

STRADELLA-IP-28-HB-W

~90° wide beam. Variant made from PMMA.

TECHNICAL SPECIFICATIONS:

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



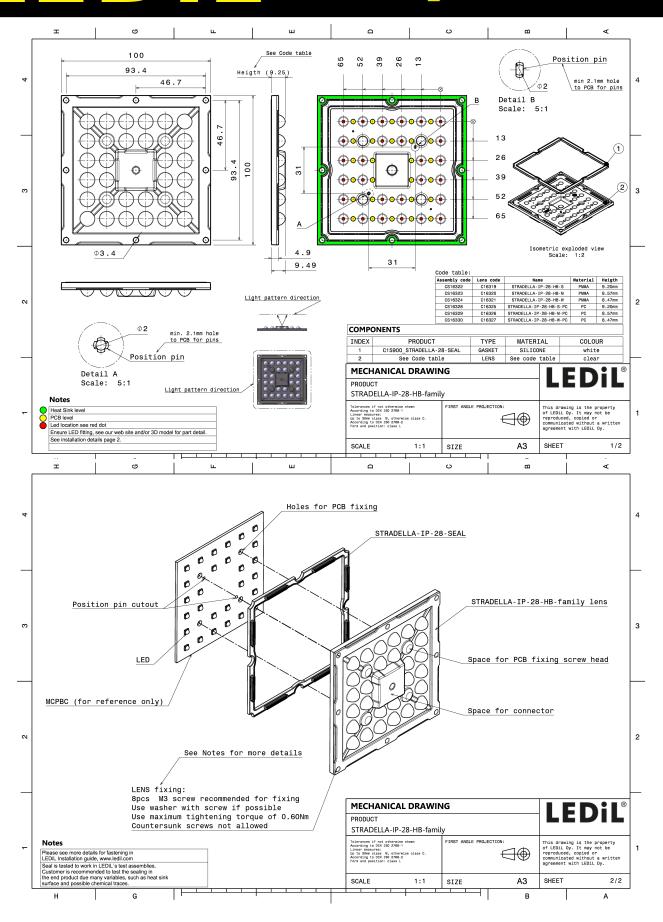
MATERIAL SPECIFICATIONS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS16324_STRADELLA-IP-28-HB-W	Multi-lens	156	78	78	5.9
» Box size: 476 x 273 x 247 mm					

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



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiQLED STR28 CR JE2835 4x7 xxx 81.0° / 119.0° 94 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiQLED STR28 CR JК3030 4x7 xxx 81.0° / 117.0° 93 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX STR28 XD2x14 xxx G8 91.0° / 130.0° 94 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX STR28 XP2x14 xxx G7 88.0° / 129.0° 94 % 0.5 cd/lm 1 White nts:	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer		91 ⁴ 91
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	J Series 2835 81.0° / 119.0° 94 % 0.6 cd/lm 1 White	50* 57* 77 60* 200 6* 9* 60 50* 5*
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	J Series 3030 81.0° / 117.0° 93 % 0.6 cd/lm 1 White	91 ⁴ 92 94 95 96 96 96 96 96 96 96 97 96 97 97 97 97 97 97 97 97 97 97
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	J Series 3030 80.0° / 123.0° 96 % 0.5 cd/lm 1 White	



	XD16	50° 50's
FWHM / FWTM	91.0° / 130.0°	73* 75*
Efficiency	94 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	200
Light colour	White	43*
Required compone	ents:	
		400
		307
CREE (89 ⁴ 99 ⁴
LED	XP-G3	
FWHM / FWTM	88.0° / 129.0°	100
Efficiency	94 %	
Peak intensity	0.5 cd/lm	200 × 200
LEDs/each optic	1	
Light colour	White	45* 45*
Required compone		
		400
		 157 - 157 - 157
CREE +	TM	90* 90*
LED	XT-E	75* 75*
FWHM / FWTM	89.0° / 131.0°	
Efficiency	94 %	60° 60°
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		400
		30" 32" 34"
ØNICHI/	۱	55° 55°
LED	NF2W585AR	
FWHM / FWTM	91.0° / 129.0°	75* 75*
Efficiency	94 %	60*
Efficiency Peak intensity	94 % 0.5 cd/lm	
		93 () () () () () () () () () (
Peak intensity	0.5 cd/lm	9)
Peak intensity LEDs/each optic	0.5 cd/lm 1 White	99) - 299
Peak intensity LEDs/each optic Light colour	0.5 cd/lm 1 White	50 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -
Peak intensity LEDs/each optic Light colour	0.5 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour	0.5 cd/lm 1 White	



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ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2W585AR 91.0° / 129.0° 94 % 0.5 cd/lm 1 White	5° 50 50 50 50 50 50 50 50 50 50 50 50 50	97 97 97
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G 81.0° / 123.0° 94 % 0.5 cd/lm 1 White		92 92 92 92 92 92 92 92 92 92 92
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 89.0° / 128.0° 94 % 0.5 cd/lm 1 White		97 27 67 67
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B 94.0° / 130.0° 94 % 0.5 cd/lm 1 White		20 90' 90' 90' 90' 90' 90'



OSRAM Opto Semiconductors		90*
LED	OSCONIQ S 3030	
FWHM / FWTM	81.0° / 123.0°	
Efficiency	94 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
	White	er e
Required component	ts:	
		30°
OCDAM		35% 9
OSRAM Opto Semiconductors		90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	82.0° / 126.0°	
	95 %	80 ⁴ 60
Peak intensity	0.5 cd/lm	200 - 2
	1	
Light colour	White	
Required component	ts:	
1		
SVWSI	NG	
SVWSN		<u>36</u> <u>10</u> <u>6</u> <u>10</u> <u>9</u>
LED	HiLOM SC28 (LH181B)	90°
LED FWHM / FWTM	HiLOM SC28 (LH181B) 83.0° / 119.0°	3° 20 0° 10°
LED FWHM / FWTM Efficiency	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 %	90 ⁻ 200
LED FWHM / FWTM Efficiency Peak intensity	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White ts: NG HiLOM SM28 (LM301B)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SAMSU LED FWHM / FWTM	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White ts: NG HiLOM SM28 (LM301B) 81.0° / 119.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANSU LED FWHM / FWTM Efficiency	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White ts: NG HiLOM SM28 (LM301B) 81.0° / 119.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANSU LED FWHM / FWTM Efficiency Peak intensity	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White ts: NG HiLOM SM28 (LM301B) 81.0° / 119.0° 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White ts: NG HiLOM SM28 (LM301B) 81.0° / 119.0° 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White ts: NG HiLOM SM28 (LM301B) 81.0° / 119.0° 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White ts: NG HiLOM SM28 (LM301B) 81.0° / 119.0° 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White ts: NG HiLOM SM28 (LM301B) 81.0° / 119.0° 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM SC28 (LH181B) 83.0° / 119.0° 93 % 0.5 cd/lm 1 White ts: NG HiLOM SM28 (LM301B) 81.0° / 119.0° 94 % 0.6 cd/lm 1 White	



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			30* 157 0* 15*



CREE ≑		50°
LED	J Series 5050 Round LES	25*
FWHM / FWTM	82.0° / 122.0°	
Efficiency	95 %	60° 60°
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 45°
Required components:		400
		20 00 00 00 00 00 00 00 00 00 00 00 00 0
CREE ≑		90 ⁴ 90 ⁴
LED	XP-G2 HE	
FWHM / FWTM	96.0° / 129.0°	75°
Efficiency	95 %	
Peak intensity	0.4 cd/lm	60 ⁴
LEDs/each optic	1	200
Light colour	White	gr ex
Required components:		
		400
		30° 30° 30° 30°
	05	90* 90*
LED		
	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	85.0° / 125.0°	73.
FWHM / FWTM Efficiency		
	85.0° / 125.0°	64 64 73
Efficiency	85.0° / 125.0° 92 %	5° 5° 6° 200
Efficiency Peak intensity	85.0° / 125.0° 92 % 0.5 cd/lm	75°
Efficiency Peak intensity LEDs/each optic	85.0° / 125.0° 92 % 0.5 cd/lm 1	57 57 69 50 50 50 50 50 50 50 50 50 50 50 50 50
Efficiency Peak intensity LEDs/each optic Light colour	85.0° / 125.0° 92 % 0.5 cd/lm 1	97 97 69 200 67 64 67 69 67
Efficiency Peak intensity LEDs/each optic Light colour	85.0° / 125.0° 92 % 0.5 cd/lm 1	97 65 97 67 60
Efficiency Peak intensity LEDs/each optic Light colour	85.0° / 125.0° 92 % 0.5 cd/lm 1	200 57 60 60 60 60 60 60 60 60 60 60
Efficiency Peak intensity LEDs/each optic Light colour	85.0° / 125.0° 92 % 0.5 cd/lm 1 White	97 97 97 97 97 97 97 97 97 97
Efficiency Peak intensity LEDs/each optic Light colour Required components:	85.0° / 125.0° 92 % 0.5 cd/lm 1 White	40 40 50 50 50 50 50 50 50 50 50 5
Efficiency Peak intensity LEDs/each optic Light colour Required components:	85.0° / 125.0° 92 % 0.5 cd/lm 1 White	99 60 60 60 60 60 60 60 60 60 60
Efficiency Peak intensity LEDs/each optic Light colour Required components:	85.0° / 125.0° 92 % 0.5 cd/lm 1 White	40 40 50 50 50 50 50 50 50 50 50 5
Efficiency Peak intensity LEDs/each optic Light colour Required components:	85.0° / 125.0° 92 % 0.5 cd/lm 1 White	40 40 50 50 50 50 50 50 50 50 50 5
Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency	85.0° / 125.0° 92 % 0.5 cd/m 1 White S LUXEON 5050 Round LES 78.0° / 123.0° 94 %	40 40 50 50 50 50 50 50 50
Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity	85.0° / 125.0° 92 % 0.5 cd/lm 1 White UXEON 5050 Round LES 78.0° / 123.0° 94 % 0.6 cd/lm	40 40 50 50 50 50 50 50 50 50 50 5
Efficiency Peak intensity LEDs/each optic Light colour Required components:	85.0° / 125.0° 92 % 0.5 cd/lm 1 White VNite LUXEON 5050 Round LES 78.0° / 123.0° 94 % 0.6 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	85.0° / 125.0° 92 % 0.5 cd/lm 1 White VNite LUXEON 5050 Round LES 78.0° / 123.0° 94 % 0.6 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	85.0° / 125.0° 92 % 0.5 cd/lm 1 White VNite LUXEON 5050 Round LES 78.0° / 123.0° 94 % 0.6 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	85.0° / 125.0° 92 % 0.5 cd/lm 1 White VNite LUXEON 5050 Round LES 78.0° / 123.0° 94 % 0.6 cd/lm 1	



LUMILEC	DS	90*
LED	LUXEON 5050 Square LES	
FWHM / FWTM	81.0° / 123.0°	
Efficiency	95 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45"
Required components:		400
		30 800 15° 0° 15°
ΜΝΙCΗΙΛ		50°
LED	NVSxE21A	
FWHM / FWTM	96.0° / 122.0°	100
Efficiency	93 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	94
Required components:		- 30
		400
		30.
		15 ³ 0 ⁶ 15 ⁵
ΜΝΙCΗΙΛ		90* 9
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	94.0° / 126.0°	200
Efficiency	95 %	
		Ener A Contraction of the Contra
Peak intensity	0.5 cd/lm	
Peak intensity LEDs/each optic		er-
	0.5 cd/lm	64- 200 97-
LEDs/each optic	0.5 cd/lm 1	er 200
LEDs/each optic Light colour	0.5 cd/lm 1	g 200
LEDs/each optic Light colour	0.5 cd/lm 1	64 - 200
LEDs/each optic Light colour	0.5 cd/lm 1	0*
LEDs/each optic Light colour Required components:	0.5 cd/lm 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0
LEDs/each optic Light colour	0.5 cd/lm 1	6* 200 5* 800 800 800 800 9* 9*
LEDs/each optic Light colour Required components:	0.5 cd/lm 1	9* 200 9* 200 100 100 200 100
LEDs/each optic Light colour Required components:	0.5 cd/lm 1 White	0* 5* 30 40 40 5* 5* 5* 5* 5* 5* 5* 5* 5* 5*
LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	0.5 cd/lm 1 White Duris S5 (2 chip)	
LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency	0.5 cd/lm 1 White Duris S5 (2 chip) 86.0° / 124.0°	64 - 209
LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	0.5 cd/lm 1 White Duris S5 (2 chip) 86.0° / 124.0° 94 %	
LEDs/each optic Light colour Required components: OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.5 cd/lm 1 White Duris S5 (2 chip) 86.0° / 124.0° 94 % 0.5 cd/lm	
LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.5 cd/lm 1 White Duris S5 (2 chip) 86.0° / 124.0° 94 % 0.5 cd/lm 1	5* 5* 50 50 50 50 50 50 50 50 50 50
LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.5 cd/lm 1 White Duris S5 (2 chip) 86.0° / 124.0° 94 % 0.5 cd/lm 1	9* 9* 95* 95* 95* 95* 95* 95* 95* 95* 95
LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.5 cd/lm 1 White Duris S5 (2 chip) 86.0° / 124.0° 94 % 0.5 cd/lm 1	200



OSRAM		90° 90°
Opto Semiconductors	Duris S8	
FWHM / FWTM	81.0° / 122.0°	75*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	' White	45"
Required components:	white	400
required components.		
		36° 600 36° 36°
OSRAM Opto Semiconductors		90°
LED	OSCONIQ C 2424	
FWHM / FWTM	90.0° / 124.0°	75° 75°
Efficiency	95 %	
Peak intensity	0.5 cd/lm	60 ⁴
LEDs/each optic	1	
Light colour	White	434 432
Required components:		
		X
		400
		15° 5% 15°
OSRAM Onto Samisonductors		90° 90°
OSRAM Opto Semiconductors	OSCONIO P 3030	<u>b</u> , <u>b</u> ,
LED	OSCONIQ P 3030 78.0° / 124.0°	99 ¹ 75
LED FWHM / FWTM	78.0° / 124.0°	30 ⁴ 99 ⁴
LED FWHM / FWTM Efficiency		94 ⁴ 94 ⁴ 75 ⁴ 86 ⁴ 200 66 ⁴
LED FWHM / FWTM Efficiency Peak intensity	78.0° / 124.0° 96 %	50° 5° 5° 5° 200 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	78.0° / 124.0° 96 % 0.6 cd/lm	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity	78.0° / 124.0° 96 % 0.6 cd/lm 1	50° 50° 75° 200 60° 55° 200 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	78.0° / 124.0° 96 % 0.6 cd/lm 1	90 ⁴ 90 ⁴ 75 90 ⁵ 20 95 97 80 80 80 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	78.0° / 124.0° 96 % 0.6 cd/lm 1	90 ⁴ 90 ⁴ 75 ⁴ 60 ⁴ 200 60 ⁴ 57 ⁴ 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	78.0° / 124.0° 96 % 0.6 cd/lm 1	40 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	78.0° / 124.0° 96 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	78.0° / 124.0° 96 % 0.6 cd/lm 1	- 40 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	78.0° / 124.0° 96 % 0.6 cd/lm 1	- 40 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	78.0° / 124.0° 96 % 0.6 cd/lm 1 White	- 40 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED	78.0° / 124.0° 96 % 0.6 cd/lm 1 White OSLON SSL 150	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	78.0° / 124.0° 96 % 0.6 cd/lm 1 White OSLON SSL 150 107.0° / 130.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	78.0° / 124.0° 96 % 0.6 cd/lm 1 White OSLON SSL 150 107.0° / 130.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	78.0° / 124.0° 96 % 0.6 cd/lm 1 White OSLON SSL 150 107.0° / 130.0° 94 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	78.0° / 124.0° 96 % 0.6 cd/lm 1 White OSLON SSL 150 107.0° / 130.0° 94 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	78.0° / 124.0° 96 % 0.6 cd/lm 1 White OSLON SSL 150 107.0° / 130.0° 94 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	78.0° / 124.0° 96 % 0.6 cd/lm 1 White OSLON SSL 150 107.0° / 130.0° 94 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	78.0° / 124.0° 96 % 0.6 cd/lm 1 White OSLON SSL 150 107.0° / 130.0° 94 % 0.4 cd/lm 1	



SAMSUN		<u>90*</u>
LED	LM301B	75
FWHM / FWTM	87.0° / 123.0°	
Efficiency	94 %	60* 60*
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	es.
Required components:		24 ³ 12 ³ 4 ³ 12 ³ 12 ³ 12 ³ 12 ³
SEOUL		90° 90°
SEOUL SEMICONDUCTOR	SEOUL 3030	
EED FWHM / FWTM	90.0° / 126.0°	75. 75.
Efficiency	95 %	
Peak intensity	0.5 cd/lm	60°
LEDs/each optic	1	
Light colour	White	er e
Required components:	Wine	
		30° 15° 0° 35°
SEOUL SEOUL SEMICONDUCTOR		90* 90*
LED	SEOUL DC 3030C	75* 75*
FWHM / FWTM	91.0° / 124.0 + 126.0°	
Efficiency	96 %	60° 00°
Peak intensity	0.5 cd/lm	200
LEDs/each optic	1	
		o" at
LEDs/each optic	1	er:er:
LEDs/each optic Light colour	1	e ^r
LEDs/each optic Light colour	1	er
LEDs/each optic Light colour Required components:	1	2 ¹ / ₂ , 2 ² , 2
LEDs/each optic Light colour Required components:	1	
LEDs/each optic Light colour Required components:	1 White	
LEDs/each optic Light colour Required components: seoul semiconductor LED	1 White SEOUL DC 5050 6V	20- 20- 20- 20- 00- 00- 00- 00-
LEDs/each optic Light colour Required components: seous sewconductor LED FWHM / FWTM	1 White	20 20 20 20 20 00 00 00 00 00
LEDs/each optic Light colour Required components: seoul semiconductor LED	1 White SEOUL DC 5050 6V 82.0° / 125.0°	95 95 95 157 06 157 07 157 07 157 07 157 07 157 157 07 157 157 157 157 157 157 157 15
LEDs/each optic Light colour Required components: seoul semconductor LED FWHM / FWTM Efficiency Peak intensity	1 White SEOUL DC 5050 6V 82.0° / 125.0° 94 %	95 96 90 90 150 00 150 150 150 150 150 150
LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White SEOUL DC 5050 6V 82.0° / 125.0° 94 % 0.6 cd/m 1	97 97 98 97 98 97 97 98 99 97 97 97 97 97 97 97 97 97
LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	1 White SEOUL DC 5050 6V 82.0° / 125.0° 94 % 0.6 cd/m	60 ⁶



SEXENSERCTOR ED Z5M1/Z5M2 WHM /FVTM 91.0° / 127.0° fficiency 94 % eak intensity 0.5 cd/lm EDs/each optic 1 ight colour White eak intensity 0.5 cd/lm ED Z5Y22 WHM /FVTM 100.0° / 141.0° fficiency 92 % eak intensity 0.4 cd/lm EDs/each optic 1 ight colour White eaquired components: WHM /FVTM 100.0° / 141.0° fficiency 10.4 cd/lm EDs/each optic 1 ight colour White eaquired components:			
ED Z5M1/Z5M2 WHM /FVTM 91.0° /127.0° fficiency 94% back intensity 0.5 cd/m Education White equired components: White A set intensity 0.4 cd/m ED 28/22 WHM /FVTM 10.0° /141.0° fficiency 22% eak intensity 0.4 cd/m ED 28/22 WHM /FVTM 10.0° /141.0° fficiency 11 ight colour White ED 28/22 WHM /FVTM 10.0° /141.0° fficiency 92.% eak intensity 0.4 cd/m ED 3.0° /123.0° fficiency 94% eak intensity 0.5 cd/m ED 28/22T WHM /FVTM 93.0° /123.0° fficiency 94% eak intensity 0.5 cd/m ED 5.6 cd/m ED 5.6 cd/m ED 28/22T WHM /FVTM 93.0° /123.0° fficiency 94% eak intensity 0.5 cd/m ED 5.6 cd/m ED 5.			90* 90*
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ight colour White			- 200
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30 ⁴ 25 ⁷ 0 ⁴ 25 ⁷			
30 ⁴ 30 ⁴ 30 ⁴			
			36° 36° 36°



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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