

PRODUCT DATASHEET C14680_STRADA-2X2-VSM

STRADA-2X2-VSM

IESNA Type V (square) beam for wide areas lighting such as car parks

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	6.1 mm
Fastening	glue, pin, screw
ROHS compliant	yes 🛈



MATERIALS:

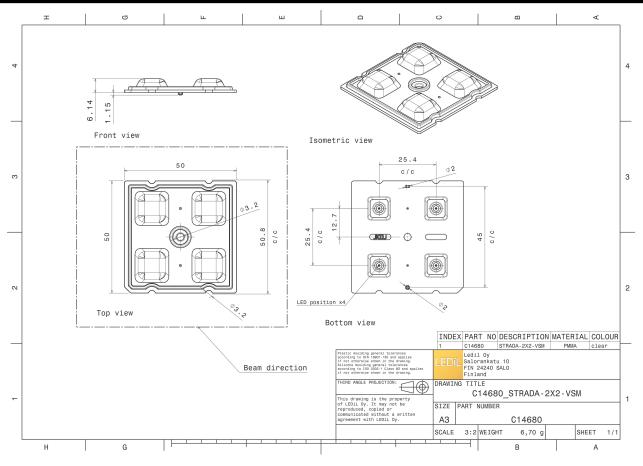
Component	Туре	Material	Colour	Finish
STRADA-2X2-VSM	Multi-lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C14680_STRADA-2X2-VSM	800	160	160	6.2
» Box size: 480 x 280 x 300 mm				



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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Bridgelux SMD 5050 149.0° / 158.0° 94 % 0.3 cd/lm 1 White hts:	50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x4 xxx LS G5 Asymmetric 94 % 0.5 cd/lm 1 White hts:	
LED FWHM / FWTM	QUICK FLUX XTP 2x6 xxx LS G5	23- 25- 26- 25- 26- 25- 26- 25- 26- 25- 26- 25- 26- 26- 26- 26- 26- 26- 26- 26- 26- 26
Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/m 1 White	61 <u>30</u> 61
Required componer	nts:	400 255° 25° 35°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x8 xxx LS G5 Asymmetric 94 % 0.5 cd/lm 1 White	50 ⁴ 71 72 75 75 75 75 75 75 75 75 75 75
		201 ⁻ 12 ¹ 0 ¹ 12 ¹ 30 ¹



UREE T ALE		90* 90*
LED	XD16	
FWHM / FWTM	149.0° / 159.0°	75° 50 75°
Efficiency	94 %	100
Peak intensity	0.4 cd/lm	601 601
LEDs/each optic	4	200
Light colour	White	45° 250 45°
Required component	115.	
		20
		30° 400 30° 30°
LED	XD16	90-
FWHM / FWTM	Asymmetric	750 781
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required component		45* 45*
Required component	115.	
		30° 15° 0° 15° 30°
	1	90* 90*
LED	XHP35 HD	
FWHM / FWTM	Asymmetric	75° 50
Efficiency	94 %	100
Peak intensity	0.4 cd/lm	.60* <u>150</u> 60*
LEDs/each optic	1	XXX
Light colour	White	45"
Required compone		
		300
		X to X
		20
		20° 400 20° 15° 0° 15° 30°
	1	20 40 50 [*] 40 10 [*] 10 [*]
		20 40 50* 15 ⁰ 0* 15 ⁰ 0
LED	XP-G2	 20 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM	XP-G2 151.0° / 161.0°	 75
LED FWHM / FWTM Efficiency	XP-G2 151.0° / 161.0° 94 %	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity	XP-G2 151.0° / 161.0° 94 % 0.5 cd/lm	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G2 151.0° / 161.0° 94 % 0.5 cd/m 1	100 000 000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 151.0° / 161.0° 94 % 0.5 cd/m 1 White	50° 100 97°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G2 151.0° / 161.0° 94 % 0.5 cd/m 1 White	100 000 000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 151.0° / 161.0° 94 % 0.5 cd/m 1 White	10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 151.0° / 161.0° 94 % 0.5 cd/m 1 White	100 000 000 000 000 000 000 000 000 000



LED	XP-G2 HE	
FWHM / FWTM	152.0° / 160.0°	
Efficiency	94 %	
Peak intensity	0.4 cd/lm	
	1	
	White	
Required component	S:	
		90* 90*
LED	XP-G3	20
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.5 cd/lm	200
	1	20
	White	(6°) (6°)
Required component	S:	
		30
		460
		450 30*
		133 66 157
		90*
LED	XT-E	50
FWHM / FWTM	152.0° / 170.0°	25
	94 %	gy* 150 gy*
	0.5 cd/lm	
	1	
5	White	er <u>20</u> er
Required component	S:	30
		*
		400
		30° 450 50°
	DS	THA AFT
		90* 90*
	LUXEON 5050 Round LES	710 770
	Asymmetric 94 %	
	94 % 0.4 cd/lm	60° 6.*
	1	
	White	
		45° 250 45°
	e	
Required component	S:	
	S:	20
	S:	



COMIL	EDS	90°
LED	LUXEON C	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60 ⁴
LEDs/each optic	1	200
Light colour	PC Amber	
Required compone		45* 300 45*
Required compone	113.	\times
		40
		\times
		30° 500 30° 30°
	EDS	
		90* 90*
		70 50 751
FWHM / FWTM	151.0° / 167.0°	
Efficiency	94 % 0.4 cd/lm	50° 50°
Peak intensity		
LEDs/each optic	1	
Light colour Required compone	White	45° 250 4°
Requirea compone	nts.	30
		40
		30* 30*
		10 490 10
	EDS	
LED	LUXEON V2	
LED FWHM / FWTM	LUXEON V2 147.0° / 158.0°	94 ⁴ 95 ⁴ 96 ⁴ 97 ⁴ 100
LED FWHM / FWTM Efficiency	LUXEON V2 147.0° / 158.0° 94 %	10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm	12° 0° 13° 19° 10° 10° 10° 10° 10° 10° 10° 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White	200 13'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White	200 100 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White nts: SST-10-B130	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White nts: SST-10-B130 144.0° / 157.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White nts: SST-10-B130 144.0° / 157.0° 97 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White nts: SST-10-B130 144.0° / 157.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White nts: SST-10-B130 144.0° / 157.0° 97 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White nts: SST-10-B130 144.0° / 157.0° 97 % 0.6 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White nts: SST-10-B130 144.0° / 157.0° 97 % 0.6 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White nts: SST-10-B130 144.0° / 157.0° 97 % 0.6 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 147.0° / 158.0° 94 % 0.5 cd/lm 1 White nts: SST-10-B130 144.0° / 157.0° 97 % 0.6 cd/lm 1 Deep Red	



r		
MST Your solut	ons	90* 99*
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	195°
FWHM / FWTM	Asymmetric	75* 78*
Efficiency	98 %	
Peak intensity	0.4 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required component		30
		\times
		400
		30° 30° 30°
ØNICHIA		
LED	NVSW219D	90* 90*
FWHM / FWTM	152.0° / 163.0°	50
Efficiency	94 %	
Peak intensity	34 % 0.4 cd/lm	50° 50°.
LEDs/each optic	1	200
Light colour	White	20 gt
Required component		-45°
required componen	ιυ.	
		40
		30* 4\$0 30 ² 30 ²
ØNICHI		
LED	NVSW219F	95*
FWHM / FWTM	151.0° / 160.0°	73°
Efficiency	94 %	300
Peak intensity	0.5 cd/lm	50 ⁴ 230 60 ⁴
LEDs/each optic	1	200
Light colour	White	20 2th
Required component		
		30
		40
		450
		30* 15 ⁵ 0 ⁶ 15* 30*
ØNICHIA		
LED	NVSW319B	
FWHM / FWTM	156.0° / 164.0°	59 73°
Efficiency	94 %	10
Peak intensity	0.5 cd/m	50 ⁴ 120 60*
LEDs/each optic	1	200
Light colour	White	43° 250 45°
Required compone		300
		X
		X + + X
		430
		30 ⁴ 15 ⁵ 0 ⁶ 15 ⁴ 30 ⁴



<i>⊘</i> NICHI∕		
		90* 90*
LED FWHM / FWTM	NVSW3x9A 152.0° / 161.0°	750 752
Efficiency	94 %	100
Peak intensity	0.5 cd/lm	60*
LEDs/each optic	1	200
Light colour	White	5°
Required compone		30
		\times
		400
~		15 ⁵ 55 55 55 55 55 55 55 55 55 55 55 55 5
ØNICHI∕		90* 90*
LED	NVSxE21A	
FWHM / FWTM	134.0° / 144.0°	73°
Efficiency	94 %	50 ⁴ 200 50*
Peak intensity	0.7 cd/lm	\land
LEDs/each optic	1	30
Light colour	White	45" 460 47
Required compone	nts:	X / T / X
		30° 25 ⁵ 0° 15° 30°
OSRAM		90° 90°
LED	PL-BRICK HP 3800 2x8 SSG	50
FWHM / FWTM	Asymmetric	732 755
Efficiency	96 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required compone	nts:	
		30
		400
		30° 430 30° 15° 30°
OSRAM		
Opto Semiconductors	Duris S8	90" 90"
FWHM / FWTM	141.0° / 153.0°	73°
Efficiency	88 %	100
Peak intensity	0.3 cd/lm	60 ⁴ _ 150 _ 60 ⁴
LEDs/each optic	1	
Light colour	White	45° 200 95°
Required compone		20
		30
Protective	plate, glass	30
		30 ⁴ 30 ⁴
		15° 15°



OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	148.0° / 159.0°	73° 75°
Efficiency	94 %	
Peak intensity	0.5 cd/lm	50* 60*
LEDs/each optic	1	$X/(T \setminus X)$
Light colour	White	451
Required compone		
		400
		\times / \top / \times
		30* 30* 30* 30*
OSRAM Opto Semiconductors		
	OSI ON Square DC	90° 90°
	OSLON Square PC 143.0° / 160.0°	750 750
FWHM / FWTM	94 %	
Efficiency	94 % 0.5 cd/lm	50* 60*
Peak intensity LEDs/each optic	1	\times
Light colour	White	
Required compone		45* 45*
Required compone	10.	400
		\times / \setminus \times
		500
		30° 15° 30°
PHILIP		
		90* 90*
LED	Fortimo FastFlex LED 2x8 DA G4	755
FWHM / FWTM	146.0° / 156.0°	
Efficiency	94 %	50 ⁴ 70 60 ⁴
Peak intensity	0.5 cd/lm	X/T X
LEDs/each optic	1 White	X A set X
Light colour Required compone		6 ¹
Required compone	15.	400
		\times
		500
		30* 15 ⁵ 0 ⁵ 15* 30*
PHILIP	S	
		90° 90°
LED	Fortimo FastFlex LED 2x8 DA G4+	70 20 70
FWHM / FWTM	152.0° / 160.0°	
Efficiency	94 %	60 ⁴ 150 60 ⁴ .
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 250 45°
Required compone	NS:	30
		X
1		X X 400 X
		30° 33° 50 13° 30°



PHILIF	PS S	9 9*
LED	Fortimo FastFlex LED 2x8 DA G5	50
FWHM / FWTM	146.0° / 156.0°	239
Efficiency	97 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	20
Light colour	White	457 250
Required compone	nts:	30
		30
		40
		30° 400 3
слиз	INC	<u> </u>
<u>9111191</u>		90* 9
LED	HiLOM RC12 Z (LH181B)	
FWHM / FWTM	138.0° / 148.0°	100
Efficiency	99 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	457 300 4
Required compone	nts:	\times
		400
		30* 500
слмс		13 ⁵ 0 ⁶ 15 ⁵
<u> 21 INI 21</u>	JNG	90* 9
LED	HiLOM RH12 Z (LH351C)	
FWHM / FWTM	147.0° / 156.0°	75 77
Efficiency	97 %	
Peak intensity	0.4 cd/lm	200
LEDs/each optic	1	
Light colour	White	45*
Required compone	nts:	
<u> </u>	INC	40 10 13 13 13 13 10 10 10 10 10 10
SVWSI		800 30° 30° 30° 30° 30° 30° 30° 30° 30° 3
LED	HiLOM RH16 (LH351C)	13 ⁴ <u>4⁴</u> 13 ⁴
LED FWHM / FWTM	HiLOM RH16 (LH351C) Asymmetric	13 ² 2 ⁴ / ₀ 13 ⁴
LED FWHM / FWTM Efficiency	HiLOM RH16 (LH351C) Asymmetric 94 %	12 ³ 4 ² / ₂ 12 ³
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RH16 (LH351C) Asymmetric 94 % 0.5 cd/lm	23 ⁻ 2 ³ - 23 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH16 (LH351C) Asymmetric 94 % 0.5 cd/lm 1	20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 0.5 cd/lm 1 White	25° 26° 25° 99° 28° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH16 (LH351C) Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 0.5 cd/lm 1 White	



SAMSI	JNG	50°
LED	HiLOM RM12 Z (LH502C)	
FWHM / FWTM	144.0° / 157.0°	739
Efficiency	97 %	- 160
Peak intensity	0.3 cd/lm	501*
LEDs/each optic	1	
Light colour	White	45*
Required compone	ents:	20
		3/0
		30*
SAMSI		19 10 19 19 19 19 19 19 19 19 19 19 19 19 19
		90°
LED	HiLOM RM16 Z (LH502C)	759 50
FWHM / FWTM	144.0° / 156.0°	
Efficiency	98 %	207
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	20
Light colour	White	45
Required compone	ints:	
		30
		30
		30° 13° 600 11°
SAMSI	ING	
LED		90*
FWHM / FWTM	HiLOM RM8 Z (LH502C) 144.0° / 157.0°	759
Efficiency	97 %	
Peak intensity	0.3 cd/lm	60 ¹
LEDs/each optic	1	
Light colour	White	
Required compone		20
		30
		30° 13° 13° 13°
SAMSI	JNG	
LED	LH351B	50
FWHM / FWTM	153.0° / 161.0°	230
Efficiency	94 %	10
Peak intensity	0.5 cd/lm	50 ⁴ 350
LEDs/each optic	1	20
Light colour	White	43* 220
		30
Required compone		300
Required compone		
requirea compone		
rrequirea compone		40



SΛMSL	ING	
LED	LH351C	90* 90*
FWHM / FWTM	149.0° / 157.0°	75°
Efficiency	94 %	100
Peak intensity	0.5 cd/lm	.50 ⁴ 60 ⁴ .
LEDs/each optic	1	200
Light colour	White	
Required compone		30
		400
		30° 560 30° 30° 30°
SAMSL	JNG	90* 90*
LED	LH351D	
FWHM / FWTM	156.0° / 162.0°	120
Efficiency	94 %	10
Peak intensity	0.4 cd/lm	-60*60*.
LEDs/each optic	1	200
Light colour	White	45° 250 55°
Required compone	nts:	
		300
		30
		30° 400 33°
СЛЛАСІ		
S ΛΜSL	JNG	90° 90°
LED	LH508A	
FWHM / FWTM	146.0° / 157.0°	750 70
FWHM / FWTM Efficiency	146.0° / 157.0° 94 %	50 50 50 50 50 60 50
FWHM / FWTM Efficiency Peak intensity	146.0° / 157.0° 94 % 0.4 cd/lm	50 50 50 50 50 50 50 50 50 50 50 50 50 50 5
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	146.0° / 157.0° 94 % 0.4 cd/lm 1	5° 6° 10 10 50 50 50 50 50 50 50 50 50 50 50 50 50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	146.0° / 157.0° 94 % 0.4 cd/lm 1 White	5° 50 50 50 50 50 50 50 50 50 50 50 50 50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	146.0° / 157.0° 94 % 0.4 cd/lm 1 White	20
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	146.0° / 157.0° 94 % 0.4 cd/lm 1 White	20
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	146.0° / 157.0° 94 % 0.4 cd/lm 1 White	20
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	146.0° / 157.0° 94 % 0.4 cd/lm 1 White	20
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	146.0° / 157.0° 94 % 0.4 cd/lm 1 White	5° 20 5° 20 50 50 50 50 50 50 50 50 50 50 50 50 50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts:	5° 20 90 90 90 40
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01	5° 20 5° 20 50 50 50 50 50 50 50 50 50 50 50 50 50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 146.0° / 156.0°	5° 20 5° 20 50 50 50 50 50 50 50 50 50 50 50 50 50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 146.0° / 156.0° 98 %	5° 20 90 90 90 40
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 146.0° / 156.0° 98 % 0.4 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 146.0° / 156.0° 98 % 0.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 146.0° / 156.0° 98 % 0.4 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 146.0° / 156.0° 98 % 0.4 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 146.0° / 156.0° 98 % 0.4 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	146.0° / 157.0° 94 % 0.4 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 146.0° / 156.0° 98 % 0.4 cd/lm 1 White	



SEOUL		
seoul semiconductor	Z5M3	90° 90°
EED FWHM / FWTM		75° 50 75°
	Asymmetric	10
Efficiency	94 %	504 150 694
Peak intensity	0.5 cd/lm	200
LEDs/each optic	1	20
Light colour	White	45* 45*
Required compone	nts:	
		400
		30° 450 30°
SEOUL SEMICONDUCTOR		90* 90
LED	Z5M4	
FWHM / FWTM	144.0° / 149.0°	750 770
Efficiency	98 %	
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 300 45*
Required compone	ints:	\times
		400
		X
		30° 15 ⁵ 0° 15°
SEOUL		
SEOUL SEMICONDUCTOR	78.722	30,4
seoul semiconductor	Z8Y22	31 31 31 31 31 31 31 31 31 31 31 31 31 3
seoul semiconductor LED FWHM / FWTM	141.0° / 151.0°	90° 90° 70° 50°
seoul semiconductor LED FWHM / FWTM Efficiency	141.0° / 151.0° 94 %	94 ³ 75 ⁴ 54 ⁴ 5
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	141.0° / 151.0° 94 % 0.5 cd/lm	91 ³ 32 ³ 61 ⁴ 20
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	141.0° / 151.0° 94 % 0.5 cd/lm 1	91 ³ 99 ³ 373 61 ⁴ 509
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 151.0° 94 % 0.5 cd/lm 1 White	50 50 60 50 50 60 50 60 60 60 60 60 60 60 60 60 60 60 60 60
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	141.0° / 151.0° 94 % 0.5 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 151.0° 94 % 0.5 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 151.0° 94 % 0.5 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 151.0° 94 % 0.5 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	141.0° / 151.0° 94 % 0.5 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	141.0° / 151.0° 94 % 0.5 cd/lm 1 White ints:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED	141.0° / 151.0° 94 % 0.5 cd/lm 1 White ints: Z8Y22P	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM	141.0° / 151.0° 94 % 0.5 cd/lm 1 White ints: Z8Y22P 146.0° / 161.0°	90°
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul stanconductor LED FWHM / FWTM Efficiency	141.0° / 151.0° 94 % 0.5 cd/lm 1 White ints: Z8Y22P 146.0° / 161.0° 94 %	
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	141.0° / 151.0° 94 % 0.5 cd/lm 1 White ints: Z8Y22P 146.0° / 161.0°	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	141.0° / 151.0° 94 % 0.5 cd/lm 1 White ints: Z8Y22P 146.0° / 161.0° 94 % 0.5 cd/lm 1	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 151.0° 94 % 0.5 cd/lm 1 White ints: Z8Y22P 146.0° / 161.0° 94 % 0.5 cd/lm 1 White	00 00 00 00 00 00 00 00 00 00
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	141.0° / 151.0° 94 % 0.5 cd/lm 1 White ints: Z8Y22P 146.0° / 161.0° 94 % 0.5 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 151.0° 94 % 0.5 cd/lm 1 White ints: Z8Y22P 146.0° / 161.0° 94 % 0.5 cd/lm 1 White	
seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 151.0° 94 % 0.5 cd/lm 1 White ints: Z8Y22P 146.0° / 161.0° 94 % 0.5 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	141.0° / 151.0° 94 % 0.5 cd/lm 1 White ints: Z8Y22P 146.0° / 161.0° 94 % 0.5 cd/lm 1 White	



TRIDONIC

LED
FWHM / FWTM
Efficiency
Peak intensity
LEDs/each optic
Light colour
Required componen

RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 0.6 cd/lm 1 White

TRIDO	NIC .	90*
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	.60° 200 60°.
LEDs/each optic	1	
Light colour	White	45* 30 45*
Required compone	ents:	
		460
		30°
		13 ⁵ 0 ⁶ 19 ⁶
TRIDON	NIC	90° 90°
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	
FWHM / FWTM	139.0° / 155.0°	75* 75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60° 60'
LEDs/each optic	1	60
Light colour	White	45°
Required compone	ents:	80
		1000
		\times \top \times
		30° 1200 30°
	10	15 ⁵ 0 ⁶ 15 ⁶
TRIDON		90* 90*
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	
FWHM / FWTM	139.0° / 155.0°	284 200 751
Efficiency	94 %	400
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	X
Light colour	White	6° 67
Required compone	ents:	800
		5000
		30° 1230 30°
		15 ³ 0 ⁴ 15 ⁴



TRIDON	1IC	8°
LED	RLE G1 49x223mm 4000lm xxx EXC OTD	
FWHM / FWTM	139.0° / 155.0°	751 701 751
Efficiency	94 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45. 63.
Required compone	nts:	2003 2003 2013 2014 2014 2014 2014 2014 2014 2014 2014
TRIDON	lic	90°
LED	RLE G1 49x245mm 4000lm xxx EXC OTD	
FWHM / FWTM	139.0° / 155.0°	751 772
Efficiency	94 %	
Peak intensity	0.5 cd/lm	50°
LEDs/each optic	1	500 X
Light colour	White	45. 63.
Required compone	nts:	00
		200



		THY HAND
LED	J Series 5050 Square LES 30V	90* 90*
FWHM / FWTM	150.0° / 162.0°	750 750
Efficiency	91 %	694 604
Peak intensity	0.3 cd/lm	- 150
LEDs/each optic	1	200
Light colour	White	45* 250 45*
Required components:		
		300
		X
		-30 ⁺ 13 ⁵ 400 0 ⁺ 10 ⁺ 30 ⁺
LED	J Series 5050 Square LES 30V	90*
FWHM / FWTM	146.0° / 160.0°	75° 50 75°
Efficiency	74 %	
Peak intensity	0.2 cd/lm	604 <u>100</u> 604
LEDs/each optic	1	X Jao X
Light colour	White	5°
Required components:	White	200
required components.		
Protective plate	e, glass	
		200
		30* 13 ⁵ 26 15 ⁴ 30 ⁴
		90* 90*
LED	J Series 5050 Square LES 6V	50
FWHM / FWTM	148.0° / 160.0°	73*
Efficiency	97 %	
Peak intensity	0.3 cd/lm	50 50
LEDs/each optic	1	200
Light colour	White	45* 250 45*
Required components:		
		X
		30* 400 30*
		123 09 139
		90* 90*
LED	J Series 5050 Square LES 6V	750
FWHM / FWTM	144.0° / 158.0°	
Efficiency	80 %	504 160 504
Peak intensity	0.3 cd/lm	X / 10 X)
LEDs/each optic	1	$ X \times \to X \times$
Light colour	White	45* 200 45*
Required components:		20
Protective plate	a dass	
i i oteotive plate	2, 9000	
		30° 350 30° 30° 30°
		10° 0° 15°



		80. 001
LED	XB-D	50
FWHM / FWTM	151.0° / 180.0°	75°
Efficiency	94 %	50 ⁴ 150 60 ⁴
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 220 45*
Required components:		30

		400
		30* 450 39* 39*
		90 ⁺ 90 ⁺
LED	XM-L	50
FWHM / FWTM	152.0° / 161.0°	73°
Efficiency	96 %	10
Peak intensity	0.4 cd/lm	60 ⁴ 6 ⁶⁴
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		30
		400
		30° 30°
		127 550 127
		90* 90*
LED	XM-L2	750 700 700
FWHM / FWTM	152.0° / 160.0° 96 %	100
Efficiency Peak intensity	90 % 0.4 cd/lm	sùt <u>150</u> 60t.
LEDs/each optic	1	20
Light colour	' White	
Required components:		* * *

		400
		450 30* 30*
		15 ³ 46 ⁶ 15 ⁴
		90* 90*
LED	XP-G	50
FWHM / FWTM	152.0° / 163.0°	75° 75°
Efficiency	95 %	130
Peak intensity	0.4 cd/lm	200
LEDs/each optic	1	20
Light colour	White	65° 300 65°
Required components:		



		90* 90*
LED	XP-G3	
FWHM / FWTM	150.0° / 161.0°	75° 70 77
Efficiency	74 %	
Peak intensity	0.3 cd/lm	.53 ⁴ 60 ⁴
LEDs/each optic	1	150
Light colour	' White	
Required components:	White	45* 200 43*
Required components.		20
Protective plate	e, glass	30
		30° 340 30° 30° 30° 30°
		301 301
LED	XP-L2	50
FWHM / FWTM	151.0° / 161.0°	20 Contraction of the
Efficiency	94 %	
Peak intensity	0.4 cd/lm	60 ⁴ 120 60 ⁴ .
LEDs/each optic	1	20
Light colour	White	45° 250 45°
Required components:		300
		30
		400
		√30° 450 30° 15° 30°
		90 ¹ 90 ²
	XP-P	gr gr
	XP-P 144.0° / 156.0°	24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM / FWTM		20 <u>20</u> 20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency	144.0° / 156.0° 78 %	24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM / FWTM Efficiency Peak intensity	144.0° / 156.0°	24
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	144.0° / 156.0° 78 % 0.3 cd/lm	24
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	144.0° / 156.0° 78 % 0.3 cd/lm 1	23° 50 70° 70° 70° 70° 70° 70° 70° 70° 70° 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 156.0° 78 % 0.3 cd/lm 1 White	23° 50 70° 70° 70° 70° 70° 70° 70° 70° 70° 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	144.0° / 156.0° 78 % 0.3 cd/lm 1 White	23° 50 70° 70° 70° 70° 70° 70° 70° 70° 70° 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 156.0° 78 % 0.3 cd/lm 1 White	20 00 00 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	144.0° / 156.0° 78 % 0.3 cd/lm 1 White	23° 50 70° 70° 70° 70° 70° 70° 70° 70° 70° 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 156.0° 78 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	144.0° / 156.0° 78 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	144.0° / 156.0° 78 % 0.3 cd/lm 1 White 3, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	144.0° / 156.0° 78 % 0.3 cd/lm 1 White e, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Vertice plate ED FWHM / FWTM Efficiency	144.0° / 156.0° 78 % 0.3 cd/lm 1 White e, glass LUXEON 5050 Round LES Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity	144.0° / 156.0° 78 % 0.3 cd/lm 1 White e, glass LUXEON 5050 Round LES Asymmetric 81 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	144.0° / 156.0° 78 % 0.3 cd/lm 1 White e, glass LUXEON 5050 Round LES Asymmetric 81 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity	144.0° / 156.0° 78 % 0.3 cd/lm 1 White e, glass LUXEON 5050 Round LES Asymmetric 81 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate WMM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 156.0° 78 % 0.3 cd/lm 1 White p, glass LUXEON 5050 Round LES Asymmetric 81 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Vertice plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	144.0° / 156.0° 78 % 0.3 cd/lm 1 White p, glass LUXEON 5050 Round LES Asymmetric 81 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate WMM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	144.0° / 156.0° 78 % 0.3 cd/lm 1 White p, glass LUXEON 5050 Round LES Asymmetric 81 % 0.3 cd/lm 1 White	



UMILE	DS	90°
LED	LUXEON 5050 Square LES	70 50
FWHM / FWTM	148.0° / 161.0°	
Efficiency	96 %	
Peak intensity	0.3 cd/lm	10
LEDs/each optic	1	200
Light colour	White	45° 220
Required components	:	
		30

		40 30*
	DS	
LED	LUXEON 5050 Square LES	36.
FWHM / FWTM	Asymmetric	20 / 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Efficiency	80 %	
Peak intensity	0.3 cd/lm	eur
LEDs/each optic	1	30
Light colour	White	9° 20
Required components		
· · · · · · · · · · · · · · · · · · ·		20
Protective pla	ate, glass	30
•		20° 15° 500 15°
UMILE	DS	3*
LED	LUXEON HL2X	50
FWHM / FWTM	150.0° / 158.0°	75%
Efficiency	95 %	
Peak intensity	0.4 cd/lm	200
LEDs/each optic	1	
Light colour	White	45'
Required components	:	
		40
	DS	
LED	LUXEON HL2Z	94
FWHM / FWTM	140.0° / 152.0°	75
Efficiency	80 %	300
Peak intensity	0.4 cd/lm	60* 500
LEDs/each optic	0.4 co/im 1	20
Light colour	ı White	20
Required components		45 30
		20
Protective pla	ate, glass	400
		450



UMILEC	DS	90° - 900
LED	LUXEON HL2Z	
FWHM / FWTM	142.0° / 152.0°	739 100 75
Efficiency	95 %	
Peak intensity	0.5 cd/lm	200 65
LEDs/each optic	1	$\bigvee \times / \setminus \times \setminus$
Light colour	White	45* 300 45
Required components:		
		400
		540
		30* as at 3
	S	
LED	LUXEON MZ	907
FWHM / FWTM	146.0° / 157.0°	25° 5000 70
Efficiency	94 %	100
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	200
Light colour	White	51 5
Required components:		
····		X X
		400
		\times / \setminus \times
		30* 13 ⁵ 900 15* 30
)S	90*
LED	LUXEON Rebel ES	
FWHM / FWTM	146.0° / 158.0°	75% 100 78
Efficiency	95 %	
Peak intensity		
	0.4 cd/lm	60° 60
LEDs/each optic	0.4 cd/lm 1	.00*
		.ex [*]
LEDs/each optic	1	.er* 210 ef .et . 310 ef
LEDs/each optic Light colour	1	.eo*
LEDs/each optic Light colour	1	.ex [*] 200 60 107 200 60 109 60 100 60
LEDs/each optic Light colour	1	
LEDs/each optic Light colour Required components:	1 White	
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour Required components:	1 White	
LEDs/each optic Light colour Required components:	1 White	
LEDs/each optic Light colour Required components:	1 White DS LUXEON T 150.0° / 160.0° 96 %	
LEDs/each optic Light colour Required components:	1 White DS LUXEON T 150.0° / 160.0°	
LEDs/each optic Light colour Required components:	1 White DS LUXEON T 150.0° / 160.0° 96 %	
LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency Peak intensity	1 White S LUXEON T 150.0° / 160.0° 96 % 0.4 cd/m	
LEDs/each optic Light colour Required components: LUMILED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White S LUXEON T 150.0° / 160.0° 96 % 0.4 cd/lm 1	
LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White S LUXEON T 150.0° / 160.0° 96 % 0.4 cd/lm 1	
LEDs/each optic Light colour Required components: Control Control LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White S LUXEON T 150.0° / 160.0° 96 % 0.4 cd/lm 1	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX 150.0° / 161.0° 95 % 0.4 cd/lm 1 White	
	S	123 33 134
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX 150.0° / 160.0° 95 % 0.4 cd/lm 1 White	
		12, 960 12,
CUMILEC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 152.0° / 160.0° 96 % 0.4 cd/lm 1 White	
CUMILEC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON XR-HL2X (L2H2-xxxxxMLU010) 150.0° / 160.0° 76 % 0.3 cd/lm 1 White	



Μ ΝΙCΗΙΛ		INACAT
LED	NV4WB35AM	
FWHM / FWTM	150.0° / 160.0°	73° dan
Efficiency	96 %	
-	0.4 cd/lm	\$0 ⁴ 150
Peak intensity		200
LEDs/each optic	1	250
Light colour	White	45*
Required components:		
		400
		30° 450 15° 0° 15°
Μ ΝΙCΗΙΛ		
LED	NVSW219F	
FWHM / FWTM	Asymmetric	759
Efficiency	77 %	
Peak intensity	0.3 cd/lm	804 · · · · · · · · · · · · · · · · · · ·
LEDs/each optic	1	10
Light colour	White	~~~~~
Required components:	white	
rtequired components.		
Protective plate	e, glass	300
		30* <u>15</u> ⁵ 0 ⁶ 10 [*] 3
MNICHI		9°
LED	NVSW519A	50
FWHM / FWTM	154.0° / 163.0 + 162.0°	75%
Efficiency	93 %	
Peak intensity	0.4 cd/lm	50° 150
LEDs/each optic	1	20
Light colour	White	45 250
Required components:		300

		400
		20 ⁶ 450 13 ⁵ 0 ⁶ 15 ⁶
ΜΝΙCΗΙΛ		90*
LED	NVSW519A	
FWHM / FWTM	152.0° / 162.0°	231
Efficiency	77 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 200
		760
Required components:		20
Required components:		20



Г		
Μ ΝΙCΗΙΛ		
LED	NVSxx19B/NVSxx19C	90° 90°
ED FWHM / FWTM		20 Country Top
	Asymmetric	
Efficiency	92 %	50* 50*
Peak intensity	0.5 cd/lm	200
LEDs/each optic	1	$X \times I \times X$
Light colour	White	45* 300 45*
Required components:		
		400
		30* 30*
000444		
OSRAM		90* 90*
LED	PrevaLED Brick HP 2x8	
FWHM / FWTM	146.0° / 160.0°	
Efficiency	93 %	
Peak intensity	1.6 cd/lm	50 ⁴
LEDs/each optic	1	
Light colour	White	45* 30 45*
Required components:		
		400
		\times
		500
		30* <u>15</u> 0 ⁶ 15* <u>30</u> *
OSRAM		ITAY YATL
Opto Semiconductors		10 ²
Opto Semiconductors	OSCONIQ C 2424	50 50 50
opto Semiconductors LED FWHM / FWTM	146.0° / 160.0°	50 725 50 140
opto Semiconductors LED FWHM / FWTM Efficiency	146.0° / 160.0° 95 %	300 323 00 50 50 50 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	146.0° / 160.0° 95 % 0.3 cd/lm	
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	146.0° / 160.0° 95 % 0.3 cd/lm 4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	146.0° / 160.0° 95 % 0.3 cd/lm	
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	146.0° / 160.0° 95 % 0.3 cd/lm 4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	146.0° / 160.0° 95 % 0.3 cd/lm 4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	146.0° / 160.0° 95 % 0.3 cd/lm 4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	146.0° / 160.0° 95 % 0.3 cd/lm 4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 160.0° 95 % 0.3 cd/lm 4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 160.0° 95 % 0.3 cd/lm 4 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ODSRAM Opto Semiconductors LED	146.0° / 160.0° 95 % 0.3 cd/lm 4 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	146.0° / 160.0° 95 % 0.3 cd/lm 4 White OSCONIQ P 3030 148.0° / 162.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	146.0° / 160.0° 95 % 0.3 cd/lm 4 White OSCONIQ P 3030 148.0° / 162.0° 95 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 160.0° 95 % 0.3 cd/lm 4 White OSCONIQ P 3030 148.0° / 162.0° 95 % 0.4 cd/lm	
opto 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	146.0° / 160.0° 95 % 0.3 cd/lm 4 White OSCONIQ P 3030 148.0° / 162.0° 95 % 0.4 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 160.0° 95 % 0.3 cd/lm 4 White OSCONIQ P 3030 148.0° / 162.0° 95 % 0.4 cd/lm	
opto 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	146.0° / 160.0° 95 % 0.3 cd/lm 4 White OSCONIQ P 3030 148.0° / 162.0° 95 % 0.4 cd/lm 1	
opto Semiconductors LED 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	146.0° / 160.0° 95 % 0.3 cd/lm 4 White OSCONIQ P 3030 148.0° / 162.0° 95 % 0.4 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 160.0° 95 % 0.3 cd/lm 4 White OSCONIQ P 3030 148.0° / 162.0° 95 % 0.4 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 160.0° 95 % 0.3 cd/lm 4 White OSCONIQ P 3030 148.0° / 162.0° 95 % 0.4 cd/lm 1	



OSRAM		
Opto Semiconductors LED	OSCONIQ P 3737 (2W version)	90* 90*
FWHM / FWTM	144.0° / 158.0°	75° 75°
Efficiency	93 %	
-		504 504
Peak intensity	0.4 cd/lm	200
LEDs/each optic		
Light colour	White	45* 300 45*
Required components:		\times
		400
		\times
		30° 500 30° 30°
OSRAM		
Opto Semiconductors		90* 90*
LED FWHM / FWTM	OSCONIQ P 3737 (3W version)	50 73° 73°
Efficiency	148.0° / 164.0° 94 %	100
=		50 ⁴ 55 ⁴ 65 ⁴
Peak intensity	0.4 cd/lm	20
LEDs/each optic	1	20
Light colour	White	451
Required components:		
		40
		30° 450 30° 30°
OSRAM		
Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	730 50
FWHM / FWTM	Asymmetric	\sim
Efficiency	57 %	50* 50*
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 250 45*
Required components:		30
C17580_STRADA-2>	(2-SHD-WHT	30
Drotostivo plat		
Protective plate	, yidoo	30* (19- 0* 15* 30*
OSRAM		
Opto Semiconductors	OSI ON Square CSSBM2/CSSBM2	90* 90*
LED FWHM / FWTM	OSLON Square CSSRM2/CSSRM3 146.0° / 156.0°	730 50 750
Efficiency	140.0 / 130.0	- Altra
		100
	79 %	10
Peak intensity	79 % 0.3 cd/lm	00 ⁴ 200 604
Peak intensity LEDs/each optic	79 % 0.3 cd/lm 1	50 ⁴ 50 270
Peak intensity LEDs/each optic Light colour	79 % 0.3 cd/lm	50 50 60 m
Peak intensity LEDs/each optic	79 % 0.3 cd/lm 1	50 ⁴ 200 60×
Peak intensity LEDs/each optic Light colour Required components:	79 % 0.3 cd/lm 1 White	50 ⁴
Peak intensity LEDs/each optic Light colour	79 % 0.3 cd/lm 1 White	50 ⁴ 500 500
Peak intensity LEDs/each optic Light colour Required components:	79 % 0.3 cd/lm 1 White	50 ⁴ 500 500



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OSRAM		
Opto Semiconductors	OSI ON Savara EC	90* 90*
FWHM / FWTM	OSLON Square EC 144.0° / 156.0°	78
Efficiency	94 %	50° 60°.
Peak intensity	0.4 cd/lm	\times
LEDs/each optic	1	
Light colour	White	45°
Required components:		400
		\times / \top / \times
		500
		30* 13 ⁵ 0* 15* 30*
OSRAM		
Opto Semiconductors	OSLON SSL 150	90° 90°
FWHM / FWTM	152.0° / 160.0°	750 770
Efficiency	96 %	
Peak intensity	0.4 cd/im	60* 60*
LEDs/each optic	1	
Light colour	' White	
Required components:	White	45* 300 45*
		400
		30° 30° 30°
OSRAM		20 ² 10 ² 0 ² 10 ² 20 ²
OSRAM Opto Semiconductors	OSI ON SSI 80	80* <u>35</u> , <u>0</u> , <u>15</u> , <u>30</u> ,
LED	OSLON SSL 80	90* 12 ³ 0 ⁴ 13 ⁵ 30 ⁴
LED FWHM / FWTM	138.0° / 164.0°	20 ⁴ 12 ¹ 0 ⁴ 13 ⁴ 30 ⁴
LED FWHM / FWTM Efficiency	138.0° / 164.0° 95 %	2 2 4 4 12 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
LED FWHM / FWTM Efficiency Peak intensity	138.0° / 164.0° 95 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	138.0° / 164.0° 95 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	138.0° / 164.0° 95 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	138.0° / 164.0° 95 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	138.0° / 164.0° 95 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	138.0° / 164.0° 95 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	138.0° / 164.0° 95 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	138.0° / 164.0° 95 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	138.0° / 164.0° 95 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Optio Semiconductors LED	138.0° / 164.0° 95 % 0.3 cd/lm 1 White SFH 4714A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	138.0° / 164.0° 95 % 0.3 cd/lm 1 White SFH 4714A Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OBSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	138.0° / 164.0° 95 % 0.3 cd/lm 1 White SFH 4714A Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	138.0° / 164.0° 95 % 0.3 cd/lm 1 White SFH 4714A Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	138.0° / 164.0° 95 % 0.3 cd/lm 1 White SFH 4714A Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	138.0° / 164.0° 95 % 0.3 cd/lm 1 White SFH 4714A Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	138.0° / 164.0° 95 % 0.3 cd/lm 1 White SFH 4714A Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	138.0° / 164.0° 95 % 0.3 cd/lm 1 White SFH 4714A Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	138.0° / 164.0° 95 % 0.3 cd/lm 1 White SFH 4714A Asymmetric 94 % 0.6 cd/lm 1	



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OSRAM		
Opto Semiconductors	SFH 4714A	190° - 90° -
FWHM / FWTM	148.0° / 156.0°	75° 100 75°
Efficiency	96 %	
-	90 % 0.6 cd/lm	50 200 60*
Peak intensity		
LEDs/each optic	1	
Light colour	White	400 45+
Required components:		
		× 7 ***
		600
		30° 13 ⁵ 0° 10° 30°
PHILIPS		90* 90*
LED	Fortimo FastFlex LED 2x8 DA G4+	
FWHM / FWTM	Asymmetric	50 75°
Efficiency	43 %	
Peak intensity	0.2 cd/lm	
LEDs/each optic	1	X X X
Light colour	White	45* 45
Required components:		200
C17677_STRADA-2>	2-SHD-BLK	
Protective plate	a, glass	30* 300 0* 30°
PHILIPS		THY YHT
LED	, Fortimo FastFlex LED 2x8 DA G4+	90* 90*
ED FWHM / FWTM		75° 50 75°
Efficiency	Asymmetric 50 %	
-		60* 60*
Peak intensity LEDs/each optic	0.3 cd/lm 1	
Light colour	White	200
Required components:	Wille	45* 250 45*
C17677_STRADA-2>		
CTTOTT_STRADA-27	2-SIID-BER	300
		30 30 10 ⁻ 00 10 ⁻ 00
		20° 20° 30°
PHILIPS		20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED	Fortimo FastFlex LED 2x8 DA HE	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA HE 148.0° / 162.0 + 160.0°	90°
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA HE 148.0° / 162.0 + 160.0° 97 %	90° 90°
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA HE 148.0° / 162.0 + 160.0° 97 % 0.3 cd/lm	90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA HE 148.0° / 162.0 + 160.0° 97 % 0.3 cd/lm 1	12 ³ eb 17 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA HE 148.0° / 162.0 + 160.0° 97 % 0.3 cd/lm	90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA HE 148.0° / 162.0 + 160.0° 97 % 0.3 cd/lm 1	12 ³ eb 17 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA HE 148.0° / 162.0 + 160.0° 97 % 0.3 cd/lm 1	12 ³ 00 17 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA HE 148.0° / 162.0 + 160.0° 97 % 0.3 cd/lm 1	12 ³ 00 17 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA HE 148.0° / 162.0 + 160.0° 97 % 0.3 cd/lm 1	12 ³ 00 17 ⁴



		n <u>~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~</u>
PHILIPS		90* 90
LED	Fortimo FastFlex LED 2x8 DA HE	
FWHM / FWTM	144.0° / 158.0°	750 70
Efficiency	79 %	
Peak intensity	0.3 cd/lm	60*
LEDs/each optic	1	150
Light colour	White	45° 200 4
Required components:		20
Protective plate	e, glass	340
		30° 350 15° 30
PHILIPS		90*
LED	Fortimo FastFlex LED 2x8 DAX G4	
FWHM / FWTM	154.0° / 165.0°	739
Efficiency	94 %	
Peak intensity	0.4 cd/lm	eo* 150 60
LEDs/each optic	1	20
Light colour	White	457 - 250 - 457
Required components:		× + **
		30
		X + + X
		40
		30° 15 ³ 0° 15° 30'
SAMSUN	IG	
LED	HILOM RH12 Z (LH351C)	
FWHM / FWTM	Asymmetric	736 50 75
Efficiency	79 %	100
Peak intensity	0.3 cd/lm	60 ⁴ 150 60
LEDs/each optic		
	1	$X \times / T \setminus X \times$
Light colour	1 White	200
Light colour Required components:	1 White	6° 20 6
Light colour Required components:		6 ⁻ 20 - 20 - 20
-	White	6°
Required components:	White	20
Required components: Protective plate	White e, glass	20
Required components: Protective plate SAMSUN	White e, glass	20
Required components: Protective plate SAMSUN LED	White e, glass I G LH351B	20 30 30 30 30 30 30 30 30 30 3
Required components: Protective plate SAMSUN LED FWHM / FWTM	White e, glass I G LH351B Asymmetric	
Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency	White e, glass I G LH351B Asymmetric 78 %	29 29 29 29 29 29 29 29 29 29 29 29 29 2
Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity	White e, glass I G LH351B Asymmetric 78 % 0.3 cd/lm	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White e, glass I G LH351B Asymmetric 78 % 0.3 cd/lm 1	29 29 29 29 29 29 29 29 29 29 29 29 29 2
Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White e, glass I G LH351B Asymmetric 78 % 0.3 cd/lm	
Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White e, glass I G LH351B Asymmetric 78 % 0.3 cd/lm 1	
Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	White a, glass I G LH351B Asymmetric 78 % 0.3 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White a, glass I G LH351B Asymmetric 78 % 0.3 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20 20 20 20 2



SAMSU	NG	9*
LED	LH351C	
FWHM / FWTM	Asymmetric	750 50 7
Efficiency	79 %	100
Peak intensity	0.3 cd/lm	50 <u>150</u> 6
LEDs/each optic	1	
Light colour	White	457
Required components		20
Protective pla	te, glass	30
		30 ⁴ 15 ⁵ 0 ⁶ 15 ⁴ 3
SAMSU	NG	90°
LED	LH502C	
FWHM / FWTM	146.0° / 160.0°	750 - 7
Efficiency	97 %	
Peak intensity	0.3 cd/lm	60* 150 6
LEDs/each optic	1	200
Light colour	White	
Required components		290
		30
		× ×
		30° 15 ⁵ 0° 15° 3
SAMSU	NG	90*
LED	LH502C	
FWHM / FWTM	144.0° / 156.0°	750 7
Efficiency	80 %	
Peak intensity	0.3 cd/lm	60°
LEDs/each optic	1	150
Light colour	White	45* 200 4
Required components		
Protective pla	te, glass	
		30* <u>350</u> 13 ⁵ 0 ⁶ 15* 5
SAMSI	NG	12 ⁵ 0 ⁶ 1 ⁵
SAMSU		90- 220- 20- 20- 20- 20- 20- 20- 20- 20-
LED	LH502D	12 ⁵ 0 ⁶ 13 ⁵
LED FWHM / FWTM	LH502D 145.0 + 144.0° / 158.0°	12 ⁵ 0 ⁶ 13 ⁵
LED FWHM / FWTM Efficiency	LH502D 145.0 + 144.0° / 158.0° 79 %	12 ⁵ 0 ⁶ 13 ⁵
LED FWHM / FWTM Efficiency Peak intensity	LH502D 145.0 + 144.0° / 158.0° 79 % 0.3 cd/lm	12 ⁵ 0 ⁶ 1 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH502D 145.0 + 144.0° / 158.0° 79 % 0.3 cd/lm 1	25 ² 6 ² 35 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502D 145.0 + 144.0° / 158.0° 79 % 0.3 cd/lm 1 White	12 ⁵ 0 ⁶ 13 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH502D 145.0 + 144.0° / 158.0° 79 % 0.3 cd/lm 1 White	25 ² 6 ² 15 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502D 145.0 + 144.0° / 158.0° 79 % 0.3 cd/lm 1 White	25 ² 6 ² 15 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LH502D 145.0 + 144.0° / 158.0° 79 % 0.3 cd/lm 1 White	25 ² 6 ² 15 ²



SAMSUN	IG	90* TAY TAY
LED	LH502D	
FWHM / FWTM	148.0° / 162.0 + 160.0°	75°
Efficiency	97 %	
Peak intensity	0.3 cd/lm	50 150
LEDs/each optic	1	
Light colour	White	45"
Required components:		20
		X X X
		X + m
		304 400
SEOUL		12 ⁰ 0 ⁰ 12 ⁰
SEOUL SEMICONDUCTOR		90*
LED	MJT 5050	50
FWHM / FWTM	Asymmetric	730
Efficiency	96 %	50°
Peak intensity	0.3 cd/lm	10
LEDs/each optic	1	200
Light colour	White	45'
Required components:		
		30
		X X so X
		30° 400 13°
SEOUL		
SEOUL SEMICONDUCTOR		90*
LED	SEOUL DC 3030C	
FWHM / FWTM	148.0° / 160.0°	100
Efficiency	95 %	50 ⁴
Peak intensity	0.4 cd/lm	20
LEDs/each optic	1	
Light colour	White	45° 300
Required components:		\times / \times
		400
		\times / \land \rightarrow
		30* 15 ⁵ 560 15*
SEOUL		THAY YARTI
		99*
	SEOUL DC 5050 6V 148.0° / 161.0°	750 50
FWHM / FWTM	148.0° / 161.0° 96 %	100
Efficiency	96 % 0.3 cd/lm	60° 150
Peak intensity LEDs/each optic	0.3 cd/lm 1	$I \times \times / T \setminus \times \times$
LEDs/each optic	1 White	
Required components:	WING	45* 250
required components:		**
		750



SEOUL SEOUL SEMICONDUCTOR		814 814
LED	Z5	
FWHM / FWTM	147.0° / 160.0°	70'
Efficiency	95 %	
Peak intensity	0.4 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	er er
Required component	S:	20
		40
		30* 30*
		20° <u>9%</u> 125°



PRODUCT DATASHEET C14680_STRADA-2X2-VSM

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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