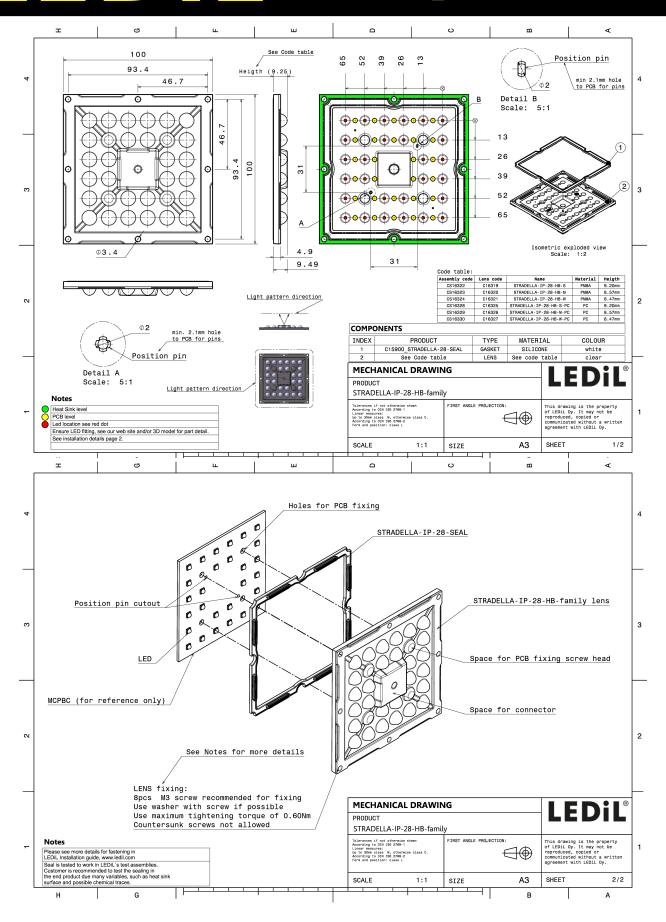


STRADELLA-IP-28-HB-M ~65° wide beam. Variant made from PMMA. **SPECIFICATION: Dimensions** 100.0 x 100.0 mm Height 9.5 mm Fastening pin, screw Ingress protection classes IP66, IP67 yes 🛈 **ROHS** compliant LEDiL **MATERIALS:** Material Colour Finish Component Туре STRADELLA-IP-28-HB-M Multi-lens PMMA 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 78 156 78 5.8 » Box size: 476 x 273 x 247 mm



R

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 nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiQLED STR28 CR JK3030 4x7 xxx 55.0° / 112.0° 92 % 0.7 cd/lm 1 White nts:	90° 90° 7° 7° 7° 6° 6° 6° 6° 6° 6° 6° 6°
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 nts:	94 75 95 95 95 95 95 95 95 95 95 95 95 95 95
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 nts:	



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:	25° 0° 15° 10° 10° 10° 10° 10° 10° 10° 10
CREE 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 nts:	
CREE 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 nts:	
CREE 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 nts:	25° 0° 15° 00 00 00 00 00 00 00 00 00 0



CREE ÷ LED	XD16	90°
FWHM / FWTM	71.0° / 126.0°	
Efficiency	92 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	43*
Required compone		
		36*
		15 80 15'
		50* 50*
LED	XP-G3	
FWHM / FWTM	71.0° / 127.0°	
Efficiency	94 %	600 600
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	43* 43*
Required compone	nts:	400
		30* 500 30*
		90° 90°
LED	XT-E	
FWHM / FWTM	70.0° / 126.0°	75* 75*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60° 66°
LEDs/each optic	1	
Light colour	White	g
Required compone		400
		30* 520 30*
A		(125) of 325)
		90 ⁴ 90 ⁴
LED	NF2W585AR	75.
FWHM / FWTM	68.0° / 126.0°	
Efficiency	93 %	60* 60*
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	43° 450
Required compone	nts:	
		30- 30-
1		15" 0" 15"



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 ints:	92* 73 92 92 92 92 92 92 92 92 92 92 92 92 92	- 40 - 400 - 500 - 500 - 600 - 700 - 70 - 7
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 69.0° / 125.0° 94 % 0.6 cd/lm 1 White	94 96 97 97 97 97 97 97	
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	99 ⁴ 73 97 97	200 - 54 200 - 64 440 - 67 600 - 54
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSCONIQ S 3030 (QSLR31) 57.0° / 118.0° 94 % 0.7 cd/lm 1 White ints:		



OSRAM Opto Semiconductors		90° 90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	62.0° / 122.0°	
Efficiency	94 %	60°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45" 400 45"
Required compone		30° 00 13° 30°
SΛMSI	JNG	90* 90*
LED	HiLOM SC28 (LH181B)	
FWHM / FWTM	57.0° / 111.0°	75.
Efficiency	91 %	
Peak intensity	0.7 cd/lm	60 ¹⁻
LEDs/each optic	1	
Light colour	White	400 43*
Required compone		
		 20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴
SAMSU	JNG	904 90*
LED	HiLOM SM28 (LM301B)	
FWHM / FWTM	58.0° / 115.0°	75*
Efficiency	93 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	65° - 400 - 63°
Required compone	ints:	30 ⁴ 30 ⁷ 30 ⁷ 30 ⁴
		90* 90*
	Z5M3	
FWHM / FWTM	67.0° / 125.0°	73*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	6°*
LEDs/each optic	1	
Light colour	White	93* 43*
Required compone		
		30° 560 36° 36° 36°



		90° 90°
LED	J Series 5050 Round LES	
FWHM / FWTM	70.0° / 120.0°	
Efficiency	95 %	200
Peak intensity	0.6 cd/lm	60* 00°
LEDs/each optic	1	
Light colour	White	93° 400 43°
Required components:		
		30 30 30 15°
		90* 90*
LED	XP-G2 HE	
FWHM / FWTM	74.0° / 126.0°	
Efficiency	95 %	60 ⁴ 60 ⁴
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	g
Required components:		400
		30°
		30 <u>600</u> 30
		30 <u>660</u> 30 15 ⁹ 0 ⁴ 15 ⁹
	DS	00 157 00 157 00 150 00 150
	LUXEON 3030 2D (Round LES)	30° 30° 30° 30° 30° 30°
		32 60 32 123 64 123
LED	LUXEON 3030 2D (Round LES)	64 <u>60</u> 35 <u>64</u> 50 <u>50</u> 50 <u>65</u> 50
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 3030 2D (Round LES) 58.0° / 118.0°	91 - 200 - 61 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm	5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1	200 200 200 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1 White	30* 30* 30* 30* 30* 20* 6* 30* 30* 20* 6* 30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1 White S LUXEON 5050 Round LES 69.0° / 120.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1 White S LUXEON 5050 Round LES 69.0° / 120.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1 White Vhite LUXEON 5050 Round LES 69.0° / 120.0° 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: With Components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1 White Vhite LUXEON 5050 Round LES 69.0° / 120.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1 White Vhite LUXEON 5050 Round LES 69.0° / 120.0° 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: With Components: With Components: Compose LUMILEC FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1 White Vhite LUXEON 5050 Round LES 69.0° / 120.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1 White Vhite LUXEON 5050 Round LES 69.0° / 120.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) 58.0° / 118.0° 92 % 0.8 cd/lm 1 White Vhite LUXEON 5050 Round LES 69.0° / 120.0° 94 % 0.7 cd/lm 1	



	DS	90*
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	20 00 00 00 00 00 00 00 00 00
Μ ΝΙCΗΙΛ		904
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 61 61 60 60 70 70 60
WICHIA 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	91 ⁴ 77 61 ⁴ 87 87 87 80 60 60 60 94 94 95 87 87 87 87 87 87 87 87 87 87 87 87 87
WICHIA 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	9°*



MICHIΛ		90° 90°
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	73.0° / 122.0°	75*
Efficiency	95 %	
Peak intensity	0.6 cd/lm	60*
LEDs/each optic	1	
Light colour	White	ga ⁴
Required components:		460
		30° 37°
		15° 0° 15°
OSRAM Opto Semiconductors		90* 90*
LED	Duris S5 (2 chip)	
FWHM / FWTM	64.0° / 119.0°	124
Efficiency	94 %	200
Peak intensity	1 cd/lm	be-
LEDs/each optic	1	
Light colour	White	45° 45°
Required components:		
		500
		30°
		15° 0° 35°
OSRAM Opto Semiconductors		90* 90*
OSRAM Opto Semiconductors	Duris S8	90 ⁴ 90 ²
Opto Semiconductors		3°
Opto Semiconductors	Duris S8 67.0° / 118.0° 94 %	
opto Semiconductors LED FWHM / FWTM	67.0° / 118.0°	50° 50°
opto Semiconductors LED FWHM / FWTM Efficiency	67.0° / 118.0° 94 %	50° 50°
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity	67.0° / 118.0° 94 % 0.7 cd/lm	5°
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	67.0° / 118.0° 94 % 0.7 cd/lm 1	94* 90* 23 99 99 90 90 90 90 90 90 90 90 90 90 90
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	67.0° / 118.0° 94 % 0.7 cd/lm 1	97* 97* 97* 90* 95* 90* 90* 95* 90* 90* 95* 90* 90* 95* 90* 90* 95* 90* 90* 95* 90* 90* 90* 95* 90* 90* 90* 90* 90* 95* 90* 90* 90* 90* 90* 90* 90* 90* 90* 90
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	67.0° / 118.0° 94 % 0.7 cd/lm 1	94* 94* 94* 96* 96* 96* 96* 96* 96* 96* 96*
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	67.0° / 118.0° 94 % 0.7 cd/lm 1	50° 50° 60° 50° 50° 50° 50° 50° 50° 50° 50° 50° 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	67.0° / 118.0° 94 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	67.0° / 118.0° 94 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	67.0° / 118.0° 94 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ODSRAM Opto Semiconductors LED FWHM / FWTM	67.0° / 118.0° 94 % 0.7 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	67.0° / 118.0° 94 % 0.7 cd/lm 1 White	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Peak intensity LED FWHM / FWTM Efficiency Peak intensity	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0°	
opte 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	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0° 95 % 0.7 cd/lm 1	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0° 95 % 0.7 cd/lm	
opte 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	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0° 95 % 0.7 cd/lm 1	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0° 95 % 0.7 cd/lm 1	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	67.0° / 118.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 68.0° / 118.0° 95 % 0.7 cd/lm 1	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	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		90° 90°
Opto Semiconductors	OSCONIQ P 3030	
FWHM / FWTM	56.0° / 119.0°	75'
Efficiency	96 %	-200
Peak intensity	0.8 cd/lm	60°
LEDs/each optic	1	400
Light colour	White	er er
Required components:	white	
		30° 30° 30° 15°
OSRAM Opto Semiconductors		90° 90°
LED	OSCONIQ P 3737 (2W version)	
FWHM / FWTM	68.0° / 121.0°	37
Efficiency	94 %	60°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	5° 400 5°
Required components:		
		eig
		30° 34°
		15° 0° 15°
SAMSUN	IG	99* 99*
	LH181B	90 ⁴ 90 ⁴
		25 [°] 0° 15 [°] 9° 9°
LED	LH181B	25 ⁵ 6 ⁴ 15 ⁵
LED FWHM / FWTM	LH181B 65.0° / 117.0°	
LED FWHM / FWTM Efficiency	LH181B 65.0° / 117.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm	
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	25° 0° 15° 99° 90° 90° 90° 90° 90° 90° 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1	25° 0° 15° 19° 29° 200 60° 60° 60°
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	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	
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: SAMSUN LED FWHM / FWTM	LH181B 65.0° / 117.0° 94 % 0.7 cd/lm 1 White G LH351B 71.0° / 119.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency	LH181B 65.0° / 117.0° 94 % 0.7 cd/m 1 White C LH351B 71.0° / 119.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity	LH181B 65.0° / 117.0° 94 % 0.7 cd/m 1 White LH351B 71.0° / 119.0° 94 % 0.7 cd/m	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH181B 65.0° / 117.0° 94 % 0.7 cd/m 1 White C LH351B 71.0° / 119.0° 94 % 0.7 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 65.0° / 117.0° 94 % 0.7 cd/m 1 White C LH351B 71.0° / 119.0° 94 % 0.7 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 65.0° / 117.0° 94 % 0.7 cd/m 1 White C LH351B 71.0° / 119.0° 94 % 0.7 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 65.0° / 117.0° 94 % 0.7 cd/m 1 White C LH351B 71.0° / 119.0° 94 % 0.7 cd/m 1	



SAMSUN	IG	90° 90°
LED	LH351C	
FWHM / FWTM	75.0° / 119.0°	73. 27.
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	454 deg
Required components:		
		364 157 06 157
SAMSUN	IG	90 ⁴ 90
LED	LM28xB Series	
FWHM / FWTM	66.0° / 119.0°	73.
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	450 450
Required components:		
		30. 30.
СЛЛОЦА	10	(
SAMSUN	16	90° 90°
LED	LM301B	
		75°
	63.0° / 118.0°	
Efficiency	94 %	50
Efficiency Peak intensity	94 % 0.7 cd/lm	20
Efficiency Peak intensity LEDs/each optic	94 % 0.7 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.7 cd/lm	20 2020 20
Efficiency Peak intensity LEDs/each optic	94 % 0.7 cd/lm 1	2 ²
Light colour	94 % 0.7 cd/lm 1	22 200 02 get 400 02 get 60
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.7 cd/lm 1	22
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.7 cd/lm 1	er
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.7 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.7 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED	94 % 0.7 cd/lm 1 White SEOUL 3030	
Efficiency Peak intensity LEDs/each optic Light colour Required components: seour semiconductor LED FWHM / FWTM	94 % 0.7 cd/lm 1 White SEOUL 3030 69.0° / 120.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED FWHM / FWTM Efficiency	94 % 0.7 cd/lm 1 White SEOUL 3030 69.0° / 120.0° 95 %	22
Efficiency Peak intensity LEDs/each optic Light colour Required components: stout semconductor LED FWHM / FWTM Efficiency Peak intensity	94 % 0.7 cd/lm 1 White SEOUL 3030 69.0° / 120.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required components: seous sewconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.7 cd/lm 1 White SEOUL 3030 69.0° / 120.0° 95 % 0.6 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required components: stout semconductor LED FWHM / FWTM Efficiency Peak intensity	94 % 0.7 cd/lm 1 White SEOUL 3030 69.0° / 120.0° 95 % 0.6 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: storus semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.7 cd/lm 1 White SEOUL 3030 69.0° / 120.0° 95 % 0.6 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: storus semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.7 cd/lm 1 White SEOUL 3030 69.0° / 120.0° 95 % 0.6 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.7 cd/lm 1 White SEOUL 3030 69.0° / 120.0° 95 % 0.6 cd/lm 1	



SEOUL		90 ⁴
SEOUL SEMICONDUCTOR		
	SEOUL DC 3030	73.
FWHM / FWTM	68.0° / 120.0°	
Efficiency	96 % 0.6 cd/lm	60* 60*
Peak intensity		
LEDs/each optic	1 White	
Light colour Required components:	White	400
Required components.		
		30° 30° 33°
SEOUL		906 906
SEOUL SEMICONDUCTOR		
LED	SEOUL DC 5050 6V	757
FWHM / FWTM	69.0° / 120.0°	
Efficiency	94 %	50° 50°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	× / / · · · · · · · · · · · · · · · · ·
Required components:		
		600
		30° 30° 30°
SEOUL		
		90* 90*
SEOUL SEMICONDUCTOR	Z5M1/Z5M2	59°
seoul semiconductor LED	Z5M1/Z5M2 70.0° / 122.0°	33. 24. 26.
seoul semiconductor LED FWHM / FWTM	70.0° / 122.0°	20 21 22 22 25 25 25 25 25
seoul semiconductor LED FWHM / FWTM Efficiency	70.0° / 122.0° 94 %	99 ⁴ 99 ⁴
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	70.0° / 122.0° 94 % 0.6 cd/lm	59* 59* 75* 75* 69* 200 60*
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	70.0° / 122.0° 94 % 0.6 cd/lm 1	59 ⁴ 59 ⁵ 60 ⁴ 200 60 ⁴ 50 ⁴ 60 ⁴
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	70.0° / 122.0° 94 % 0.6 cd/lm	60, 20, 62,
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	70.0° / 122.0° 94 % 0.6 cd/lm 1	60* 000 60*
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	70.0° / 122.0° 94 % 0.6 cd/lm 1	60* 000 60*
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	70.0° / 122.0° 94 % 0.6 cd/lm 1	60* 000 60*
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	70.0° / 122.0° 94 % 0.6 cd/lm 1	60°
SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	70.0° / 122.0° 94 % 0.6 cd/lm 1	60* 000 60*
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	70.0° / 122.0° 94 % 0.6 cd/lm 1 White	60* 000 60*
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED	70.0° / 122.0° 94 % 0.6 cd/lm 1 White Z8Y19	60* 000 60*
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM	70.0° / 122.0° 94 % 0.6 cd/lm 1 White Z8Y19 65.0° / 117.0°	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED FWHM / FWTM Efficiency	70.0° / 122.0° 94 % 0.6 cd/lm 1 White Z8Y19 65.0° / 117.0° 94 %	60* 000 60*
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	70.0° / 122.0° 94 % 0.6 cd/lm 1 White Z8Y19 65.0° / 117.0° 94 % 0.7 cd/lm	
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	70.0° / 122.0° 94 % 0.6 cd/lm 1 White Z8Y19 65.0° / 117.0° 94 % 0.7 cd/lm 1	
SEOUL SEMICONDUCTOR 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	70.0° / 122.0° 94 % 0.6 cd/lm 1 White Z8Y19 65.0° / 117.0° 94 % 0.7 cd/lm	
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	70.0° / 122.0° 94 % 0.6 cd/lm 1 White Z8Y19 65.0° / 117.0° 94 % 0.7 cd/lm 1	
SEOUL SEMICONDUCTOR 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	70.0° / 122.0° 94 % 0.6 cd/lm 1 White Z8Y19 65.0° / 117.0° 94 % 0.7 cd/lm 1	200 200 200 200 200 200 200 200
SEOUL SEMICONDUCTOR 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	70.0° / 122.0° 94 % 0.6 cd/lm 1 White Z8Y19 65.0° / 117.0° 94 % 0.7 cd/lm 1	



SEOUL SEMICONDUCTOR		90°
LED	Z8Y22	75*
FWHM / FWTM	76.0° / 130.0°	
Efficiency	92 %	60° () () () () () () () () () (
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	g* g*
Required components:		400
		34. 32.
		15% 00 15%
SEOUL		90* 90*
LED	Z8Y22T	
FWHM / FWTM	69.0° / 118.0°	75. 25.
Efficiency	94 %	200
Peak intensity	0.6 cd/lm	60
LEDs/each optic	1	
Light colour	White	5° 400 65°
Required components:		
		30 00 X.