

FLORENCE-Z90

 $\sim\!90^\circ$ wide beam. Ideal for retail and industrial lighting. Can be used for general office lighting with shade.

TECHNICAL SPECIFICATIONS:

Dimensions

Height

61.0 x 286.0 mm 8.5 mm

FasteningscrewROHS compliantyes ⁽¹⁾

MATERIAL SPECIFICATIONS:

Component FLORENCE-Z90 **Type** Linear lens



Material	Colour	Finish
PMMA	clear	

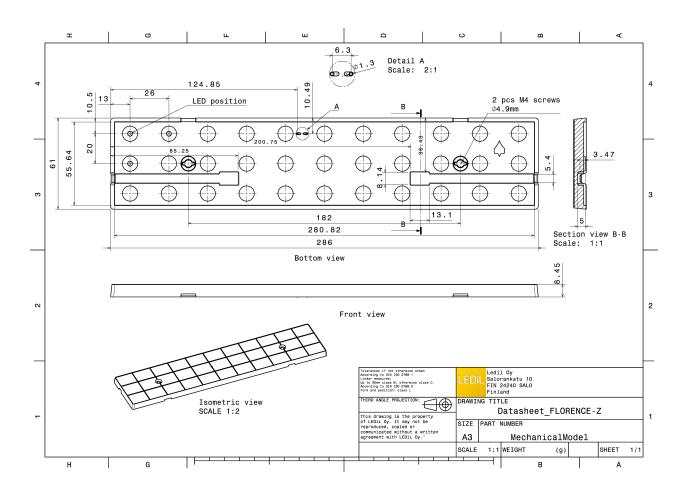
ORDERING INFORMATION:

Component

F13853_FLORENCE-Z90

» Box size: 398 x 298 x 140 mm

Qty in box	MOQ	MPQ	Box weight (kg)
72	18	6	7.8





LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	200
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	XH-B/G 95.0° 82 % 0.4 cd/lm 1 White	99° 72° 60° 50° 50° 50° 50° 50° 50° 50° 5
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LG 5630 93.0° 87 % 0.4 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
LG Innot LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14453_FLOR	LG 6030 83.0° 72 % 0.4 cd/lm 1 White	200 - 200 - 20 200 - 20



🕒 LG Innot	ek	90* 90*
LED	LG 6030	341 ·····
FWHM	92.0°	100
Efficiency	88 %	60°
Peak intensity	0.4 cd/lm	
LEDs/each optic		200
Light colour	White	9° V
Required compor	ients:	× · · · · · · · · · · · · · · · · · · ·
		400
		30° 25° 0° 35°
🕒 LG Innot	ek	90* 90*
LED	LG 6030	
FWHM	83.0°	75*
Efficiency	70 %	60 ⁶ 60 ⁶
Peak intensity	0.4 cd/lm	
LEDs/each optic		210
Light colour	White	454 454
Required compor		
C14592_FLOR	ENCE-3R-SHD-BLK	
		30°
🕒 LG Innot	ek	90° 90°
LED	LG 6030	
FWHM	85.0°	100
Efficiency	84 %	60* 60*
Peak intensity	0.4 cd/lm	
LEDs/each optic		
Light colour	White	9° (
Required compor		ו
C14646_FLOR	ENCE-3R-SHD-WHT	
		400
		30 ⁶ 25 ⁵ 0 ⁴ 25 ⁵ 36 ⁵
	EDS	90* 90*
LED	LUXEON 3030 2D (Square LES)	
FWHM	88.0 + 87.0°	73*
Efficiency	91 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	200
Light colour	White	97°
Required compor	ients:	
		400
		30.
		15" 0° 15°



LUMIL LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	LUXEON 3535 2D 92.0° 87 % 0.4 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
WHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LUXEON 3535L HE 92.0° 93 % 0.4 cd/lm 1 White	
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LUXEON XR-3535L (L202 - xxxx033C30001) 91.0° 93 % 0.4 cd/lm 1 White	91 ⁴ 97 77 61 61 61 70 70 70 60 60 60 70 60 70
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	MP-2016 90.0° 91 % 0.4 cd/lm 1 White	20° 20° 20° 20° 20° 20° 20° 20°



Μ ΝΙCΗΙΛ		30* 30*
Efficiency	White	200 200 200 200 200 200 200 200
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	NFSW757H 90.0 + 83.0° 87 % 0.4 cd/lm 1 White	20° - 200 - 12° - 20° 20° - 200 - 20° 20° - 200 - 20° 20° - 200 - 20° 20° - 200 - 20° 20° - 20° - 20° - 20° - 20° 20° - 20° - 20° - 20° - 20° 20° - 20° - 20° - 20° - 20° - 20° - 20° - 20° 20° -
FWHM Efficiency Peak intensity LEDs/each optic	NFSW757H 91.0 + 90.0° 92 % 0.4 cd/lm 1 White	
OSRAM LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	White	



OSRAM		30°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	PLG2-BAR-1100-xxx-280x55-DC 92.0° 92 % 0.4 cd/lm 1 White	
OSRAM Opto Semiconductors		90°
Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	31 ² 00 12 ²
OSRAM Opto Semiconductors		art
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	29 60 60 67 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
OSRAM		135 [°] 0 ^h 135 [°]
Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	90° 9 77° 500 90° 9 70° 500 80° 9 80° 9 90 90 90 90 90 90 90 90 90 90 90 90 90



OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	94 94 71 250 64 250 75 250 76 250 78 250 79 250 70 250
OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White ents:	200 e. 200 e. 200 00 00 00 00 00 00 00 00 0
DHILLP LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 90.0° 93 % 0.4 cd/lm 1 White	94° 94° 94° 94°
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LM231 A/B 91.0° 88 % 0.4 cd/lm 1 White	2, 2, 2, 2, 2, 2, 100 2,00 2



PHOTOMETRIC DATA (MEASURED):

SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LM561B 86.0° 85 % 0.4 cd/lm 1 White	200 00 00 00 00 00 00 00 00 00
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LM561B Plus 92.0° 93 % 0.4 cd/lm 1 White	
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LM561C 92.0° 93 % 0.4 cd/lm 1 White	200 60 60 60 60 700 60 60 700 60 60 60 60 60 60 60 60 60 60 60 60 6
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LT-R286A 93.0° 93 % 0.4 cd/lm 1 White	200 200 200 200 200 200 200 200

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stoul structor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
secoul semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	90° 90° 90° 90° 90° 90° 90° 90°
stout. semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14646_FLOR	White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
seoul semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14592_FLOR	White	200 200 200 200 200 200 200 200



seoul semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14453_FLOR	White	20° 77° 60° 60° 70° 70° 70° 70° 70° 70° 70° 70° 70° 7
seoul semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LLE G2 55x280mm 2000lm 91.0° 93 % 0.4 cd/lm 1 White	20° 20° 20° 20° 20° 20° 20° 40° 20° 40° 40° 40° 40° 40° 40° 40° 4



PHOTOMETRIC DATA (SIMULATED):

LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	LG 7030 91.0° % 0.3 cd/lm 1 White	
		<u>15²</u> <u>45⁰</u> <u>15⁴</u>
CUMILER LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON 5050 Round LES 90.0° 91 % 0.5 cd/lm 1 White	92* 92* 73* 75* 64* 65* 66* 66* 66* 66* 66* 66* 66
Mauciua		
NICHIA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	NF2x757G 90.0° 80 % 0.4 cd/lm 1 White Is:	90° 73° 64° 65° 73° 73° 73° 73° 73° 73° 73° 73° 73° 73
WICHIA LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	NFMW48xA 89.0° 92 % 0.4 cd/lm 1 White	

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IED NFSx757G FWHM 86.0 + 90.0°	90*
LED NFSx757G FWHM 86.0 + 90.0°	
FWHM 86.0 + 90.0°	
	75
Efficiency 92 %	
Peak intensity 0.5 cd/lm	60*
LEDs/each optic 2	
Light colour White	
Required components:	S.
/20* 0	30* 30*
ØNICHI∧ ∞	90*
LED NVSxE21A	
FWHM 90.0°	73"
Efficiency 94 %	
Peak intensity 0.4 cd/lm	60*
LEDs/each optic 1	
Light colour White	45*
Required components:	
Required components:	0
Required components:	
Required components:	land l
Required components:	2 254
	2 12'
OSRAM Opto Semiconductors	
OSRAM Opto Semiconductors LED Duris E 2835	
OSRAM Opto Semiconductors LED Duris E 2835 FWHM 85.0°	94
OSRAM Opto Semiconductors LED Duris E 2835 FWHM 85.0° Efficiency 87 %	
OSRAM Opto Semiconductors LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm	
OSRAM Opto Semiconductors IED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1	
OSRAM Outo Semiconductors LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
OSRAM Opto Semiconductors IED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
OSRAM Outo Semiconductors LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	
OSRAM Outo Semiconductors LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	
OSRAM Outo Semiconductors LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	
OSRAM Vis Semendaters LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LED/each optic 1 Light colour White Required components: Image: Colour of the second	
OSRAM Objects LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Construction of the second of the	
OSRAM Cube Beneficienter LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Colour State St	
OSRAM LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Constraint of the second consecond consecond constraint of the second constraint o	
OSRAM Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: Image: Component State OSRAM Duris E 2835 Image: Component State FWHM 86.0 + 87.0° Efficiency 92 %	
OSRAM Outris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Constraint of the second o	
OSRAM LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: Image: state st	
OSRAM LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: Image: square display="block"/> multiplay="block"/> multintensity LEDDuris E 283	
OSRAM Outsis E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Colour of the second secon	
OSRAM LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: Image: square	
COSRAM LED Duris E 2835 FWHM 85.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Component State Sta	



OSRAM Opto Semiconductors		
	Duris S8	90° 90°
LED FWHM	83.0°	730 750
		-100
Efficiency	91 %	*68
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 300
Required componer	nts:	
		30* 30*
OSDAM		13 ³ 980 13*
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ C 2424	
FWHM	88.0°	750
Efficiency	92 %	
Peak intensity	0.5 cd/lm	.60* 60*
LEDs/each optic	1	
Light colour	White	45*
Required componer		
		400
		30° 13 ⁵ 0° 15° 30°
SAMSU	NG	
		90* 90*
LED	LM28xB Series	72%
FWHM	90.0°	
Efficiency	93 %	-00-
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	451
Required componer	nts:	
		400
		ar ar
0.		13 ⁵ 0 ⁶ 13 ⁵
SAMSU	NG	90* 90*
LED	LM301B	
FWHM	88.0°	73.
Efficiency	91 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	2	
Light colour	– White	97°
Required componer		
		400
		36° 36° 36°



SAMSUI	VG	
LED	LM301B	90° 90°
FWHM	88.0°	75 75
Efficiency	92 %	
Peak intensity	0.5 cd/lm	60 ⁴ 69
LEDs/each optic	1	
Light colour	White	
Required componen		
i toqui ou componen		
		30 ⁴ 13 ⁵ 0 ⁴ 13 ⁴ 30 ⁴
SAMSUI	NG	<u>80</u> *
LED	LM302Z plus	
FWHM	87.0°	25 200
Efficiency	91 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	2	
Light colour	White	a,
Required componen	its:	30
		40
		300 360
SAMSUI		
		90° 90°
LED	LM302Z plus	
FWHM	87.0°	
Efficiency	92 %	50*
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	67
Required componen	its:	
		50
		30 ⁴ 12 ⁵ 0 ⁴ 10 ⁴
SEOUL		
SEOUL SEMICONDUCTOR		90° 90°
	SEOUL 5630D	70
FWHM	83.0°	500
Efficiency	84 %	er er
Peak intensity	0.5 cd/lm	
LEDs/each optic	1 White	
Light colour Required componen		45° // 340
Required componen	115.	



seous semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer		
TRIDONIC LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer C14592_FLOREN	LLE G2 55x280mm 2000lm 85.0 + 81.0° 77 % 0.5 cd/lm 1 White	



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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