

PRODUCT DATASHEET CS16102_STRADELLA-IP-28-T3

STRADELLA-IP-28-T3

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

SPECIFICATION:

Dimensions	100.0 x 100.0 mm
Height	9.2 mm
Fastening	pin, screw
Ingress protection classes	IP66, IP67
ROHS compliant	yes 🛈



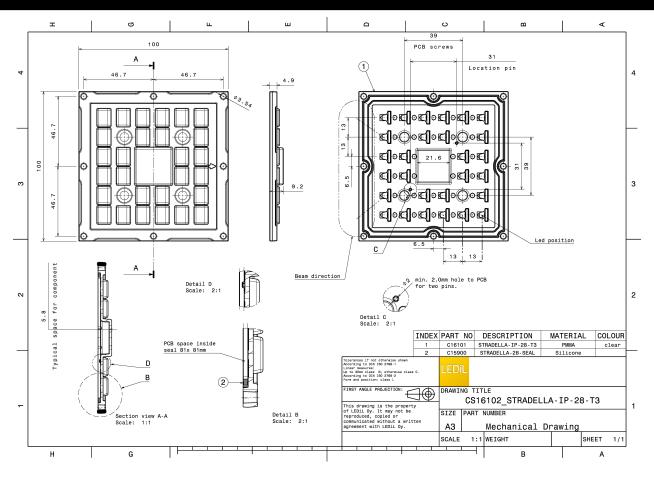
MATERIALS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS16102_STRADELLA-IP-28-T3	Multi-lens	156	78	78	6.3
» Box size: 476 x 273 x 247 mm					

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See also our general installation guide: <u>www.ledil.com/installation_guide</u>



		90* 90*
	HiQLED STR28 CR JE2835 4x7 xxx	5
FWHM / FWTM	Asymmetric	730 782
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required compone		49°
Required compone	ю.	600
		\times / \setminus \times
		800
		30° 15° 30°
		90* 90*
LED	HiQLED STR28 CR JK3030 4x7 xxx	75°
FWHM / FWTM	Asymmetric	
Efficiency	94 %	604
Peak intensity	1 cd/lm	400
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required compone	nts:	\times / \times
		000
		\times / \setminus \times
		30° 1000 30° 30°
CODET		
		90* 90*
LED	QUICK FLUX STR28 XD2x14 xxx G8	25*
FWHM / FWTM	Asymmetric	
Efficiency	94 %	. 60 [°] 20 [°] 60 [°] .
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	457 460 457
Required compone	nts:	
		560
		600
		30° 15' 0° 15' 30°
CONET		
FELECTRONICS		90° 90°
LED	QUICK FLUX STR28 XP2x14 xxx G7	75* 100 75*
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60× 60*
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	$\times \times / \top \setminus \times \vee$
Light colour	White	400 431
Required compone	NS:	
		60
		30° 15° 30° 30°



	QUICK FLUX STR28 XT2x14 xxx G5	30. 30.
FWHM / FWTM	Asymmetric	75* 200 75*
Efficiency	94 %	
	94 % 0.6 cd/lm	50° 60°.
Peak intensity		X X X
LEDs/each optic	1	$X \times I \times X$
Light colour	White	45* 400 45*
Required componer	nts:	200
		600
		30° 700 30°
		152 00 154
		90*
LED	J Series 2835	5
FWHM / FWTM	Asymmetric	12°
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60 ⁴ 604
LEDs/each optic	1	400
Light colour	White	.45*
Required componer		
		600
		\times / \setminus \times
		800
		30° 30° 30° 30°
CREE ≑		
		8.
LED	J Series 3030	80° - 80°.
LED FWHM / FWTM	Asymmetric	87 - 97 73 - 77 - 77
LED FWHM / FWTM Efficiency	Asymmetric 94 %	99° 193 193 193 195 195 195 195 195 195 195 195 195 195
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm	99° 13° 10° 10°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1	90° 13° 60° 600 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	90° 90° 73° 90° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	5° 00 0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 94 % 1 cd/lm 1 White	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 1 cd/lm 1 White nts:	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 94 % 1 cd/lm 1 White nts:	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED LED FWHM / FWTM	Asymmetric 94 % 1 cd/lm 1 White nts:	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency	Asymmetric 94 % 1 cd/lm 1 White nts: J Series 3030 Asymmetric 96 %	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm 1 White nts: J Series 3030 Asymmetric	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White nts: J Series 3030 Asymmetric 96 % 0.7 cd/lm 1	00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Experimental Experimental FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts: J Series 3030 Asymmetric 96 % 0.7 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	Asymmetric 94 % 1 cd/lm 1 White nts: J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Experimental Experimental FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts: J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Explanation of the second second LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts: J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White	



r		
		90* 90*
	XD16	750 700 75
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	457 440 457
Required compone	nts:	
		20
		600
		30* 35*
CREE ≑		
LEDS	VD C2	90* 90*
	XP-G3	751 .500 751
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60* 60.4
Peak intensity	0.6 cd/lm	30
LEDs/each optic	1	$\times \times / \square \times \times$
Light colour	White	. 65* 400 45*
Required compone	nts.	
		200
		30° 35° 30° 30°
	YTE	90°
LED	XT-E Asymmetric	20 20 20 92 92
LED FWHM / FWTM	Asymmetric	20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency	Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 0.6 cd/lm 1 White hts:	20 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 0.6 cd/lm 1 White hts: EDS LUXEON 3030 2D (Round LES)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MUMIL LED FWHM / FWTM	Asymmetric 94 % 0.6 cd/lm 1 White hts: EDS LUXEON 3030 2D (Round LES) Asymmetric	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Mequired component LED FWHM / FWTM Efficiency	Asymmetric 94 % 0.6 cd/lm 1 White hts: EDS LUXEON 3030 2D (Round LES) Asymmetric 94 %	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Mequired component ELED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.6 cd/lm 1 White hts: EDS LUXEON 3030 2D (Round LES) Asymmetric 94 % 0.8 cd/lm	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1 White hts: EDS LUXEON 3030 2D (Round LES) Asymmetric 94 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White hts: EDS LUXEON 3030 2D (Round LES) Asymmetric 94 % 0.8 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1 White hts: EDS LUXEON 3030 2D (Round LES) Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White hts: EDS LUXEON 3030 2D (Round LES) Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component Component Required component Equired component Required component Required component Equired component Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White hts: EDS LUXEON 3030 2D (Round LES) Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Methods of the second second Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White hts: EDS LUXEON 3030 2D (Round LES) Asymmetric 94 % 0.8 cd/lm 1 White	



ØNICHI/			
LED	NF2W585AR		
FWHM / FWTM	Asymmetric		
Efficiency	94 %		
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone	ents:		
ØNICHI/	۱		90* 90*
LED	NF2x757G		
FWHM / FWTM	Asymmetric		750 750
Efficiency	94 %		
Peak intensity	0.6 cd/lm		604 / 604
LEDs/each optic	1		300
Light colour	White		45* 400 45*
Required compone			
Required compone	51165.		200
			600
			30° 13 ⁵ 700 30°
ØNICHI/	1	-	90* 90*
LED	NVSW219F		
FWHM / FWTM	Asymmetric		75* 100 75*
Efficiency	94 %		
Peak intensity	0.6 cd/lm		.60 ⁴ 60 ⁴ .
LEDs/each optic	1		X / 300 X
Light colour	White		$\times \times / \land \times \times$
Required compone			40
	5113.		
			$X \land X$
			60
			30° 13° 0° 15° 30°
OSRAM			THY EFT
Opto Semiconductors	Durio SE (2 obio)		90* 90*
	Duris S5 (2 chip)		730 750
FWHM / FWTM	Asymmetric		
Efficiency	94 %		50° 604
Peak intensity	0.7 cd/lm		× **
LEDs/each optic	1		400
Light colour	White		45* 500 45*
Required compone	ents:		X = X
			600
			X To X
			30° an 30°
			15 ³ 0 ⁰⁰ 15 ⁴



OSRAM Opto Semiconductors		
Opto Semiconductors		90* 90*
LED	OSCONIQ S 3030 (QSLR31)	5
FWHM / FWTM	Asymmetric	200 734
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60° 66°
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required compone	nts:	
		X/T/X
		500
		700 300
		13 ³ 0 ⁴ 1 ³
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	750 200 75°
Efficiency	95 %	
Peak intensity	0.7 cd/lm	60*
LEDs/each optic	1	300
Light colour	White	45°
Required compone	nts:	XIIX
		500
		600
		30° 15 ² 26° 30°
SAMSL	ING	90 ⁺
LED	HiLOM SC28 (LH181B)	<u> </u>
FWHM / FWTM	Asymmetric	780 780
	93 %	
Efficiency		er er
Efficiency Peak intensity	93 %	20 ⁴ 00
Efficiency	93 % 0.9 cd/lm	
Efficiency Peak intensity LEDs/each optic	93 % 0.9 cd/lm 1 White	50 <u>60</u> 50
Efficiency Peak intensity LEDs/each optic Light colour	93 % 0.9 cd/lm 1 White	50 60 CT
Efficiency Peak intensity LEDs/each optic Light colour	93 % 0.9 cd/lm 1 White	50
Efficiency Peak intensity LEDs/each optic Light colour	93 % 0.9 cd/lm 1 White	60 00 00 00 00 00 00 00 00 00
Efficiency Peak intensity LEDs/each optic Light colour Required componen	93 % 0.9 cd/lm 1 White nts:	
Efficiency Peak intensity LEDs/each optic Light colour Required componen	93 % 0.9 cd/lm 1 White nts:	50°
Efficiency Peak intensity LEDs/each optic Light colour Required component	93 % 0.9 cd/lm 1 White nts:	80 80 80 80 80 80 80 80 80 80
Efficiency Peak intensity LEDs/each optic Light colour Required component	93 % 0.9 cd/lm 1 White hts:	000 30° 13° 33° 000 000 000 13° 33° 33°
Efficiency Peak intensity LEDs/each optic Light colour Required componen SAMSU	93 % 0.9 cd/lm 1 White hts: NG HiLOM SM28 (LM301B)	80 80 80 80 80 80 80 80 80 80
Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSU LED FWHM / FWTM	93 % 0.9 cd/lm 1 White hts: HILOM SM28 (LM301B) Asymmetric	80 80 80 80 80 80 80 80 80 80
Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSL LED FWHM / FWTM Efficiency	93 % 0.9 cd/m 1 White nts: NG HiLOM SM28 (LM301B) Asymmetric 94 %	60 50 ¹⁰ 10 ¹⁰ 10 ¹⁰ 10 ¹⁰
Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	93 % 0.9 cd/m 1 White hts: NG HiLOM SM28 (LM301B) Asymmetric 94 % 0.9 cd/m	600 100 100 100 100 100 100 100
Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	93 % 0.9 cd/m 1 White The HiLOM SM28 (LM301B) Asymmetric 94 % 0.9 cd/m 1 White	600 100 100 100 100 100 100 100
Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSL ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	93 % 0.9 cd/m 1 White The HiLOM SM28 (LM301B) Asymmetric 94 % 0.9 cd/m 1 White	000 000 000 000 000 000 000 000
Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSL ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	93 % 0.9 cd/m 1 White The HiLOM SM28 (LM301B) Asymmetric 94 % 0.9 cd/m 1 White	000 000 000 000 000 000 000 000
Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSL ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	93 % 0.9 cd/m 1 White hts: NGC HiLOM SM28 (LM301B) Asymmetric 94 % 0.9 cd/m 1 White	600 100 100 100 100 100 100 100



SEOUL SEOUL SEMICONDUCTOR		5° 5°
LED	Z5M3	
FWHM / FWTM	Asymmetric	73* 240 77.
Efficiency	94 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	a. at
Required compone	ents:	
		200
		20 ⁴ 22 ⁵ 0 ⁴ 13 ⁴ 20 ⁴



OPTICAL RESULTS (SIMULATED):

CREE ≑		
LEDS		90* 90*
LED	XP-E2	730 750
FWHM / FWTM	Asymmetric	
Efficiency	92 %	.60 ⁴ 60 ⁴ .
Peak intensity	0.8 cd/lm	400
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required components:		\times \times
		000
		30° 1000 30° 30°
		90° 90°
LED	XP-G	75°
FWHM / FWTM	Asymmetric	
Efficiency	91 %	60 ⁴ 200 60 ⁴
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	30
Light colour	White	6° 6°
Required components:		400
		200
		\times $/$ \top $/$ \times
		30* 500 30* 30*
		90* 90*
LED	XP-G2	75 - 70
FWHM / FWTM	Asymmetric	75*
Efficiency	92 %	60 ⁴ 60 ⁴
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	X / 30
Light colour	White	43° 43°
Required components:		460
		500
		\times
		30° 15° 0° 15° 30°
		90° 90°
LED	LUXEON TX	730 730
FWHM / FWTM	Asymmetric	1 X - A - A - A - A - A - A - A - A - A -
Efficiency	91 %	80 ⁴ 200 60 ⁴
Peak intensity	0.6 cd/lm	
LEDs/each optic		$X \times I \times X$
Light colour	White	45* 460 45*
Required components:		50
		00
		30* 13 ³ 0 ⁴ 15 ⁴ 30 ⁴
		15" 0" 15"



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OPTICAL RESULTS (SIMULATED):

MUMILED)S	90° 90°
LED	LUXEON V2	
FWHM / FWTM	Asymmetric	75° 100 75°
Efficiency	91 %	
Peak intensity	0.5 cd/lm	60° / 60°
LEDs/each optic	1	200
Light colour	White	45°
Required components:		400
		500
		600
		^{30*} <u>15</u> <u>0</u> ⁶ <u>15</u> ⁶ <u>30</u> ⁶
Μ ΝΙCΗΙΛ		90* 99*
LED	NVSxE21A	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	400
Light colour	White	65° 65°
Required components:		600
		30* 30*
		15' 0' 15'
OSRAM		
OSRAM Opto Semiconductors		20 ¹ 20 ¹ 20 ¹ 20 ¹
Opto Semiconductors	OSCONIQ C 2424	200 200 200 200 200 200 200 200 200 200
Opto Semiconductors LED FWHM / FWTM	Asymmetric	10 ² 0 ⁴ 10 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 92 %	200 200 200 00 200 00 000 000 000
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.6 cd/lm	20° 0° 27° 0° 20° 0° 27° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm	5°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White OSLON SSL 150	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 92 % 0.6 cd/lm 1 White OSLON SSL 150 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 92 % 0.6 cd/lm 1 White OSLON SSL 150 Asymmetric 91 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White OSLON SSL 150 Asymmetric	
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	Asymmetric 92 % 0.6 cd/lm 1 White OSLON SSL 150 Asymmetric 91 % 0.7 cd/lm	
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 % 0.6 cd/lm 1 White OSLON SSL 150 Asymmetric 91 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White OSLON SSL 150 Asymmetric 91 % 0.7 cd/lm 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 % 0.6 cd/lm 1 White OSLON SSL 150 Asymmetric 91 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White OSLON SSL 150 Asymmetric 91 % 0.7 cd/lm 1	



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OPTICAL RESULTS (SIMULATED):

SAMSUN	IG	90* 90
LED	LH231B	
FWHM / FWTM	Asymmetric	750 100 7
Efficiency	92 %	
Peak intensity	0.5 cd/lm	504
LEDs/each optic	1	X - 30
Light colour	White	45* 400 4
Required components:		
··· · · · · · · · · · · · · · · · · ·		500
		600
		30* 15° 3
SECUL		
seoul semiconductor	Z5M1/Z5M2	2
FWHM / FWTM	Asymmetric	730 700 7
Efficiency	93 %	
Peak intensity	0.5 cd/lm	604 × 76
LEDs/each optic	1	
Light colour	White	
Required components:	WING	
required components.		50
		600
		30* 15 ³ 759 15* 30
SEOUL		THY KHI
seoul semiconductor	Z8Y22	90* 90
		750 7200 77
FWHM / FWTM	Asymmetric 90 %	
Efficiency Peak intensity	0.6 cd/lm	60*
LEDs/each optic	1	
Light colour	White	400
Required components:	Wille	
Required components.		
		500
		50
		50 50 50
		299 600 700 700 700 700 700 700 700 700 700
@		50 00 30 30 40 40 40 40 40 40 40 40 40 40 40 40 40
SEOUL SEMICONDUCTOR		99 90 90 90 90 90 90 90 90 90 90 90 90 9
SEOUL SEMICONDUCTOR	Z8Y22P	99 90 90 90 90 90 90 90 90 90 90 90 90 9
seoul semiconductor LED FWHM / FWTM	Asymmetric	9° 0 97 0 97
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 91 %	9° 0 97 0 97
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.5 cd/lm	20 ⁺ 0 ⁺ 12 ⁺
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.5 cd/lm 1	20 ⁺ 0 ⁺ 12 ⁺
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm	20 ⁺ 0 ⁺ 12 ⁺
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.5 cd/lm 1	20 ⁺ 0 ⁺ 12 ⁺
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm 1	20 ⁺ 0 ⁺ 12 ⁺
seou. semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm 1	80° (100 (100 (100 (100 (100 (100 (100 (1



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:

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