

PRODUCT DATASHEET C15962_STRADA-2X2-FS3

STRADA-2X2-FS3

Forward throw beam optimized for European tunnels, resulting in extremely efficient lighting with counter-beam method.

TECHNICAL SPECIFICATIONS:

Dimensions Height Fastening ROHS compliant 50.0 x 50.0 mm 12 mm pin, screw yes (i)



MATERIAL SPECIFICATIONS:

Component STRADA-2X2-FS3

Туре	
Multi-lens	

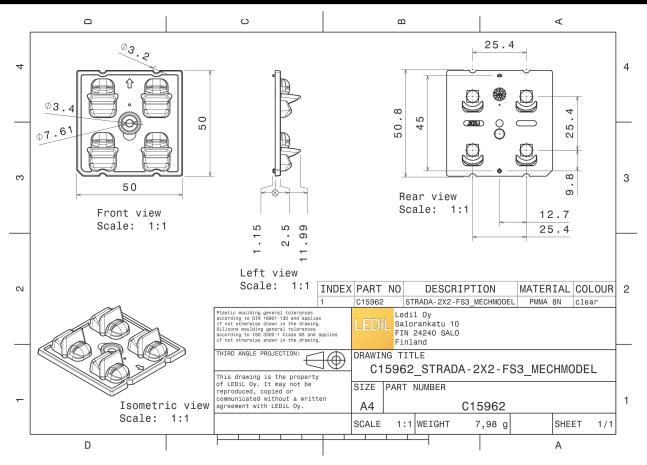
Material	Colour	Finish
PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C15962_STRADA-2X2-FS3	800	160	160	7.1
» Box size: 480 x 280 x 300 mm				



PRODUCT DATASHEET C15962_STRADA-2X2-FS3



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



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x4 xxx LS G5 Asymmetric 94 % 1.7 cd/lm 1 White hts:	91 94 95 95 96 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x6 xxx LS G5 Asymmetric 94 % 1.7 cd/lm 1 White hts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XD16 Asymmetric 94 % 1.1 cd/lm 4 White	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XD16 Asymmetric 91 % 2.1 cd/lm 1 White	20 ³ 23 ³ 20 ³ 23 ⁴ 30 ⁴



CREE 4		
LED	XP-G2	90°
FWHM / FWTM	Asymmetric	75* 400 75*
Efficiency	94 %	000
Peak intensity	2 cd/lm	.604 604
LEDs/each optic	1	120
Light colour	White	45* 1600 43*
Required compone		
		2000
		2430
		30° 2800 30° 30° 30°
CREE (THY FFL
LED	XP-G3	90* 90*
FWHM / FWTM	Asymmetric	75* 400 75*
Efficiency	94 %	
Peak intensity	1.5 cd/lm	60 ⁴ 300 60 ⁴
LEDs/each optic	1	
Light colour	White	1200 127 - 1200
Required compone		1600
		\times
		200
		30° 2400 30° 15° 30°
		15 ³ 0 ⁶ 15 ⁶
	EDS	
		90 ⁴ 97 97
LED	LUXEON V	300
LED FWHM / FWTM	LUXEON V Asymmetric	
LED FWHM / FWTM Efficiency	LUXEON V Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON V Asymmetric	100 000 000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON V Asymmetric 94 % 1.3 cd/lm 1	100 000 000 000 000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White nts:	20 ⁴ 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White nts: EDS LUXEON V2 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Weak intensity	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White nts: EDS LUXEON V2 Asymmetric 94 % 1.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition Composition	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White nts: EDS LUXEON V2 Asymmetric 94 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White nts: EDS LUXEON V2 Asymmetric 94 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition Composition	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White nts: EDS LUXEON V2 Asymmetric 94 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Equired component Component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White nts: EDS LUXEON V2 Asymmetric 94 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Equired component Component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 94 % 1.3 cd/lm 1 White nts: EDS LUXEON V2 Asymmetric 94 % 1.8 cd/lm 1 White	



MST Your soluti	ons	
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	251 400 751
Efficiency	95 %	50
Peak intensity	2 cd/lm	.60 ⁴
LEDs/each optic	1	120
Light colour	White	45° 1600 43°
Required componer		
	ю.	2000
		2430
		2000
		30° 15° 0° 15° 30°
ØNICHI		THA KHI
		90* 92*
LED FWHM / FWTM	NVSW219F	754 400 75*
Efficiency	Asymmetric 94 %	000
Peak intensity	94 % 1.8 cd/lm	.50 ⁴ 604
LEDs/each optic	1	1200
Light colour	White	5°* 1600 5°*
Required componer		
Required componen	ю.	
		2100
		2000
		30° 15° 30°
		W
LED	NVSW319B	99° 99°
LED FWHM / FWTM	NVSW319B Asymmetric	730
LED FWHM / FWTM Efficiency	NVSW319B Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	NVSW319B Asymmetric 94 % 1.6 cd/lm	730 460 737
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW319B Asymmetric 94 % 1.6 cd/lm 1	200 - 200 200 - 200 200 200 - 200 200 - 200 200 200 - 200 200 200 - 200 200 200 - 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White	234 409 751 604 609 604 604
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White	200 - 200 200 - 200 200 200 - 200 200 - 200 200 200 - 200 200 200 - 200 200 200 - 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White	230 400 737 60 1000 60 60 1000 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White	200 co
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White	5 100 6 ⁷
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White hts:	39 400 75 64 90 64 120 67 67 300 90 67 300 90 67 120 90 67 300 90 67 300 90 67 300 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Optiosemiconductors LED	NVSW319B Asymmetric 94 % 1.6 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Oscan Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White hts: Duris S8 Asymmetric 94 % 1.1 cd/lm	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White hts: Duris S8 Asymmetric 94 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White nts: Duris S8 Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White nts: Duris S8 Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White nts: Duris S8 Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 1.6 cd/lm 1 White nts: Duris S8 Asymmetric 94 % 1.1 cd/lm 1 White	



OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75* 400 75
Efficiency	92 %	
Peak intensity	2 cd/lm	60 ⁴ 604
		1220
LEDs/each optic	1	$\times \times / \wedge \times \times$
Light colour	White	45* 1600 45*
Required component	nts:	2000
		2450
		30° 2000 0° 10° 30°
OSRAM		
Opto Semiconductors		90* 90*
LED	OSLON Square PC	400
FWHM / FWTM	Asymmetric	
Efficiency	93 %	50* 800 60*
Peak intensity	1.9 cd/lm	1200
LEDs/each optic	1	
Light colour	White	45° 55
Required compone	nts:	
		2000
		2430
		15° 2800 15°
PHILIP	S	50°
		8° 8°
LED	Fortimo FastFlex LED 2x8 DA G4+	99 ⁴ 90 ⁴ 90 ⁴
LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric	75- 60 70
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 %	94 95 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm	75- 40 75-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/m 1	75 ⁴ 60 90 00 ⁴ 90 00 ⁵ 00 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White	75' 400 79."
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White hts:	757 - 109 - 75° 00° - 00° - 1129 - 40° - 00° - 1129 - 40° - 00° -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White Its:	757 - 109 - 75° 00° - 00° - 1129 - 40° - 00° - 1129 - 40° - 00° -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DAX G4 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component PHILLIP LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componed PHILLIC FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componed PHILLIP FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componed PHILLIP FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componed PHILLIP FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componed PHILLIP FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 95 % 1.5 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1.5 cd/lm 1 White	



	JNG	
LED	HiLOM RC12 Z (LH181B)	
FWHM / FWTM	Asymmetric	251 400
Efficiency	94 %	010
Peak intensity	2.1 cd/lm	600
LEDs/each optic	1	1220
Light colour	White	67* 1090
Required compone		
		2000
		2830
		30° 2800 15 ³ 0 ⁶ 15° 3
<u> </u>	ING	
		90* S
	HiLOM RH16 (LH351C)	75* 400
FWHM / FWTM	Asymmetric 94 %	
Efficiency	94 % 1.6 cd/lm	
Peak intensity	1.0 contri	1220
LEDs/each optic	ı White	$\times \times / \times \times$
Light colour		45* 1500
Required compone	nis.	2000
		2400
		30° 200 15° 30
<u> </u> S M S I	ING	
		90* 92
	HiLOM RM12 Z (LH502C)	75* 600 7
FWHM / FWTM Efficiency	Asymmetric 95 %	
Peak intensity		60° 800 6
LEDs/each optic	1.5 cd/lm 1	1270
LEDS/each oplic	I	
Light colour	W/bito	$X \times I \setminus X $
Light colour	White	67 100 0
Light colour Required compone		
Required compone	ints:	
Required compone	JNG	
Required compone	ING HILOM RM12 Z (LH502C)	
Required compone	ING HiLOM RM12 Z (LH502C) Asymmetric	100 100 100 100 100 100 100 100
Required compone	ING HiLOM RM12 Z (LH502C) Asymmetric 95 %	
Required compone	nts: JNG HiLOM RM12 Z (LH502C) Asymmetric 95 % 1.1 cd/lm	
Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	nts: JNG HiLOM RM12 Z (LH502C) Asymmetric 95 % 1.1 cd/lm 1	
Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: ING HiLOM RM12 Z (LH502C) Asymmetric 95 % 1.1 cd/lm 1 White	
Required compone	nts: ING HiLOM RM12 Z (LH502C) Asymmetric 95 % 1.1 cd/lm 1 White	
Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: ING HiLOM RM12 Z (LH502C) Asymmetric 95 % 1.1 cd/lm 1 White	
Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: ING HiLOM RM12 Z (LH502C) Asymmetric 95 % 1.1 cd/lm 1 White	



SAMSU	ING	
LED	HiLOM RM16 Z (LH502C)	
FWHM / FWTM	Asymmetric	75 40 75
Efficiency	96 %	
Peak intensity	1.1 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	
Required compone		
i toquiroù compone		1000
		\times / \wedge \times
		2039
		- 12 ³ 0 ⁴ 25 ⁴ 30 ⁴
SAMSU	ING	94 ⁴
LED	HiLOM RM8 Z (LH502C)	
FWHM / FWTM	Asymmetric	75 40 75
Efficiency	96 %	
Peak intensity	1.2 cd/lm	60 ⁴ 00
LEDs/each optic	1	
Light colour	White	45° 3300 et
Required compone	nts:	
		100
		\times
		2009
		30 ⁴ 23 ⁵ 0 ⁶ 15 ⁴
Elektronik GmbH		
LED	LED-Pa-L15c2W11c2-xxx-C050-01	
FWHM / FWTM	Asymmetric	
Efficiency	96 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
SEOUL		
SEOUL SEMICONDUCTOR		90°
LED	Z5M3	
FWHM / FWTM	Asymmetric	72 60 772
Efficiency	94 %	ar 900 6.4
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	120
Light colour	White	er 100 er
Required compone	nts:	
		2000
		201 201
		<u>113</u> 0 13 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 compone	Z8Y22 Asymmetric 94 % 1.5 cd/lm 1 White nts:	5° 5° 5° 5° 5° 5° 5° 5° 5° 5°
TRIDON		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 2.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 94 % 2.2 cd/lm 1 White	200 90° 200



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Bridgelux SMD 5050 Asymmetric 86 % 1.1 cd/lm 1 White	20° 12° 0° 12° 20°
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 HE Asymmetric 87 % 1.5 cd/lm 1 White	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	XP-G3 Asymmetric 73 % 1.2 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON 3030 2D (Round LES) Asymmetric 76 % 1.4 cd/lm 1 White	10 ⁻¹ 10 ⁻¹ 10 ⁻¹ 10 ⁻¹



LUMILEC	DS	90'
LED	LUXEON 3030 2D (Round LES)	400
FWHM / FWTM	Asymmetric	75*
Efficiency	90 %	
Peak intensity	1.8 cd/lm	50 ⁴ 1200
LEDs/each optic	1	
Light colour	White	$X \times (T \times X)$
Required components:	White	45" 2000
Required components.		2430
		200
		3200
		30° 13° 5
	5	
		90* · · · · · · · · · · · · · · · · · · ·
LED	LUXEON 5050 Square LES	75%
FWHM / FWTM	Asymmetric	400
Efficiency	78 %	601
Peak intensity	1 cd/lm	800
LEDs/each optic	1	$\perp \times / / \top \setminus \times$
Light colour	White	45*
Required components:		1220
Protective plate		X X
Fiblective plat		1630
		30 ⁺ 35 ⁶ 0 ⁶ 15 ⁶ 3
	5	THY EH
LED	LUXEON HL2X	90* 9
		75 400
FWHM / FWTM	Asymmetric	75 40
Efficiency	Asymmetric 87 %	50° 400 50° 50°
Efficiency Peak intensity	Asymmetric 87 % 1.5 cd/lm	55° 400 55° 120
Efficiency Peak intensity LEDs/each optic	Asymmetric 87 % 1.5 cd/lm 1	50°
Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 87 % 1.5 cd/lm	50°
Efficiency Peak intensity LEDs/each optic	Asymmetric 87 % 1.5 cd/lm 1	50°
Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 87 % 1.5 cd/lm 1	50 ⁴ 109 47 109 47 109
Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 87 % 1.5 cd/lm 1	50° 1120 0 50° 1120 0 50° 1000 0 2000 0
Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 87 % 1.5 cd/lm 1	5° 152 5° 162 702
Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 87 % 1.5 cd/lm 1 White	5° 1229 5° 2029 2029 2029
Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 87 % 1.5 cd/lm 1 White	5° 1229 5° 2029 2029 2029
Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 87 % 1.5 cd/lm 1 White S LUXEON TX	50° 1222 60° 1222 300
Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 87 % 1.5 cd/lm 1 White S LUXEON TX Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency	Asymmetric 87 % 1.5 cd/lm 1 White S LUXEON TX Asymmetric 88 %	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 87 % 1.5 cd/lm 1 White V S LUXEON TX Asymmetric 88 % 1.7 cd/lm	50° 150 50° 200 50° 20
Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 87 % 1.5 cd/lm 1 White V S LUXEON TX Asymmetric 88 % 1.7 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: UED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 87 % 1.5 cd/lm 1 White V S LUXEON TX Asymmetric 88 % 1.7 cd/lm	50° 1139 50° 109 209 209 209 209 209 209 209 2
Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 87 % 1.5 cd/lm 1 White V S LUXEON TX Asymmetric 88 % 1.7 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contemponents: Contem	Asymmetric 87 % 1.5 cd/lm 1 White V S LUXEON TX Asymmetric 88 % 1.7 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 87 % 1.5 cd/lm 1 White V S LUXEON TX Asymmetric 88 % 1.7 cd/lm 1	



ΜΝΙCΗΙΛ		90*
LED	NV4WB35AM	195°
FWHM / FWTM	Asymmetric	75° 400 75
Efficiency	91 %	
-	91 % 1.3 cd/lm	50 ⁴ 80 65
Peak intensity		
LEDs/each optic	1 White	1220
Light colour Required components:	white	45* 45
Required components.		
		2490
		30° 15 ⁵ 0° 15° 30°
ΜΝΙCΗΙΛ		90* 90
LED	NV4WB35AM	2
FWHM / FWTM	Asymmetric	75° 400 773
Efficiency	76 %	
Peak intensity	1.1 cd/lm	.50 ⁴ 800
LEDs/each optic	1	
Light colour	White	45* 1220 45*
Required components:		\times
Deste stive alste		1699
Protective plate	, glass	
		20-
ØNICHI Λ		THA KHI
	NN/C1//2-/0A	90* 90*
LED FWHM / FWTM	NVSW3x9A	75° 400 755
	Asymmetric	
	89 %	50 80 60
Efficiency Peak intensity	89 % 1.4 cd/lm	900 (m ²)
Peak intensity LEDs/each optic	89 % 1.4 cd/lm 1	60 ⁴ 000 60 ⁴
Peak intensity LEDs/each optic Light colour	89 % 1.4 cd/lm	60°
Peak intensity LEDs/each optic	89 % 1.4 cd/lm 1	61 ⁴ 69 139 67 369 50 500
Peak intensity LEDs/each optic Light colour	89 % 1.4 cd/lm 1	6 ¹
Peak intensity LEDs/each optic Light colour	89 % 1.4 cd/lm 1	61
Peak intensity LEDs/each optic Light colour	89 % 1.4 cd/lm 1	200 200 200 200 200 200 60 40 200 60 60 60 60 60 60 60 60 60
Peak intensity LEDs/each optic Light colour	89 % 1.4 cd/lm 1	0 ⁵ <u>109</u> 0 ⁷ 209 309
Peak intensity LEDs/each optic Light colour Required components:	89 % 1.4 cd/lm 1	0 ⁵ 109 0 209 329
Peak intensity LEDs/each optic Light colour Required components:	89 % 1.4 cd/lm 1 White	0 ⁵ <u>109</u> 0 ⁷ 209 309
Peak intensity LEDs/each optic Light colour Required components:	89 % 1.4 cd/lm 1 White NVSW519A	0 ⁵ <u>109</u> 0 ⁷ 209 309
Peak intensity LEDs/each optic Light colour Required components:	89 % 1.4 cd/lm 1 White NVSW519A Asymmetric	0 ⁵ <u>109</u> 0 ⁷ 209 309
Peak intensity LEDs/each optic Light colour Required components:	89 % 1.4 cd/lm 1 White NVSW519A Asymmetric 82 %	0 ⁵ <u>109</u> 0 ⁷ 209 309
Peak intensity LEDs/each optic Light colour Required components:	89 % 1.4 cd/lm 1 White NVSW519A Asymmetric 82 % 1.1 cd/lm	
Peak intensity LEDs/each optic Light colour Required components:	89 % 1.4 cd/lm 1 White NVSW519A Asymmetric 82 % 1.1 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	89 % 1.4 cd/lm 1 White NVSW519A Asymmetric 82 % 1.1 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	89 % 1.4 cd/lm 1 White NVSW519A Asymmetric 82 % 1.1 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	89 % 1.4 cd/lm 1 White NVSW519A Asymmetric 82 % 1.1 cd/lm 1 White	



WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSW519A Asymmetric 89 % 1.2 cd/lm 1 White	9° 9° 9° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxE21A Asymmetric 90 % 1.9 cd/lm 1 White	99* 99* 99* 99* 99* 99* 99* 99*
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxx19B/NVSxx19C Asymmetric 90 % 1.5 cd/lm 1 White	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Duris S5 (2 chip) Asymmetric 91 % 1.9 cd/lm 1 White	30° 30° 30° 30° 30° 300 300 30° 30° 300 300 40° 90° 300 300 300 60° 60° 60° 1000 1000 60° 60° 60° 60° 60° 1000 1000 60°



OSRAM		THAT AFTI
Opto Semiconductors		90* 90*
	OSCONIQ P 3737 (2W version)	730 400 78°
FWHM / FWTM	Asymmetric	800
Efficiency	91 %	. 60 ⁴ 1200 60 ⁴
Peak intensity	1.8 cd/lm	$X \times / T \times X$
LEDs/each optic	1	1600
Light colour	White	45* 2000 45*
Required components:		2450
		30* 30*
OSRAM		15°
Opto Semiconductors		90 ^d 90 [*]
LED	OSCONIQ P 3737 Flat	226 400
FWHM / FWTM	Asymmetric	
Efficiency	88 %	50 ⁴ 0%
Peak intensity	1.6 cd/lm	X 120 X
LEDs/each optic	1	1690
Light colour	White	67
Required components:		2000
		2430
		30* 30*
		192 00 104
OSDAM		TXX VYI
OSRAM Opto Semiconductors		90* 90*
OSRAM Opto Semiconductors LED	OSLON Square CSSRM2/CSSRM3	8°
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3 Asymmetric	90° 92° 73° 609 72°
Opto Semiconductors		90° 90° 73° 609 90°
opto Semiconductors LED FWHM / FWTM	Asymmetric	90° 90° 90°
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 80 %	90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 80 % 1.4 cd/lm	10 ⁴ 90 60 ⁴
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 80 % 1.4 cd/lm 1	67* 60° 67*
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 80 % 1.4 cd/lm 1 White	6° - 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 1.4 cd/lm 1 White	6° - 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 80 % 1.4 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 80 % 1.4 cd/lm 1 White	6,* 000 6,* 120 45* 150 800
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors	Asymmetric 80 % 1.4 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED	Asymmetric 80 % 1.4 cd/lm 1 White e, glass OSLON Square Flat	000 000 000 000 000 000 000 000
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 80 % 1.4 cd/lm 1 White e, glass OSLON Square Flat Asymmetric	000 000 000 000 000 000 000 000 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 80 % 1.4 cd/lm 1 White e, glass OSLON Square Flat Asymmetric 93 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 80 % 1.4 cd/lm 1 White e, glass OSLON Square Flat Asymmetric 93 % 1.9 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 80 % 1.4 cd/lm 1 White e, glass OSLON Square Flat Asymmetric 93 % 1.9 cd/lm 1	000 120 150 150 150 150 150 150 150 15
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 1.4 cd/lm 1 White e, glass OSLON Square Flat Asymmetric 93 % 1.9 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 80 % 1.4 cd/lm 1 White e, glass OSLON Square Flat Asymmetric 93 % 1.9 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 1.4 cd/lm 1 White e, glass OSLON Square Flat Asymmetric 93 % 1.9 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 1.4 cd/lm 1 White e, glass OSLON Square Flat Asymmetric 93 % 1.9 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 1.4 cd/lm 1 White e, glass OSLON Square Flat Asymmetric 93 % 1.9 cd/lm 1	



OSRAM		
Opto Semiconductors	OSTAR Projection Compact (Kx.CSLNM1.xx)	90° 90°
FWHM / FWTM		720 600 751
Efficiency	Asymmetric 93 %	200
-	95 % 1.9 cd/lm	50* 1220 50'
Peak intensity LEDs/each optic	1.9 cu/im	1000
Light colour	u White	2000
Required components:	White	45* 457
Required components.		
		320
		30* 3500 15 ⁵ 0 ⁶ 13* 30*
PHILIPS		90°
LED	Fortimo FastFlex LED 2x8 DA G4	
FWHM / FWTM	Asymmetric	75%
Efficiency	91 %	80
Peak intensity	1.7 cd/lm	50° 1230 50°
LEDs/each optic	1	
Light colour	White	451 451
Required components:		
		2130
		2000
		30° 15 ⁵ 0 ⁶ 15° 30°
SAMSUN	IG	90°
LED	HILOM RH16 (LH351C)	
FWHM / FWTM	Asymmetric	73%
Efficiency	-, -, -	
	83 %	
-	83 % 1.3 cd/lm	60 ⁴ 800 60 ⁴
Peak intensity	83 % 1.3 cd/lm 1	
Peak intensity LEDs/each optic	1.3 cd/lm	120
Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1	120
Peak intensity LEDs/each optic Light colour Required components:	1.3 cd/lm 1 White	120
Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1 White	120
Peak intensity LEDs/each optic Light colour Required components:	1.3 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plat	1.3 cd/lm 1 White e, glass	5° (°) 1090 2090
Peak intensity LEDs/each optic Light colour Required components: Protective plat	1.3 cd/lm 1 White e, glass	2010 2010 2010 2010 2010 2010 2010 2010
Peak intensity LEDs/each optic Light colour Required components: Protective plat	1.3 cd/lm 1 White e, glass	
Peak intensity LEDs/each optic Light colour Required components:	1.3 cd/lm 1 White e, glass	2010 2010 2010 2010 2010 2010 2010 2010
Peak intensity LEDs/each optic Light colour Required components: Protective plat	1.3 cd/lm 1 White e, glass	
Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSUN LED FWHM / FWTM	1.3 cd/lm 1 White e, glass I G LH351B Asymmetric	
Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSUN LED FWHM / FWTM Efficiency	1.3 cd/lm 1 White e, glass LH351B Asymmetric 75 %	
Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSUC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1 White e, glass LH351B Asymmetric 75 % 1.2 cd/lm	
Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSUN LED FWHM / FWTM Efficiency Peak intensity	1.3 cd/lm 1 White e, glass LH351B Asymmetric 75 % 1.2 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSSUR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	1.3 cd/lm 1 White e, glass LH351B Asymmetric 75 % 1.2 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSUC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1 White e, glass LH351B Asymmetric 75 % 1.2 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSSUM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	1.3 cd/lm 1 White e, glass LH351B Asymmetric 75 % 1.2 cd/lm 1 White	



seous semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SEOUL DC 505 Asymmetric 90 % 1.1 cd/lm 1 White	0 6V		5°	
seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SEOUL DC 505 Asymmetric 78 % 1 cd/lm 1 White	0 6V		6°	
Protective plate	e, glass			30° 10° 100	15*
seoul semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Z8Y22 Asymmetric 78 % 1.3 cd/lm 1 White			90° 100 100 100 100 100 100 100 1	
Protective plate	e, glass			2000 2010 2010	10×



PRODUCT DATASHEET C15962 STRADA-2X2-FS3

GENERAL INFORMATION:

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

MATERIALS:

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