

STRADA-2X2MX-8-DWC

Universal road lighting (typically IESNA Type III medium) beam with excellent mixed illuminance and luminance uniformity

TECHNICAL SPECIFICATIONS:

Dimensions	90.0 x 90.0 mm
Height	13.6 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈

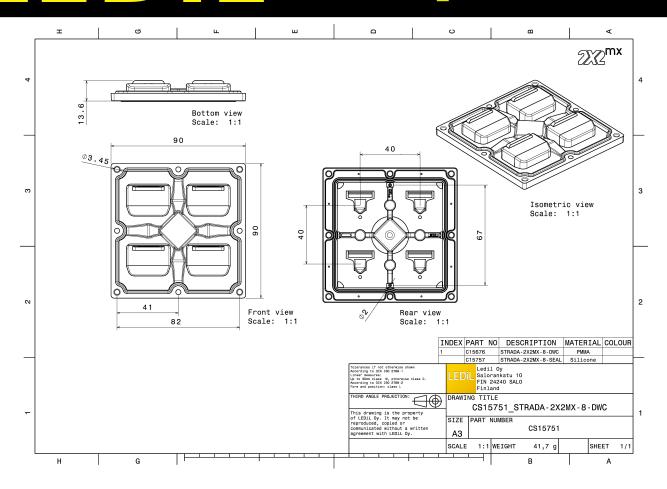


MATERIAL SPECIFICATIONS:

Component	Туре	Material	Colour	Finish
STRADA-2X2MX-8-DWC	Multi-lens	PMMA	clear	
STRADA-2X2MX-8-SEAL	Seal	Silicone	clear	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15751_STRADA-2X2MX-8-DWC	Multi-lens	156	52	52	7.5
» Box size: 476 x 273 x 292 mm					



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



PHOTOMETRIC DATA (MEASURED):

CREE \$		50° 50°
LED	CXA/B 15xx	G
FWHM / FWTM	Asymmetric	75* 100 75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60° 60°
LEDs/each optic	1 White	
Light colour		400 40°
Required component		
Bender Wirth: 44	1 Typ 2x2MX HV	500
		600
		30° 15° 30°
	EDS	90* 99*
LED	LUXEON M/MX	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	200
Peak intensity	0.6 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	400
Required componer		40° 40°
Required componen	113.	800
		700
		300 300
		15 ⁵ 0 ⁶ 15 ⁶
SAMSI	ING	
SAMSU		<u>20</u> 0 ⁴ 10 ⁴
LED	HiLOM SC16 (LH181B)	20 ² 0 ² 13 ² 20 ²
LED FWHM / FWTM	HiLOM SC16 (LH181B) Asymmetric	25 ³ 0 ⁴ 15 ⁴ 27
LED FWHM / FWTM Efficiency	HiLOM SC16 (LH181B) Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	HiLOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	HiLOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	HILOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/lm 1 White Its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	HILOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SCIO LED FWHM / FWTM	HiLOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SCIO LED FWHM / FWTM Efficiency	HILOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/m 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity	HiLOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component S C I O LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HILOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HILOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HILOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HILOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HILOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HILOM SC16 (LH181B) Asymmetric 94 % 0.8 cd/m 1 White hts:	



PHOTOMETRIC DATA (MEASURED):

SCIO	LUX	¥'
LED	XLE-S22C4XTEHE (XT-E HE)	3
FWHM / FWTM	Asymmetric	75%
Efficiency	94 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	300
Light colour	White	45*
Required compone	nts:	40
		30* <u>15</u> <u>600</u> <u>15</u> 30*
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z8Y22	xe 500 xe
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	4	40
Light colour	White	
-	White	67 59 07 67 09
Light colour	White	67 50 67 67 00 70
Light colour	White	60 50 60 70 00
Light colour	White	60 61 50 50 50 50 50 50 50 50 50 50



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Bridgelux SMD 5050 Asymmetric 94 % 0.5 cd/lm 1 White	
CITTIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 Ty	CLU700/701/702 Asymmetric 92 % 0.6 cd/lm 1 White p 2x2MX HV	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	MHB-A/B Asymmetric 95 % 0.4 cd/lm 1 White	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	MHD-E/G Asymmetric 95 % 0.4 cd/lm 1 White	



CREE ≑		90°
LED	XHP50	200 200
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60 ⁴ 60 ⁴
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	400
Light colour	White	st dt
Required components:		540
		740
		30* 15* 30*
CREE ≑		90° - 90'
LED	XHP50.2	9
FWHM / FWTM	Asymmetric	794 700 792
Efficiency	93 %	
Peak intensity	0.5 cd/lm	60 ⁴
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		
		600
		700
		15 ³ 0 ³ 15 ⁴
CREE 🚖		95°
	XHP70.2	90°
LED	XHP70.2 Asymmetric	25 ¹ 6 ¹ 25 ²
LED FWHM / FWTM	XHP70.2 Asymmetric 93 %	<u><u><u></u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>
LED FWHM / FWTM Efficiency	Asymmetric	25 ⁰ 0 ⁰ 25 ⁰ 90 ⁰ 100 0 ⁰ 0 ⁰
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 %	20 [°] 0 [°] 12 [°] 20 [°] 12 [°] 20 [°] 10 [°] 10 [°]
LED FWHM / FWTM Efficiency	Asymmetric 93 % 0.4 cd/lm	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.4 cd/lm 1	5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.4 cd/lm 1 White XT-E	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.4 cd/lm 1 White XT-E Asymmetric	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency	Asymmetric 93 % 0.4 cd/lm 1 White XT-E Asymmetric 94 %	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 0.4 cd/lm 1 White XT-E Asymmetric 94 % 0.6 cd/lm	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.4 cd/lm 1 White XT-E Asymmetric 94 % 0.6 cd/lm 1	50°
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 93 % 0.4 cd/lm 1 White XT-E Asymmetric 94 % 0.6 cd/lm	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.4 cd/lm 1 White XT-E Asymmetric 94 % 0.6 cd/lm 1	500 500 500 500 500 500 500 500 500 500
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 93 % 0.4 cd/lm 1 White XT-E Asymmetric 94 % 0.6 cd/lm 1	500 500 500 500 500 500 500 500 500 500
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 93 % 0.4 cd/lm 1 White XT-E Asymmetric 94 % 0.6 cd/lm 1	500 500 500 500 500 500 500 500 500 500
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 93 % 0.4 cd/lm 1 White XT-E Asymmetric 94 % 0.6 cd/lm 1	50°



🥙 LUMILED	15	90*
LED	LUXEON 5050 Round LES	4 100
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.6 cd/lm	50° 300
LEDs/each optic	1	
Light colour	White	45* 740
Required components:		NXIIX
		600
		70
		200
		30° 13° 13°
ΜΝΙCΗΙΛ		90*
LED	NFMW48xA	100
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.5 cd/lm	× / ***
LEDs/each optic	1	40
Light colour	White	45*
Required components:		
		X Too X
		700
		30*- 800
~		113 ² 0 ⁴ 13 ⁴
ΜΝΙCΗΙΛ		90*
LED	NV4WB35AM	U 100
FWHM / FWTM	Asymmetric	
Efficiency	95 %	
	33 78	
Peak intensity	0.6 cd/lm	504 310
		60*
Peak intensity	0.6 cd/lm	
Peak intensity LEDs/each optic	0.6 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1	40 62 70 70 70 80
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1	40 62 70 70 70 80
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1	40 62 70 70 70 80
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1	40 62 70 70 70 80
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White	40 62 70 70 70 80
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NV4x144A	40 62 70 70 70 80
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NV4x144A Asymmetric	
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/m 1 White NV4x144A Asymmetric 93 %	40 62 70 70 70 80
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White NV4x144A Asymmetric 93 % 0.4 cd/lm	40 62 70 70 70 80
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/m 1 White NV4x144A Asymmetric 93 % 0.4 cd/m 1	40 62 70 70 70 80
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/m 1 White NV4x144A Asymmetric 93 % 0.4 cd/m 1	40 62 70 70 70 80
Peak intensity LEDs/each optic Light colour Required components: WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.6 cd/m 1 White NV4x144A Asymmetric 93 % 0.4 cd/m 1	40 67 90 00 70 70 80



Μ ΝΙCΗΙΛ		
LED	NVSxE21A	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.6 cd/lm	50 ⁴ 50 ⁴
	4	
LEDs/each optic Light colour	4 White	400
Required components:	Wille	
Required components.		
		600
		700
		30* 15° 30°
OSRAM Opto Semiconductors		
Opto Semiconductors	Duris S10	90° 99°
ED FWHM / FWTM	Asymmetric	780 200 780
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60° 60°
LEDs/each optic	1	30
Light colour	White	40 G*
Required components:	White	
rioquirou componente.		
		600
		710
		30* 30*
		15 ⁵ 0 ⁸ 15 [*]
OSRAM		
Opto Semiconductors	Duris S8	15 ² 0 ⁴ 15 ⁴
Opto Semiconductors	Duris S8 Asymmetric	12 [°] 0 [°] 12 [°]
opto Semiconductors LED FWHM / FWTM	Asymmetric	22° 0° 12° 90° 73° 00 70°
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 95 %	22 ² 0 ⁴ 12 ² 90 ⁴ 90 ⁴ 9
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 0.5 cd/lm	23 ² 0 ⁴ 13 ² 9 ⁴ 9 ⁴
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.5 cd/lm	
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.5 cd/lm 1	23 - 72 40 - 70 - 70
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.5 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.5 cd/lm 1 White OSCONIQ C 2424	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 95 % 0.5 cd/lm 1 White OSCONIQ C 2424 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 95 % 0.5 cd/lm 1 White OSCONIQ C 2424 Asymmetric 94 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.5 cd/lm 1 White OSCONIQ C 2424 Asymmetric 94 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.5 cd/lm 1 White OSCONIQ C 2424 Asymmetric 94 % 0.6 cd/lm 4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.5 cd/lm 1 White OSCONIQ C 2424 Asymmetric 94 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.5 cd/lm 1 White OSCONIQ C 2424 Asymmetric 94 % 0.6 cd/lm 4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.5 cd/lm 1 White OSCONIQ C 2424 Asymmetric 94 % 0.6 cd/lm 4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.5 cd/lm 1 White OSCONIQ C 2424 Asymmetric 94 % 0.6 cd/lm 4	



OSRAM		
Opto Semiconductors		90° 90°
	OSCONIQ C 2424	750 100 750
FWHM / FWTM	Asymmetric	
Efficiency	95 %	50° 50°
Peak intensity	0.6 cd/lm	X / 30
LEDs/each optic	1	× +400
Light colour	White	45' 45'
Required components:		200
		500
		30° 30°
OSRAM		
Opto Semiconductors		90* 90*
LED	OSCONIQ C 2424	
FWHM / FWTM	Asymmetric	75°
Efficiency	95 %	
Peak intensity	0.5 cd/lm	-60°
LEDs/each optic	4	300
Light colour	White	45+
Required components:		
		200
		30° 30° 30°
OSRAM		
Opto Semiconductors		50°
Opto Semiconductors	OSCONIQ P 7070	90 70 70 70 70 70
Opto Semiconductors LED FWHM / FWTM	Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.5 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.5 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 95 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 0.5 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 0.5 cd/lm 4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 0.5 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 0.5 cd/lm 4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 0.5 cd/lm 4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 0.5 cd/lm 4	
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 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 0.5 cd/lm 4	



PHILIPS		
LED	Fortimo FastFlex LED 2x2 70x70 DC G4	9 ²
FWHM / FWTM	Asymmetric	730 7100 750
Efficiency	94 %	
Peak intensity	0.5 cd/lm	53 ⁴ 60 ⁴
LEDs/each optic	1	***
Light colour	White	45* 400 65*
Required components:	white	
rioquirou componente.		
		000
		X
		30° 15 ⁵ 0° 10° 30°
SAMSUN	IG	90* 90*
LED	LH181B	4
FWHM / FWTM	Asymmetric	75
Efficiency	95 %	
Peak intensity	0.6 cd/lm	.50 ⁴ 400 60 ⁴
LEDs/each optic	1	
Light colour	White	45* 810 45*
Required components:		

		30° 15 ⁵ 0° 15° 30°
SEOUL SEMICONDUCTOR		
LED	Z8Y19	
FWHM / FWTM	Asymmetric	75° mynd x.
Efficiency	93 %	
Peak intensity	0.7 cd/lm	50 ⁴ 50*
LEDs/each optic	4	
Light colour	White	57 57
Required components:		60
		800
		30* 30*
		30" 15 ⁵ 1000 15" 30"
		90*
	Z8Y50P	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	50 ⁴ 60
Efficiency Peak intensity		
Efficiency Peak intensity LEDs/each optic	94 % 0.6 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.6 cd/lm	60°
Efficiency Peak intensity LEDs/each optic	94 % 0.6 cd/lm 1	60° 60°
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.6 cd/lm 1	60°
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.6 cd/lm 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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

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.

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LEDiL Oy

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