

STRADA-IP-2X6-VSM

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

SPECIFICATION:

Dimensions	173.0 x 71.4 mm
Height	8 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈

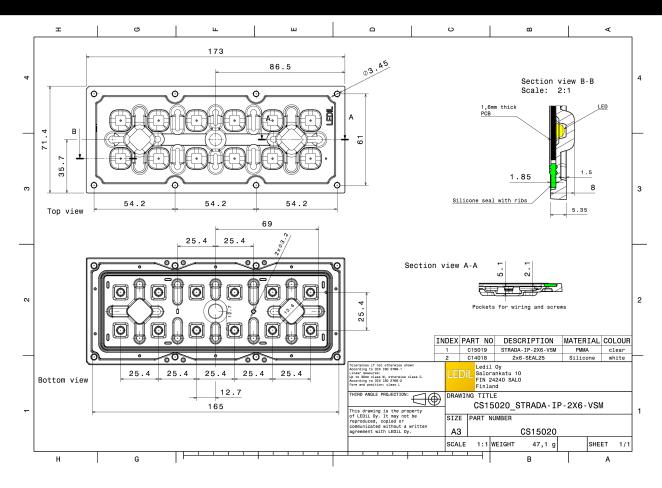


MATERIALS:

Component	Туре	Material	Colour	Finish
STRADA-IP-2X6-VSM	Multi-lens	PMMA	clear	
2X6-SEAL25	Seal	Silicone	white	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15020_STRADA-IP-2X6-VSM	Multi-lens	120	40	40	6.6
» Box size: 476 x 273 x 247 mm					



R

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 componen	Bridgelux SMD 5050 136.0° / 146.0° 94 % 0.4 cd/lm 1 White nts:	50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	QUICK FLUX 2x6 LED XG xxx G7+ Asymmetric 94 % 0.5 cd/lm 1 White nts:	50° 700 700 700 700 700 700 700 700 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componei	QUICK FLUX 2x6 LED XT xxx G5 136.0° / 149.0° 94 % 0.5 cd/lm 1 White nts:	200 30 ³ 30 ³ 30 ³ 40 ³ 50 ³
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G2 140.0° / 146.0° % 0.6 cd/lm 1 White	
		50°



		90* 90*
LED	XP-L HD	
FWHM / FWTM	145.0° / 154.0°	75* 77*
Efficiency	94 %	
Peak intensity	0.4 cd/lm	ear ear
LEDs/each optic	1	20
Light colour	White	
Required componer		
		\times / \times
		400
		\times / \times
		30° 132 0° 10° 30°
		90*
LED	XP-L2	
FWHM / FWTM	142.0° / 159.0°	75'
Efficiency	94 %	300
Peak intensity	0.4 cd/lm	60° 60*
LEDs/each optic	1	20
Light colour	White	45"
Required componer		300
		400
		\times / T / λ
		30° 13 ⁵ 0° 13°
		90* 90*
LED	XT-E	
FWHM / FWTM	142.0° / 158.0°	75* 100 75*
Efficiency	94 %	
Peak intensity		60°
	0.5 cd/lm	200
LEDs/each optic	0.5 cd/lm 1	20
LEDs/each optic	1 White	
LEDs/each optic Light colour	1 White	20 67 90 67
LEDs/each optic Light colour	1 White	50 90 90 90
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour Required componer	1 White ts:	299 409 500 157 60 137 300 60 ² 137 30 ²
LEDs/each optic Light colour	1 White ts:	200 200 200 200 200 200 200 200
LEDs/each optic Light colour Required componen	1 White ts:	20 20 20 20 20 20 20 20 20 20
LEDS/each optic Light colour Required componen CREE LED	1 White ts: XT-E HE	20 20 40 40 40 40 40 40 40 40 40 4
LEDS/each optic Light colour Required componen CREE (LED EWHM / FWTM	1 White ts: XT-E HE 132.0° / 145.0°	90°
LEDS/each optic Light colour Required componen CREE LED LED FWHM / FWTM Efficiency	1 White ts: XT-E HE 132.0° / 145.0° 94 %	90°
LEDs/each optic Light colour Required componen CREE LED FWHM / FWTM Efficiency Peak intensity	1 White ts: XT-E HE 132.0° / 145.0°	90° 90'
LEDs/each optic Light colour Required component CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White ts: XT-E HE 132.0° / 145.0° 94 % 0.5 cd/lm 1	90° 90'
LEDs/each optic Light colour Required component CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ts: XT-E HE 132.0° / 145.0° 94 % 0.5 cd/lm 1 White	20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required component CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White ts: XT-E HE 132.0° / 145.0° 94 % 0.5 cd/lm 1 White	20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required component CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ts: XT-E HE 132.0° / 145.0° 94 % 0.5 cd/lm 1 White	20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required component CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ts: XT-E HE 132.0° / 145.0° 94 % 0.5 cd/lm 1 White	20 20 20 20 20 20 20 20



UMIL	EDS	
LED	LUXEON T	90* 90*
FWHM / FWTM	137.0° / 142.0°	750 100 750
Efficiency	94%	
Peak intensity	0.5 cd/lm	504 200 504
LEDs/each optic	1	× / 30
Light colour	White	6°
Required componer	15.	400
		500
		\times
		30° 15 ⁵ 600 30° 30°
UMIL		90* 90*
LED	LUXEON V	
FWHM / FWTM	139.0° / 149.0°	100
Efficiency	94 %	504 S 04
Peak intensity	0.4 cd/lm	20
LEDs/each optic	1	\times
Light colour	White	45* 45*
Required componer	ts:	
		400
		30* 30*
	EDS	
		904 904
	LUXEON V2	75*
FWHM / FWTM	136.0° / 144.0° 94 %	
Efficiency Peak intensity	0.5 cd/lm	50* 200 60*
LEDs/each optic	1	
Light colour	White	45* 3%
Required componer		
Required componer		400
		200
		20° 20 20°
	EDS	30° 30° 30° 30°
		<u>50*</u> <u>30*</u> <u>30*</u> <u>30*</u> <u>30*</u> <u>30*</u> <u>30*</u> <u>30*</u> <u>30*</u>
LED	LUXEON XR-TX (L2T0-xxxx012M0000)	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM	LUXEON XR-TX (L2T0-xxxx012M0000) 137.0° / 145.0°	122 - 120 - 127 -
LED FWHM / FWTM Efficiency	LUXEON XR-TX (L2T0-xxxx012M0000) 137.0° / 145.0° 94 %	50 30 ¹ 30 ² 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity	LUXEON XR-TX (L2T0-xxxx012M0000) 137.0° / 145.0° 94 % 0.5 cd/lm	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-TX (L2T0-xxxx012M0000) 137.0° / 145.0° 94 % 0.5 cd/lm 1	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxxx012M0000) 137.0° / 145.0° 94 % 0.5 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-TX (L2T0-xxxx012M0000) 137.0° / 145.0° 94 % 0.5 cd/lm 1 White	40 40 40 40 40 40 40 40 40 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxxx012M0000) 137.0° / 145.0° 94 % 0.5 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxxx012M0000) 137.0° / 145.0° 94 % 0.5 cd/lm 1 White	



6-		
	NUS	90* 90*
LED	SST-10-B130	
FWHM / FWTM	138.0° / 146.0°	755 100 755
Efficiency	96 %	
Peak intensity	0.5 cd/lm	50° 200 50°
LEDs/each optic	1	
Light colour	Deep Red	45* 45*
Required compone	nts:	400
		\times
		30* 30*
MST Your solut	nns	13 ⁵ <u>6</u> % 15 ⁴
		90* 90*
LED	RecLED 146x45mm 2900lm 730 2x6 IP G1	255
FWHM / FWTM	Asymmetric	100
Efficiency	97 %	504 200 504
Peak intensity	0.5 cd/lm	X/TXX
LEDs/each optic		X X
Light colour	White	·6·
Required compone	its:	400
		200
		30° 13° 30°
	(
LED	NVSW219D	
FWHM / FWTM	141.0° / 150.0°	750 100 78
Efficiency	94 %	
Peak intensity	0.5 cd/lm	50* 20 50'
LEDs/each optic	1	
Light colour	White	45* 300 45
Required compone	nts:	
		400
		300 300
Mauguna		
		90* 90
LED	NVSW219F	
FWHM / FWTM	141.0° / 147.0°	23*73
Efficiency	94 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	-C*
Required compone	nts:	40
		$X / T \setminus X$
		30° 30°
		15 ⁵ 0 ⁶ 15 ⁶



ØNICHI		90* 90*
LED	NVSW319B	
FWHM / FWTM	145.0° / 153.0°	75° 100 7°
Efficiency	94 %	
Peak intensity	0.5 cd/lm	.60 ⁴ 200 60 ⁴
LEDs/each optic	1	
Light colour	White	
Required componer		45" 45"
Required componen	113.	400
		\times \land \times
		500
		30° 15° 0° 15° 30°
ØNICHI		
		90* 90*
LED	NVSW3x9A	74
FWHM / FWTM	140.0° / 149.0°	300
Efficiency	94 %	50* 60*
Peak intensity	0.4 cd/lm	200
LEDs/each optic	1	
Light colour	White	45* 310 45*
Required componer	nts:	X X
		400
		30° 500 30°
		15 ³ 0 ⁸ 15 ⁹
MNICHI		90 ⁺ 90 ⁺
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	140.0° / 149.0°	.75'
FWHM / FWTM Efficiency		2 ³⁰ 100 75°
FWHM / FWTM Efficiency Peak intensity	140.0° / 149.0°	200 501 60 ⁴ 200 60 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	140.0° / 149.0° 94 %	2 ¹⁴ 200 6×
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	140.0° / 149.0° 94 % 0.5 cd/lm 1 White	5° 20 6°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	140.0° / 149.0° 94 % 0.5 cd/lm 1 White	53 ³ 50 ³
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	140.0° / 149.0° 94 % 0.5 cd/lm 1 White	101 101 101 101 101 101 101 101
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	140.0° / 149.0° 94 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	140.0° / 149.0° 94 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	140.0° / 149.0° 94 % 0.5 cd/lm 1 White nts:	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	140.0° / 149.0° 94 % 0.5 cd/lm 1 White nts:	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	140.0° / 149.0° 94 % 0.5 cd/lm 1 White nts:	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	140.0° / 149.0° 94 % 0.5 cd/lm 1 White nts:	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	140.0° / 149.0° 94 % 0.5 cd/lm 1 White hts: PrevaLED Brick HP IP 2x6	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen OSRAN LED FWHM / FWTM	140.0° / 149.0° 94 % 0.5 cd/lm 1 White hts: PrevaLED Brick HP IP 2x6 138.0° / 146.0°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen OSRAN LED FWHM / FWTM Efficiency	140.0° / 149.0° 94 % 0.5 cd/lm 1 White hts: PrevaLED Brick HP IP 2x6 138.0° / 146.0° 97 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Source of the second se	140.0° / 149.0° 94 % 0.5 cd/m 1 White hts: PrevaLED Brick HP IP 2x6 138.0° / 146.0° 97 % 0.5 cd/m	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Sequired component Efficiency Peak intensity LEDs/each optic	140.0° / 149.0° 94 % 0.5 cd/m 1 White hts: PrevaLED Brick HP IP 2x6 138.0° / 146.0° 97 % 0.5 cd/m 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Sequired component Pequired component COSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	140.0° / 149.0° 94 % 0.5 cd/m 1 White hts: PrevaLED Brick HP IP 2x6 138.0° / 146.0° 97 % 0.5 cd/m 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Sequired component Pequired component COSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	140.0° / 149.0° 94 % 0.5 cd/m 1 White hts: PrevaLED Brick HP IP 2x6 138.0° / 146.0° 97 % 0.5 cd/m 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component COSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	140.0° / 149.0° 94 % 0.5 cd/m 1 White hts: PrevaLED Brick HP IP 2x6 138.0° / 146.0° 97 % 0.5 cd/m 1 White	



-			
OSRAM Opto Semiconductors			90* 90*
LED	Duris S8		
FWHM / FWTM	137.0° / 148.0°		73° 5 75°
Efficiency	94 %		
Peak intensity	0.4 cd/lm		eor er
LEDs/each optic	1		200
Light colour	White	and the second se	6°
Required compone	nts:		30
			\times / \setminus \times
			400
			30°
DILLIE			132, 06 132.
PHILIF	' 5		90* 90*
LED	Fortimo FastFlex LED 2x6 DP G4		
FWHM / FWTM	140.0° / 146.0°		73°
Efficiency	94 %		
Peak intensity	0.6 cd/lm		\wedge \times $/$ \wedge $/$
LEDs/each optic	1		X
Light colour	White		er
Required compone	nts:		400
			500
			30° 17° 0° 17° 30°
PHILIF			
			90* 90*
LED	Fortimo FastFlex LED 2x6 DP G5		75* 75*
FWHM / FWTM	139.0° / 148.0°		
Efficiency	97 % 0.5 cd/lm		60° 200 60*
Peak intensity LEDs/each optic	0.5 ca/im 1		
Light colour	White		45* 200
Required compone			(a)
			400
			500
			\times / \top / \times
			30° 13 ⁵ 6 ⁶ 0 15° 30°
PHILIF	PS		90* 90*
LED	Fortimo FastFlex LED 2x6 DP HE		
FWHM / FWTM	138.0° / 150.0°		78°
Efficiency	98 %		-100
Peak intensity	0.4 cd/lm		60° () 60°
LEDs/each optic	1		200
Light colour	White		45* 45*
Required compone	nts:		\times
			300
			\times / \land \times
			30° 400 30°
1			15° 0° 15°



SAMSU		90*
LED	HiLOM RM12 ZP (LH502C)	90° 90°
FWHM / FWTM	138.0° / 150.0°	732 753
Efficiency	98 %	100
	0.4 cd/lm	60° 60°
Peak intensity		
LEDs/each optic	1	200
Light colour	White	45.
Required componer	its:	
		\times
		30° 400 30° 30°
SCIO	LUX	90* 90*
LED	BALAM-VP-5250-750-36	
FWHM / FWTM	134.0° / 147.0°	75°
Efficiency	97 %	
Peak intensity	0.4 cd/lm	50° 0 60°
LEDs/each optic	1	200
Light colour	White	45* 45*
Required componer	its:	300
		40
		30° 15 ⁵ 0° 15° 30°
SCIO	LUX	
SCIO		99°
LED	ROY-S26XPL2 (XP-L2)	23
LED FWHM / FWTM	ROY-S26XPL2 (XP-L2) 141.0° / 158.0°	50° 50° 50°
LED FWHM / FWTM Efficiency	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm	90* 90* 75° 50° 75° 65° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1	90* 72* 04* 200 00* 00* 00* 00* 00* 00* 00* 00* 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White	40°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White	99* 75* 60* 60* 60* 60* 60* 60* 60* 60* 60* 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White	90* 90* 90* 90* 90* 60* 60* 60* 60* 60* 60* 60* 60* 60* 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White tts: LUX	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White Its: LUX XLE-S22C4XTEHE (XT-E HE)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White tts: LUX XLE-S22C4XTEHE (XT-E HE) 132.0° / 145.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White tts: LUX XLE-S22C4XTEHE (XT-E HE) 132.0° / 145.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White tts:	20° 0° 22° 20° 0° 22° 20° 0° 20° 20° 0° 0° 20° 0° 0° 0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	ROY-S26XPL2 (XP-L2) 141.0° / 158.0° 94 % 0.4 cd/lm 1 White tts:	



SCIO			FT
	XLE-S26XHP35 (XHP35 HD)	90*	90*
LED FWHM / FWTM	148.0° / 160.0°	351	75.
		300	
Efficiency	94 %	404	60*
Peak intensity	0.4 cd/lm	200	
LEDs/each optic	1		
Light colour	White	45*	45*
Required compone	its:		
		400	
		30*	30*
SEOUL		4320*	131
SEOUL SEMICONDUCTOR		90*	90*
LED	2x6 5050 module - SMJD-3625012F-XX		
FWHM / FWTM	135.0° / 146.0°	75	75.
Efficiency	94 %		
Peak intensity	0.4 cd/lm	50*	are and
LEDs/each optic	1	200	
Light colour	White	-5"	61
Required compone	its:		
		× 1	
		400	
_		(30* 15 [°] 0 [°]	15° 30°
SEOUL			Y I
SEOUL SEMICONDUCTOR	SM IO D26W/12My	81	90*
seoul semiconductor	SMJQ-D36W12Mx	<u>8</u> *	50*
seoul semiconductor LED FWHM / FWTM	131.0° / 141.0°	9° 70	50"
seoul semiconductor LED FWHM / FWTM Efficiency	131.0° / 141.0° 94 %	9× 73× 6×	9°
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity	131.0° / 141.0° 94 % 0.5 cd/lm	91 79 80 80	99°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	131.0° / 141.0° 94 % 0.5 cd/lm 1	9° 70 60 200	50°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	131.0° / 141.0° 94 % 0.5 cd/lm 1 White	91 - 200 200 40 - 200	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	131.0° / 141.0° 94 % 0.5 cd/lm 1 White	9° 70 6° 0° 70 70 70 70 70	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	131.0° / 141.0° 94 % 0.5 cd/lm 1 White	9° 30 6° 90 40 40	25* 72* 6.*
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	131.0° / 141.0° 94 % 0.5 cd/lm 1 White	9° 	25* 75* 6.*
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	131.0° / 141.0° 94 % 0.5 cd/lm 1 White	51°	50°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	131.0° / 141.0° 94 % 0.5 cd/lm 1 White		29- 72- 6.4
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR	131.0° / 141.0° 94 % 0.5 cd/lm 1 White nts:		50°
stour stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stour stanconductor LED	131.0° / 141.0° 94 % 0.5 cd/lm 1 White hts:		59 75 6.0 10 10 10 10 10 10 10 10 10 10 10 10 10
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM	131.0° / 141.0° 94 % 0.5 cd/lm 1 White hts: SMJQ-D36W12Px 137.0° / 146.0°		25°
seoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componed seoul semiconbuctor LED FWHM / FWTM Efficiency	131.0° / 141.0° 94 % 0.5 cd/lm 1 White hts: SMJQ-D36W12Px 137.0° / 146.0° 94 %		50 50 50 50 60 50 50 50 50 50 50 50 50 50 50 50 50 50
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	131.0° / 141.0° 94 % 0.5 cd/lm 1 White tts: SMJQ-D36W12Px 137.0° / 146.0° 94 % 0.5 cd/lm		50°
seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	131.0° / 141.0° 94 % 0.5 cd/lm 1 White tts: SMJQ-D36W12Px 137.0° / 146.0° 94 % 0.5 cd/lm 1		50°
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	131.0° / 141.0° 94 % 0.5 cd/lm 1 White tts: SMJQ-D36W12Px 137.0° / 146.0° 94 % 0.5 cd/lm 1 White		59 75 75 75 75 75 75 75 75 75 75 75 75 75
stour stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stour stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	131.0° / 141.0° 94 % 0.5 cd/lm 1 White tts: SMJQ-D36W12Px 137.0° / 146.0° 94 % 0.5 cd/lm 1 White		13° 30°
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	131.0° / 141.0° 94 % 0.5 cd/lm 1 White tts: SMJQ-D36W12Px 137.0° / 146.0° 94 % 0.5 cd/lm 1 White		
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	131.0° / 141.0° 94 % 0.5 cd/lm 1 White tts: SMJQ-D36W12Px 137.0° / 146.0° 94 % 0.5 cd/lm 1 White		
stour semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stour semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	131.0° / 141.0° 94 % 0.5 cd/lm 1 White tts: SMJQ-D36W12Px 137.0° / 146.0° 94 % 0.5 cd/lm 1 White		



SEOUL		
	75140	8° 8°
	Z5M3	20 N
FWHM / FWTM	141.0° / 154.0°	100
Efficiency	97 %	604 GM
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	67 300 67
Required compone	nts:	
		40
		30° 500 30° 30°
SEOUL		
SEOUL SEMICONDUCTOR		90 ⁴ 90 ⁴
LED	Z8Y22	
FWHM / FWTM	131.0° / 141.0°	
Efficiency	94 %	
Peak intensity	0.5 cd/lm	20
LEDs/each optic	1	
Light colour	White	67 30 67
Required compone	nts:	
		40
		\times / \times
		30° 10 30°
SEOUL		
SEOUL SEMICONDUCTOR		90° 90°
LED	Z8Y22P	75 75
FWHM / FWTM	137.0° / 146.0°	300
Efficiency	94 %	
Peak intensity	0.5 cd/lm	20
LEDs/each optic	1	
Light colour	White	187 - 300 - 68 ⁴
Required compone	nts:	\times
		40
		30° 30° 30° 30°
TRIDON		
		90 ¹ 90 ²
LED	RLE 2x6 3000lm HP EXC2 OTD	75
FWHM / FWTM	138.0° / 144.0°	
Efficiency	94 %	50 ⁴ 200 50%
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	× / 30
Light colour	White	61 61
Required compone	nts:	
		50
		500 500 500 500 500 500 500 500 500 500
		15' 0' 15'



		90*
LED	J Series 5050 Round LES	736
FWHM / FWTM	143.0° / 156.0°	300
Efficiency	94 %	50° 50°.
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 63*
Required components:		300
		40
		30* 30*
		13 ⁵ 0 ⁶ 15 [*]
		90*
LED	J Series 5050 Round LES	
FWHM / FWTM	141.0° / 153.0°	
Efficiency	95 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	20
Light colour	White	45* 45*
Required components:		30
		30*
		15 ⁵ 0 ⁶ 15 [*]
		22 ³ 0 ⁴ 12 ³
	J Series 5050 Square LES 30V	90°.
LED	J Series 5050 Square LES 30V 143.0° / 159.0°	
LED FWHM / FWTM	143.0° / 159.0°	20 00 00 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency	143.0° / 159.0° 90 %	
LED FWHM / FWTM Efficiency Peak intensity	143.0° / 159.0° 90 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	143.0° / 159.0° 90 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	143.0° / 159.0° 90 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	143.0° / 159.0° 90 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	143.0° / 159.0° 90 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	143.0° / 159.0° 90 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	143.0° / 159.0° 90 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	143.0° / 159.0° 90 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	143.0° / 159.0° 90 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	143.0° / 159.0° 90 % 0.3 cd/lm 1 White J Series 5050 Square LES 6V	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	143.0° / 159.0° 90 % 0.3 cd/lm 1 White J Series 5050 Square LES 6V 142.0° / 155.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	143.0° / 159.0° 90 % 0.3 cd/lm 1 White J Series 5050 Square LES 6V 142.0° / 155.0° 95 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	143.0° / 159.0° 90 % 0.3 cd/lm 1 White J Series 5050 Square LES 6V 142.0° / 155.0° 95 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	143.0° / 159.0° 90 % 0.3 cd/lm 1 White J Series 5050 Square LES 6V 142.0° / 155.0° 95 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED EU FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	143.0° / 159.0° 90 % 0.3 cd/lm 1 White J Series 5050 Square LES 6V 142.0° / 155.0° 95 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	143.0° / 159.0° 90 % 0.3 cd/lm 1 White J Series 5050 Square LES 6V 142.0° / 155.0° 95 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED EU FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	143.0° / 159.0° 90 % 0.3 cd/lm 1 White J Series 5050 Square LES 6V 142.0° / 155.0° 95 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED EU FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	143.0° / 159.0° 90 % 0.3 cd/lm 1 White J Series 5050 Square LES 6V 142.0° / 155.0° 95 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	143.0° / 159.0° 90 % 0.3 cd/lm 1 White J Series 5050 Square LES 6V 142.0° / 155.0° 95 % 0.3 cd/lm 1	



		THAT AT THE
		90* 90*
LED	XHP35 HD	
FWHM / FWTM	157.0° / 171.0°	T Common 7
Efficiency	93 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	200
Light colour	White	5° 30 5°
Required components:		
		XT*TX
		X 400 X
		30* <u>15</u> ³ <u>4%</u> 15* 30*
LED	XP-G2 HE	
FWHM / FWTM	150.0° / 161.0°	736 50 750
Efficiency	93 %	
-		60* 150 60*
Peak intensity	0.3 cd/lm	200
LEDs/each optic	1	250
Light colour	White	(5°
Required components:		
		400
		30° 450 30°
		10. 0. 10.
ODEE A MED		
		90° - 90°
LED	XP-G3	30 ²
LED FWHM / FWTM	146.0° / 167.0°	22° 20° 72
LED		
LED FWHM / FWTM	146.0° / 167.0°	
LED FWHM / FWTM Efficiency	146.0° / 167.0° 93 %	50°
LED FWHM / FWTM Efficiency Peak intensity	146.0° / 167.0° 93 % 0.4 cd/lm	50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	146.0° / 167.0° 93 % 0.4 cd/lm 1	50° 50° 72° 50° 200 65° 50° 200 65°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	146.0° / 167.0° 93 % 0.4 cd/lm 1	30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	146.0° / 167.0° 93 % 0.4 cd/lm 1	90* 90* 90* 90* 90* 90* 90* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	146.0° / 167.0° 93 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 167.0° 93 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 167.0° 93 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 167.0° 93 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 167.0° 93 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 167.0° 93 % 0.4 cd/lm 1 White S LUXEON 5050 Round LES 143.0° / 156.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 167.0° 93 % 0.4 cd/lm 1 White S LUXEON 5050 Round LES 143.0° / 156.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 167.0° 93 % 0.4 cd/lm 1 White V LUXEON 5050 Round LES 143.0° / 156.0° 92 % 0.3 cd/lm	12 ³ 22 ³ 13 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 167.0° 93 % 0.4 cd/lm 1 White VNite LUXEON 5050 Round LES 143.0° / 156.0° 92 % 0.3 cd/lm 1	12 ³ 58 13 ³ 13 ³ 10 15 ³ 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 167.0° 93 % 0.4 cd/lm 1 White V LUXEON 5050 Round LES 143.0° / 156.0° 92 % 0.3 cd/lm	10 ² 10 ² 10 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 167.0° 93 % 0.4 cd/lm 1 White VNite LUXEON 5050 Round LES 143.0° / 156.0° 92 % 0.3 cd/lm 1	200 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 167.0° 93 % 0.4 cd/lm 1 White VNite LUXEON 5050 Round LES 143.0° / 156.0° 92 % 0.3 cd/lm 1	200 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	146.0° / 167.0° 93 % 0.4 cd/lm 1 White VNite LUXEON 5050 Round LES 143.0° / 156.0° 92 % 0.3 cd/lm 1	200 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	146.0° / 167.0° 93 % 0.4 cd/lm 1 White VNite LUXEON 5050 Round LES 143.0° / 156.0° 92 % 0.3 cd/lm 1	12 ³ 200 12 ³



	S S	90* 90*
LED	LUXEON 5050 Round LES	50
FWHM / FWTM	139.0° / 152.0°	78*
Efficiency	82 %	50*
Peak intensity	0.3 cd/lm	150
LEDs/each optic		200
Light colour	White	45* 20 45*
Required components:		300
Protective plate	e, glass	30
		30 ⁺ 15 ⁵ 0 ⁺ 15 ⁺ 30 ⁺
	S	90* 99
LED	LUXEON C	
FWHM / FWTM	150.0° / 168.0°	
Efficiency	91 %	
Peak intensity	0.3 cd/lm	50° 150 50'
LEDs/each optic	4	200
Light colour	RGBW	49° 20 6°
Required components:		20
		400
		30* 15 ⁵ 40 15* 30*
ØNICHI Λ		
LED	NV4WB35AM	90* 90*
FWHM / FWTM	143.0° / 154.0°	75°75'
Efficiency	95 %	
Peak intensity	0.4 cd/lm	60 00
LEDs/each optic	1	200
Light colour	White	451 45
Required components:		300
		400
		30* 15 ³ 30* 30*
Μ ΝΙCΗΙΛ		90*
LED	NVSxE21A	
FWHM / FWTM	136.0° / 145.0°	75° 100 75
Efficiency	93 %	
Peak intensity	0.5 cd/lm	20 60
LEDs/each optic	1	XX
Light colour	White	45° 65
		400
Required components:		



000444		
OSRAM Opto Semiconductors		80*
LED	OSCONIQ P 3030	
FWHM / FWTM	141.0° / 154.0°	75°
Efficiency	95 %	
Peak intensity	0.4 cd/lm	50 ⁴ 200 60
LEDs/each optic	1	
Light colour	White	45" 300
Required components:	Wine	
required components.		400
		30* 15° 30*
OSRAM Opto Semiconductors		90 ⁺
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	Asymmetric	73°
Efficiency	94 %	
Peak intensity	0.4 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required components:		30
····		
		400
		30* <u>500</u> 30* 30*
OSRAM Opto Semiconductors		90* D 91*
LED	OSCONIQ P 3737 (3W version)	
FWHM/FWTM	Asymmetric	
FWHM / FWTM Efficiency	Asymmetric 94 %	
Efficiency	94 %	60 ⁴ 200 60 ⁴
Efficiency Peak intensity	94 % 0.4 cd/lm	
Efficiency Peak intensity LEDs/each optic	94 % 0.4 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm	67 <u>20</u> 67 <u>20</u> 67 <u>70</u> 71
Efficiency Peak intensity LEDs/each optic	94 % 0.4 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1	50°
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/lm 1 White OSLON Square CSSRM2/CSSRM3	
Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	94 % 0.4 cd/m 1 White OSLON Square CSSRM2/CSSRM3 142.0° / 156.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required components: OBSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	94 % 0.4 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 142.0° / 156.0° 91 %	000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 142.0° / 156.0° 91 % 0.4 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/m 1 White OSLON Square CSSRM2/CSSRM3 142.0° / 156.0° 91 % 0.4 cd/m 1	20 ⁴ 0 ² 12 ⁴
Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 142.0° / 156.0° 91 % 0.4 cd/lm	20 ⁴ 4 ² 32 ⁴
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/m 1 White OSLON Square CSSRM2/CSSRM3 142.0° / 156.0° 91 % 0.4 cd/m 1	20 ⁴ 4 ² 32 ⁴
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/m 1 White OSLON Square CSSRM2/CSSRM3 142.0° / 156.0° 91 % 0.4 cd/m 1	20 ⁴ 0 ² 12 ⁴
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/m 1 White OSLON Square CSSRM2/CSSRM3 142.0° / 156.0° 91 % 0.4 cd/m 1	



OSRAM		
Opto Semiconductors		90* 90*
FWHM / FWTM	OSLON Square CSSRM2/CSSRM3 143.0° / 155.0°	750 - 750
	94 %	
Efficiency Peak intensity	94 % 0.4 cd/lm	.50 ⁴ 60 ⁴ .
LEDs/each optic	1	200
Light colour	' White	
Required components:	Wille	45* 300 45*
Required components.		
		30° 30° 30° 30° 30°
OSRAM Opto Semiconductors		90* 95*
LED	OSLON SSL 150	
FWHM / FWTM	145.0° / 157.0°	736 100 75°
Efficiency	93 %	
Peak intensity	0.4 cd/lm	.60 ⁴ 200 60 ⁴
LEDs/each optic	1	
Light colour	White	45* 300 45*
Required components:		\times
		200
		30* 30*
		13, 0, 15,
PHILIPS		12 ² 0 ⁴ 13 ⁴
PHILIPS		90 ⁻ 92 ⁻
LED	Fortimo FastFlex LED 2x6 DPX G4	22
LED FWHM / FWTM	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0°	25 ² 0 ⁴ 15 ²
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 %	
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm	20° 12° 19° 19° 19° 19° 19° 19° 19° 19° 19° 19
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm	200 200 200 200 200 200 67 200 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1	200 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1 White	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1 White G LH351C Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1 White I LH351C Asymmetric 94 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1 White	
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	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1 White I LH351C Asymmetric 94 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1 White	
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	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1 White	
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	Fortimo FastFlex LED 2x6 DPX G4 144.0° / 158.0° 89 % 0.4 cd/lm 1 White	



SAMSUN	IG	
LED	LH351D	
FWHM / FWTM	156.0° / 164.0°	750
Efficiency	94 %	Completion S
Peak intensity	0.3 cd/lm	\$0 ⁴ 190
LEDs/each optic	1	200
Light colour	White	45" 220
Required components:		20
		X - 30
		30* 420
0.0.0.0.0.0	10	130 ⁰ 0 ⁰ 10 ⁰
SAMSUN	IG	90* 9
LED	LH502D	50
FWHM / FWTM	144.0 + 142.0° / 158.0 + 156.0°	750
Efficiency	95 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45'
Required components:		
		30
		30
		30* 400 3
SEOUL		13 ⁵ 0 ⁵ 13 ⁵
SEOUL SEMICONDUCTOR		90*
LED	Z5M1/Z5M2	
FWHM / FWTM	131.0° / 140.0°	730 100
Efficiency	92 %	60 ⁴ 200
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		40
		500
		30* <u>600</u> 0* 15 ⁵ 600
SEOUL		
	7514	90*
	Z5M4	75 John
FWHM / FWTM	138.0° / 150.0°	300
Efficiency	95 %	50°
	0.4 cd/lm	
Peak intensity		
Peak intensity LEDs/each optic	1	300
Peak intensity LEDs/each optic Light colour		57 30
Peak intensity LEDs/each optic	1	60 30
Peak intensity LEDs/each optic Light colour	1	6 ⁵
Peak intensity LEDs/each optic Light colour	1	5 ⁵ 30 00 50



GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc. 228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

Local sales and technical support www.ledil.com/ where_to_buy

Shipping locations Salo, Finland Hong Kong, China

Distribution Partners www.ledil.com/ where_to_buy