

# 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.

#### **TECHNICAL SPECIFICATIONS:**

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



#### MATERIAL SPECIFICATIONS:

Component FLORENCE-Z90

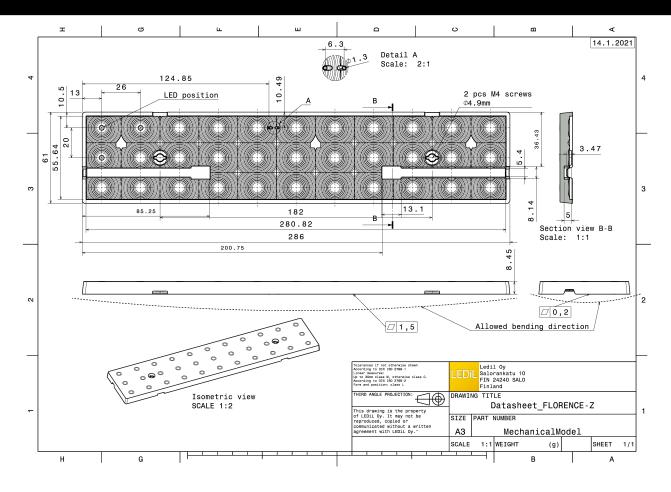
Туре
Linear lens

)	Material	Colour	Finish
r 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				

## PRODUCT DATASHEET F13853\_FLORENCE-Z90



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



	D		9	30°	90*
LED	XH-B/G				
FWHM / FWTM	95.0° / 140.0°		2	75%	78:
Efficiency	82 %			100	
Peak intensity	0.4 cd/lm		.5	504	604
LEDs/each optic	1				
Light colour	White			200	at at
Required compone					$\langle \rangle \rangle X$
			2		
				40° 15 <sup>5</sup>	15* 30.
FRANK			9	30°	90*
LED	LED-Modul 280 x 55 mm 1B		7		
FWHM / FWTM	90.0° / 134.0 + 144.0°			100	
Efficiency	92 %			we /////	
Peak intensity	0.4 cd/lm				
LEDs/each optic	1			200	
Light colour	White		1	15*	43.
Required compone	ents:				
				400	
			3	30° 0°	15° 30°
FRANK				30°	90*
	LED-Modul 280 x 55 mm 1E				
LED	LED-Modul 280 x 55 mm 1F 90 0° / 133 0 + 144 0°		2	74	7
LED FWHM / FWTM	90.0° / 133.0 + 144.0°		2	79	The second secon
LED FWHM / FWTM Efficiency	90.0° / 133.0 + 144.0° 92 %		, 2 8	75 300	
LED FWHM / FWTM Efficiency Peak intensity	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm		, , ,	29 10 10	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1			79 90 90 97	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White			2 <sup>5</sup> 100	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White			29 29 20 20 20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White			79° 60° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White			79 - 100 60* - 200 97* - 200 97* - 200 98* - 2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White				12° 12° 6° 12°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White ents:				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White ents: LED-Modul 280 x 55 mm 2F				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White ents:				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>FRANK</b> LED FWHM / FWTM Efficiency	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White ents: LED-Modul 280 x 55 mm 2F 90.0° / 133.0 + 144.0° 92 %				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>FRANK</b> LED FWHM / FWTM Efficiency Peak intensity	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White ents: LED-Modul 280 x 55 mm 2F 90.0° / 133.0 + 144.0°				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone Efficiency Peak intensity LEDs/each optic	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White ents: LED-Modul 280 x 55 mm 2F 90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Employee FRANK LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White ents: LED-Modul 280 x 55 mm 2F 90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White				12° 12° 12° 12° 12° 12° 12° 12° 12° 12°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone Efficiency Peak intensity LEDs/each optic	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White ents: LED-Modul 280 x 55 mm 2F 90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White				12° 12° 12° 12° 12° 12° 12° 12° 12° 12°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Employee FRANK LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White ents: LED-Modul 280 x 55 mm 2F 90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White				12° 12° 12° 12° 12° 12° 12° 12° 12° 12°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone EFRANK LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White ents: LED-Modul 280 x 55 mm 2F 90.0° / 133.0 + 144.0° 92 % 0.4 cd/lm 1 White				12° 12° 12° 12° 12° 12° 12° 12° 12° 12°



	EDS	90*
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	9* 9* 30
		 30 <sup>4</sup> 20 <sup>7</sup> 0 <sup>4</sup> 10 <sup>4</sup>
UMIL	EDS	50*
LED FWHM / FWTM Efficiency	LUXEON 3535 2D 92.0° / 135.0° 87 %	20
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White	210
Required compone	nts:	20
	FDS	20 125 0 <sup>th</sup> 157
LED	LUXEON 3535L HE	
FWHM / FWTM	92.0° / 139.0°	72*
Efficiency	93 %	600
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour Required compone	White nts:	
	EDS	20 <sup>5</sup> 0 <sup>6</sup> 25 <sup>5</sup>
LED	LUXEON XR-3535L (L202 - xxxx033C30001)	
FWHM / FWTM	91.0° / 134.0°	73*
Efficiency	93 %	501
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	۳
Required compone	nts:	30
		440



ELUM	INUS	80* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	MP-2016 90.0° / 140.0° 91 % 0.4 cd/lm 1 White ents:	
ØNICHI/		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757D 92.0° / 134.0° 90 % 0.4 cd/lm 1 White	
ØNICHI/		54
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14646_FLOR	NFSW757H 90.0 + 83.0° / 122.0 + 131.0° 87 % 0.4 cd/lm 1 White ents: ENCE-3R-SHD-WHT	
ØNICHI/	N Contraction of the second seco	90* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NFSW757H 91.0 + 90.0° / 134.0 + 145.0° 92 % 0.4 cd/lm 1 White	



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OSRAN 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	
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	
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 ents:	
OSRAM 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 ents:	



OSRAM Opto Semiconductors			90* 90*
Opto Semiconductors	Duris S5 (Single chip)	and the second	
FWHM / FWTM	91.0° / 133.0°		75*
Efficiency	88 %		
Peak intensity	0.4 cd/lm		K A A D
LEDs/each optic	1		
Light colour	White		ar ar
Required component	nts:		20
0000414			36" 36"
OSRAM Opto Semiconductors			50*
LED	OSCONIQ P 2226		
FWHM / FWTM	94.0° / 140.0°		
Efficiency	83 %		50°
Peak intensity	0.4 cd/lm		
LEDs/each optic	1		200
Light colour	White		er.
Required compone	nts:		
			30
			30" 30" 30" 30"
1			
OSRAM			90* 90*
Opto Semiconductors	OSI ON Square CSSPM2/CSSPM2		
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3		
opto Semiconductors LED FWHM / FWTM	91.0° / 145.0°		
opto Semiconductors LED FWHM / FWTM Efficiency	91.0° / 145.0° 93 %		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	91.0° / 145.0° 93 % 0.4 cd/lm		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	91.0° / 145.0° 93 %		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	91.0° / 145.0° 93 % 0.4 cd/lm 1 White		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	91.0° / 145.0° 93 % 0.4 cd/lm 1 White		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	91.0° / 145.0° 93 % 0.4 cd/lm 1 White		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	91.0° / 145.0° 93 % 0.4 cd/lm 1 White		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	91.0° / 145.0° 93 % 0.4 cd/lm 1 White nts:		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	91.0° / 145.0° 93 % 0.4 cd/lm 1 White nts:		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	91.0° / 145.0° 93 % 0.4 cd/lm 1 White nts: S Fortimo LED Line 1ft 650lm 3R HV4 & LV4		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component DHILLIP LED FWHM / FWTM	91.0° / 145.0° 93 % 0.4 cd/lm 1 White nts: S Fortimo LED Line 1ft 650lm 3R HV4 & LV4 90.0° / 142.0°		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component LED FWHM / FWTM Efficiency	91.0° / 145.0° 93 % 0.4 cd/lm 1 White nts: S Fortimo LED Line 1ft 650lm 3R HV4 & LV4 90.0° / 142.0° 93 %		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component ED FWHIM / FWTM Efficiency Peak intensity	91.0° / 145.0° 93 % 0.4 cd/lm 1 White hts:		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	91.0° / 145.0° 93 % 0.4 cd/lm 1 White nts: S Fortimo LED Line 1ft 650lm 3R HV4 & LV4 90.0° / 142.0° 93 % 0.4 cd/lm 1		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	91.0° / 145.0° 93 % 0.4 cd/lm 1 White I S Fortimo LED Line 1ft 650lm 3R HV4 & LV4 90.0° / 142.0° 93 % 0.4 cd/lm 1 White		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	91.0° / 145.0° 93 % 0.4 cd/lm 1 White I S Fortimo LED Line 1ft 650lm 3R HV4 & LV4 90.0° / 142.0° 93 % 0.4 cd/lm 1 White		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	91.0° / 145.0° 93 % 0.4 cd/lm 1 White I S Fortimo LED Line 1ft 650lm 3R HV4 & LV4 90.0° / 142.0° 93 % 0.4 cd/lm 1 White		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	91.0° / 145.0° 93 % 0.4 cd/lm 1 White I S Fortimo LED Line 1ft 650lm 3R HV4 & LV4 90.0° / 142.0° 93 % 0.4 cd/lm 1 White		



SAMSI		291 294
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LM231 A/B 91.0° / 134.0° 88 % 0.4 cd/lm 1 White	
SAMSI 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	
SAMSI 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	
SAMSI 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	



		JNG	SAMSUI
	10	LT-R286A 93.0° / 140.0° 93 % 0.4 cd/lm 1	LED L <sup>-</sup> FWHM / FWTM 93 Efficiency 93 Peak intensity 0. LEDs/each optic 1
		White	•
13.	500 400 13 <sup>5</sup> a <sup>2</sup>	nts:	Required components:
M	1 1		SEOUL
	10	SEOUL 3030 91.0° / 138.0° 91 % 0.4 cd/lm 1 White	FWHM / FWTM9Efficiency9Peak intensity0.LEDs/each optic1
12.0	30 60 55 0		Required components:
T			SEOUL
	- 200 - 209 	SEOUL 5630C 90.0° / 136.0° 91 % 0.4 cd/lm 1 White nts:	FWHM / FWTM90Efficiency9Peak intensity0.LEDs/each optic1
15.	15° 0°		
	50		FWHM / FWTM     84       Efficiency     84       Peak intensity     0.       LEDs/each optic     1       Light colour     W       Required components:
	200	0.4 cd/lm 1 White nts:	Peak intensity0.LEDs/each optic1Light colourW



With MARCHINE         LED       SECUL 5630C         FWHM / FWTM       87.0 + 81.0" / 115.0 + 101.0"         Efficiency       71 %         Peak intensity       0.4 colm         LEDs/each optic       1         Light colour       White         Required components:       C14592_FLORENCE-3R-SHD-BLK         Efficiency       74 %         Peak intensity       0.4 colm         LEDs/each optic       1         Light colour       White         Required components:       C14592_FLORENCE-3R-SHD-GR         C14592_FLORENCE-3R-SHD-GR       Image: Components:         C14593_FLORENCE-3R-SHD-GR       <
LED SEOUL 5630C FWHM /FWTM 87.0+81.0*/115.0+101.0* Efficiency 71% Peak intensity 0.4 cd/m LEDs/aech optic 1 Light colour White Required components: C14692_FLORENCE-3R-SHD-BLK Source Components: C14692_FLORENCE-3R-SHD-BLK Source Components: C14692_FLORENCE-3R-SHD-BLK Source Components: C14453_FLORENCE-3R-SHD-GR SECUL DC 3030 FWHM /FWTM 80.0*/140.0* Efficiency 93% Peak intensity 0.4 cd/m LED SECUL DC 3030 FWHM /FWTM 90.0*/140.0* Efficiency 93% Peak intensity 0.4 cd/m LED SECUL DC 3030 FWHM /FWTM 90.0*/140.0* Efficiency 93% Peak intensity 0.4 cd/m LED SECUL DC 3030 FWHM /FWTM 90.0*/140.0* Efficiency 93% Peak intensity 0.4 cd/m LEDS/sech optic 1 LIght colour White Required components: C14453_FLORENCE-3R-SHD-GR
FWHM / FWTM 87.0 + 81.0° / 115.0 + 101.0° Efficiency 71 % Peak intensity 0.4 cd/m LED vector White Required components: C14592_FLORENCE-3R-SHD-BLK WMM / FWTM 87.0 + 81.0° / 116.0 + 103.0° Efficiency 74 % Peak intensity 0.4 cd/m LED vector White Required components: C14632_FLORENCE-3R-SHD-GR WMM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/m LED vector White Required components: C14632_FLORENCE-3R-SHD-GR
Efficiency 71 % Peak intensity 0.4 collm LEDS/ach optic 1 Light colour White Required components: C14652_FLORENCE-3R-SHD-BLK
Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: C14592_FLORENCE-3R-SHD-BLK
LEDs/each optic 1 Light colour White Required components: C14592_FLORENCE-3R-SHD-BLK
Light colour White Required components: C14592_FLORENCE-3R-SHD-BLK
Required components: C14592_FLORENCE-3R-SHD-BLK
C14592_FLORENCE-3R-SHD-BLK
workstructure         LED       SEOUL 5630C         FWHM / FWTM       87.0 + 81.0° / 116.0 + 103.0°         Efficiency       74 %         Peak intensity       0.4 cd/lm         LEDs/each optic       1         Light colour       White         Required components:       C14453_FLORENCE-3R-SHD-GR         Store service       1         LED       SEOUL DC 30300         FWHM / FWTM       90.0° / 140.0°         Efficiency       93 %         Peak intensity       0.4 cd/lm         LEDs/each optic       1         Light colour       White         Required components:       C14453_FLORENCE-3R-SHD-GR
store structures LED SEOUL 5630C FWHM / FWTM 87.0 + 81.0° / 116.0 + 103.0° Efficiency 74 % Peak intensity 0.4 cd/lm LEDs/seach optic 1 Light colour White Required components: Efficiency 93 % Peak intensity 0.4 cd/lm LEDS SEOUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 90.0° / 140.0° Efficien
store structures LED SEOUL 5630C FWHM / FWTM 87.0 + 81.0° / 116.0 + 103.0° Efficiency 74 % Peak intensity 0.4 cd/lm LEDs/seach optic 1 Light colour White Required components: Efficiency 93 % Peak intensity 0.4 cd/lm LEDS SEOUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 90.0° / 140.0° Efficien
store structures LED SEOUL 5630C FWHM / FWTM 87.0 + 81.0° / 116.0 + 103.0° Efficiency 74 % Peak intensity 0.4 cd/lm LEDs/seach optic 1 Light colour White Required components: Efficiency 93 % Peak intensity 0.4 cd/lm LEDS SEOUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS COUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 90.0° / 140.0° Efficien
LED SEOUL 5630C FWHM / FWTM 87.0 + 81.0° / 116.0 + 103.0° Efficiency 74 % Peak intensity 0.4 cd/lm LEDS/each optic 1 Light colour White Required components: C14453_FLORENCE-3R-SHD-GR
FWHM / FWTM 87.0 + 81.0° / 116.0 + 103.0° Efficiency 74 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: C14453_FLORENCE-3R-SHD-GR SEQUEDC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:
Efficiency 74 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: C14453_FLORENCE-3R-SHD-GR STORE SECUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:
Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: C14453_FLORENCE-3R-SHD-GR
LEDs/each optic 1 Light colour White Required components: C14453_FLORENCE-3R-SHD-GR SOUSEMENDER LED SEOUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:
Light colour White Required components: C14453_FLORENCE-3R-SHD-GR store statements LED SEOUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDS/each optic 1 Light colour White Required components:
Required components: C14453_FLORENCE-3R-SHD-GR
C14453_FLORENCE-3R-SHD-GR
Store Service Service 300 Point Service 300 Poin
SEQUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:
SEQUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:
SEQUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:
LED SEOUL DC 3030 FWHM / FWTM 90.0° / 140.0° Efficiency 93 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:
FWHM / FWTM       90.0° / 140.0°         Efficiency       93 %         Peak intensity       0.4 cd/lm         LEDs/each optic       1         Light colour       White         Required components:       5%
Efficiency 93 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:
Peak intensity 0.4 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:
20° 00 20° 00 20° 00
LED LLE G2 55x280mm 2000lm
FWHM / FWTM 91.0° / 135.0°
Efficiency 93 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour White
Light colour White Sequired components:
Light colour White Required components:



		art at
LED	J Series 5050 Round LES	
FWHM / FWTM	88.0° / 120.0°	75%
Efficiency	91 %	
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 65*
Required components:		
		460
		X
		30* <u>15*</u> <u>50</u> <u>15*</u> 39*
	)S	
LED	LUXEON 5050 Round LES	
FWHM / FWTM	90.0° / 120.0°	75°
Efficiency	91 %	
Peak intensity	0.5 cd/lm	504 604
LEDs/each optic	1	
Light colour	White	
Required components:	White	45°
Required components.		
		440
		30* 15* 30*
<b>Μ</b> ΝΙCΗΙΛ		00 <sup>4</sup>
LED	NF2x757G	
FWHM / FWTM	90.0° / 146.0°	75° 75°
Efficiency	80 %	100
Peak intensity	0.4 cd/lm	50* 60*
LEDs/each optic	1	
Light colour	White	
Required components:	white	
required components.		30
		400
		30* 13 <sup>5</sup> 0* 15* 30*
<b>Μ</b> ΝΙCΗΙΛ		
LED	NFMW48xA	
EED FWHM / FWTM	89.0° / 130.0°	750 750
Efficiency	92 %	100
Peak intensity	92 % 0.4 cd/lm	50* 60*
	0.4 cd/lm 1	
LEDs/each optic		
Light colour	White	45° 45°
Required components:		
		30* 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup> 30*



<b>ΜΝΙCΗΙΛ</b>		
LED	NFSx757G	
FWHM / FWTM	86.0 + 90.0° / 128.0 + 122.0°	73°
Efficiency	92 %	
Peak intensity	0.5 cd/lm	. 604 604
LEDs/each optic	2	
Light colour	2 White	
Required components:	White	
Required components.		
		460
		30* 30* 30*
<b>Μ</b> ΝΙCΗΙΛ		90° 90°
LED	NVSxE21A	
FWHM / FWTM	90.0° / 163.0°	75'
Efficiency	94 %	300
Peak intensity	0.4 cd/lm	60**
LEDs/each optic	1	
Light colour	White	42°
Required components:		
		400 30-
		15° 0° 15°
OSRAM Oto Semiconductors		90* 90* 90* 12°
Opto Semiconductors	Duris E 2835	90 <sup>2</sup> 0 <sup>3</sup> 12 <sup>3</sup>
Opto Semiconductors	Duris E 2835 86.0 + 87.0° / 120.0 + 126.0°	125° 0° 125° 99* 99*
Opto Semiconductors LED FWHM / FWTM	86.0 + 87.0° / 120.0 + 126.0°	25° 0° 25° 29° 99° 25° 500
opto Semiconductors LED FWHM / FWTM Efficiency	86.0 + 87.0° / 120.0 + 126.0° 92 %	99° - 90° 73° - 200 60°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm	200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2	200 C
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm	15 <sup>5</sup> 0 <sup>4</sup> 15 <sup>5</sup> 99 <sup>4</sup> 15 <sup>5</sup> 0 <sup>4</sup> 15 <sup>7</sup> 99 <sup>4</sup> 15 <sup>6</sup> 10 <sup>9</sup> 10 <sup>9</sup> 1
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2	15 <sup>5</sup> 0 <sup>4</sup> 15 <sup>5</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2	15 <sup>5</sup> 0 <sup>4</sup> 15 <sup>5</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2	250
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2	Bit         Dia           122,         04,         12,         34,           122,         100,         04,         04,           123,         100,         04,         04,           124,         100,         04,         04,           124,         100,         04,         04,           124,         100,         04,         04,           124,         100,         04,         04,           124,         100,         04,         04,           124,         100,         04,         04,           124,         100,         04,         04,           124,         100,         04,         04,           124,         100,         04,         04,           124,         100,         04,         04,           125,         100,         04,         04,           125,         100,         100,         04,           125,         100,         100,         100,           125,         100,         100,         100,           125,         100,         100,         100,           125,         100,         100,
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2	84°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2 White	30 <sup>4</sup> 30 <sup>2</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2 White Duris E 2835 85.0° / 122.0°	30 <sup>4</sup> 30 <sup>2</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2 White Duris E 2835 85.0° / 122.0° 87 %	30 <sup>4</sup> 30 <sup>2</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2 White Duris E 2835 85.0° / 122.0° 87 % 0.5 cd/lm	30 <sup>4</sup> 30 <sup>2</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2 White Duris E 2835 85.0° / 122.0° 87 % 0.5 cd/lm 1	90 <sup>4</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2 White Duris E 2835 85.0° / 122.0° 87 % 0.5 cd/lm 1	90 <sup>4</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2 White Duris E 2835 85.0° / 122.0° 87 % 0.5 cd/lm 1	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:  Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86.0 + 87.0° / 120.0 + 126.0° 92 % 0.4 cd/lm 2 White Duris E 2835 85.0° / 122.0° 87 % 0.5 cd/lm 1	90 <sup>4</sup>



OSRAM Opto Semiconductors		90° 90°
LED	Duris S8	
FWHM / FWTM	89.0° / 121.0°	75
Efficiency	91 %	
Peak intensity	0.5 cd/lm	60* 00*
LEDs/each optic	1	200
Light colour	White	9°
Required components:		
		40
		30° 30° 30° 30°
OSRAM Opto Semiconductors		90° 90°
LED	OSCONIQ C 2424	
FWHM / FWTM	88.0° / 114.0°	73°
Efficiency	92 %	
Peak intensity	0.5 cd/lm	-50 <sup>4</sup> 604
LEDs/each optic	1	
Light colour	White	45° 65°
Required components:		
		400
		15 <sup>3</sup> 0 <sup>6</sup> 15 <sup>4</sup> 30
SAMSUN	IG	20 <sup>1</sup> 0 <sup>1</sup> 20 <sup>4</sup>
SAMSUN		99° 90°
LED	LM28xB Series	30*         30*         9*           32*         9*         9*
LED FWHM / FWTM	LM28xB Series 90.0° / 120.0°	39*         99*           726         725
LED FWHM / FWTM Efficiency	LM28xB Series 90.0° / 120.0° 93 %	200 - 200 -
LED FWHM / FWTM Efficiency Peak intensity	LM28xB Series 90.0° / 120.0°	99* 99* 99* 00* 00* 200 00*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm	200
LED FWHM / FWTM Efficiency Peak intensity	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1	39*         9*           39*         9*           30*         0*           40*         0*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1 White I M301B 88.0° / 119.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1 White I M301B 88.0° / 119.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1 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	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1 White LM301B 88.0° / 119.0° 92 % 0.5 cd/lm 1	
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	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1 White LM301B 88.0° / 119.0° 92 % 0.5 cd/lm 1	
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	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1 White LM301B 88.0° / 119.0° 92 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM28xB Series 90.0° / 120.0° 93 % 0.5 cd/lm 1 White LM301B 88.0° / 119.0° 92 % 0.5 cd/lm 1	



SAMSUN	IG	50°
LED	LM301B	
FWHM / FWTM	88.0° / 122.0°	23.
Efficiency	91 %	
Peak intensity	0.5 cd/lm	200
LEDs/each optic	2	
Light colour	White	er la
Required components:		
		30° 30° 30°
SAMSUN	IG	50° 30°
LED	LM302Z plus	
FWHM / FWTM	87.0° / 122.0°	75. 75.
Efficiency	91 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	2	
Light colour	White	er de la companya de
Required components:		200
		400
		30* 31* 31*
SAMSUN	IG	
LED	LM302Z plus	90* 90*
FWHM / FWTM	87.0° / 118.0°	75% 700 77%
Efficiency	92 %	
Peak intensity	0.5 cd/lm	50* 50*
LEDs/each optic	1	
Light colour	White	45*
Required components:		
		500 301 235 00 10° 30°
SEQUE		
SEOUL SEMICONDUCTOR	SEOUL 5630D	90* 90*
ED FWHM / FWTM	83.0° / 127.0°	75%
Efficiency	84 %	
Peak intensity	0.5 cd/lm	50° 60°
LEDs/each optic	1	200
Light colour	White	45*
Required components:		
		30* 30
		15° 0° 15°



SEOUL SEMICONDUCTOR		90 <sup>4</sup>
LED	SEOUL DC 3030C	
FWHM / FWTM	89.0° / 120.0°	
Efficiency	94 %	
Peak intensity	0.5 cd/lm	50° 60
LEDs/each optic	1	
Light colour	White	
Required components	5:	
		40 <u>40</u>
		30*
		25 <sup>2</sup> 0 <sup>2</sup> 13 <sup>2</sup>
TRIDON	IC	90*
TRIDON	LLE G2 55x280mm 2000lm	90° 9
		90 <sup>*</sup> 9
LED	LLE G2 55x280mm 2000lm	90 <sup>*</sup>
LED FWHM / FWTM	LLE G2 55x280mm 2000lm 85.0 + 81.0° / 108.0 + 97.0°	
LED FWHM / FWTM Efficiency	LLE G2 55x280mm 2000lm 85.0 + 81.0° / 108.0 + 97.0° 77 %	90* 9 73* 9 00* 6
LED FWHM / FWTM Efficiency Peak intensity	LLE G2 55x280mm 2000lm 85.0 + 81.0° / 108.0 + 97.0° 77 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LLE G2 55x280mm 2000lm 85.0 + 81.0° / 108.0 + 97.0° 77 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LLE G2 55x280mm 2000lm 85.0 + 81.0° / 108.0 + 97.0° 77 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LLE G2 55x280mm 2000lm 85.0 + 81.0° / 108.0 + 97.0° 77 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LLE G2 55x280mm 2000lm 85.0 + 81.0° / 108.0 + 97.0° 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.

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