

## STRADELLA-IP-28-HB-M

~65° medium beam. Variant made from PMMA.

### **TECHNICAL SPECIFICATIONS:**

**MATERIAL SPECIFICATIONS:** 

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

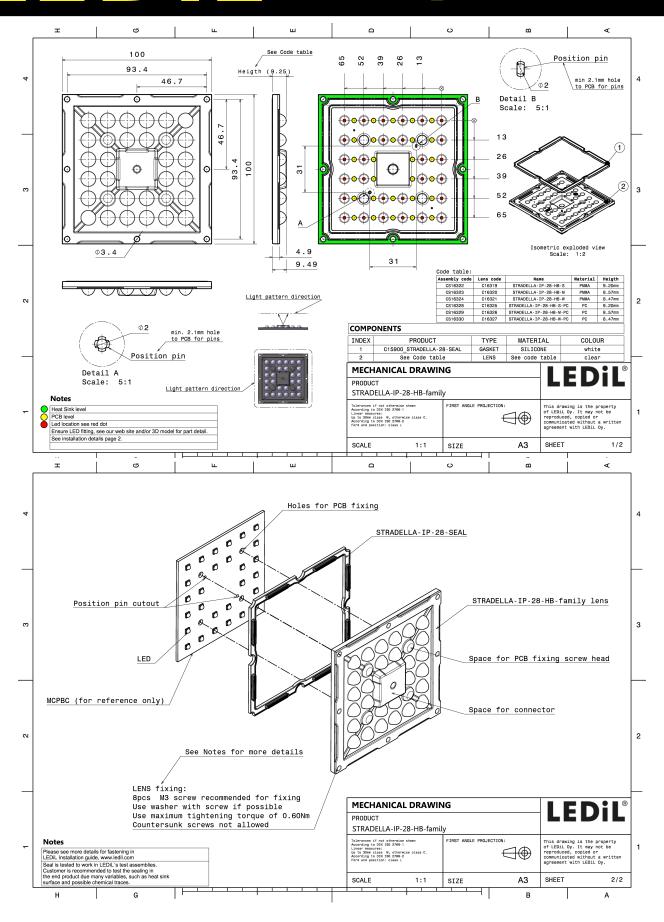


Component	Туре	Material	Colour	Finish
STRADELLA-IP-28-HB-M	Multi-lens	PMMA	clear	
STRADELLA-28-SEAL	Seal	Silicone	white	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS16323_STRADELLA-IP-28-HB-M	Multi-lens	156	78	78	5.8
» Box size: 476 x 273 x 247 mm					

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



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiQLED STR28 CR JE2835 4x7 xxx 56.0° / 113.0° 92 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiQLED STR28 CR JК3030 4x7 xxx 55.0° / 112.0° 92 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX STR28 XD2x14 xxx G8 71.0° / 126.0° 92 % 0.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX STR28 XP2x14 xxx G7 71.0° / 127.0° 94 % 0.6 cd/lm 1 White ents:	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX STR28 XT2x14 xxx G5 70.0° / 126.0° 94 % 0.6 cd/lm 1 White nts:	
		30° 155° 6° 155°
		90 <sup>4</sup> 90 <sup>5</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 2835 56.0° / 113.0° 92 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 3030 55.0° / 112.0° 92 % 0.7 cd/lm 1 White	
		3)*
		12 <sup>3</sup> 900 15 <sup>3</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 3030 61.0° / 119.0° 95 % 0.7 cd/lm 1 White	



CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XD16 71.0° / 126.0° 92 % 0.5 cd/lm 1 White	
CREE CLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 71.0° / 127.0° 94 % 0.6 cd/lm 1 White	
CREE  LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E 70.0° / 126.0° 94 % 0.6 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2W585AR 67.0° / 125.0° 93 % 0.6 cd/lm 1 White	



ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2W585AR 68.0° / 126.0° 93 % 0.6 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 69.0° / 125.0° 94 % 0.6 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B 74.0° / 126.0° 94 % 0.6 cd/lm 1 White	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSCONIQ S 3030 57.0° / 118.0° 94 % 0.7 cd/lm 1 White 	



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OSRAM Opto Semiconductors LED	OSLON Square CSSRM2/CSSRM3	90 <sup>4</sup>
FWHM / FWTM	62.0° / 122.0°	
Efficiency	94 %	60 <sup>1</sup> - 200
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	gr <u>wo</u>
Required compone	ents:	30° 25° 0° 15° 8°
SAMSI	UNG	90 <sup>4</sup>
LED	HiLOM SC28 (LH181B)	
FWHM / FWTM	57.0° / 111.0°	37 25*
Efficiency	91 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	ar
Required compone	ents:	
		30° 30° 30° 30°
SAMSI	UNG	50 <sup>4</sup>
LED	HiLOM SM28 (LM301B)	
FWHM / FWTM	58.0° / 115.0°	77
Efficiency	93 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	ar an ar
Required compone		36° 50° 50°
		50* 50*
	Z5M3	
FWHM / FWTM	67.0° / 125.0°	77
Efficiency	94 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required compone		
		30* 38*



		90° 90°
LED	J Series 5050 Round LES	
FWHM / FWTM	70.0° / 120.0°	
Efficiency	95 %	60° 60°
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	97# <u>400</u> 67*
Required components:		
		600
		30° 30°
		90* 90*
LED	XP-G2 HE	73*
FWHM / FWTM	74.0° / 126.0°	
Efficiency	95 %	60° 200 60°
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	er X er
Required components:		400
		30° 600 30° 30°
	DS	90* 90*
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM		75. 25.
FWHM / FWTM Efficiency	58.0° / 118.0°	75 75
Efficiency	58.0° / 118.0° 92 %	175 - 200
Efficiency Peak intensity	58.0° / 118.0° 92 % 0.8 cd/lm	27. 00 <sup>4</sup> 00 <sup>4</sup>
Efficiency Peak intensity LEDs/each optic	58.0° / 118.0° 92 % 0.8 cd/lm 1	27 - 200 - 607 27 - 600 - 607
Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 118.0° 92 % 0.8 cd/lm	72 60 60 60 60 60 60 60 60 60 60 60 60 60
Efficiency Peak intensity LEDs/each optic	58.0° / 118.0° 92 % 0.8 cd/lm 1	72 77 60° 60° 60°
Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 118.0° 92 % 0.8 cd/lm 1	77. 19.* 19.* 10
Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 118.0° 92 % 0.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 118.0° 92 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 118.0° 92 % 0.8 cd/lm 1 White	304         306           325         60           60         60           60         60           72         72
Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 118.0° 92 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 118.0° 92 % 0.8 cd/lm 1 White S LUXEON 5050 Round LES 69.0° / 120.0°	27 29 29 29 20 20 20 20 20 20 20 20 20 20
Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 118.0° 92 % 0.8 cd/lm 1 White S LUXEON 5050 Round LES 69.0° / 120.0° 94 %	20 20 20 20 20 20 20 20 20 20
Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 118.0° 92 % 0.8 cd/lm 1 White	27 0 0 0 0 0 0 0 0 0 0 0 0 0
Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 118.0° 92 % 0.8 cd/lm 1 White UXEON 5050 Round LES 69.0° / 120.0° 94 % 0.7 cd/lm 1	27 20 20 20 20 20 20 20 20 20 20
Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 118.0° 92 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 118.0° 92 % 0.8 cd/lm 1 White UXEON 5050 Round LES 69.0° / 120.0° 94 % 0.7 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 118.0° 92 % 0.8 cd/lm 1 White UXEON 5050 Round LES 69.0° / 120.0° 94 % 0.7 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 118.0° 92 % 0.8 cd/lm 1 White UXEON 5050 Round LES 69.0° / 120.0° 94 % 0.7 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 118.0° 92 % 0.8 cd/lm 1 White UXEON 5050 Round LES 69.0° / 120.0° 94 % 0.7 cd/lm 1	32.     00       60     00       60     00       60     00       60     00       60     00       60     00       60     00       60     00       60     00       60     00       60     00       60     00       60     00       60     00       60     00       72     00       60     00       72     00       73     00



UMILEC	DS	90* 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES 70.0° / 120.0° 95 % 0.7 cd/lm 1 White	2 <sup>5</sup> 60 6
<b>Μ</b> ΝΙCΗΙΛ		90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NF2x757G 63.0° / 119.0° 94 % 0.7 cd/lm 1 White	77 - 200 - 2 60 <sup>4</sup> - 400 - 4 60 <sup>4</sup> - 4 60 <sup></sup>
MAUGUNA		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup>
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NF2x757G 63.0° / 119.0° 94 % 0.7 cd/m 1 White	
<b>WICHIA</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxE21A 65.0° / 118.0° 93 % 0.6 cd/lm 1 White	50 <sup>4</sup> 7 <sup>2</sup> 200 200 2 <sup>4</sup> 2 <sup>60</sup> 2



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<b>Μ</b> ΝΙCΗΙΛ		90° 90°
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	73.0° / 122.0°	2. 2.
Efficiency	95 %	200
Peak intensity	0.6 cd/lm	60°
LEDs/each optic	1	
Light colour	White	g3 <sup>4</sup> 435
Required components:		
		30° 30°
		15° 0° 15°
OSRAM Opto Semiconductors		90° 90°
LED	Duris S5 (2 chip)	
FWHM / FWTM	64.0° / 119.0°	
Efficiency	94 %	200 60°
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	aze 400 aze
Required components:		
		30*
OSRAM		
Opto Semiconductors		90° 90°
LED	Duris S8	
LED FWHM / FWTM	67.0° / 118.0°	77
LED FWHM / FWTM Efficiency	67.0° / 118.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	67.0° / 118.0° 94 % 0.7 cd/lm	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	67.0° / 118.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	67.0° / 118.0° 94 % 0.7 cd/lm	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	67.0° / 118.0° 94 % 0.7 cd/lm 1	27 00 07 07 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	67.0° / 118.0° 94 % 0.7 cd/lm 1	2 5 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	67.0° / 118.0° 94 % 0.7 cd/lm 1	200 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	67.0° / 118.0° 94 % 0.7 cd/lm 1	200 60 60 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	67.0° / 118.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	67.0° / 118.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	67.0° / 118.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0° 95 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0° 95 % 0.7 cd/lm	
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	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0° 95 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0° 95 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0° 95 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0° 95 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0° 95 % 0.7 cd/lm 1	



OSRAM Opto Semiconductors		90 <sup>4</sup> 90 <sup>4</sup>
LED	OSCONIQ P 3030	
FWHM / FWTM	56.0° / 119.0°	75.
Efficiency	96 %	
Peak intensity	0.8 cd/lm	69* 60*
LEDs/each optic	1	
Light colour	' White	9°
Required components:	Wille	
		12 <sup>3</sup> 0 <sup>6</sup> 12 <sup>3</sup> 30 <sup>6</sup>
OSRAM Opto Semiconductors		90° 90°
LED	OSCONIQ P 3737 (2W version)	
FWHM / FWTM	68.0° / 121.0°	75* 75*
Efficiency	94 %	200
Peak intensity	0.7 cd/lm	50*
LEDs/each optic	1	
Light colour	White	95° 400 83°
Required components:		
		30° 30° 30° 30°
SAMSUN	IG	207 07 127 07 207
SAMSUN		90° 10° 10° 10°
LED	LH181B	
LED FWHM / FWTM	LH181B 65.0° / 117.0°	
LED FWHM / FWTM Efficiency	LH181B 65.0° / 117.0° 94 %	000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity	LH181B 65.0° / 117.0°	60         200         65           33         20         20           36         22         32
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm	d.         e0         d.           00         50         20           33         50         20           33         52         55
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1	da.         900         901           300         900         900           300         900         900           300         900         900
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1	62. 63. 13. 13. 13. 13. 13. 13. 13. 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White	00.         00.         00.           00.         00.         00.           00.         00.         00.           00.         00.         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 components:	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White Vhite	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White LH351B 71.0° / 119.0° 94 % 0.7 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	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White LH351B 71.0° / 119.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White LH351B 71.0° / 119.0° 94 % 0.7 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	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White LH351B 71.0° / 119.0° 94 % 0.7 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	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White LH351B 71.0° / 119.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White LH351B 71.0° / 119.0° 94 % 0.7 cd/lm 1	



SAMSUN	IG	90,9
LED	LH351C	
FWHM / FWTM	75.0° / 119.0°	75. 25.
Efficiency	94 %	
Peak intensity	94 % 0.7 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	452 454
Required components:	winte	460
Required components.		
		500
		125 0° 125 36¢
SAMSUN	IG	90* 90*
LED	LM28xB Series	
FWHM / FWTM	66.0° / 119.0°	70
Efficiency	94 %	20060*
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 400 45°
Required components:		
		30° 30°
		15° 0° 15°
SAMSUN	IG	90° 90°
LED	LM301B	
FWHM / FWTM	63.0° / 118.0°	
Efficiency	94 %	200 - 60'
Peak intensity	0.7 cd/lm	
LEDs/each optic		
LED3/Each Optic	1	
Light colour		er
	1	gr 400 gr
Light colour	1	g
Light colour	1	er
Light colour	1	gr (i)
Light colour Required components:	1	
Light colour Required components: seoul semiconouctor	1 White	80°
Light colour Required components: seoul semiconductor LED	1 White SEOUL 3030	20 20 20 20 00 00 00 00 00 00
Light colour Required components: seoul seniconductor LED FWHM / FWTM	1 White SEOUL 3030 69.0° / 120.0°	20 20 20 00 00 00 00 00 00 00
Light colour Required components: seous sewconouctor LED FWHM / FWTM Efficiency	1 White SEOUL 3030 69.0° / 120.0° 95 %	61 - 200 - 62 22 - 25 34 - 25 - 25 62 - 60 - 60
Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	1 White SEOUL 3030 69.0° / 120.0° 95 % 0.6 cd/m	er 60 er 70
Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White SEOUL 3030 69.0° / 120.0° 95 % 0.6 cd/lm 1	
Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White SEOUL 3030 69.0° / 120.0° 95 % 0.6 cd/m	52 - 40 - 62 20 - 20 20 - 20 20 - 20 20 - 20 20 - 20 20 20 20 20 20 20 20 20 20
Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White SEOUL 3030 69.0° / 120.0° 95 % 0.6 cd/lm 1	8 <sup>-</sup> 8 <sup>-</sup>
Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White SEOUL 3030 69.0° / 120.0° 95 % 0.6 cd/lm 1	er - 440 - 440 - 440 - 440 - 440 - 400 - 40
Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White SEOUL 3030 69.0° / 120.0° 95 % 0.6 cd/lm 1	
Light colour Required components: seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White SEOUL 3030 69.0° / 120.0° 95 % 0.6 cd/lm 1	



STOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SEOUL DC 3030 68.0° / 120.0° 96 % 0.6 cd/lm 1 White	5°
SEQU		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup>
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SEOUL DC 5050 6V 69.0° / 120.0° 94 % 0.7 cd/lm 1 White	34° 97° 35° 460 67° 55° 460 67°
SEOUL		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Z5M1/Z5M2 70.0° / 122.0° 94 % 0.6 cd/lm 1 White	97 97 97 97 97 97 97 97 97 97 97 97 97 9
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Z8Y19 65.0° / 117.0° 94 % 0.7 cd/lm 1 White	94" 92 94 95 96 96 96 96 96 96 96 97 97 97 97 97 97 97 97 97 97



SEOUL		90* 90*
LED	Z8Y22	
FWHM / FWTM	76.0° / 130.0°	75*
Efficiency	92 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	gr gr
Required components:		
		30° 560 30°
1		15° 0° 15°
		90° 90°
	Ζ8Υ22Τ	
SEOUL SEMICONDUCTOR	Z8Y22T 69.0° / 118.0°	
SEOUL SEMICONDUCTOR		
seoul semiconductor LED FWHM / FWTM	69.0° / 118.0°	
seoul semiconductor LED FWHM / FWTM Efficiency	69.0° / 118.0° 94 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	69.0° / 118.0° 94 % 0.6 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	69.0° / 118.0° 94 % 0.6 cd/lm 1	200 Er.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	69.0° / 118.0° 94 % 0.6 cd/lm 1	200 Er.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	69.0° / 118.0° 94 % 0.6 cd/lm 1	200 Er
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	69.0° / 118.0° 94 % 0.6 cd/lm 1	200 Er



#### **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.

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