

## STRADELLA-IP-28-VSM

IESNA Type V (square) beam for wide areas lighting such as car parks. Variant made from PMMA.

#### **TECHNICAL SPECIFICATIONS:**

Dimensions	100.0 x 100.0 mm
Height	9.5 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈

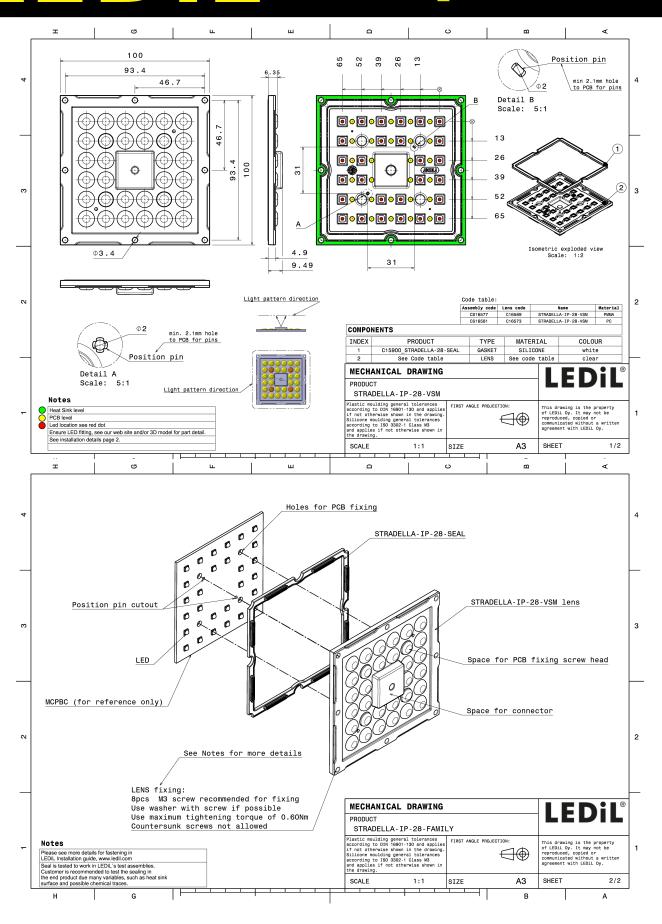


### MATERIAL SPECIFICATIONS:

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

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS16577_STRADELLA-IP-28-VSM	Multi-lens	156	78	78	6.0
» Box size: 476 x 273 x 247 mm					



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



	HiQLED STR28 CR JE2835 4x7 xxx	
FWHM / FWTM	129.0° / 140.0°	75° 100 75°
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60* 200 60*
LEDs/each optic	1 White	300
Light colour Required compone		45* 400 43*
Required compone	115.	$\times$ $\wedge$ $\times$
		200
		30° 25 <sup>5</sup> 0° 15° 30°
ELECTRONICS		THA FHI
		90* 90*
LED	HiQLED STR28 CR JЊ3030 4x7 xxx	75°
FWHM / FWTM	128.0° / 137.0°	
Efficiency	94 %	634 270 60*
Peak intensity	0.5 cd/lm	300
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required compone	ints:	
		30* 30*
		15 <sup>5</sup> 280 15 <sup>+</sup>
CONET		90* 90*
	QUICK FLUX STR28 XD2x14 xxx G8	894
LED	QUICK FLUX STR28 XD2x14 xxx G8 141.0° / 148.0°	50 <sup>4</sup> 0 <sup>4</sup>
LED FWHM / FWTM	141.0° / 148.0°	9/1 3/2 3/2 3/2 3/2
LED FWHM / FWTM Efficiency	141.0° / 148.0° 94 %	901 37 20 601
LED FWHM / FWTM Efficiency Peak intensity	141.0° / 148.0° 94 % 0.5 cd/lm	901 73 601 601 601
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	141.0° / 148.0° 94 % 0.5 cd/lm 1	90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 148.0° 94 % 0.5 cd/lm 1 White	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	141.0° / 148.0° 94 % 0.5 cd/lm 1 White	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 148.0° 94 % 0.5 cd/lm 1 White	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 148.0° 94 % 0.5 cd/lm 1 White	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 148.0° 94 % 0.5 cd/lm 1 White	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	141.0° / 148.0° 94 % 0.5 cd/lm 1 White	20 50 50 60 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	141.0° / 148.0° 94 % 0.5 cd/lm 1 White ints:	20 50 50 60 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	141.0° / 148.0° 94 % 0.5 cd/lm 1 White Ints: QUICK FLUX STR28 XP2x14 xxx G7	20 50 50 60 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	141.0° / 148.0° 94 % 0.5 cd/lm 1 White ints: QUICK FLUX STR28 XP2x14 xxx G7 146.0° / 159.0°	20 50 50 60 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	141.0° / 148.0° 94 % 0.5 cd/lm 1 White ints: QUICK FLUX STR28 XP2x14 xxx G7 146.0° / 159.0° 94 %	200 50 60 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone EED FWHM / FWTM Efficiency Peak intensity	141.0° / 148.0° 94 % 0.5 cd/lm 1 White ints: QUICK FLUX STR28 XP2x14 xxx G7 146.0° / 159.0° 94 % 0.4 cd/lm	20 50 50 60 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	141.0° / 148.0° 94 % 0.5 cd/lm 1 White ints: QUICK FLUX STR28 XP2x14 xxx G7 146.0° / 159.0° 94 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 148.0° 94 % 0.5 cd/lm 1 White ints: QUICK FLUX STR28 XP2x14 xxx G7 146.0° / 159.0° 94 % 0.4 cd/lm 1 White	20 50 50 60 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	141.0° / 148.0° 94 % 0.5 cd/lm 1 White ints: QUICK FLUX STR28 XP2x14 xxx G7 146.0° / 159.0° 94 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 148.0° 94 % 0.5 cd/lm 1 White ints: QUICK FLUX STR28 XP2x14 xxx G7 146.0° / 159.0° 94 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 148.0° 94 % 0.5 cd/lm 1 White ints: QUICK FLUX STR28 XP2x14 xxx G7 146.0° / 159.0° 94 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 148.0° 94 % 0.5 cd/lm 1 White ints: QUICK FLUX STR28 XP2x14 xxx G7 146.0° / 159.0° 94 % 0.4 cd/lm 1 White	



	QUICK FLUX STR28 XT2x14 xxx G5	90*90*
FWHM / FWTM	146.0° / 157.0°	75* 75*
	94 %	
Efficiency		50* 200 50*
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	× + 300
Light colour	White	6. 6.
Required compone	nts.	400
		30° 15 <sup>3</sup> 80 25° 30°
LED	J Series 2835	
FWHM / FWTM	129.0° / 140.0°	73%
Efficiency	94 %	
Peak intensity	0.5 cd/lm	50 <sup>4</sup> 200 50 <sup>4</sup> .
LEDs/each optic	1	
Light colour	White	- 5 <sup>1</sup>
Required compone		400
Required compone		$\times$
		500
		30° <u>600</u> 30° <u>15</u> ° 0° <u>15</u> ° <u>30°</u>
		90° 90°
		N' V'
LED	J Series 3030	50* 50* 73*
LED FWHM / FWTM		9)* 9p* 75* 500 75*
LED FWHM / FWTM Efficiency	J Series 3030 128.0° / 137.0° 94 %	99* 175 - 200 60*
LED FWHM / FWTM Efficiency Peak intensity	J Series 3030 128.0° / 137.0°	90° 23° 20° 20° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White	50° 50° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White	50° 500 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White	5° 5° 5° 5° 5° 5° 5° 5° 5° 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White nts: J Series 3030	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White nts: J Series 3030 138.0° / 148.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE Component LED FWHM / FWTM Efficiency	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White nts: J Series 3030 138.0° / 148.0° 98 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White nts: J Series 3030 138.0° / 148.0° 98 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White nts: J Series 3030 138.0° / 148.0° 98 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White nts: J Series 3030 138.0° / 148.0° 98 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White nts: J Series 3030 138.0° / 148.0° 98 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	J Series 3030 128.0° / 137.0° 94 % 0.5 cd/lm 1 White nts: J Series 3030 138.0° / 148.0° 98 % 0.4 cd/lm 1 White	



LED	- XD16	Ĩ Î
FWHM / FWTM	141.0° / 148.0°	350
Efficiency	94 %	
Peak intensity	0.5 cd/lm	.50° 200 50°
LEDs/each optic	1	
Light colour	White	45° 300 45°
Required compone		
		400
		X / T / X
		30° 252 0° 10° 30°
		90*
LED	XP-G3	
FWHM / FWTM	146.0° / 159.0°	75* 700 75*
Efficiency	94 %	
Peak intensity	0.4 cd/lm	50° 200 50°
LEDs/each optic	1	
Light colour	White	45* 3% 45*
Required compone	nts:	
		5/0
_		14 <sup>3</sup> 0 <sup>6</sup> 19 <sup>6</sup>
		25 <sup>3</sup> 0 <sup>4</sup> 15 <sup>3</sup>
	XT-E	90 <sup>2</sup> 9 <sup>2</sup> 9 <sup>2</sup> 99 <sup>2</sup>
LED		90°
LED FWHM / FWTM	XT-E	
LED FWHM / FWTM Efficiency Peak intensity	XT-E 146.0° / 157.0°	25 <sup>°</sup> 0 <sup>°</sup> 25 <sup>°</sup> 95 <sup>°</sup> 25 <sup>°</sup> 65 <sup>°</sup> 260 60 <sup>°</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1	22 <sup>°</sup> 0 <sup>°</sup> 12 <sup>°</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White	65 00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White	12 <sup>3</sup> 0 <sup>3</sup> 13 <sup>3</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: NF2W585AR	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White hts: NF2W585AR Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: NF2W585AR Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: NF2W585AR Asymmetric 94 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: NF2W585AR Asymmetric 94 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MICHIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: NF2W585AR Asymmetric 94 % 0.4 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 Light colour	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: NF2W585AR Asymmetric 94 % 0.4 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	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: NF2W585AR Asymmetric 94 % 0.4 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 Light colour	XT-E 146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: NF2W585AR Asymmetric 94 % 0.4 cd/lm 1 White	



<b>ØNICHI</b>			90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2W585AR Asymmetric 94 % 0.4 cd/lm 1 White nts:		20 20 20 20 20 20 20 20 20 20 20 20 20 2
<b>∕∕</b> NICHI∧			50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 153.0° / 161.0° 94 % 0.4 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B 154.0° / 166.0° 94 % 0.3 cd/lm 1 White		
OSRAM Opto Semiconductors		Luminaire: LEDIL Oy CS16577 STRADELLA-IP-28-VSM (Duris, S5) Lamps: 1 x Orzam, Duris, S5, Stradella28, (GW) PSR32 EMJQDS A333-1) _782.415m@250m&,CCT=5000C,P=4.88566VF,U=19.548V	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris S5 (Single chip) 138.0° / 146.0° 94 % 0.4 cd/lm 1 White nts:	50 50 50 50 50 50 50 50 50 50	



OSRAM Opto Semiconductors		
LED	OSCONIQ S 3030	
FWHM / FWTM	Asymmetric	73° 100 75°
Efficiency	94 %	
Peak intensity	0.4 cd/lm	50 <sup>4</sup> 200 60*
LEDs/each optic	1	
Light colour	White	45* 45*
Required compone		40
		$\times$
		200
		30° 000 30° 30°
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	144.0° / 151.0°	73°
Efficiency	96 %	
Peak intensity	0.4 cd/lm	. 50 <sup>4</sup> 200 50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45*
Required compone		400
		$\times$ $\land$ $\land$ $\times$
		200
		30° 15 <sup>5</sup> 800 15* 30°
SAMSI	JNG	90°
LED	HiLOM SC28 (LH181B)	
FWHM / FWTM	125.0° / 134.0°	71° 70° 71°
Efficiency	94 %	
Peak intensity	0.4 cd/lm	60° 200 60°.
LEDs/each optic	1	
Light colour	White	45* 300
Required compone	nts:	400
		$\times$ / T / X
		500
		300 300
0.0.0.0		132 200 115*
SAMSI	JNG	90* 90*
LED	HiLOM SM28 (LM301B)	
FWHM / FWTM	129.0° / 142.0°	712 500 772
Efficiency	94 %	
Peak intensity	0.5 cd/lm	50° 200 60*
LEDs/each optic	1	XX
Light colour	White	45* 45*
Required compone	nts:	
		$\times$
		× 100
		500 501 500



SEOUL		
SEOUL SEMICONDUCTOR		90*
LED	Z5M3	
FWHM / FWTM	147.0° / 162.0°	
Efficiency	94 %	
Peak intensity	0.4 cd/lm	. @ <sup>16</sup> 200 60 <sup>+</sup> .
LEDs/each optic	1	
Light colour	White	-5° - 200 - 63
Required compone	nts:	
		40
		**
		30 <sup>4</sup> 25 <sup>5</sup> 0 <sup>6</sup> 25 <sup>4</sup>



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

	XP-E2	90° 90°
LED FWHM / FWTM	AP-E2 130.0° / 137.0°	75° 100 75°
		200
Efficiency	95 %	50° 50°
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	400
Light colour	White	45* 500 45*
Required components:		000
		710
		30* 800 30*
		90* 90*
LED	LUXEON V2	
FWHM / FWTM	150.0° / 158.0°	
Efficiency	94 %	60° 60°
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	65 <sup>+</sup> 65 <sup>+</sup>
Required components:		
		$\times$ $\land$ $\times$
		200
A		12 <sup>4</sup> 2 <sup>4</sup> 13 <sup>5</sup>
<b>Μ</b> ΝΙCΗΙΛ		90* 90*
LED	NF2x757G	
	11/2/13/6	
FWHM / FWTM	144.0° / 155.0°	75'
FWHM / FWTM Efficiency		R. Constant Street
	144.0° / 155.0°	2 <sup>3</sup> 2 <sup>90</sup> 6 <sup>3</sup>
Efficiency	144.0° / 155.0° 93 %	2°
Efficiency Peak intensity	144.0° / 155.0° 93 % 0.3 cd/lm	22. 20. 22. 20. 20. 90. 23. 25.
Efficiency Peak intensity LEDs/each optic	144.0° / 155.0° 93 % 0.3 cd/lm 1	20
Efficiency Peak intensity LEDs/each optic Light colour	144.0° / 155.0° 93 % 0.3 cd/lm 1	20
Efficiency Peak intensity LEDs/each optic Light colour	144.0° / 155.0° 93 % 0.3 cd/lm 1	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
Efficiency Peak intensity LEDs/each optic Light colour	144.0° / 155.0° 93 % 0.3 cd/lm 1	200
Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 155.0° 93 % 0.3 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	144.0° / 155.0° 93 % 0.3 cd/lm 1	200
Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 155.0° 93 % 0.3 cd/lm 1	20
Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 155.0° 93 % 0.3 cd/lm 1 White	200
Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 155.0° 93 % 0.3 cd/lm 1 White	200
Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 155.0° 93 % 0.3 cd/lm 1 White OSCONIQ C 2424 142.0° / 150.0°	200
Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 155.0° 93 % 0.3 cd/lm 1 White OSCONIQ C 2424 142.0° / 150.0° 94 %	20
Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 155.0° 93 % 0.3 cd/lm 1 White OSCONIQ C 2424 142.0° / 150.0° 94 % 0.4 cd/lm 1	20
Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 155.0° 93 % 0.3 cd/lm 1 White OSCONIQ C 2424 142.0° / 150.0° 94 % 0.4 cd/lm	200 200 200 200 200 200 200 200 200 200
Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 155.0° 93 % 0.3 cd/lm 1 White OSCONIQ C 2424 142.0° / 150.0° 94 % 0.4 cd/lm 1	200 200 200 200 200 200 200 200 200 200
Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 155.0° 93 % 0.3 cd/lm 1 White OSCONIQ C 2424 142.0° / 150.0° 94 % 0.4 cd/lm 1	20° 200 20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 155.0° 93 % 0.3 cd/lm 1 White OSCONIQ C 2424 142.0° / 150.0° 94 % 0.4 cd/lm 1	20° 200 20° 20° 20° 20° 20° 20° 20° 20° 20° 20°



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

Г		
OSRAM		
Opto Semiconductors	OSCONIQ P 3030	90* 90*
FWHM / FWTM	146.0° / 156.0°	750 750
	95 %	
Efficiency	95 % 0.5 cd/lm	60 <sup>4</sup> 200 60 <sup>4</sup>
Peak intensity		
LEDs/each optic		30
Light colour	White	45* 400 45*
Required components:		$\times$
		30° 11° 00° 30°
SAMSUN	10	
		90* 90*
LED	LH181B	75* 100 77*
FWHM / FWTM	140.0° / 148.0°	
Efficiency	93 %	60 <sup>4</sup> 200 60 <sup>4</sup> .
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	30
Light colour	White	45* 40
Required components:		
		500
		30°
сласив	10	13, A. 10,
SAMSUN	IG	
	<b>IG</b> LH351B	15° (° 15°
LED	LH351B	
LED FWHM / FWTM Efficiency Peak intensity	LH351B 151.0° / 162.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: storus semiconouctor LED	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1 White SEOUL DC 3030C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1 White SEOUL DC 3030C 146.0° / 156.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B 151.0° / 162.0° 94 % 0.3 cd/m 1 White SEOUL DC 3030C 146.0° / 156.0° 95 %	
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	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1 White SEOUL DC 3030C 146.0° / 156.0° 95 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1 White SEOUL DC 3030C 146.0° / 156.0° 95 % 0.4 cd/lm 1	
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	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1 White SEOUL DC 3030C 146.0° / 156.0° 95 % 0.4 cd/lm 1	
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	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1 White SEOUL DC 3030C 146.0° / 156.0° 95 % 0.4 cd/lm 1	
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	LH351B 151.0° / 162.0° 94 % 0.3 cd/lm 1 White SEOUL DC 3030C 146.0° / 156.0° 95 % 0.4 cd/lm 1	



### PHOTOMETRIC DATA (SIMULATED):

SEOUL		80* 90*
SEOUL SEMICONDUCTOR	Z5M1/Z5M2	8°
FWHM / FWTM	147.0° / 158.0°	73°
Efficiency	94 %	50° 200 60°
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	6° 6°
Required components:		$\times$ / $\times$ / $\times$
		500
		30° 13° 0° 15° 30°
SEOUL		1 25, d. 22,
SEOUL		90* 90*
LED	Z8Y19	
FWHM / FWTM	138.0° / 148.0°	73° 100 77°
Efficiency	93 %	
Peak intensity	0.4 cd/lm	50 <sup>4</sup> 200 60*
LEDs/each optic	1	
Light colour	White	5° 5°
Required components:		
		$\times$
		30° <u>640</u> 30° 30° 15°
SEOUL		
SEOUL SEMICONDUCTOR	Z8Y22	90*
FWHM / FWTM	20122 140.0° / 148.0°	to the second second
	92 %	
Efficiency Peak intensity	92 % 0.4 cd/lm	50*
LEDs/each optic	1	$\times$
Light colour	ı White	
Required components:	WING	140. AQ.
		30* 11 <sup>5</sup> 0* 15* 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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