

PRODUCT DATASHEET CS15689_STRADA-IP-2X6-FW

STRADA-IP-2X6-FW

Beam with wide light distribution and good illuminance uniformity for residential street lighting and staggered pole setups

TECHNICAL SPECIFICATIONS:

Dimensions	173.0 x 71.4 mm
Height	12.4 mm
Fastening	pin, screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component
STRADA-IP-2X6-FW
2X6-SEAL25

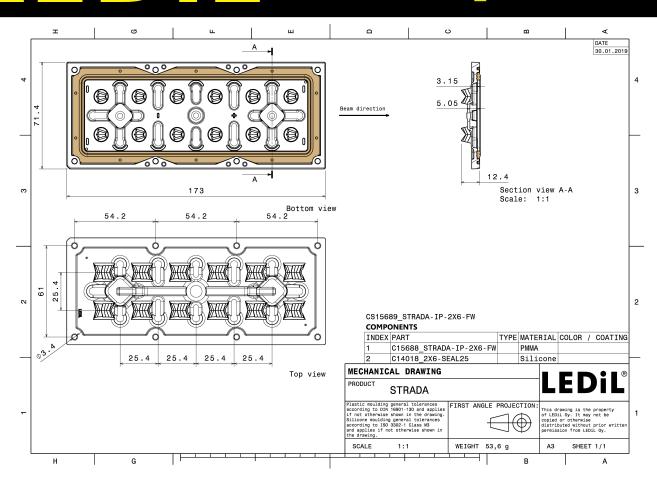
Туре	Mater
Multi-lens	PMMA
Seal	Silicon

Colour	Finish
clear	
white	
	clear

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15689_STRADA-IP-2X6-FW	Multi-lens	120	40	40	7.4
» Box size: 476 x 273 x 247 mm					

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



LED QUICK FLUX 2x6 LED XG xxx G7+ FWHM / FWTM Asymmetric Efficiency 92 %	141
LED QUICK FLUX 2x6 LED XG xxx G7+ FWHM / FWTM Asymmetric	
FWHM / FWTM Asymmetric	90*
	$\sim \lambda$
Peak intensity 0.7 cd/lm	eur
LEDs/each optic 1	
Light colour White	$\times \times$
Required components:	6°

20.° 500	15* 30*
8'	1-1
	90*
LED QUICK FLUX 2x6 LED XT xxx G5	75
FWHM / FWTM Asymmetric	
Efficiency 92 % Peak intensity 0.7 cd/lm	× 60°
	スマノ
LEDs/each optic 1	
Light colour White	65*
Required components:	
40	
	30*
1.30° 129° 40°	15.
	13.
	13"
LED XP-G2	10, 20,
CREE LED XP-G2 FWHM / FWTM Asymmetric	35'
IED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 %	13 ⁷
Image: CREE Image: LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm	15°
LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1	10"
IED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White	15°
LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1	15°
LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White	
Image: CREE I	10
Image: CREE I	
IED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components:	
Image: Creative field of the symmetric set of the symmetris set of the symmetric set of the symmetric se	
CREE LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components:	
CREE LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: Image: CREE CREE XP-L2 FWHM / FWTM Asymmetric	
CREE LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	
CREE LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	
CREE <ied< td=""> LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: # CREE # LED XP-L2 FWHM / FWTM Asymmetric Efficiency 91 % Peak intensity 0.5 cd/lm LEDs/each optic 1</ied<>	
CREE LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: # CREE LED LED XP-L2 FWHM / FWTM Asymmetric Efficiency 91 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	
CREE <ied< td=""> LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: # CREE # LED XP-L2 FWHM / FWTM Asymmetric Efficiency 91 % Peak intensity 0.5 cd/lm LEDs/each optic 1</ied<>	
CREE <ied< td=""> LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: # CREE LED LED XP-L2 FWHM / FWTM Asymmetric Efficiency 91 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White</ied<>	
CREE LED XP-G2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: # CREE LED LED XP-L2 FWHM / FWTM Asymmetric Efficiency 91 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	



		90* 90*
LED	XT-E HE	90° 90°
FWHM / FWTM	Asymmetric	734 734
Efficiency	92 %	100
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	200
Light colour	White	$X / T \land X$
Required componer		61. d)
	lo.	
		X X
		440
		30° 15° 30°
LUMIL	EDS	THA VHI
		90* 90*
	LUXEON V	750 50
FWHM / FWTM	Asymmetric	
Efficiency	88 %	60* 60*
Peak intensity	0.6 cd/lm	150
LEDs/each optic	1	200
Light colour	White	45*
Required componer	ts:	250
		X X X
		300
		30° 15° 0° 10° 30°
ØNICHIA		
		90* 90*
LED	NVSW219D	734
FWHM / FWTM	Asymmetric	
Efficiency	94 %	50* 60*
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	$X / T \land X$
Light colour	White	6°. 6°.
Required componer	15.	200
		\times
		400
		30° 15° 30° 15°
ØNICHIA		THAT AND
		90* 90*
	NVSW219F	75% 50 75%
FWHM / FWTM	Asymmetric	
Efficiency	93 %	504 504
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	$X \times \times X$
Light colour	White	45* 250 65*
Required componer	ts:	30
		40
		30* 30*
		15 ² #6 15 ²



ØNICHI		THY KHT
LED	NVSW319B	21 50 50 F
FWHM / FWTM	Asymmetric	200
Efficiency	93 % 0.7 cd/lm	601 601
Peak intensity		
LEDs/each optic Light colour	1 White	20
Required componer		45° 250 45°
Required component		30
		30° 460 30° 30°
ØNICHI	k	90* 90*
LED	NVSW519A	
FWHM / FWTM	Asymmetric	730 780
Efficiency	92 %	
Peak intensity	0.7 cd/lm	150
LEDs/each optic	1	20
Light colour	White	451
Required componer	nts:	270
		30
		30° 15° 66 15° 30°
		007 DOT
		80°
LED	NVSxx19B/NVSxx19C	21
LED FWHM / FWTM		50° 50°
	NVSxx19B/NVSxx19C Asymmetric	90°
LED FWHM / FWTM Efficiency	NVSxx19B/NVSxx19C Asymmetric 93 %	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm	90° 90° 73° 70° 70° 60° 70° 70° 70°
LED FWHM / FWTM Efficiency Peak intensity	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White	5° 5° 6° 5° 6° 6° 6° 6° 6° 6° 6° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White	50, 13, 0, 32, 20, 50, 70, 26, 40, 20, 26, 61, 20, 70, 20, 70,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SAMSU	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SAMSL LED FWHM / FWTM	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White Its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANSL LED FWHM / FWTM Efficiency	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANSU LED FWHM / FWTM Efficiency Peak intensity	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SALVE EQUIPTION SEC FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SALVA Equired component SALVA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANSE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SANSE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SANSE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxx19B/NVSxx19C Asymmetric 93 % 0.7 cd/lm 1 White nts:	



SAMSI	ING	
LED		90
ED FWHM / FWTM	HiLOM RM12 ZP (LH502C) Asymmetric	750 50 78
Efficiency	93 %	100
Peak intensity	0.4 cd/lm	604 60
LEDs/each optic	1	
Light colour	White	200 43 ⁺
Required compone	nts:	20
		300
		30° 15° 0° 15° 30'
SCIO	LUX	
LED	ROY-S26XPL2 (XP-L2)	
FWHM / FWTM	Asymmetric	730 50 750
Efficiency	91 %	
Peak intensity	0.5 cd/lm	150 BOY
LEDs/each optic	1	$X \times / T \setminus X \times$
Light colour	White	45° 200 65'
Required compone	nts:	20
		30° 30° 30° 30°
SCIO	IUX	
		90* 90*
LED	XLE-S22C4XTEHE (XT-E HE)	97 99 73 99
LED FWHM / FWTM	XLE-S22C4XTEHE (XT-E HE) Asymmetric	32 ⁴
LED FWHM / FWTM Efficiency	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 %	52 22 30 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity	XLE-S22C4XTEHE (XT-E HE) Asymmetric	50° 000 50° 000 60° 000 60° 000 60° 000 60° 000 60° 000
LED FWHM / FWTM Efficiency	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White nts: LUX XLE-S26XHP35 (XHP35 HD) Asymmetric 91 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 0.7 cd/lm 1 White nts:	



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SEOUL				\sim	1-1
			90*	1	
LED FWHM / FWTM	SMJQ-D36W12Mx		75*		
	Asymmetric 92 %			$\langle - \rangle$	
Efficiency Book intensity			50*		
Peak intensity	0.4 cd/lm				
LEDs/each optic Light colour	1 White				
Required compone			45*		
Required compone	ins.				300
			\rightarrow		
					400
			30*	150	o* 15*
SEOUL			1	~	
SEOUL SEMICONDUCTOR			90*		
LED	Z5M3				
FWHM / FWTM	Asymmetric		75*		
Efficiency	93 %		-80°		
Peak intensity	0.6 cd/lm				
LEDs/each optic	1				200
Light colour	White		45*		
Required compone	ents:				300
			\rightarrow		
					400
			30*	150	00 170
SEOUL				~	
SEUUL					
SEOUL SEMICONDUCTOR			90*		
seoul semiconductor	Z8Y22		90*	1	
seoul semiconductor LED FWHM / FWTM	Asymmetric		90* .75*		
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 92 %		98* 724		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.4 cd/lm		99* 75* 86*		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.4 cd/lm 1		90* .72* .60*		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.4 cd/lm 1 White		90" 72% 60"		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.4 cd/lm 1 White		90 73 40 40		20
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.4 cd/lm 1 White		99 23 40 40		20
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.4 cd/lm 1 White		90° 733 60°		20
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.4 cd/lm 1 White		99° 233 40° 40°		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 92 % 0.4 cd/lm 1 White ents:		92° 733 60° 60°		20
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 92 % 0.4 cd/lm 1 White ents:		92 33 40 40 40 40 40 40 40 40 40 40 40 40 40		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 92 % 0.4 cd/lm 1 White ents:		99 723 465 465 202		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 92 % 0.4 cd/lm 1 White ents: NICC RLE 2x6 3000Im HP EXC2 OTD Asymmetric		90 73 60 - 57 - 57 - 57 - 57 - 57 - 57 - 57 - 5		
seoul semiconductories LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer TRIDON LED FWHM / FWTM Efficiency	Asymmetric 92 % 0.4 cd/lm 1 White ents:		90° 233 60° 65° 50° 20° 20° 20°		
seoul semiconductori LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.4 cd/lm 1 White ents: SICC RLE 2x6 3000lm HP EXC2 OTD Asymmetric 93 % 0.7 cd/lm		90° 233 40° 40° 200 200 200 200 200 200 200 200 200 2		
seoul semiconductories LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.4 cd/lm 1 White ents: SICC RLE 2x6 3000lm HP EXC2 OTD Asymmetric 93 % 0.7 cd/lm 1		90° 233 40° 40° 40° 20° 20°		
seoul semiconductories LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.4 cd/lm 1 White ents: SICC RLE 2x6 3000lm HP EXC2 OTD Asymmetric 93 % 0.7 cd/lm 1 White		20 23 40 40 40 40 20 20 20 20 20 20 20 20 20 20 20 20 20		
seoul semiconductories LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.4 cd/lm 1 White ents: SICC RLE 2x6 3000lm HP EXC2 OTD Asymmetric 93 % 0.7 cd/lm 1 White		200		
seoul semiconductories LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.4 cd/lm 1 White ents: SICC RLE 2x6 3000lm HP EXC2 OTD Asymmetric 93 % 0.7 cd/lm 1 White		200		
seoul semiconductories LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.4 cd/lm 1 White ents: SICC RLE 2x6 3000lm HP EXC2 OTD Asymmetric 93 % 0.7 cd/lm 1 White		200		
stoul semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.4 cd/lm 1 White ents: SICC RLE 2x6 3000lm HP EXC2 OTD Asymmetric 93 % 0.7 cd/lm 1 White		200		



LED	XP-G2 HE	90* 90*
FWHM / FWTM	Asymmetric	70
Efficiency	90 %	
Peak intensity	0.9 cd/lm	.60 ⁴ 60 ⁴ .
LEDs/each optic	1	X
Light colour	White	
Required components:	White	
		20
		130° 350 350 30° 30° 30°
		90° 90°
LED	XP-G3	
FWHM / FWTM	Asymmetric	730 782
Efficiency	89 %	100
Peak intensity	0.8 cd/lm	50° 50°
LEDs/each optic	1	
Light colour	White	45"
Required components:		20
		300
		30*
1		152 02 153
		13 ³ <u>36</u> 13 ³
		10 ² <u>B²</u> 10 ⁴
LED	XP-L HD	25° B ₂ - 15°
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 90 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.7 cd/lm	13° <u>Bu</u> 13° 30° 30° 30° 50° 50° 50° 50° 50° 50° 50° 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.7 cd/lm 1	13 ² B ² 13 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.7 cd/lm	13 ² B ² 13 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.7 cd/lm 1	23° <u>Br</u> 29° 29° 29° 29° 29° 29° 29° 29° 29° 29°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.7 cd/lm 1 White S LUXEON 5050 Round LES	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.7 cd/lm 1 White S LUXEON 5050 Round LES Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.7 cd/lm 1 White S LUXEON 5050 Round LES Asymmetric 90 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.7 cd/lm 1 White S LUXEON 5050 Round LES Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Volume LUMILEC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.7 cd/lm 1 White S LUXEON 5050 Round LES Asymmetric 90 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.7 cd/lm 1 White UXEON 5050 Round LES Asymmetric 90 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.7 cd/lm 1 White UXEON 5050 Round LES Asymmetric 90 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.7 cd/lm 1 White UXEON 5050 Round LES Asymmetric 90 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.7 cd/lm 1 White UXEON 5050 Round LES Asymmetric 90 % 0.6 cd/lm 1	



COMILED	DS	901 901
LED	LUXEON 5050 Round LES	Ang and a second s
FWHM / FWTM	Asymmetric	730
Efficiency	90 %	
Peak intensity	0.6 cd/lm	150 607
LEDs/each optic	1	
Light colour	White	45* 200 45
Required components:		
		30* 10* 30*
	S	
LED	LUXEON 5050 Square LES	90 ⁻ 94 ⁺
FWHM / FWTM	Asymmetric	750 50
Efficiency	89 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45" 200 45"
Required components:		250
		300
		30* 15 ⁵ 0* 15 ⁶ 30*
ΜΝΙCΗΙΛ		90° 90°
LED	NV4WB35AM	2
FWHM / FWTM	Asymmetric	75°
Efficiency		
LINGICIUS	90 %	
Peak intensity	90 % 0.6 cd/lm	60 ⁴ 200
		6 ¹⁴ 270
Peak intensity	0.6 cd/lm	60° 00° 00°
Peak intensity LEDs/each optic	0.6 cd/lm 1	60 ⁻ 200 60 ⁻
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1	6 ¹ 20 67
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1	67 <u>30</u> 67
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1	50° 300 60°
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/m 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/m 1 White NVSxE21A Asymmetric	
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/m 1 White NVSxE21A Asymmetric 90 %	
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NVSxE21A Asymmetric 90 % 1 cd/lm	300
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NVSxE21A Asymmetric 90 % 1 cd/lm 1	20 20 20 20 20 20 20 20 20 20
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NVSxE21A Asymmetric 90 % 1 cd/lm	
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NVSxE21A Asymmetric 90 % 1 cd/lm 1	20 20 20 20 20 20 20 20 20 20
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NVSxE21A Asymmetric 90 % 1 cd/lm 1	200 200 200 200 200 200 200 200
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NVSxE21A Asymmetric 90 % 1 cd/lm 1	50°



OSRAM		THYPEFT
LED	PrevaLED Brick HP IP 2x6	90* 90*
ED FWHM / FWTM		754 752
Efficiency	Asymmetric 91 %	
Peak intensity	1 cd/lm	50* 150 50*
	1	
LEDs/each optic Light colour	ı White	
Required components:	White	er <u>20</u> er
Required components.		***
		X
		400
		30* <u>15</u> ⁵ 465 <u>15</u> * 30*
OSRAM Opto Semiconductors		T NY YATI
		90* 90*
LED	Duris S8	75% 50 75%
FWHM / FWTM	Asymmetric	
Efficiency	89 %	604 500 604 604
Peak intensity	0.6 cd/lm	X / - 10
LEDs/each optic	1	200
Light colour	White	6° 6°
Required components:		20 20
		300
		30° 15° 0° 15° 30°
OSRAM		
Opto Semiconductors		90* 90*
Opto Semiconductors	OSCONIQ P 3737 (3W version)	21
opto Semiconductors LED FWHM / FWTM	Asymmetric	90° 90° 73° 70°
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 90 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.7 cd/lm	9° 9° 13' 10' 10' 10' 0° 10' 10' 10'
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.7 cd/lm 1	20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.7 cd/lm	9° 75° 6° 4° 10 10 10 10 10 10 10 10 10 10 10 10 10
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.7 cd/lm 1	20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.7 cd/lm 1	20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.7 cd/lm 1	20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.7 cd/lm 1	20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.7 cd/lm 1	20 45° 259 300 250 300 300 300 300 300 300 300 300 300 3
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.7 cd/lm 1 White	20 45° 259 300 250 300 300 300 300 300 300 300 300 300 3
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSERAM Opto Semiconductors LED	Asymmetric 90 % 0.7 cd/lm 1 White OSCONIQ P 3737 Flat	20 45° 259 300 250 300 300 300 300 300 300 300 300 300 3
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 90 % 0.7 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric	20 45° 259 300 250 300 300 300 300 300 300 300 300 300 3
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 90 % 0.7 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 93 %	20 45° 259 300 250 300 300 300 300 300 300 300 300 300 3
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.7 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 93 % 0.8 cd/lm	20 45° 259 300 250 300 300 300 300 300 300 300 300 300 3
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	Asymmetric 90 % 0.7 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 93 % 0.8 cd/lm 1	
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 Light colour	Asymmetric 90 % 0.7 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 93 % 0.8 cd/lm	20 45° 259 300 250 300 300 300 300 300 300 300 300 300 3
orto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.7 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 93 % 0.8 cd/lm 1	
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 Light colour	Asymmetric 90 % 0.7 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 93 % 0.8 cd/lm 1	
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 Light colour	Asymmetric 90 % 0.7 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 93 % 0.8 cd/lm 1	



OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square CSSRM2/CSSRM3 Asymmetric 91 % 1 cd/m 1 White	
OSRAM Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square CSSRM2/CSSRM3 Asymmetric 92 % 1 cd/lm 1 White	
seoul senconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Z5M4 Asymmetric 92 % 0.8 cd/lm 1 White	90° 100 100 100 100 100 100 100 1



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.

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