

## STRADA-IP-2X6-T2-B-90

IESNA Type II (medium) beam with minimized house side backlight. Variant with beam direction rotated 90°.

## **TECHNICAL SPECIFICATIONS:**

Dimensions	71.4 x 173.0 mm
Height	12.1 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



## MATERIAL SPECIFICATIONS:

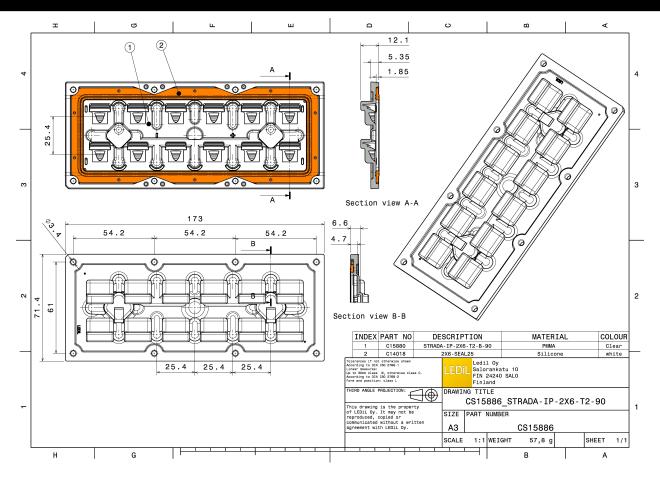
Component	Туре	Material	Colour	Finish
STRADA-IP-2X6-T2-B-90	Multi-lens	PMMA	clear	
2X6-SEAL25	Seal	Silicone	white	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15886_STRADA-IP-2X6-T2-B-90	Multi-lens	120	40	40	8.0
» Box size: 476 x 273 x 247 mm					

# 

## PRODUCT DATASHEET CS15886\_STRADA-IP-2X6-T2-B-90



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



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX 2x6 LED XG xxx G7+ Asymmetric 94 % 1 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX 2x6 LED XT xxx G5 Asymmetric 94 % 1.1 cd/lm 1 White tts:	
	XP-G2	20 <sup>10</sup> 12 <sup>10</sup> 22 <sup>10</sup> 20 <sup>10</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1.1 cd/lm 1 White hts:	
	]	90° 30° 15° 0° 20° 30° 30° 30° 30° 30° 30° 30° 30° 30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 Asymmetric 94 % 0.9 cd/lm 1 White	
Required componer	its:	90 90 100 100 100 100 100 100



		8×* 9×*
LED	- XP-L2	N Sy
FWHM / FWTM	Asymmetric	3
Efficiency	94 %	
Peak intensity	0.8 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45 <sup>+</sup>
Required componer		
		600
		X     X
		800
		15 <sup>0</sup> 0 <sup>0</sup> 15 <sup>+</sup> 30 <sup>+</sup>
		30*
LED	XT-E HE	
FWHM / FWTM	Asymmetric	754 20 754
Efficiency	94 %	
Peak intensity	1.1 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required componer	nts:	$\times$
		200
		2000
		153 0% 15*
UMIL	EDS	8° 8°
<b>LUMIL</b>	EDS LUXEON 5050 Round LES	8°
		39° 90°
LED	LUXEON 5050 Round LES	20 <sup>1</sup>
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES Asymmetric	90 <sup>4</sup> 90 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 94 %	900 100 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/m 1 White	40°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/lm 1 White hts:	39°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/lm 1 White hts: EDS LUXEON V Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component <b>Composition</b> Required component Efficiency	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/m 1 White hts: EDS LUXEON V Asymmetric 92 %	39°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component <b>Efficiency</b> Peak intensity	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/m 1 White hts: EDS LUXEON V Asymmetric 92 % 0.8 cd/m	39°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/lm 1 White hts: EDS LUXEON V Asymmetric 92 % 0.8 cd/lm 1	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Composition Required component Required component Composition Required component Required component Required component Composition Required component Required component Required component Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/m 1 White hts:	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/m 1 White hts:	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Composition Required component Required component Composition Required component Required component Required component Composition Required component Required component Required component Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/m 1 White hts:	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component With colour Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/m 1 White hts:	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Component Component Required component Component Required component Component Required component Required component Component	LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/m 1 White hts:	99°



HOT		
MST Your solut	ions	90* 90*
LED	RecLED 146x45mm 2900lm 730 STRADA-IP-2x6 G1	
FWHM / FWTM	Asymmetric	750 750
Efficiency	96 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	65' 500 65'
Required compone	nts:	
		$\times$ / $\top$ / $\times$
		30° 100 30° 30°
LED	- NVSW219D	90° 90°
ED FWHM / FWTM	Asymmetric	72%
Efficiency	94 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		200
		30° 1400 10° 30°
<b>MNICHI</b>		90*
LED	NVSW219F	
FWHM / FWTM	Asymmetric	753 75
Efficiency	94 %	
Peak intensity	1 cd/lm	60 60
LEDs/each optic	1	
Light colour	White	45* 000 45*
Required compone	nts:	
		Me
		$\times$ / $\top$ $\setminus$ $\lambda$
		*06 *21 *06 30°
LED	NVSW319B	× 90*
FWHM / FWTM	Asymmetric	75
Efficiency	94 %	
Peak intensity	0.9 cd/lm	dat data data data data data data data
LEDs/each optic	1	× / +++
Light colour	White	51 63
Required compone		60
· ·		$\times$ / $\times$
		000
		$\times$ / $\wedge$ $\rightarrow$
		30° 15° 30°



- /		
<b>MNICHI</b>		90°
LED	NVSW3x9A	
FWHM / FWTM	Asymmetric	73*
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60* 60*
LEDs/each optic	1	40
Light colour	White	
Required compone		600
		000
		$\times$ / $\land$ $\lambda$
		30° 15° 0° 15° 30°
<b>ØNICHI</b>		30* 30*
LED	NVSW3x9A	4
FWHM / FWTM	Asymmetric	XI. XI.
Efficiency	94 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	43°
Required compone	nts:	600
		***
		30° 30°
<b>ØNICHI</b>		15° or 15°
		90* 90*
LED	NVSW519A	
FWHM / FWTM	Asymmetric	38
Efficiency	95 %	
Efficiency Peak intensity	95 % 0.8 cd/lm	
Efficiency Peak intensity LEDs/each optic	95 % 0.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic	95 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componen	95 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	95 % 0.8 cd/lm 1 White nts:	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	95 % 0.8 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3	
Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM	95 % 0.8 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric	90 90 90 90 90 90 90 90 90 90 90 90 90 9
Efficiency Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM Efficiency	95 % 0.8 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 %	50° 0° 13° X
Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	95 % 0.8 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1.2 cd/lm	50° 0° 13° X
Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	95 % 0.8 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1.2 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.8 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1.2 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	95 % 0.8 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1.2 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.8 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1.2 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.8 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1.2 cd/lm 1 White	90 90 90 90 90 90 90 90 90 90 90 90 90 9



PHILIF		THI HI
		90* 90*
LED FWHM / FWTM	Fortimo FastFlex LED 2x6 DP G4	750
Efficiency	Asymmetric 94 %	
Peak intensity	94 % 1.1 cd/lm	50° 50°
LEDs/each optic	1	
Light colour	White	500
Required compone		.67
Required compone	110.	
		$\times$
		1000
		30° 13 <sup>5</sup> 0° 13° 30°
SAMSI	JNG	90* 90*
LED	HiLOM RH12 (LH351C)	Ĩ
FWHM / FWTM	Asymmetric	73.0 75.0
Efficiency	94 %	
Peak intensity	1 cd/lm	605 607
LEDs/each optic	1	400
Light colour	White	45° 45°
Required compone	nts:	640
		$\times$
		Dia
		$\times$ / $\setminus$ $\times$
		30° 13 <sup>3</sup> 0° 15° 35°
<b>S</b> ΛΜS	JNG	
		90° 90°
LED		90° 50°
LED FWHM / FWTM	HiLOM RM12 ZP (LH502C)	20 The second se
FWHM / FWTM		9°
FWHM / FWTM Efficiency	HiLOM RM12 ZP (LH502C) Asymmetric	90° Th 30° Th 30° Th 30° Th 30° Th 30° Th 30° Th 30° Th 30° Th
FWHM / FWTM	HiLOM RM12 ZP (LH502C) Asymmetric 95 %	90° 10 90°
FWHM / FWTM Efficiency Peak intensity	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White Ints:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White Ints:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White Ints:	20 <sup>3</sup> 20 <sup>5</sup> 10 <sup>5</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White Ints:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White Ints:	20 <sup>3</sup> 20 <sup>5</sup> 10 <sup>5</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White Ints:	20 <sup>3</sup> 20 <sup>5</sup> 10 <sup>5</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White Ints:	20 <sup>3</sup> 20 <sup>5</sup> 10 <sup>5</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White ints: <b>LUX</b> ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.8 cd/lm 1 White	20 <sup>2</sup> 20 <sup>0</sup> 10 <sup>2</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White ints: <b>LUX</b> ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.8 cd/lm 1 White	20 <sup>3</sup> 20 <sup>5</sup> 10 <sup>5</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White ints: <b>LUX</b> ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.8 cd/lm 1 White	20 <sup>2</sup> 20 <sup>0</sup> 10 <sup>2</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White ints: <b>LUX</b> ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.8 cd/lm 1 White	20 <sup>2</sup> 20 <sup>0</sup> 10 <sup>2</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 95 % 0.7 cd/lm 1 White ints: <b>LUX</b> ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.8 cd/lm 1 White	



SCIO	LUX	50°
LED	XLE-S22C4XTEHE (XT-E HE)	
FWHM / FWTM	Asymmetric	734 200
Efficiency	94 %	
Peak intensity	1.1 cd/lm	.00% 400 60*
LEDs/each optic	1	
Light colour	White	45° 600 43°
Required compone		
		80
		$\times$
		1000
		(30° 15° 0° 15° 30°
SCIO	LUX	90*
LED	XLE-S26XHP35 (XHP35 HD)	and the second s
FWHM / FWTM	Asymmetric	75* 75*
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400
Required compone	nts:	
		600
		30° 15° 30°
SEOUL		12 <sup>2</sup> 0 <sup>4</sup> 13 <sup>4</sup>
SEOUL SEMICONDUCTOR	SM IQ-D36W/12My	<u>50</u> <u>10</u> <u>50</u> <u>50</u> <u>50</u>
seoul semiconductor	SMJQ-D36W12Mx	122 of 131
seoul semiconductor LED FWHM / FWTM	Asymmetric	50° 0° 55°
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 93 %	50° 0° 55°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 1 cd/lm	50° 0° 55°
seoul semeonbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 1 cd/lm 1	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1 cd/lm 1 White	50° 0° 55°
seoul semeonbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 1 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1 cd/lm 1 White	
stout stemconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 1 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 1 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR	Asymmetric 93 % 1 cd/lm 1 White nts:	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 1 cd/lm 1 White nts: SMJQ-D36W12Px	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED	Asymmetric 93 % 1 cd/lm 1 White nts:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 93 % 1 cd/lm 1 White nts: SMJQ-D36W12Px Asymmetric 94 %	
seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 1 cd/lm 1 White nts: SMJQ-D36W12Px Asymmetric	
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	Asymmetric 93 % 1 cd/lm 1 White nts: SMJQ-D36W12Px Asymmetric 94 % 1 cd/lm	
seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 1 cd/lm 1 White nts: SMJQ-D36W12Px Asymmetric 94 % 1 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	Asymmetric 93 % 1 cd/lm 1 White nts: SMJQ-D36W12Px Asymmetric 94 % 1 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	Asymmetric 93 % 1 cd/lm 1 White nts: SMJQ-D36W12Px Asymmetric 94 % 1 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	Asymmetric 93 % 1 cd/lm 1 White nts: SMJQ-D36W12Px Asymmetric 94 % 1 cd/lm 1 White	



SEOUL SEMICONDUCTOR		90° 90°
LED	Z5M3	3
FWHM / FWTM	Asymmetric	71 72
Efficiency	94 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	e
Required compone	ents:	
		30° (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
SEOUL		
SEOUL SEMICONDUCTOR		50° 50°
LED	Z8Y22	× 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FWHM / FWTM	Asymmetric	
Efficiency	93 %	60 <sup>4</sup> 60 <sup>4</sup>
Peak intensity	1 cd/lm	
LEDs/each optic Light colour	1 White	
Required compone		er et
Required compone	51113.	00
		80
		20° 40° 10° 20°
TRIDON	VIC	80*
LED	RLE 2x6 3000lm HP EXC2 OTD	3
FWHM / FWTM	Asymmetric	787 240 787.
Efficiency	94 %	
Peak intensity	1.1 cd/lm	60° 400 60×
LEDs/each optic	1	
Light colour	White	a; 60 a;
Required compone	ents:	80
		$\times/\top \times$
		1000
		30°
		45 <sup>2</sup> 0 <sup>8</sup> 13 <sup>2</sup>



		90* 90*
LED	XP-G2 HE	4
FWHM / FWTM	Asymmetric	73°
Efficiency	93 %	
Peak intensity	0.7 cd/lm	604 604
LEDs/each optic	1	400
Light colour	White	·6·
Required components:		600
		30° 15° 30°
		90 <sup>4</sup>
LED	XP-G3	
FWHM / FWTM	Asymmetric	75°
Efficiency	93 %	
	93 % 0.7 cd/lm	50° 50°
Peak intensity		40
LEDs/each optic	1	$\times$
Light colour	White	5° 6 <sup>A</sup>
Required components:		600
		$\times$
		200
		30* 30*
		90°
LED	XP-L HD	30° 0°
LED FWHM / FWTM	Asymmetric	30°
LED FWHM / FWTM Efficiency	Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.7 cd/lm 1	30° 97° 333 20° 75° 40° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm	50° 50° 20° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.7 cd/lm 1	55 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1	5° 5° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1	21 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 LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1	20° - 10° -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1 White XT-E	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1 White XT-E Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1 White XT-E Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1 White XT-E Asymmetric 93 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1 White XT-E Asymmetric 93 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1 White XT-E Asymmetric 93 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1 White XT-E Asymmetric 93 % 0.7 cd/lm 1	500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1 White XT-E Asymmetric 93 % 0.7 cd/lm 1	500 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1 White XT-E Asymmetric 93 % 0.7 cd/lm 1	500 000 000 000 000 000 000 000
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	Asymmetric 94 % 0.7 cd/lm 1 White XT-E Asymmetric 93 % 0.7 cd/lm 1	00 00 00 00 00 00 00 00 00 00 00 00 00



r		
LED	XT-E	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
LEDs/each optic	1	
Light colour	White	
Required components:	Winte	
-		<u> </u>
	)S	90° 80°
LED	LUXEON V2	
FWHM / FWTM	Asymmetric	75°
Efficiency	93 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	$X / T \setminus X$
Light colour	White	45* 45*
Required components:		
		X   X
		810
		30° 13 <sup>5</sup> 13 <sup>5</sup> 30°
<b>ΜΝΙCΗΙΛ</b>		90* 99*
LED	NFMW48xA	3
FWHM / FWTM	Asymmetric	75°
Efficiency		
	94 %	
	94 % 0.6 cd/lm	61 <sup>5</sup> 61 <sup>4</sup>
Peak intensity	94 % 0.6 cd/lm 1	60' 60'
Peak intensity LEDs/each optic	0.6 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.6 cd/lm	60° 60°
Peak intensity LEDs/each optic	0.6 cd/lm 1	er 60 50 50 50 50 50 50 50 50 50 50 50 50 50
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1	6 <sup>1</sup> 6 <sup>1</sup> 6 <sup>2</sup> 6 <sup>3</sup> 6 <sup>3</sup> 6 <sup>3</sup> 6 <sup>3</sup> 6 <sup>3</sup>
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1	51- 52- 50- 50- 50- 50- 50- 50- 50- 50
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/lm 1 White NV4WB35AM	
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NV4WB35AM Asymmetric	80° 80° 80° 80° 80° 80° 80° 80°
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/m 1 White NV4WB35AM Asymmetric 93 %	80° 000 000 000 000 000 000 000
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NV4WB35AM Asymmetric	80° 80° 80° 80° 80° 80° 80° 80°
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NV4WB35AM Asymmetric 93 % 0.6 cd/lm 1	80° 000 000 000 000 000 000 000
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NV4WB35AM Asymmetric 93 % 0.6 cd/lm	80° 000 000 000 000 000 000 000
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NV4WB35AM Asymmetric 93 % 0.6 cd/lm 1	80° 000 000 000 000 000 000 000
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NV4WB35AM Asymmetric 93 % 0.6 cd/lm 1	800 800 800 800 800 800 800 800
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NV4WB35AM Asymmetric 93 % 0.6 cd/lm 1	80° 000 000 000 000 000 000 000



OSRAM		
LED	PrevaLED Brick HP IP 2x6	90° 90°
EED FWHM / FWTM		780 780
Efficiency	Asymmetric 94 %	
		60° 60°
Peak intensity	0.7 cd/lm	40
LEDs/each optic		
Light colour	White	45° 45°
Required components:		$\wedge$ / $\top$ / $\vee$
		800
		30° 15° 0° 15° 30°
OSRAM Opto Semiconductors		
LED	Duris S8	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	( the second sec
Peak intensity	0.6 cd/lm	604
LEDs/each optic	1	400
Light colour	White	45'
Required components:	white	
required components.		60
		$\times$ / $\times$
		800
		30° 30° 30°
PHILIPS		
LED	Fortimo FastFlex LED 2x6 DPX G4	90* 90*
EED FWHM / FWTM	Asymmetric	750 700
Efficiency	Asymmetric	
	93 %	6.5 Er.
Peak intensity	93 % 0.7 cd/lm	60° 60°
Peak intensity LEDs/each optic	93 % 0.7 cd/lm 1	60° 60
Peak intensity LEDs/each optic Light colour	93 % 0.7 cd/lm	60° 60°
Peak intensity LEDs/each optic	93 % 0.7 cd/lm 1	60° (00)
Peak intensity LEDs/each optic Light colour	93 % 0.7 cd/lm 1	61 <sup>4</sup> (0, 65 <sup>4</sup> (0) 60 <sup>4</sup> (0)
Peak intensity LEDs/each optic Light colour	93 % 0.7 cd/lm 1	6° (c)
Peak intensity LEDs/each optic Light colour	93 % 0.7 cd/lm 1	51° 60 60° 67°
Peak intensity LEDs/each optic Light colour Required components:	93 % 0.7 cd/lm 1 White	60 20 <sup>4</sup>
Peak intensity LEDs/each optic Light colour Required components:	93 % 0.7 cd/lm 1 White	60 20 <sup>4</sup>
Peak intensity LEDs/each optic Light colour Required components:	93 % 0.7 cd/lm 1 White	60 20 <sup>4</sup>
Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	93 % 0.7 cd/m 1 White G LH351B Asymmetric	60 20 <sup>4</sup>
Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency	93 % 0.7 cd/m 1 White G LH351B Asymmetric 94 %	60 20 <sup>4</sup>
Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity	93 % 0.7 cd/m 1 White G LH351B Asymmetric 94 % 0.8 cd/m	60 20 <sup>4</sup>
Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	93 % 0.7 cd/m 1 White C LH351B Asymmetric 94 % 0.8 cd/m 1	
Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	93 % 0.7 cd/m 1 White G LH351B Asymmetric 94 % 0.8 cd/m	60 20 <sup>4</sup>
Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	93 % 0.7 cd/m 1 White C LH351B Asymmetric 94 % 0.8 cd/m 1	
Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	93 % 0.7 cd/m 1 White C LH351B Asymmetric 94 % 0.8 cd/m 1	
Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	93 % 0.7 cd/m 1 White C LH351B Asymmetric 94 % 0.8 cd/m 1	
Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	93 % 0.7 cd/m 1 White C LH351B Asymmetric 94 % 0.8 cd/m 1	



		7 7
SAMSUN	G	90* 90*
LED	LH351C	
FWHM / FWTM	Asymmetric	750 770 770
Efficiency	94 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	400
Light colour	White	45° G*
Required components:		
		$\times$
		810
		$\times$ / $\setminus$ $\times$
		30* 13° 18° 30°
SAMSUN	IG	90* 90*
LED	LH351D	Ry No.
FWHM / FWTM	Asymmetric	75 78
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60° 60°.
LEDs/each optic	1	400
Light colour	White	451
Required components:		$\times$
		600
		$\times$ / $\setminus$ $\times$
		800
		30° 30°
		15 <sup>,</sup> 0° 13 <sup>,</sup>
SAMSUN	IG	
SAMSUN		90. 17. 6. 17.
LED	LH502C	15° ¢° 15°
LED FWHM / FWTM	LH502C Asymmetric	
LED FWHM / FWTM Efficiency	LH502C Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LH502C Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH502C Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH502C Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH502C Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH502C Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH502C Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH502C Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH502C Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency	LH502C Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity	LH502C Asymmetric 94 % 0.6 cd/lm 1 White LH508A Plus Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH502C Asymmetric 94 % 0.6 cd/lm 1 White LH508A Plus Asymmetric 93 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity	LH502C Asymmetric 94 % 0.6 cd/lm 1 White LH508A Plus Asymmetric 93 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C Asymmetric 94 % 0.6 cd/lm 1 White LH508A Plus Asymmetric 93 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C Asymmetric 94 % 0.6 cd/lm 1 White LH508A Plus Asymmetric 93 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C Asymmetric 94 % 0.6 cd/lm 1 White LH508A Plus Asymmetric 93 % 0.6 cd/lm 1	



SEOUL SEMICONDUCTOR		99° 99°
LED	Z5M4	
FWHM / FWTM	Asymmetric	
Efficiency	95 %	
Peak intensity	0.8 cd/lm	. 60 <sup>1</sup>
LEDs/each optic	1	
Light colour	White	er. 60 er.
Required component	ts:	
		80
		30* <u>100</u> 30* 30*



#### **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