

PRODUCT DATASHEET CS16329_STRADELLA-IP-28-HB-M-PC

STRADELLA-IP-28-HB-M-PC

~65° medium beam. Variant made from PC.

SPECIFICATION:

Dimensions	100.0 x 100.0 mm
Height	9.5 mm
Fastening	pin, screw
Ingress protection classes	IP66, IP67
ROHS compliant	yes 🛈



MATERIALS:

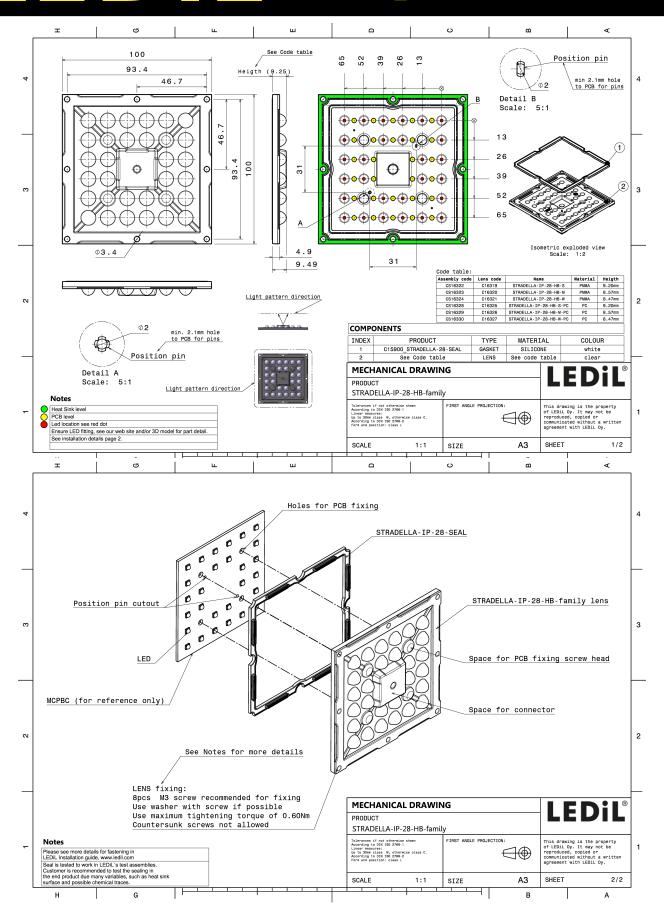
Component	Туре	Material	Colour	Finish
STRADELLA-IP-28-HB-M-PC	Multi-lens	PC	clear	
STRADELLA-28-SEAL	Seal	Silicone	white	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS16329_STRADELLA-IP-28-HB-M-PC	Multi-lens	156	78	78	5.9
» Box size: 476 x 273 x 247 mm					

Last update: 22/12/2023Subject to change without prior noticePublished: 06/11/2018LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.1/11

PRODUCT DATASHEET CS16329_STRADELLA-IP-28-HB-M-PC



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 48.0° / 108.0° 89 % 0.8 cd/lm 1 White ints:	20° 0° 20° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiQLED STR28 CR JK3030 4x7 xxx 46.0° / 105.0° 88 % 0.8 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX STR28 XD2x14 xxx G8 58.0° / 119.0° 88 % 0.6 cd/lm 1 White ints:	200 50° 60° 50° 50° 50° 50° 50° 50° 50° 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX STR28 XP2x14 xxx G7 59.0° / 119.0° 90 % 0.6 cd/lm 1 White Ints:	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX STR28 XT2x14 xxx G5 58.0° / 121.0° 91 % 0.7 cd/lm 1 White nts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 2835 48.0° / 108.0° 89 % 0.8 cd/lm 1 White nts:	9 ³ 97 97 97 98 97 98 98 98 98 98 98 99 99 99 99 99 99 99
CREE C LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 3030 46.0° / 105.0° 88 % 0.8 cd/lm 1 White nts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 3030 51.0° / 114.0° 92 % 0.8 cd/lm 1 White nts:	



		90* 90*
LED	XD16	
FWHM / FWTM	58.0° / 119.0°	75. 75.
Efficiency	88 %	
	0.6 cd/lm	60°
LEDs/each optic	1	
Light colour	White	gr
Required componen		400
		610
		30° 30° 30° 30°
		90* 90*
	XP-G3	
FWHM / FWTM	59.0° / 119.0°	75.
Efficiency	90 %	200
Peak intensity	0.6 cd/lm	60° / / / / / / / / / / / / / / / / / / /
LEDs/each optic	1	
Light colour	White	95* 440 63*
Required componen		
i		
		15 0 15
		90 ⁴
LEDS	XT-F	90* 122 0° 125 125
LED	XT-E 58.0° / 121.0°	32 33 39 30 30 30 30 30 30 30 30 30 30 30 30 30
LED FWHM / FWTM	58.0° / 121.0°	
LEDs LED FWHM / FWTM Efficiency	58.0° / 121.0° 91 %	
LEDs LED FWHM / FWTM Efficiency Peak intensity	58.0° / 121.0° 91 % 0.7 cd/lm	
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic	58.0° / 121.0° 91 % 0.7 cd/lm 1	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 121.0° 91 % 0.7 cd/lm 1 White	
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic	58.0° / 121.0° 91 % 0.7 cd/lm 1 White	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 121.0° 91 % 0.7 cd/lm 1 White	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 121.0° 91 % 0.7 cd/lm 1 White	77 60 60 60 60 60 60
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	58.0° / 121.0° 91 % 0.7 cd/lm 1 White	
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	58.0° / 121.0° 91 % 0.7 cd/lm 1 White	20 0 0 0 0 0 0 0 0 0 0 0 0 0
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	58.0° / 121.0° 91 % 0.7 cd/lm 1 White ts:	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	58.0° / 121.0° 91 % 0.7 cd/lm 1 White ts: OSCONIQ S 3030 (QSLR31)	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen OSRAM Opto Semiconductors LED FWHM / FWTM	58.0° / 121.0° 91 % 0.7 cd/lm 1 White ts: OSCONIQ S 3030 (QSLR31) 50.0° / 113.0°	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	58.0° / 121.0° 91 % 0.7 cd/lm 1 White ts: OSCONIQ S 3030 (QSLR31) 50.0° / 113.0° 92 %	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	58.0° / 121.0° 91 % 0.7 cd/lm 1 White ts: OSCONIQ S 3030 (QSLR31) 50.0° / 113.0° 92 % 0.8 cd/lm	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	58.0° / 121.0° 91 % 0.7 cd/lm 1 White ts: OSCONIQ S 3030 (QSLR31) 50.0° / 113.0° 92 % 0.8 cd/lm 1	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 121.0° 91 % 0.7 cd/lm 1 White ts: OSCONIQ S 3030 (QSLR31) 50.0° / 113.0° 92 % 0.8 cd/lm 1 White	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	58.0° / 121.0° 91 % 0.7 cd/lm 1 White ts: OSCONIQ S 3030 (QSLR31) 50.0° / 113.0° 92 % 0.8 cd/lm 1 White	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 121.0° 91 % 0.7 cd/lm 1 White ts: OSCONIQ S 3030 (QSLR31) 50.0° / 113.0° 92 % 0.8 cd/lm 1 White	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 121.0° 91 % 0.7 cd/lm 1 White ts: OSCONIQ S 3030 (QSLR31) 50.0° / 113.0° 92 % 0.8 cd/lm 1 White	



OSRAM opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone		
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM SC28 (LH181B) 46.0° / 102.0° 87 % 0.8 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM SM28 (LM301B) 48.0° / 108.0° 89 % 0.8 cd/lm 1 White	



		90° 90°
LED	XP-G2 HE	
FWHM / FWTM	66.0° / 122.0°	75*
Efficiency	91 %	200
Peak intensity	0.6 cd/lm	60°
LEDs/each optic	1	
Light colour	White	gr gr
Required components:		
		200
		30 35 30 30 30 30 30 30 30 30 30 30 30 30 30
UMILEC	DS	90*
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	53.0° / 112.0°	200
Efficiency	89 %	50°
Peak intensity	0.9 cd/lm	$K \rightarrow 1 \rightarrow 2$
LEDs/each optic	1	400
Light colour	White	27°
Required components:		600
		31.
ØNICHIA		
LED	NF2x757G	
LED FWHM / FWTM	57.0° / 114.0°	
LED FWHM / FWTM Efficiency	57.0° / 114.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	57.0° / 114.0° 94 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	57.0° / 114.0° 94 % 0.8 cd/lm 1	79 99 99 - 200 - 60 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0° / 114.0° 94 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	57.0° / 114.0° 94 % 0.8 cd/lm 1	79 99 99 - 200 - 60 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0° / 114.0° 94 % 0.8 cd/lm 1	79 99 99 - 200 - 60 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0° / 114.0° 94 % 0.8 cd/lm 1	79 99 99 - 200 - 60 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0° / 114.0° 94 % 0.8 cd/lm 1	75 99 99 - 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0° / 114.0° 94 % 0.8 cd/lm 1	25 00 01 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0° / 114.0° 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0° / 114.0° 94 % 0.8 cd/lm 1 White NVSW219F	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0° / 114.0° 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0° / 114.0° 94 % 0.8 cd/lm 1 White NVSW219F 63.0 + 64.0° / 118.0° 91 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0° / 114.0° 94 % 0.8 cd/lm 1 White NVSW219F 63.0 + 64.0° / 118.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0° / 114.0° 94 % 0.8 cd/lm 1 White NVSW219F 63.0 + 64.0° / 118.0° 91 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0° / 114.0° 94 % 0.8 cd/lm 1 White NVSW219F 63.0 + 64.0° / 118.0° 91 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0° / 114.0° 94 % 0.8 cd/lm 1 White NVSW219F 63.0 + 64.0° / 118.0° 91 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	57.0° / 114.0° 94 % 0.8 cd/lm 1 White NVSW219F 63.0 + 64.0° / 118.0° 91 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	57.0° / 114.0° 94 % 0.8 cd/lm 1 White NVSW219F 63.0 + 64.0° / 118.0° 91 % 0.7 cd/lm 1	



	NVSxE21A	90 ⁴
FWHM / FWTM	55.0° / 111.0°	23.
Efficiency	89 %	60* 60*
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	42°
Required components:		
		30° 20° 30°
ØNICHI Λ		90* 95*
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	73.0° / 122.0°	75* 75*
Efficiency	95 %	200
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	er de co
Required components:		
		30° 36°
0000414		
OSRAM Opto Semiconductors		90* 90*
LED	Duris S8	
	Duris S8 58.0° / 104.0°	7
FWHM / FWTM		79 200 60*
LED FWHM / FWTM Efficiency Peak intensity	58.0° / 104.0°	25
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	58.0° / 104.0° 86 % 0.8 cd/lm 1	755
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 104.0° 86 % 0.8 cd/lm	57 50 57 50 60 60 57
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	58.0° / 104.0° 86 % 0.8 cd/lm 1	50° - 50°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 104.0° 86 % 0.8 cd/lm 1	50° - 50°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 104.0° 86 % 0.8 cd/lm 1	50° - 50°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 104.0° 86 % 0.8 cd/lm 1	50 ⁴ 60 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 104.0° 86 % 0.8 cd/lm 1	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 104.0° 86 % 0.8 cd/lm 1 White	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 104.0° 86 % 0.8 cd/lm 1 White	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	58.0° / 104.0° 86 % 0.8 cd/lm 1 White OSCONIQ C 2424 60.0° / 114.0°	200 200 200 200 200 200 200 200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	58.0° / 104.0° 86 % 0.8 cd/lm 1 White OSCONIQ C 2424 60.0° / 114.0° 92 %	50° 50° 50° 50° 50° 50° 50° 50°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	58.0° / 104.0° 86 % 0.8 cd/lm 1 White OSCONIQ C 2424 60.0° / 114.0° 92 % 0.7 cd/lm	200 200 200 200 200 200 200 200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	58.0° / 104.0° 86 % 0.8 cd/lm 1 White OSCONIQ C 2424 60.0° / 114.0° 92 % 0.7 cd/lm 1	200 200 200 200 200 200 200 200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 104.0° 86 % 0.8 cd/lm 1 White OSCONIQ C 2424 60.0° / 114.0° 92 % 0.7 cd/lm	200 200 200 200 200 200 200 200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	58.0° / 104.0° 86 % 0.8 cd/lm 1 White OSCONIQ C 2424 60.0° / 114.0° 92 % 0.7 cd/lm 1	200 200 200 200 200 200 200 200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 104.0° 86 % 0.8 cd/lm 1 White OSCONIQ C 2424 60.0° / 114.0° 92 % 0.7 cd/lm 1	200 200 200 200 200 200 200 200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 104.0° 86 % 0.8 cd/lm 1 White OSCONIQ C 2424 60.0° / 114.0° 92 % 0.7 cd/lm 1	200 200 200 200 200 200 200 200



[
OSRAM Opto Semiconductors		90° 90°
LED	OSCONIQ P 3030	
FWHM / FWTM	50.0° / 113.0°	75. 25.
Efficiency	95 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	400
Light colour	' White	45* 45*
Required components:	Wille	
Required components.		
		200
		30° 12° 0° 12° 30°
OSRAM		
Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (2W version)	75* 75*
FWHM / FWTM	56.0° / 113.0°	200
Efficiency	90 %	60°
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required components:		
		30° 30° 35° 36°
SAMSUN		90*
LED	LH351C	27 29 29
LED FWHM / FWTM	LH351C 70.0° / 114.0°	5°.
LED FWHM / FWTM Efficiency	LH351C 70.0° / 114.0° 93 %	64
LED FWHM / FWTM Efficiency Peak intensity	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm	64 - 200 25 - 25 25 - 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm	21
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1	50 ⁴ 57 64 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1	5°. 400 5°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1	51 51 51 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1	20° 21° 21° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1	200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: second semiconductor LED	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1 White SEOUL 3030	200 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: storus semiconductor LED FWHM / FWTM	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1 White SEOUL 3030 58.0° / 114.0°	54 54 55 60 60 57 57 57 57 57 57 57 57 57 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stolus semiconductor LED FWHM / FWTM Efficiency	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1 White SEOUL 3030 58.0° / 114.0° 92 %	25- 26- 26- 20- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 27- 27- 27- 27- 27- 27- 27- 27- 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1 White SEOUL 3030 58.0° / 114.0° 92 % 0.7 cd/lm	25- 26- 26- 20- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 27- 27- 27- 27- 27- 27- 27- 27- 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1 White SEOUL 3030 58.0° / 114.0° 92 % 0.7 cd/lm 1	20- 20- 20- 20- 20- 20- 20- 20- 20- 20-
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	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1 White SEOUL 3030 58.0° / 114.0° 92 % 0.7 cd/lm	25- 26- 26- 20- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 27- 27- 27- 27- 27- 27- 27- 27- 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1 White SEOUL 3030 58.0° / 114.0° 92 % 0.7 cd/lm 1	25- 26- 26- 20- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 26- 27- 27- 27- 27- 27- 27- 27- 27- 27- 27
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	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1 White SEOUL 3030 58.0° / 114.0° 92 % 0.7 cd/lm 1	54 54 55 60 60 57 57 57 57 57 57 57 57 57 57
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	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1 White SEOUL 3030 58.0° / 114.0° 92 % 0.7 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	LH351C 70.0° / 114.0° 93 % 0.7 cd/lm 1 White SEOUL 3030 58.0° / 114.0° 92 % 0.7 cd/lm 1	



SEOUL		90° 90°
SEOUL SEMICONDUCTOR		
EED FWHM / FWTM	SEOUL DC 3030C 59.0° / 116.0°	751
Efficiency	93 %	
Peak intensity	93 % 0.7 cd/lm	60* DO*
LEDs/each optic	1	
Light colour	u White	450 450
Required components:	White	
Required components.		
		\times / \checkmark / \times
		30 ⁶ 30 ⁶ 30 ⁶
SEOUL		
	7514 (751)0	
	Z5M1/Z5M2	75'
FWHM / FWTM	63.0° / 116.0°	200
Efficiency	92 % 0.7 cd/lm	60° 60°
Peak intensity		
LEDs/each optic	1	an 400 ar
Light colour	White	\times / \wedge / \wedge /
Required components:		
		640
		30° 36° 36°
SEOUL		90° 90°
	70//0	
LED	Z8Y19	75' 75'
FWHM / FWTM	73.0° / 115.0°	
Efficiency	88 %	60° 60°
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	45°
Light colour	White	
Required components:		
		36° 36° 36°
SEOUL		L. Y F_1
SEOUL SEMICONDUCTOR	70/00	90*
LED	Z8Y22	75
FWHM / FWTM	71.0° / 121.0°	
Efficiency	89 %	50° 50°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
LEDs/each optic Light colour	1 White	g
LEDs/each optic		97 - 44a
LEDs/each optic Light colour		б. <u>но</u> б.
LEDs/each optic Light colour		o, 10, 0,
LEDs/each optic Light colour		