

# PRODUCT DATASHEET F14486\_FLORENCE-Z30

# **FLORENCE-Z30**

~30° medium beam

## **TECHNICAL SPECIFICATIONS:**

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



## **MATERIAL SPECIFICATIONS:**

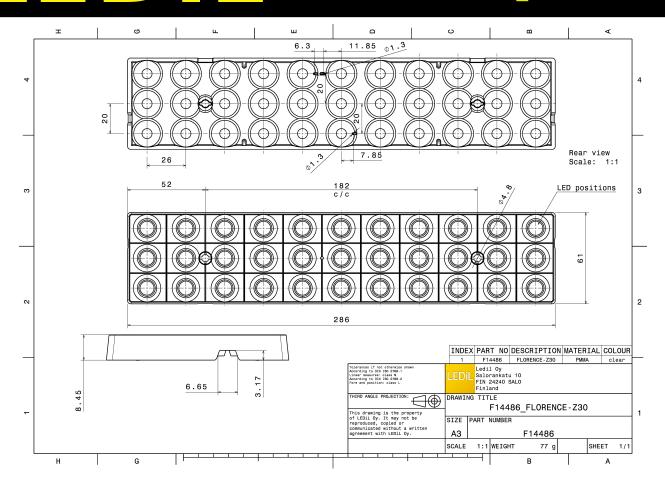
**Component** FLORENCE-Z30 **Type** Linear lens

Material	Colour	Finish
PMMA	clear	

### **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F14486_FLORENCE-Z30	72	72	6	7.1
» Box size: 398 x 298 x 140 mm				

# PRODUCT DATASHEET F14486\_FLORENCE-Z30



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



	EDS	90° 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON 3030 2D (Round LES) 26.0° / 56.0° 87 % 2.6 cd/lm 1 White	м <sup>2</sup> 12, 0, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12
	.EDS	90° 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON 3535L HE 29.0° / 63.0° 93 % 2.4 cd/lm 1 White ents:	27
	EDS	90* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-3535L (L202 - xxxx033C30001) 27.0° / 63.0° 93 % 2.4 cd/lm 1 White	27 27 et 00 e g. 27
Required compone		34° II 9
	INUS	90* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	MP-2016 24.0° / 56.0° 92 % 3 cd/lm 1 White	77 - 77 est - 100 est - 10
		400 120 <sup>1</sup> 120 <sup>1</sup> 120 120



ØNICHI/		50 <sup>4</sup> 50 <sup>5</sup>
LED	NFSW757H	
FWHM / FWTM	29.0° / 64.0°	
Efficiency	94 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required compone		
		30*
ØNICHI/	N Contraction of the second seco	59 <sup>4</sup>
LED	NFSW757H	
FWHM / FWTM	29.0° / 64.0°	
Efficiency	94 %	eg. 000
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gr er
Required compone	ents:	
C14646_FLORI	ENCE-3R-SHD-WHT	
		20*
OSRAN	1	90° - 99'
LED	- PL-BAR-G3 1100 280x55	
FWHM / FWTM	28.0° / 61.0°	
Efficiency	94 %	
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	er
Required compone	ents:	
		ar ar
00044		( 13) of 15'
OSRAN		90 <sup>4</sup> 90 <sup>4</sup>
LED	PLG2-BAR-1100-xxx-280x55-DC	77
FWHM / FWTM	29.0° / 64.0°	
Efficiency	91 %	50 500 F
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	onte:	567
	51115.	
	5HS.	
	лцз.	
	ants.	34* 2200 3*



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OSRAM Opto Semiconductors			90* 90*
LED	Duris E5		
FWHM / FWTM	28.0° / 62.0°		75*
Efficiency	91 %		
Peak intensity	2.4 cd/lm		
LEDs/each optic	1		
Light colour	White		42. 42.
Required componer	nts:		1590
			30*
			15% o <sup>b</sup> 15%
OSRAM Opto Semiconductors			90* 90*
LED	Duris S2	and the second se	
FWHM / FWTM	23.0° / 54.0°		2.
Efficiency	90 %		
Peak intensity	2.8 cd/lm		
LEDs/each optic	1		
Light colour	White		g* / 1000 - e*
Required componer	nts:		
			2000
			300
			13° 0° 15°
PHILIP	S		80° 901
LED	Fortimo LED Line 1ft 650lm 3R HV4 & LV4		94 97 97
LED FWHM / FWTM	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0°		90 <sup>4</sup> 33 500
LED FWHM / FWTM Efficiency	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 %		90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm		60 <sup>1</sup> 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 %		90° 90° 90° 90° 90° 8° 90° 8°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White		64
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White		64
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White		64
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White		64
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White hts:		64
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White hts:		64
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White hts:		200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White hts:		200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSU LED FWHM / FWTM	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White hts:		200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSL LED FWHM / FWTM Efficiency	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White hts: <b>NGG</b> LM561B 28.0° / 62.0° 93 %		200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSU LED FWHM / FWTM	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White hts:		200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSU LED FWHM / FWTM Efficiency Peak intensity	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White hts: <b>NGG</b> LM561B 28.0° / 62.0° 93 % 2.4 cd/lm		22. 20. 20.   30. 20. 20.   30. 20. 20.   30. 20. 20.   30. 20. 20.   30. 20. 20.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White hts:		50 30 30 30 30 30 30 30 30 30 3
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White hts:		22. 00 00   36. 52. 0 30.   90. 70.0 90. 90.   90. 70.0 90. 90.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White hts:		22. 00 00   36. 52. 0 30.   90. 70.0 90. 90.   90. 70.0 90. 90.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo LED Line 1ft 650lm 3R HV4 & LV4 26.0° / 60.0° 94 % 2.7 cd/lm 1 White hts:		22. 00 00   36. 52. 0 30.   90. 70.0 90. 90.   90. 70.0 90. 90.



SAMSI	UNG	50 <sup>4</sup>
LED	LM561B Plus	
FWHM / FWTM	27.0° / 60.0°	
Efficiency	93 %	
Peak intensity	2.6 cd/lm	94 - Pr
LEDs/each optic	1	
Light colour	White	
Required compone		
Required compone	enits.	
		30 <sup>6</sup> 30 <sup>7</sup>
SAMSI	UNG	90 <sup>4</sup> 90 <sup>5</sup>
LED	LM561C	
FWHM / FWTM	28.0° / 62.0°	75 75
Efficiency	93 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	9 <sup>1</sup>
Required compone		
	Sinto.	
		30* 
SAMSI	UNG	50 <sup>1</sup>
LED	LT-R286A	
FWHM / FWTM	29.0° / 65.0°	77 77
Efficiency	94 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	9 <sup>11</sup> 9 <sup>2</sup>
Required compone		
		36 <sup>5</sup> 200 30 <sup>5</sup> 15 <sup>7</sup> 0 <sup>4</sup> 25 <sup>5</sup>
SEOUL		20 <sup>1</sup>
SEOUL SEMICONDUCTOR	SEOUL 3030	
FWHM / FWTM	27.0° / 60.0°	
Efficiency	94 %	
Peak intensity	94 % 2.6 cd/lm	av av
LEDs/each optic	2.6 cu/im 1	
Light colour	White	97
Required compone		
	51113.	
		×*
		157 0° 159



SEOUL			90 <sup>4</sup>	90*
SEOUL SEMICONDUCTOR	SEOUL 5630C			
FWHM / FWTM	27.0° / 62.0°		75:	75"
Efficiency	88 %			$\sim$
	2.5 cd/lm		508	60°
Peak intensity				X
LEDs/each optic	1			
Light colour	White		1630	$\langle \rangle$
Required compone	NCE-3R-SHD-GR			
014435_1 LOIKE	NCL-SIX-SIID-GIX			X
			least least	
			30 <sup>6</sup> 13 <sup>3</sup> 0 <sup>6</sup> 1	5°
SEOUL			90*	90°
LED	SEOUL 5630C			
FWHM / FWTM	27.0° / 62.0°		75.	75'
Efficiency	87 %			
Peak intensity	2.5 cd/lm		60*	60*
LEDs/each optic	1			Х
Light colour	White		9*	45*
Required component				$\langle \rangle$
	NCE-3R-SHD-BLK			
				X
			30° 15° 0° 3	5,
SEOUL			90°	90°
SEOUL SEMICONDUCTOR			95*	90*
SEOUL SEMICONDUCTOR	SEOUL 5630C	and the second second	99* 73*	90*
seoul semiconductor LED FWHM / FWTM	27.0° / 62.0°		99* 25	90°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	27.0° / 62.0° 94 %		60 22. 26.	90° 23° 60°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	27.0° / 62.0° 94 % 2.5 cd/lm		90* 25* 00	99* 75* 68*
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	27.0° / 62.0° 94 % 2.5 cd/lm 1		50° 257 60°	10° 10° 10°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 62.0° 94 % 2.5 cd/lm 1 White		5° 5° 5°	64 64 95
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	27.0° / 62.0° 94 % 2.5 cd/lm 1 White		59* 64* 54* 1000	91, 92, 93, 93,
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 62.0° 94 % 2.5 cd/lm 1 White		5°*	97 97
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 62.0° 94 % 2.5 cd/lm 1 White		50°	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 62.0° 94 % 2.5 cd/lm 1 White		59° 59° 69° 69° 69° 1600 1600 1600 1600	95- 95- 95-
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	27.0° / 62.0° 94 % 2.5 cd/lm 1 White			35° 36°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR	27.0° / 62.0° 94 % 2.5 cd/lm 1 White nts:		30 <sup>4</sup> 15 <sup>5</sup> 0 <sup>4</sup> 1	90.4 90.4 90.4 90.4 90.4
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED	27.0° / 62.0° 94 % 2.5 cd/lm 1 White nts:		30 <sup>4</sup> 15 <sup>5</sup> 0 <sup>4</sup> 1	35° 36°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM	27.0° / 62.0° 94 % 2.5 cd/lm 1 White nts: SEOUL DC 3030 23.0° / 57.0°		30 <sup>4</sup> 157 0 <sup>4</sup>	15° 30°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	27.0° / 62.0° 94 % 2.5 cd/lm 1 White nts: SEOUL DC 3030 23.0° / 57.0° 94 %		20 <sup>-</sup> 20 <sup>-</sup> 0 <sup>-</sup> 3	15° 30°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	27.0° / 62.0° 94 % 2.5 cd/lm 1 White nts: SEOUL DC 3030 23.0° / 57.0° 94 % 3 cd/lm			15° 30°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	27.0° / 62.0° 94 % 2.5 cd/lm 1 White nts: SEOUL DC 3030 23.0° / 57.0° 94 % 3 cd/lm 1		20 <sup>-</sup> 20 <sup>-</sup> 0 <sup>-</sup> 3	15° 30°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 62.0° 94 % 2.5 cd/lm 1 White nts: SEOUL DC 3030 23.0° / 57.0° 94 % 3 cd/lm 1 White			15° 30°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	27.0° / 62.0° 94 % 2.5 cd/lm 1 White nts: SEOUL DC 3030 23.0° / 57.0° 94 % 3 cd/lm 1 White			15° 36°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 62.0° 94 % 2.5 cd/lm 1 White nts: SEOUL DC 3030 23.0° / 57.0° 94 % 3 cd/lm 1 White			15° 36°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 62.0° 94 % 2.5 cd/lm 1 White nts: SEOUL DC 3030 23.0° / 57.0° 94 % 3 cd/lm 1 White			15° 30°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componed SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 62.0° 94 % 2.5 cd/lm 1 White nts: SEOUL DC 3030 23.0° / 57.0° 94 % 3 cd/lm 1 White			15° 30°



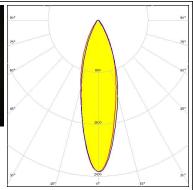
# TRIDONIC

L	E	D	

FWHM / FWTM 29 Efficiency 94 Peak intensity 2.3 LEDs/each optic 1 Light colour W Required components:

LLE G2 55x280mm 2000lm 29.0° / 64.0° 94 % 2.3 cd/lm 1 White







# PHOTOMETRIC DATA (SIMULATED):

ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NF2x757G 25.0° / 53.0° 90 % 3.2 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
<b>Μ</b> ΝΙCΗΙΛ		90* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NFMW48xA 27.0° / 69.0° 91 % 2.2 cd/lm 1 White	27
OSRAM		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Duris E 2835 30.0° / 75.0° 96 % 2.2 cd/lm 2 White	200 20 20 20 20 20 20 20 20 20
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Duris E 2835 29.0° / 58.0° 94 % 2.8 cd/lm 1 White	200 200 200 200 200 200 200 200



# PHOTOMETRIC DATA (SIMULATED):

OSRAM		90° 90°
Opto Semiconductors	OSCONIQ C 2424	
FWHM / FWTM	14.0° / 68.0 + 56.0°	23*
Efficiency	94 %	
Peak intensity	4 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	43°
Required components:	Winte	
		3230
		30° 30° 15°
SAMSUN	IG	90* 90*
LED	LM301B	
FWHM / FWTM	24.0 + 26.0° / 74.0 + 66.0°	75'
Efficiency	89 %	
Peak intensity	2.2 cd/lm	60 <sup>4</sup>
LEDs/each optic	2	
Light colour	White	az. az.
Required components:		1600
		30°
		15° 30° 15°
SAMSUN	IG	90* 90*
		<u>8</u> , <u>8</u> ,
LED	LM302Z plus	99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99°
LED FWHM / FWTM	LM302Z plus 25.0° / 70.0°	
LED FWHM / FWTM Efficiency	LM302Z plus 25.0° / 70.0° 89 %	
LED FWHM / FWTM Efficiency Peak intensity	LM302Z plus 25.0° / 70.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2	27 57 59 50 50 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2	75 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2	75 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2	75 97 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2 White	77 69 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2 White	77 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2 White	30, 30, 30,   30, 30, 60,   30, 30, 60,   30, 60, 60,   30, 60, 60,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2 White	205 205 205 205 205 205 205 205
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM302Z plus 25.0° / 70.0° 89 % 2.2 cd/lm 2 White	



# PHOTOMETRIC DATA (SIMULATED):

SEOUL		50° 90°
LED	SEOUL 5630D	25*
FWHM / FWTM	29.0° / 58.0°	$ \land \land$
Efficiency	90 %	60° 60°
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	1500
Light colour	White	67° (62°
Required components:		$\times$
		2430
		36° 35° 35° 35°
SEDUL		125 0 155
SEOUL SEMICONDUCTOR		90° 90°
LED	SEOUL DC 3030C	
LED FWHM / FWTM	SEOUL DC 3030C 23.0° / 54.0°	75
FWHM / FWTM	23.0° / 54.0°	
FWHM / FWTM Efficiency	23.0° / 54.0° 94 %	
FWHM / FWTM Efficiency Peak intensity	23.0° / 54.0° 94 % 3.5 cd/lm	00 00 1000 1000
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	23.0° / 54.0° 94 % 3.5 cd/lm 1	00 100
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 54.0° 94 % 3.5 cd/lm 1	00 00 1000 1000
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 54.0° 94 % 3.5 cd/lm 1	00 90 900 900 900 900 900 900 900 900 9
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 54.0° 94 % 3.5 cd/lm 1	00 00 300 00 00 00 00 00 00 00 00 00 00



#### **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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