

## STRADELLA-16-T2

IESNA Type II (medium) beam, applicable for European P-class standard pedestrian lighting and M-class roads

### **TECHNICAL SPECIFICATIONS:**

Dimensions49.5 x 49.5 mmHeight4.7 mmROHS compliantyes <sup>①</sup>



#### MATERIAL SPECIFICATIONS:

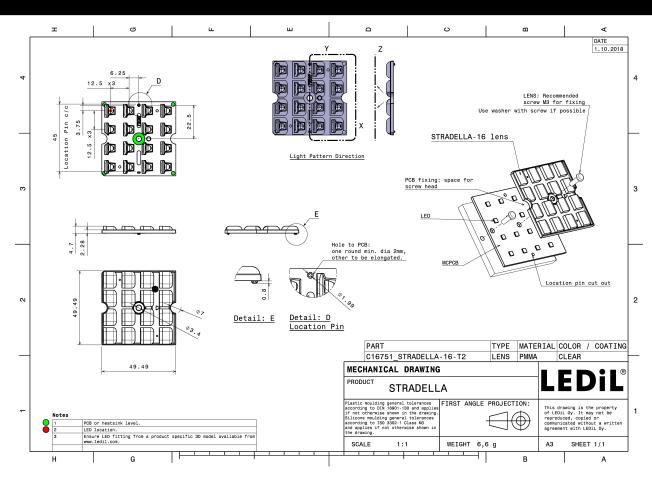
Component STRADELLA-16-T2

Туре	
Multi-lens	

Mat	erial	Colour	Finish
PMN	ЛА	clear	

### **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16751_STRADELLA-16-T2	800	160	160	6.5
» Box size: 480 x 280 x 300 mm				



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



### **PHOTOMETRIC DATA (MEASURED):**

		90* 90*
LED	J Series 3030	
FWHM / FWTM	Asymmetric	26 27
Efficiency	95 %	200
Peak intensity	0.6 cd/lm	.60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	400
Light colour	White	.67
Required componer	ts:	$\times$
		600
		$\times$ / $\times$
		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>6</sup> 50
		90*
LED	EHP-223.5x50-1604-xx-70-LS30-06-NTC	
FWHM / FWTM	Asymmetric	75%
Efficiency	97 %	
Peak intensity	0.6 cd/lm	Sof Sof
LEDs/each optic	1	400
Light colour	White	45* 45*
Required componer	its:	640
		200
0.0.0.0.0		
SAMSU	ING	90* 90*
LED	LM301B	300
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.6 cd/lm	.80"
LEDs/each optic	1	40
Light colour	White	·6· / · · · · · · · · · · · · · · · · ·
Required componer	its:	
		600
		700
		30° <u>110° 800</u> 11° 30°
сллсі		
SAMSU		\$0* \$0*
LED	LM301B	73* 200 77*
FWHM / FWTM	Asymmetric	
Efficiency	84 %	. 60 <sup>+</sup>
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	30
Light colour	White	451 400 674
Required componer	its:	$\times$ / $\times$
Protectivo	nlate class	500
Protective	plate, glass	00
Protective	plate, glass	500



### **PHOTOMETRIC DATA (MEASURED):**

SCIO	LUX	90°
LED	XLE-S44XTEHE (XT-E HE)	
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required componer	nts:	540
		00
		30° 700 30° 15° 30°.
SCIO	IUX	
LED	XLE-S48XPG3 (XP-G3)	90* 90*
EED FWHM / FWTM	Asymmetric	75° 78°
Efficiency	83 %	
Peak intensity	0.4 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	$\nabla \times   \mathbf{N}  $
Light colour	White	45* 300
Required componer		400
		$\times$
Protective	plate, glass	200
		15° 0° 15°
SCIO	LUX	
SCIO LED	LUX XLE-S48XPG3 (XP-G3)	
LED	XLE-S48XPG3 (XP-G3)	90°
LED FWHM / FWTM Efficiency Peak intensity	XLE-S48XPG3 (XP-G3) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White hts: Z5M3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer secoul semiconductor LED FWHM / FWTM	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White nts: Z5M3 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer seoul semiconductor LED FWHM / FWTM Efficiency	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White hts: Z5M3 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S48XPG3 (XP-G3) Asymmetric 94 % 0.5 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 0.5 cd/lm 1 White	



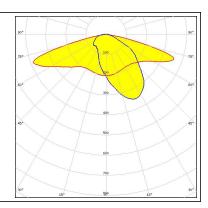
#### **PHOTOMETRIC DATA (MEASURED):**

# **TRIDONIC**

LED

FWHM / FWTMAsEfficiency94Peak intensity0.1LEDs/each optic1Light colourWRequired components:

RLE 4x16 4000lm MP ADV2 OTD Asymmetric 94 % 0.6 cd/lm 1 White





		THY YHT
LED	J Series 2835	90* 90
		75 0 100 78
FWHM / FWTM	Asymmetric	
Efficiency	91 %	50°
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	40
Light colour	White	45° (5
Required components:		
		600
		70 2
		30* <u>30</u> <sup>4</sup> <u>500</u> <u>15</u> * <u>30</u>
LED	J Series 2835	90
FWHM / FWTM	Asymmetric	75°
Efficiency	93 %	X
Peak intensity	0.5 cd/lm	604 60
LEDs/each optic	1	
Light colour	' White	
Required components:	White	45'
		600
		30° 30° 30 15 <sup>5</sup> 0° 15°
		90*
LED	J Series 3030	
FWHM / FWTM	Asymmetric	75° 100 75
Efficiency	81 %	
Peak intensity	0.5 cd/lm	604 60
LEDs/each optic	1	30
Light colour	White	45* 460 45
Required components:		
Protective plate	e, glass	
		130* 152 700 30 152 0 <sup>4</sup> 15* 30
LED	XP-G3	
FWHM / FWTM	Asymmetric	
Efficiency	89 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		



	S S	90 <sup>+</sup> 90 <sup>+</sup>
LED	LUXEON 2835 Line	
FWHM / FWTM	Asymmetric	75°
Efficiency	78 %	
Peak intensity	0.4 cd/lm	60 <sup>4</sup> 200
LEDs/each optic	1	
Light colour	White	45° 65°
Required components:		400
Protective plate	, glass	500
		$\times$
		30* <u>15</u> ° <u>6</u> <sup>(p)</sup> <u>15</u> ° <u>30</u> °
UMILEC	DS	90° 90°
LED	LUXEON 2835 Line	
FWHM / FWTM	Asymmetric	36.
Efficiency	91 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	400
Light colour	White	-65°
Required components:		
		$\times$
		30* 500 30* 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>°</sup>
	S	
LED	LUXEON 3030 2D (Square LES)	19°
FWHM / FWTM	Asymmetric	75*
Efficiency	81 %	
Peak intensity	0.4 cd/lm	50 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	6°
Required components:		400
Protective plate	e, glass	
		30* 30*
	S	
LED	LUXEON 3030 HE Plus	90" 90"
FWHM / FWTM	Asymmetric	736 731
Efficiency	92 %	
Peak intensity	0.6 cd/lm	50 <sup>4</sup> 50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	5°
Required components:		$\times/$
		600
		30° 30° 30° 30°



	)5	THA KHT
LED FWHM / FWTM	LUXEON C Asymmetric	8°
Efficiency	89 %	200
Peak intensity	0.7 cd/lm	.50* 50*
LEDs/each optic	1	400
Light colour	RGBW	6' 50
Required components:		00
		770
	S	
LED	LUXEON C	90" 90"
FWHM / FWTM	Asymmetric	70
Efficiency	88 %	
Peak intensity	0.6 cd/lm	300 X 300 X 300 X
LEDs/each optic	1	
Light colour	White	457 457
Required components:		200
		600
		700
		30° 35° 30° 15° 30°
	)S	THY HI
LED	LUXEON CZ	90*
FWHM / FWTM	Asymmetric	230 Zangar La 23
Efficiency	92 %	
Peak intensity	0.9 cd/lm	60* deo deo
LEDs/each optic	1	
Light colour	RGBW	.er
Light colour Required components:		e, e, e,
		-0°
		60° 600 600 80° 80° 80° 80° 80° 80° 80° 80° 80° 8
Required components:	RGBW	102
Required components:	RGBW	90°
Required components:	RGBW	90° 1000 1000 1000 1000 1000 1000 90°
Required components:	RGBW	90°
Required components:	RGBW DS LUXEON TX Asymmetric	90°
Required components:	RGBW S LUXEON TX Asymmetric 90 %	90°
Required components:	RGBW S LUXEON TX Asymmetric 90 % 0.5 cd/lm	90°
Required components:	RGBW S LUXEON TX Asymmetric 90 % 0.5 cd/lm 1	90°
Required components:	RGBW S LUXEON TX Asymmetric 90 % 0.5 cd/lm 1	90°
Required components:	RGBW S LUXEON TX Asymmetric 90 % 0.5 cd/lm 1	90° 1000 1



<b>Μ</b> ΝΙCΗΙΛ				90*	FT
LED	NF2x757G				
FWHM / FWTM	Asymmetric			750	100
Efficiency	83 %				
Peak intensity	0.4 cd/lm			.60%	
LEDs/each optic	1			X H	ו•
Light colour	White				
Required components:	VIIIIO				
					20
Protective plate	e, glass				
				30* 152	0° 15°
				90*	- F
LED	NF2x757G				
FWHM / FWTM	Asymmetric			750	$\sim$
Efficiency	92 %			XAT	
Peak intensity	0.5 cd/lm			50°	$\sim$
LEDs/each optic	1			K/ M	100
Light colour	White			45*	
Required components:					
				. / T	**
				$\times$	
					***
				153	og 18.
MICHIΛ				90*	FT
LED	NFSWE11A				
FWHM / FWTM	Asymmetric			734	
Efficiency	90 %			X M	
Peak intensity	0.9 cd/lm			60.	
LEDs/each optic	1			IX M	**
Light colour	White			45*	
Required components:				$\sim$ $-$	***
				$\square$	
				$\times$	
					200 9 <sup>9</sup> 15*
<b>Μ</b> ΝΙCΗΙΛ					
LED	NVSxE21A				
FWHM / FWTM	Asymmetric				
Efficiency	91 %				
Peak intensity	0.6 cd/lm				
LEDs/each optic	1				
Light colour	White				
Required components:					



0000414		
OSRAM Opto Semiconductors		90*
LED	Duris S5 (2 chip)	
FWHM / FWTM	Asymmetric	75°
Efficiency	80 %	
Peak intensity	0.4 cd/lm	60 <sup>6</sup>
LEDs/each optic	1	
Light colour	White	ar A
Required components:		
Protective plat	e, glass	200
		000
OSPAM		
OSRAM Opto Semiconductors		90* 9
LED	OSCONIQ C 2424	200
FWHM / FWTM	Asymmetric	
Efficiency	80 %	50* 200 Fil
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		
Protective plat	e, glass	60
		700
0000414		15 <sup>5</sup> 0 <sup>6</sup> 10 <sup>*</sup>
OSRAM Opto Semiconductors		23 <sup>3</sup> 0 <sup>4</sup> 10 <sup>5</sup>
OSRAM Opto Semiconductors LED	OSCONIQ C 2424	25 <sup>5</sup> 0 <sup>4</sup> 10 <sup>5</sup>
Opto Semiconductors	OSCONIQ C 2424 Asymmetric	22 <sup>k</sup> 0 <sup>k</sup> 10 <sup>k</sup>
opto Semiconductors LED FWHM / FWTM		
Opto Semiconductors LED FWHM / FWTM	Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 %	
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 92 % 0.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.7 cd/lm 1	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.7 cd/lm 1 White	<i>60</i> <i>60</i>
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3030	<i>60</i> <i>60</i>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric	<i>60</i> <i>60</i>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 90 %	20 20 20 20 20 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 90 % 0.6 cd/lm	20 20 20 20 20 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 90 % 0.6 cd/lm 1	20° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:  COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 90 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 90 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:  OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 90 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:  OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 90 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 90 % 0.6 cd/lm 1	



OSRAM Opto Semiconductors		
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	754 (100 /5*
Efficiency	91 %	
	0.6 cd/lm	504 504
Peak intensity		$\times$ $\rightarrow$ $\rightarrow$ $\times$ $\wedge$
LEDs/each optic	1	400
Light colour	White	d3* d3*
Required components:		200
		500
		30* 700 30* 98 98 90* 30*
PHILIPS		
		90* 90*
LED	Fortimo FastFlex LED 4x16 DHE G4	
FWHM / FWTM	Asymmetric	
Efficiency	93 %	50%
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 6°
Required components:		640
		30* 30*
PHILIPS		90* 90*
LED	Fortimo FastFlex LED 4x16 DHE G4	
FWHM / FWTM		
	Asymmetric	75°
Efficiency	Asymmetric 84 %	75°
		60 <sup>4</sup> - 2 <sup>4</sup> - 60 <sup>4</sup>
Efficiency	84 %	25. 000 -2620 -20 -20
Efficiency Peak intensity	84 % 0.5 cd/lm	
Efficiency Peak intensity LEDs/each optic	84 % 0.5 cd/lm 1	60 <sup>4</sup> 004
Efficiency Peak intensity LEDs/each optic Light colour Required components:	84 % 0.5 cd/lm 1 White	60 <sup>4</sup> 004
Efficiency Peak intensity LEDs/each optic Light colour	84 % 0.5 cd/lm 1 White	60 <sup>4</sup> 004
Efficiency Peak intensity LEDs/each optic Light colour Required components:	84 % 0.5 cd/lm 1 White	60 <sup>4</sup> 70 60 <sup>4</sup> 70 60 <sup>4</sup> 70 70 70 70 70 70 70 70 70 70 70 70
Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	84 % 0.5 cd/lm 1 White	60 <sup>4</sup> 000
Efficiency Peak intensity LEDs/each optic Light colour Required components:	84 % 0.5 cd/lm 1 White	60 <sup>4</sup>
Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	84 % 0.5 cd/lm 1 White	60 <sup>4</sup>
Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	84 % 0.5 cd/lm 1 White , glass	60 <sup>4</sup> 70 60 <sup>4</sup> 70 60 <sup>4</sup> 70 70 70 70 70 70 70 70 70 70 70 70
Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	84 % 0.5 cd/lm 1 White , glass G LH181B	60 <sup>4</sup>
Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM	84 % 0.5 cd/lm 1 White , glass C LH181B Asymmetric	60 <sup>4</sup>
Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity	84 % 0.5 cd/lm 1 White , glass LH181B Asymmetric 93 %	60 <sup>4</sup>
Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	84 % 0.5 cd/m 1 White a, glass LH181B Asymmetric 93 % 0.6 cd/m	60 <sup>4</sup>
Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84 % 0.5 cd/m 1 White a, glass LH181B Asymmetric 93 % 0.6 cd/m 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	84 % 0.5 cd/m 1 White a, glass LH181B Asymmetric 93 % 0.6 cd/m 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84 % 0.5 cd/m 1 White a, glass LH181B Asymmetric 93 % 0.6 cd/m 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	84 % 0.5 cd/m 1 White a, glass LH181B Asymmetric 93 % 0.6 cd/m 1	



SAMSUN	IG	90* 90*
LED	LH181B	
FWHM / FWTM	Asymmetric	754 750
Efficiency	92 %	XMAX
Peak intensity	0.6 cd/lm	60*
LEDs/each optic	1	400
Light colour	White	45°
Required components:		000
		800
		15' 0' 15'
SAMSUN	IG	90. 90.
LED	LH181B	
FWHM / FWTM	Asymmetric	750 (100 770
Efficiency	85 %	
Peak intensity	0.5 cd/lm	60°
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		200
Protective plate	e, glass	600
		30° 700 00° 10° 00°
SAMSUN		12, 0, 12,
	10	90 <sup>+</sup> 90 <sup>+</sup>
LED	LH351B	
		100
FWHM / FWTM	Asymmetric	70 200 701
Efficiency	Asymmetric 91 %	20 500 700 20 60 700 20 60 700
Efficiency Peak intensity	Asymmetric 91 % 0.5 cd/lm	20 100 PC
Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.5 cd/lm 1	20 00 70 60 <sup>4</sup> 00 700
Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm	45 <sup>-</sup> 400 40 <sup>+</sup>
Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.5 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm 1	29 61 <sup>4</sup> 20 60 <sup>4</sup> 60 <sup>4</sup>
Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.5 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.5 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.5 cd/lm 1 White G LM101B	6° 60 60 6° 60 6° 60 6° 6° 10° 6°
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	Asymmetric 91 % 0.5 cd/lm 1 White G LM101B Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency	Asymmetric 91 % 0.5 cd/lm 1 White G LM101B Asymmetric 92 %	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.5 cd/lm 1 White C LM101B Asymmetric 92 % 0.8 cd/lm	6° 60 60 6° 60 6° 60 6° 6° 10° 6°
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.5 cd/lm 1 White C LM101B Asymmetric 92 % 0.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm 1 White C LM101B Asymmetric 92 % 0.8 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.5 cd/lm 1 White C LM101B Asymmetric 92 % 0.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm 1 White C LM101B Asymmetric 92 % 0.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm 1 White C LM101B Asymmetric 92 % 0.8 cd/lm 1	



SAMSUN	1G	
		90*
LED FWHM / FWTM	LM28xB Series	734
Efficiency	Asymmetric 92 %	X
Peak intensity	92 /8 0.6 cd/lm	605
LEDs/each optic	1	400
Light colour	White	
Required components:	WING	60
		800
		36 <sup>4</sup> 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup>
SAMSUN	IG	90*
LED	LM302D	
FWHM / FWTM	Asymmetric	
Efficiency	93 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	400
Light colour	White	57
Required components:		
		30* 30 0* 11*
SAMSUN	IG	
		90*
LED	LM302D	75 100
FWHM / FWTM	Asymmetric	
Efficiency	79 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic Light colour	1 White	30
Required components:	white	45* 460
Required components.		
Protective plate	e, glass	200
		640
		1004 <u>10</u> 9 <u>10</u> 4
SAMSUN	IG	20 <sup>4</sup>
LED	LM302Z plus	
FWHM / FWTM	Asymmetric	751 100
Efficiency	79 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	$\times$
	White	45*
Light colour		400
		$\times / \top \times$
Light colour Required components:		20
Light colour	», glass	00



0.0.0.0.0.0.0		
SAMSUN	IG	90* 90*
LED	LM302Z plus	
FWHM / FWTM	Asymmetric	736 785
Efficiency	92 %	
Peak intensity	0.5 cd/lm	60° 60°
LEDs/each optic	1	400
Light colour	White	67 et
Required components:		
		000
		X    X
		90°
		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup>
SEOUL SEOUL SEMICONDUCTOR		90* 90*
LED	SEOUL DC 3030C	
FWHM / FWTM	Asymmetric	75%
Efficiency	80 %	
Peak intensity	0.4 cd/lm	50 <sup>4</sup> 200 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	6 <sup>,</sup>
Required components:		
Protective plate	e, glass	×
		000
		30 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup> 30
		90* 90*
SEOUL SEMICONDUCTOR	SEOUL DC 3030C	92°
SEOUL SEMICONDUCTOR	SEOUL DC 3030C Asymmetric	50* 72*
seoul semiconductor LED FWHM / FWTM	SEOUL DC 3030C Asymmetric 92 %	97 725 24
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric	90° 73° 66°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.6 cd/lm	
	Asymmetric 92 % 0.6 cd/lm 1	6 <sup>1</sup>
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm 1	50° 73° 60° 60° 60°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm 1	50° 73° 60° 60° 60° 60°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm 1	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1	
stoul stemconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White	200
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White Z8Y19	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM	Asymmetric 92 % 0.6 cd/lm 1 White Z8Y19 Asymmetric	90°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 92 % 0.6 cd/lm 1 White Z8Y19 Asymmetric 79 %	90° 50° 50° 50° 50° 50° 50° 50° 50° 50° 5
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.6 cd/lm 1 White Z8Y19 Asymmetric	90° 50° 50° 50° 50° 50° 50° 50° 50° 50° 5
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.6 cd/lm 1 White Z8Y19 Asymmetric 79 % 0.5 cd/lm	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm 1 White Z8Y19 Asymmetric 79 % 0.5 cd/lm 1	
seoul semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seous semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White Z8Y19 Asymmetric 79 % 0.5 cd/lm 1 White	90°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm 1 White Z8Y19 Asymmetric 79 % 0.5 cd/lm 1 White	
seoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White Z8Y19 Asymmetric 79 % 0.5 cd/lm 1 White	



SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z8Y22	75°
FWHM / FWTM	Asymmetric	
Efficiency	90 %	50 <sup>4</sup> 50 <sup>4</sup>
Peak intensity	0.5 cd/lm	X / 300 X /
LEDs/each optic	1	400
Light colour	White	4°. dr
Required components:		500
		60
		700
		30* 30*
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z8Y22	5
FWHM / FWTM	Asymmetric	.75°
Efficiency	79 %	
Peak intensity	0.4 cd/lm	66* 66*
LEDs/each optic	1	
Light colour	White	45"
Required components:		400
Protective plate	e, glass	200
		30* 600 30*)
		30° 200 30°
		20 <sup>10</sup> 20 <sup>10</sup> 20 <sup>10</sup> 20 <sup>10</sup> 20 <sup>10</sup>
SEOUL SEMICONDUCTOR	Z8Y22P	50° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2
seoul semiconductor LED	Z8Y22P Asymmetric	20 <sup>1</sup> 20 20 <sup>1</sup> 20 20 <sup>1</sup> 20 20 <sup>1</sup> 20 20 <sup>1</sup> 20 20 <sup>2</sup> 20 <sup>2</sup> 20 20 <sup>2</sup> 20 20 <sup>2</sup> 20 20 <sup>2</sup> 20 20 <sup>2</sup> 20 20 <sup>2</sup> 20
seoul semiconductor LED FWHM / FWTM	Z8Y22P Asymmetric 91 %	30 <sup>1</sup> 90 <sup>2</sup>
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric	30 <sup>1</sup> 90 <sup>2</sup>
seoul semiconductor LED FWHM / FWTM	Asymmetric 91 %	30 <sup>1</sup> 90 <sup>2</sup>
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.4 cd/lm	30 <sup>1</sup> 90 <sup>1</sup>
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.4 cd/lm 1	50° 50° 50° 60°.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.4 cd/lm 1	50° 50° 50° 60°.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.4 cd/lm 1	50° 50° 50° 60°.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.4 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.4 cd/lm 1	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.4 cd/lm 1	
SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SECOUL SEMICONDUCTOR	Asymmetric 91 % 0.4 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED	Asymmetric 91 % 0.4 cd/lm 1 White Z8Y22T	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM	Asymmetric 91 % 0.4 cd/lm 1 White Z8Y22T Asymmetric	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 91 % 0.4 cd/lm 1 White Z8Y22T Asymmetric 82 %	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.4 cd/lm 1 White Z8Y22T Asymmetric	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONOUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.4 cd/lm 1 White Z8Y22T Asymmetric 82 % 0.4 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.4 cd/lm 1 White Z8Y22T Asymmetric 82 % 0.4 cd/lm	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONOUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.4 cd/lm 1 White Z8Y22T Asymmetric 82 % 0.4 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.4 cd/lm 1 White Z8Y22T Asymmetric 82 % 0.4 cd/lm 1 White	
SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.4 cd/lm 1 White Z8Y22T Asymmetric 82 % 0.4 cd/lm 1 White	



SEOUL SEOUL SEMICONDUCTOR		50° - 50°
LED	Z8Y22T	
FWHM / FWTM	Asymmetric	
Efficiency	93 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	er
Required component	s:	200
		60
		76
		70
		30" 30" 30" 30"



#### **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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