

## STRADELLA-IP-28-T3-PC

IESNA Type III (medium) beam for roads that are equal to or wider than mounting height. Variant made from PC.

## **TECHNICAL SPECIFICATIONS:**

Dimensions	100.0 x 100.0 mm
Height	9.2 mm
Fastening	pin, screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



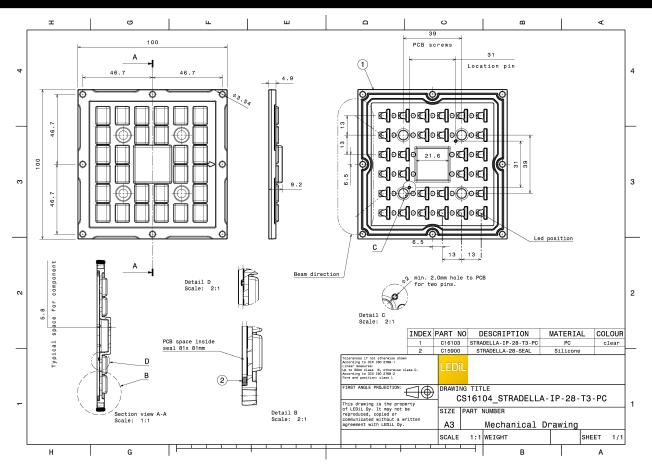
### **MATERIAL SPECIFICATIONS:**

Component	Туре	Material	Colour	Finish
STRADELLA-IP-28-T3-PC	Multi-lens	PC	clear	
STRADELLA-28-SEAL	Seal	Silicone	white	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS16104_STRADELLA-IP-28-T3-PC	Multi-lens	156	78	78	6.3
» Box size: 476 x 273 x 247 mm					





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



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	HiQLED STR28 CR JE2835 4x7 xxx Asymmetric 89 % 0.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	HiQLED STR28 CR JК3030 4x7 xxx Asymmetric 89 % 1 cd/lm 1 White nts:	
	QUICK FLUX STR28 XD2x14 xxx G8	20 70 20 20 20 20 20 20 20 20 20 20 20 20 20
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componei	Asymmetric 88 % 0.8 cd/lm 1 White	75 10 77 64 20 64 76 66 97
	но.	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	QUICK FLUX STR28 XP2x14 xxx G7 Asymmetric 86 % 0.6 cd/lm 1 White	97 75 64 76 76 76 76 76 76 76 76 76 76 76 76 76
Required component	nts:	200 200 200 200 200 200 200 200 200 200



	QUICK FLUX STR28 XT2x14 xxx G5	90*
FWHM / FWTM	Asymmetric	770 770
Efficiency	90 %	
		60° 60°.
Peak intensity	0.7 cd/lm	30
LEDs/each optic	1	$\times \times / \wedge \times \times$
Light colour	White	45° 440 45°
Required component	nts:	500
		60
		30° <u>700</u> 30° 30°
		90* 90*
LED	J Series 2835	
FWHM / FWTM	Asymmetric	
Efficiency	89 %	50 <sup>4</sup>
Peak intensity	0.9 cd/lm	$\nabla / \nabla / \nabla / \nabla / A$
LEDs/each optic	1	
Light colour	White	6° 6°
Required component	nts:	640
		$\times$ / $\times$
		800
		30°
		15° 0° 15°
	2	90* 00*
LED	J Series 3030	50 50
		<u>90</u> * <u>30</u>
LED	J Series 3030	90° 73° 200 200 200 200 200 200 200 200 200 20
LED FWHM / FWTM	J Series 3030 Asymmetric	60 <sup>4</sup> 20 20 20 20 60 <sup>4</sup> 20 60 <sup>4</sup> 20 60 <sup>4</sup>
LED FWHM / FWTM Efficiency	J Series 3030 Asymmetric 89 %	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White	6° 00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White	20 20 20 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White	201
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White	201
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White	20 20 20 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White hts:	20 20 20 60 60 60 60 60 60 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White hts:	20 60 60 60 60 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White hts:	20 60 60 60 60 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED LED FWHM / FWTM	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White hts: J Series 3030 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency	J Series 3030 Asymmetric 89 % 1 cd/m 1 White hts: J Series 3030 Asymmetric 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White hts: J Series 3030 Asymmetric 92 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White hts: J Series 3030 Asymmetric 92 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White hts: J Series 3030 Asymmetric 92 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White hts: J Series 3030 Asymmetric 92 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 89 % 1 cd/lm 1 White hts: J Series 3030 Asymmetric 92 % 0.8 cd/lm 1 White	



			an*	90*
LED	XD16		*	
FWHM / FWTM	Asymmetric		.75*	100 -75*
Efficiency	88 %		$X \rightarrow$	+XX
Peak intensity	0.8 cd/lm		50° / - 1	60*
LEDs/each optic	1		$\times$ $\rightarrow$	**
Light colour	White			
Required compone				00
			$\times$	
			1 -	500
			(30° 15 <sup>3</sup>	0° 15° 30°
			90*	90*
LED	XP-G3		5	
FWHM / FWTM	Asymmetric		25*	
Efficiency	86 %		VVA	
Peak intensity	0.6 cd/lm		607	604
LEDs/each optic	1		$X \rightarrow$	20
Light colour	White		45*	100 45*
Required compone	nts:			
			× 7-	***
				***
				30°
			30.	
	5		30° 15 <sup>2</sup>	9°19*
			90*	00
LED	XT-E		90* <u>15</u>	00 - 154 -
LED FWHM / FWTM	XT-E Asymmetric		9 <sup>2</sup> 19 <sup>1</sup>	00 97
LED FWHM / FWTM Efficiency	XT-E Asymmetric 90 %		90* 90* 80*	00 10 <sup>2</sup>
LED FWHM / FWTM Efficiency Peak intensity	XT-E Asymmetric 90 % 0.7 cd/lm		804 904 904	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XT-E Asymmetric 90 % 0.7 cd/lm 1		90 <sup>1</sup> 90 <sup>1</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 90 % 0.7 cd/lm 1 White		97 97 99 -	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XT-E Asymmetric 90 % 0.7 cd/lm 1 White		90° (91° (91° (91° (91° (91° (91° (91° (91	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 90 % 0.7 cd/lm 1 White		90 <sup>5</sup> 90 <sup>5</sup> 90 <sup>5</sup> 60 <sup>5</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 90 % 0.7 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 90 % 0.7 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E Asymmetric 90 % 0.7 cd/lm 1 White nts:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E Asymmetric 90 % 0.7 cd/lm 1 White nts:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E Asymmetric 90 % 0.7 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES)		90*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E Asymmetric 90 % 0.7 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES) Asymmetric		96 <sup>+</sup>	200 100 10 <sup>0</sup> 10 <sup>0</sup> 30 <sup>0</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E Asymmetric 90 % 0.7 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES) Asymmetric 91 %		96 <sup>+</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone With Compone Efficiency Peak intensity	XT-E Asymmetric 90 % 0.7 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES) Asymmetric 91 % 0.9 cd/lm		96 <sup>+</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>Composition</b> Required compone <b>Composition</b> <b>Composition</b>	XT-E Asymmetric 90 % 0.7 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES) Asymmetric 91 % 0.9 cd/lm 1		96 <sup>+</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 90 % 0.7 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES) Asymmetric 91 % 0.9 cd/lm 1 White		96 <sup>+</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>Composition</b> Required compone <b>Composition</b> <b>Composition</b>	XT-E Asymmetric 90 % 0.7 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES) Asymmetric 91 % 0.9 cd/lm 1 White		96 <sup>+</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 90 % 0.7 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES) Asymmetric 91 % 0.9 cd/lm 1 White		96 <sup>+</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 90 % 0.7 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES) Asymmetric 91 % 0.9 cd/lm 1 White		96 <sup>+</sup>	



<b>ØNICHI</b>		90* 90*
LED	NF2x757G	
FWHM / FWTM	Asymmetric	
Efficiency	90 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	457 440 457
Required compone	nts:	
		eio -
		30° 700 30° 30°
OSRAM		
Opto Semiconductors		90* 90*
	Duris S5 (2 chip)	758 200 750
FWHM / FWTM	Asymmetric 91 %	
Efficiency Peak intensity	91 % 0.8 cd/lm	
LEDs/each optic	1	30
Light colour	White	400
Required component		45° 500 67*
Required component		
		500
		760
		30° 15° 300 15° 30°
OSRAM Opto Semiconductors		84 84
LED	OSCONIQ S 3030	
FWHM / FWTM		75% 200 78*
FWHM / FWTM Efficiency	Asymmetric	
Efficiency	Asymmetric 91 %	20 79 60 <sup>+</sup> 20 60 <sup>+</sup> 60 <sup>+</sup>
Efficiency Peak intensity	Asymmetric	200 700 60 <sup>4</sup> 200 601
Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.7 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.7 cd/lm 1 White	10 <sup>4</sup> 20 6.7
Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.7 cd/lm 1 White	10 <sup>4</sup> 20 6.7
Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.7 cd/lm 1 White	10 <sup>4</sup> 20 6.7
Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.7 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 91 % 0.7 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 91 % 0.7 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 91 % 0.7 cd/lm 1 White nts:	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 91 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3	
Efficiency Peak intensity LEDs/each optic Light colour Required componer Optic Semiconductors LED FWHM / FWTM	Asymmetric 91 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 91 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 90 %	
Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required component Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 90 % 0.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 90 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 91 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 90 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 90 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 90 % 0.8 cd/lm 1 White	



SAMS	UNG	201	90*
LED	HiLOM SC28 (LH181B)		
FWHM / FWTM	Asymmetric	70	200 75%
Efficiency	89 %		200
Peak intensity	1 cd/lm		300
LEDs/each optic	1		
Light colour	White	<b>6</b>	400
Required compone	ents:		500
		$\setminus$ $+$	600
			700
		13	- 15°
SAMS	UNG	30.4	90*
LED	HiLOM SM28 (LM301B)		
		38	100 75*
FWHM / FWTM	Asymmetric		
Efficiency	Asymmetric 89 %		H C
			200 604
Efficiency	89 %		*** ***
Efficiency Peak intensity	89 % 0.9 cd/lm	607	
Efficiency Peak intensity LEDs/each optic	89 % 0.9 cd/lm 1 White	de de	20 20 00 00
Efficiency Peak intensity LEDs/each optic Light colour	89 % 0.9 cd/lm 1 White		20 50* 200 00*
Efficiency Peak intensity LEDs/each optic Light colour	89 % 0.9 cd/lm 1 White	57. 	



## **PHOTOMETRIC DATA (SIMULATED):**

MUMILED	)S	50° 90°
LED	LUXEON V2	
FWHM / FWTM	Asymmetric	13e 200 2e
Efficiency	87 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45° 400 45°
Required components:		X/T/X
		500
		30* 30*
0000414		13 <sup>2</sup> 0 <sup>4</sup> 15 <sup>4</sup>
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ C 2424	
FWHM / FWTM	Asymmetric	2. And 20.
Efficiency	85 %	and the second s
Peak intensity	0.7 cd/lm	60°
LEDs/each optic	1	20
Light colour	White	45* 400 45*
Required components:		
		200
		000
		30* 30*
CARCUR	10	
SAMSUN	IG	90 <sup>4</sup>
SAMSUN LED	LH231B	10 <sup>1</sup>
LED FWHM / FWTM	LH231B Asymmetric	
LED FWHM / FWTM Efficiency	LH231B Asymmetric 87 %	
LED FWHM / FWTM Efficiency Peak intensity	LH231B Asymmetric 87 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH231B Asymmetric 87 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B Asymmetric 87 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH231B Asymmetric 87 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B Asymmetric 87 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B Asymmetric 87 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B Asymmetric 87 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH231B Asymmetric 87 % 0.6 cd/lm 1 White	-00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH231B Asymmetric 87 % 0.6 cd/lm 1 White	-09 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH231B Asymmetric 87 % 0.6 cd/lm 1 White	-09 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	LH231B Asymmetric 87 % 0.6 cd/lm 1 White	-00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency	LH231B Asymmetric 87 % 0.6 cd/lm 1 White I H351B Asymmetric 85 %	-09 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity	LH231B Asymmetric 87 % 0.6 cd/lm 1 White I H351B Asymmetric 85 % 0.4 cd/lm	-09 
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	LH231B Asymmetric 87 % 0.6 cd/lm 1 White LH351B Asymmetric 85 % 0.4 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	LH231B Asymmetric 87 % 0.6 cd/lm 1 White I H351B Asymmetric 85 % 0.4 cd/lm	
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	LH231B Asymmetric 87 % 0.6 cd/lm 1 White LH351B Asymmetric 85 % 0.4 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	LH231B Asymmetric 87 % 0.6 cd/lm 1 White LH351B Asymmetric 85 % 0.4 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	LH231B Asymmetric 87 % 0.6 cd/lm 1 White LH351B Asymmetric 85 % 0.4 cd/lm 1	-00



## PHOTOMETRIC DATA (SIMULATED):

SAMSUN	IG	90*
LED	LH351C	
FWHM / FWTM	Asymmetric	75%
Efficiency	88 %	XX
Peak intensity	0.5 cd/lm	66* 200
LEDs/each optic	1	× 300 ×
Light colour	White	
Required components:		400
		540
		30°
		30 15 <sup>2</sup> 0 <sup>6</sup> 15 <sup>4</sup>
SEOUL		90*
LED	Z5M1/Z5M2	
FWHM / FWTM	Asymmetric	75*
Efficiency	87 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	300
Light colour	White	45* 400
Required components:		
		500
		60
		30°
		15 <sup>3</sup> 15 <sup>3</sup> 769 15 <sup>4</sup>
SECUL		909
LED	Z8Y19	
FWHM / FWTM	Asymmetric	720
Efficiency	85 %	
Peak intensity	0.7 cd/lm	60 <sup>14</sup> 300
LEDs/each optic	1	
Light colour	White	45* 400
Required components:		500
		30*
SEOUL		
JEOUE .		
SEOUL SEMICONDUCTOR		90*
SEOUL SEMICONDUCTOR	Z8Y22	por Epo
seoul semiconductor LED FWHM / FWTM	Asymmetric	8°
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 84 %	50- 73- 61- 61-
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.7 cd/lm	50°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.7 cd/lm 1	50- 70- 84- 84- 90- 90- 90- 90- 90- 90- 90- 90- 90- 90
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.7 cd/lm	50- 20- 20- 20- 20- 20- 20- 20- 20- 20- 2
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.7 cd/lm 1	50 20 60 67 60 60 60 60 60 60 60 60 60 60 60 60 60
seou. semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.7 cd/lm 1	50 20 20 20 20 20 20 20 20 20 2
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.7 cd/lm 1	50 20 20 20 20 20 20 20 20 20 2



#### **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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

#### LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

#### LEDiL Inc. 228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

#### Local sales and technical support www.ledil.com/ where\_to\_buy

Shipping locations Salo, Finland Hong Kong, China

Distribution Partners www.ledil.com/ where\_to\_buy