris E 2835 85.0° / 122.0° 87 % 0.5 cd/lm	80°
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White Duris E 2835 85.0° / 122.0° 87 % 0.5 cd/lm 1	90°
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White Duris E 2835 85.0° / 122.0° 87 % 0.5 cd/lm 1	90°
Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White Duris E 2835 85.0° / 122.0° 87 % 0.5 cd/lm 1	20 ⁴ 20 ⁵ 20 ⁴ 20 ⁴



OCDAM		
OSRAM Opto Semiconductors		90* 90*
LED	Duris E 2835	
FWHM / FWTM	86.0 + 87.0° / 120.0 + 126.0°	73* 100 75
Efficiency	92 %	
Peak intensity	0.4 cd/lm	50 ⁴
LEDs/each optic	2	
Light colour	White	45'
Required components:		
		400
0000444		30 12 ⁵ 500 15° 30
OSRAM Opto Semiconductors		90° 90°
LED	Duris S8	75*
FWHM / FWTM	89.0° / 121.0°	
Efficiency	91 %	60°
Peak intensity	0.5 cd/lm	200
LEDs/each optic	1	
Light colour	White	er er
Required components:		
		400
		364 364
OSRAM		
Opto Semiconductors		90* 90*
LED	OSCONIQ C 2424	
		780
FWHM / FWTM	88.0° / 114.0°	75%
Efficiency	92 %	65
Efficiency Peak intensity	92 % 0.5 cd/lm	29° 72'
Efficiency Peak intensity LEDs/each optic	92 % 0.5 cd/lm 1	50 ⁴ 70 50 ⁴ 60 ⁴
Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.5 cd/lm	200 (67) 67 67
Efficiency Peak intensity LEDs/each optic	92 % 0.5 cd/lm 1	77 ³ 72 ⁴ 55 ⁴ 200 66 ⁴ 57 ⁴ 40
Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.5 cd/lm 1	23° 72°
Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.5 cd/lm 1	23° 72'
Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.5 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	92 % 0.5 cd/lm 1 White	23° 40' 230 40' 230 40' 40' 40' 40' 40' 40' 40' 40' 40' 40
Efficiency Peak intensity LEDs/each optic Light colour Required components:	92 % 0.5 cd/lm 1 White	30* 30 30* 50* 0* 0* 60* 0* 0* 60* 0* 0* 60* 0* 0* 60* 0* 0*
Efficiency Peak intensity LEDs/each optic Light colour Required components:	92 % 0.5 cd/lm 1 White	32% 30% 60% 200 60% 60% 60% 60% 60% 60% 60% 60% 60% 60% 60% 60% 75% 60% 75% 60% 75% 70%
Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM	92 % 0.5 cd/lm 1 White G LM28xB Series 90.0° / 120.0°	
Efficiency Peak intensity LED/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency	92 % 0.5 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity	92 % 0.5 cd/lm 1 White C LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	92 % 0.5 cd/lm 1 White C LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.5 cd/lm 1 White C LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	92 % 0.5 cd/lm 1 White C LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.5 cd/lm 1 White C LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.5 cd/lm 1 White C LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1	



SAMSUN	IG	90* 90*
LED	LM301B	
FWHM / FWTM	88.0° / 119.0°	75°
Efficiency	92 %	
Peak intensity	0.5 cd/lm	50 ⁴ 50 ⁴
LEDs/each optic	1	
Light colour	White	45*
Required components:		
		30° 15° 30°
SAMSUN	IG	50°
LED	LM301B	
EED FWHM / FWTM	88.0° / 122.0°	73.
Efficiency	91 %	
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	2	
Light colour	- White	454
Required components:		
		400
		30° 31°
		15° 0° 15°
SAMSUN	IG	90° 90°
LED	LM302Z plus	
FWHM / FWTM	87.0° / 122.0°	100
Efficiency	91 %	60° 60°
Peak intensity	0.5 cd/lm	200
LEDs/each optic	2	
Light colour	White	451 45*
Required components:		
		400
		354 35 00 154 36
SAMSUN	IG	
LED	LM302Z plus	
FWHM / FWTM	87.0° / 118.0°	730 770
Efficiency	92 %	
Peak intensity	0.5 cd/lm	50* 50*
LEDs/each optic	1	
	vvnite	
Light colour	White	
	vvnite	
Light colour	vvnite	
Light colour	vvnite	



SEOUL		
SEOUL SEMICONDUCTOR	SEOUL 5630D	90° 9
FWHM / FWTM	83.0° / 127.0°	70
Efficiency	84 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
SEOUL SEMICONDUCTOR		80
LED	SEOUL DC 3030C	
FWHM / FWTM	89.0° / 120.0°	70
Efficiency	94 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	er 10
Required components:		
TRIDONI	C	90°
LED	LLE G2 55x280mm 2000lm	
FWHM / FWTM	85.0 + 81.0° / 108.0 + 97.0°	
Efficiency	77 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C14592_FLORENC	E-3R-SHD-BLK	



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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