

## STRADELLA-IP-28-T3

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

## 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:

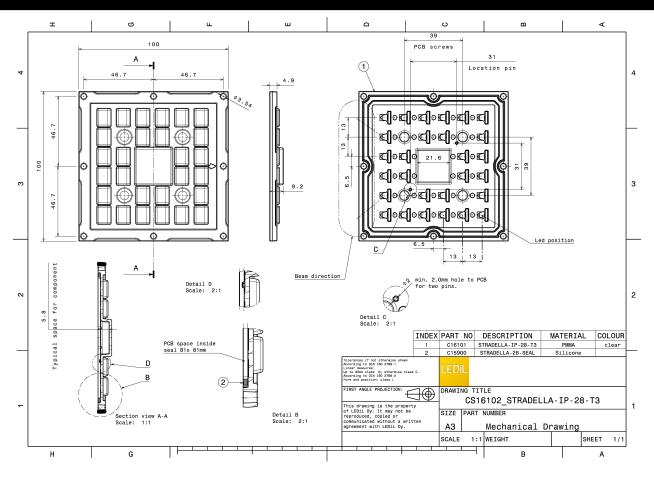
Component	Туре	Material	Colour	Finish
STRADELLA-IP-28-T3	Multi-lens	PMMA	clear	
STRADELLA-28-SEAL	Seal	Silicone	white	

#### **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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## PRODUCT DATASHEET CS16102\_STRADELLA-IP-28-T3



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



LED HIGLED STR28 CR JE2835 4x7 rox FWM/ FVTM Agymetric Efficiency 9 4 % Pask intersity 0 5 odm LEOkenh opic 1 Light colour White Required components: LED HIGLED STR28 CR JE3030 4x7 xxx FVM/ FVTM Agymetric Efficiency 4 4% Pask intersity 1 od/in LEOkenh opic 1 Light colour White Required components: Efficiency 3 4 % Pask intersity 0 cd/in LEOkenh opic 1 Light colour White Efficiency 3 4 % Pask intersity 0 cd/in LEOkenh opic 1 Light colour White Efficiency 3 4 % Pask intersity 0 cd/in LEOkenh opic 1 Light colour White Efficiency 3 4 % Pask intersity 0 cd/in LEOkenh opic 1 Light colour White Required components: Efficiency 3 4 % Pask intersity 0 cd/in LEOkenh opic 1 Light colour White Required components: Efficiency 3 4 % Pask intersity 0 cd/in LEOkenh opic 1 Light colour White Required components: Efficiency 3 4 % Pask intersity 0 cd/in LEOkenh opic 1 Light colour White Required components: Efficiency 3 4 % Pask intersity 0 cd/in LEOkenh opic 1 Light colour White Required components: Efficiency 3 4 % Pask intersity 0 cd/in LEOkenh opic 1 Light colour White Required components:			
LED       HiQLED STR28 CR JD\$3030 4x7 xxx         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       1 cd/m         LEDseach optic       1         Light colour       White         Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	
LED QUICK FLUX STR28 XD2x14 xxx G8 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.7 cd/m LEDs/each optic 1 Light colour White Required components: CONCENT LED QUICK FLUX STR28 XP2x14 xxx G7 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
Peak intensity       0.7 cd/lm         LEDs/each optic       1         Light colour       White         Required components:       Image: Component State S	LED FWHM / FWTM	Asymmetric	
LED QUICK FLUX STR28 XP2x14 xxx G7 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White	Peak intensity LEDs/each optic Light colour	0.7 cd/lm 1 White	
LEDs/each optic 1 Light colour White	LED FWHM / FWTM Efficiency	Asymmetric 94 %	
	LEDs/each optic Light colour	1 White	5 <sup>1</sup> 50 50 60



	QUICK FLUX STR28 XT2x14 xxx G5	90" 90"
FWHM / FWTM	Asymmetric	75* 100 75*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	50° 60°.
		X X X
LEDs/each optic	1	
Light colour	White	45° 400 45°
Required componen	15.	
		30° 700 30° 30°
	l	90* 90*
LED	J Series 2835	4
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	400
Light colour	White	6'
Required componen	ts:	000
		30* 30*
		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>6</sup>
		90* 90*
	J Series 3030	<u>9</u> ,*
		90 <sup>4</sup> 99 <sup>4</sup> 200 99 <sup>5</sup>
LED	J Series 3030	90°
LED FWHM / FWTM	J Series 3030 Asymmetric	40 70 70 70 70 70 70
LED FWHM / FWTM Efficiency	J Series 3030 Asymmetric 96 %	
LED FWHM / FWTM Efficiency Peak intensity	J Series 3030 Asymmetric 96 % 0.7 cd/lm	45 40 40 40 40 40 40 40 40 40 40 40 40 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White	807 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White	807 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White	807 00 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White	807 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White	807 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White tts: J Series 3030	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White ts: J Series 3030 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White ts: J Series 3030 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen LED FWHM / FWTM Efficiency Peak intensity	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White ts: J Series 3030 Asymmetric 94 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White ts: J Series 3030 Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White ts: J Series 3030 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White ts: J Series 3030 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White ts: J Series 3030 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 Asymmetric 96 % 0.7 cd/lm 1 White ts: J Series 3030 Asymmetric 94 % 1 cd/lm 1 White	



LED	 XD16	~ ~ ~
FWHM / FWTM	Asymmetric	75* 100 75*
Efficiency	94 %	
Peak intensity	0.7 cd/lm	.00 <sup>4</sup> - 20 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	× × ×
Light colour	White	
Required compone		
		500
		600
		 36° <u>15°</u> 0° <u>15°</u> 30°
		90°
LED	XP-G3	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	at the second se
Peak intensity	0.6 cd/lm	20 <sup>6</sup>
LEDs/each optic	1	
Light colour	White	451 300 651
Required compone	nts:	400
		500
		30* 30*
		15° 0° 15°
		NV VVI
		39°
LED	XT-E	94
LED FWHM / FWTM	XT-E Asymmetric	94* 99* 75* 100 78
LED FWHM / FWTM Efficiency	XT-E Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	XT-E Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XT-E Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XT-E Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E Asymmetric 94 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E Asymmetric 94 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E Asymmetric 94 % 0.6 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E Asymmetric 94 % 0.6 cd/lm 1 White nts: <b>EDS</b> LUXEON 3030 2D (Round LES) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E Asymmetric 94 % 0.6 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES) Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E Asymmetric 94 % 0.6 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES) Asymmetric 94 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E Asymmetric 94 % 0.6 cd/lm 1 White nts: 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 compone	XT-E Asymmetric 94 % 0.6 cd/lm 1 White nts: 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 compone	XT-E Asymmetric 94 % 0.6 cd/lm 1 White nts: 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 compone	XT-E Asymmetric 94 % 0.6 cd/lm 1 White nts: 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 compone	XT-E Asymmetric 94 % 0.6 cd/lm 1 White nts: EDS LUXEON 3030 2D (Round LES) Asymmetric 94 % 0.8 cd/lm 1 White	



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<b>∕∕</b> NICHI∧		90* ·	90*
LED	NF2W585AR		
FWHM / FWTM	Asymmetric	75*	75*
Efficiency	94 %		5/
Peak intensity	0.6 cd/lm	50"	60*.
LEDs/each optic	1		
Light colour	White	45* 400	45*
Required compone	nts:		
		200	
		60	
		30°	30*
$\sim$		150 86 190	1
<b>ØNICHI</b>		90*	90*
LED	NF2W585AR	5	
FWHM / FWTM	Asymmetric	250	75*
Efficiency	94 %		S.
Peak intensity	0.6 cd/lm	50"	60*
LEDs/each optic	1	30	
Light colour	White	45* 400	45*
Required compone	nts:		
		200	
		600	
		30° 759 10°	30*
		15* 29 15*	
		NY YH	(
		90*	90*
LED	NF2x757G	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	90*
LED FWHM / FWTM	NF2x757G Asymmetric	80*	90* 78°
LED FWHM / FWTM Efficiency	NF2x757G Asymmetric 94 %		90* 785 60*
LED FWHM / FWTM Efficiency Peak intensity	NF2x757G Asymmetric 94 % 0.6 cd/lm	8° 50 80 80	90* 20* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NF2x757G Asymmetric 94 % 0.6 cd/lm 1	8° 10 6° 30	90* 71° 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White		90* 75% 66*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White	6 <sup>1</sup> 60 90 90	90* 735 667
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White		90* 735 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White		90* 755 60* 65*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White nts:		90 <sup>4</sup> 775 6,4 6,4
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White nts:		99 <sup>7</sup> 755 6,4 65 <sup>9</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White nts:		99 <sup>4</sup> 60 <sup>4</sup> 99 <sup>4</sup> 99 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White nts:		99 <sup>-</sup> 60 <sup>4</sup> 60 <sup>4</sup> 90 <sup>-</sup> 90 <sup>-</sup> 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White nts: NVSW219F Asymmetric 94 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White nts: NVSW219F Asymmetric 94 % 0.6 cd/lm		99" 6,4 6,7 6,7 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White nts: NVSW219F Asymmetric 94 % 0.6 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White nts: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White nts: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White		99 <sup>7</sup> 755 6,4 757 757 757 757 757 757 757 757 757
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White nts: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 94 % 0.6 cd/lm 1 White nts: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White		99 75 75 75 75 75 75 75 75 75 75



OSRAM Opto Semiconductors		
LED	Duris S5 (2 chip)	yo- yo-
FWHM / FWTM	Asymmetric	275 200 275
Efficiency	94 %	
Peak intensity	0.7 cd/lm	ave and a set
LEDs/each optic	1	
Light colour	White	400
Required compone		407 540
		600
		710
		30° 12° 00 13° 30°
OSRAM		
Opto Semiconductors	OSCONIQ S 3030	90* 90*
FWHM / FWTM	Asymmetric	775 200 776
Efficiency	94 %	
Peak intensity	0.7 cd/lm	.604 604
LEDs/each optic	1	30
Light colour	White	45* 400 45*
Required compone		
·····		200
		600
		30° 700 30° 30°
OSRAM		
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	8° 87
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	ge g
opto Semiconductors LED FWHM / FWTM	Asymmetric	5
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 95 %	5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 0.7 cd/lm	5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 %	5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 95 % 0.7 cd/lm 1 White ints:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 95 % 0.7 cd/lm 1 White ints:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 95 % 0.7 cd/lm 1 White Ints:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED	Asymmetric 95 % 0.7 cd/lm 1 White ints: UNG HiLOM SC28 (LH181B)	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM	Asymmetric 95 % 0.7 cd/lm 1 White ints: JNG HiLOM SC28 (LH181B) Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	Asymmetric 95 % 0.7 cd/lm 1 White ints:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSU</b> LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 0.7 cd/lm 1 White ints:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SANSU</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.7 cd/lm 1 White ints:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1 White ints:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSU</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.7 cd/lm 1 White ints:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1 White ints:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1 White ints:	



SAMS	UNG	907
LED	HiLOM SM28 (LM301B)	S
FWHM / FWTM	Asymmetric	79-
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	47° 760 47°
Required compone	ents:	
		00
		70
		10° 800 800
SEOUL SEMICONDUCTOR		90* 91*
LED	Z5M3	
FWHM / FWTM	Asymmetric	75° 200 78°.
Efficiency	94 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	30
Light colour	White	er et
Required compone	ents:	40
		00



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

		90*
LED	XP-E2	
FWHM / FWTM	Asymmetric	75° 75°
Efficiency	92 %	
Peak intensity	0.8 cd/lm	604 604
		400
LEDs/each optic	1	$X \times I \times X$
Light colour	White	45* 500 45*
Required components:		$\times$
		000
		$\times$
		30* 1090 30* 30*
		90* 90*
LED	XP-G	
FWHM / FWTM	Asymmetric	75° 75°
Efficiency	91 %	
Peak intensity	0.4 cd/lm	.50° - 200 - 60*
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		400
		$\times$
		200
		30° 600 30° 30° 30°
		90°
	XP-G2	97
LED	XP-G2 Asymmetric	90° 73° 500 72°
LED FWHM / FWTM	XP-G2 Asymmetric 92 %	92° 33° 00 75°
LED FWHM / FWTM Efficiency	Asymmetric	50°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1	67 67 69 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1	97 73 64 65 66 66 66 66 67 66 67 66 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1 White	40 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	40 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	40 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	40 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	40 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White UXEON TX Asymmetric 91 % 0.6 cd/lm 1	40 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: UDMILEC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1 White UXEON TX Asymmetric 91 % 0.6 cd/lm	40 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White UXEON TX Asymmetric 91 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: UDMILEC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1 White UXEON TX Asymmetric 91 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: UDMILEC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1 White UXEON TX Asymmetric 91 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>CONTINUES</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1 White UXEON TX Asymmetric 91 % 0.6 cd/lm 1	



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

M LUMILED	)S	90° 90°
LED	LUXEON V2	
FWHM / FWTM	Asymmetric	75° 100 75°
Efficiency	91 %	
Peak intensity	0.5 cd/lm	60* /
LEDs/each optic	1	300
Light colour	White	45°
Required components:		400
		500
		600
		<sup>30*</sup> <u>15</u> <u>0</u> <sup>6</sup> <u>15</u> <sup>6</sup> <u>30</u> <sup>6</sup>
<b>Μ</b> 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 <sup>1</sup> 20 <sup>1</sup> 20 <sup>1</sup> 20 <sup>1</sup>
Opto Semiconductors	OSCONIQ C 2424	200 200 200 200 200 200 200 200 200 200
Opto Semiconductors LED FWHM / FWTM	Asymmetric	10 <sup>2</sup> 0 <sup>4</sup> 10 <sup>4</sup>
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° 0° 27° 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	



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

SAMSUN	IG	90* 90
LED	LH231B	
FWHM / FWTM	Asymmetric	750 700 72
Efficiency	92 %	
Peak intensity	0.5 cd/im	604 64
LEDs/each optic	1	
Light colour	White	45* 440 47
Required components:		
····		500
		600
		30* 15 <sup>5</sup> 700 15* 30
SEOUL		80*
LED	Z5M1/Z5M2	
FWHM / FWTM	Asymmetric	750 200 70
Efficiency	93 %	
Peak intensity	0.5 cd/lm	504 60
LEDs/each optic	1	
Light colour	White	45* 400 45
Required components:		
····		500
		30* 15 <sup>5</sup> 700 15* 30
SECUL		
SEOUL SEMICONDUCTOR	Z8Y22	
FWHM / FWTM	Asymmetric	756 100 75
Efficiency	90 %	
Peak intensity	0.6 cd/lm	634 60
LEDs/each optic		**
LEDs/each optic Light colour	1	30
Light colour		47° 300 40
	1	er 60
Light colour	1	
Light colour	1	5% 00 70
Light colour Required components:	1	200 40° 40° 500 500 500 500 500 500 500 5
Light colour Required components:	1	50 60 30 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30
Light colour Required components:	1 White	50
Light colour Required components: seoul semiconductor LED	1 White Z8Y22P	50 60 20 <sup>1</sup> 20 <sup>2</sup> 30 30 30 30 30 30 30 30 30 30 30 30 30 3
Light colour Required components: seous semiconductor LED FWHM / FWTM	1 White Z8Y22P Asymmetric	50 50 50 50 50 50 50 50 50 50
Light colour Required components: seous semiconportor LED FWHM / FWTM Efficiency	1 White Z8Y22P Asymmetric 91 %	500 600 50° 50° 50° 50° 50° 50° 50° 50° 50° 5
Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	1 White Z8Y22P Asymmetric 91 % 0.5 cd/lm	50 50 50 50 50 50 50 50 50 50
Light colour Required components: seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White Z8Y22P Asymmetric 91 % 0.5 cd/lm 1	50 60 10 10 10 10 10 10 10 10 10 1
Light colour Required components: seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White Z8Y22P Asymmetric 91 % 0.5 cd/lm	50 50 50 50 50 50 50 50 50 50
Light colour Required components: seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White Z8Y22P Asymmetric 91 % 0.5 cd/lm 1	90° 10° 10° 10° 10° 10° 10° 10° 1
Light colour Required components: seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White Z8Y22P Asymmetric 91 % 0.5 cd/lm 1	90° 10° 10° 10° 10° 10° 10° 10° 1
Light colour Required components: seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White Z8Y22P Asymmetric 91 % 0.5 cd/lm 1	50 60 10 10 10 10 10 10 10 10 10 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:

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