

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.

SPECIFICATION:

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



MATERIALS:

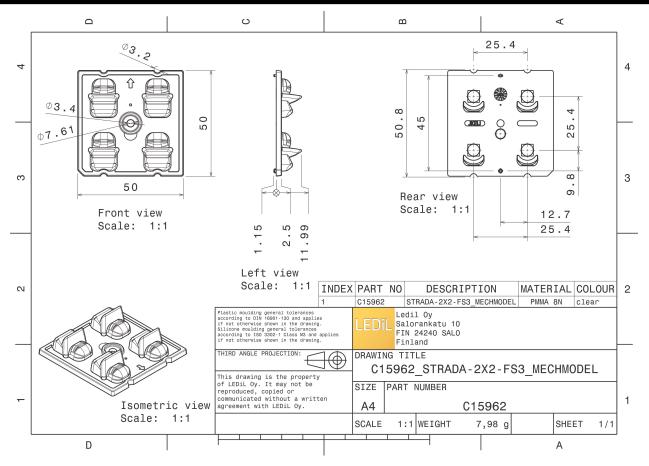
Component	Туре	Material	Colour	Finish
STRADA-2X2-FS3	Multi-lens	PMMA	clear	

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				



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



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	QUICK FLUX XTP 2x4 xxx LS G5 Asymmetric 94 % 1.7 cd/lm 1 White hts:	20 20 20 20 20 20 20 20 20 20
EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	QUICK FLUX XTP 2x6 xxx LS G5 Asymmetric 94 % 1.7 cd/lm 1 White nts:	5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹
CREE LED FWHM / FWTM Efficiency Peak intensity	XD16 Asymmetric 91 % 2.1 cd/m	203 33" 25" 260 15" 30" 39" 19" 19" 19" 19" 19" 19" 19
LEDs/each optic Light colour Required component	1 White hts:	
LEDS FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XD16 Asymmetric 94 % 1.1 cd/m 4 White nts:	



LED	XP-G2	
FWHM / FWTM	Asymmetric	75* 400 78*
Efficiency	94 %	000
Peak intensity	2 cd/lm	.60 ⁴ 60 ⁴
		X
LEDs/each optic	1	1690
Light colour	White	6° 6° 6°
Required componer	IS:	200
		30° 2300 30° 30° 30°
		90* 90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	400 70
Efficiency	94 %	. 60 ⁴ 890 60 ⁴
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	1220
Light colour	White	6° 61
Required componer	ts:	1600
		X
		24,00
		123 04 124 04
	EDS	90* 90*
LED	LUXEON V	
FWHM / FWTM	Asymmetric	73* 400 77*
FWHM / FWTM Efficiency	Asymmetric 94 %	
Efficiency	94 %	
Efficiency Peak intensity	94 % 1.3 cd/lm	-5°
Efficiency Peak intensity LEDs/each optic	94 % 1.3 cd/lm 1 White	300
Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.3 cd/lm 1 White	300
Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.3 cd/lm 1 White	00
Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.3 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.3 cd/lm 1 White tts:	120
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.3 cd/lm 1 White tts:	89
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.3 cd/lm 1 White tts: EDS	6°
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.3 cd/lm 1 White ts: EDS LUXEON V2	89
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.3 cd/lm 1 White tts: EDS LUXEON V2 Asymmetric	99 45' 122 102 102 102 102 102 102 102
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.3 cd/lm 1 White tts: EDS LUXEON V2 Asymmetric 94 %	
Efficiency Peak intensity LEDs/each optic Light colour Required componer ULUNIL LED FWHM / FWTM Efficiency Peak intensity	94 % 1.3 cd/lm 1 White tts: EDS LUXEON V2 Asymmetric 94 % 1.8 cd/lm	99 67 109 109 109 109 109 109 109 109
Efficiency Peak intensity LEDs/each optic Light colour Required componer ULED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 1.3 cd/lm 1 White tts: EDS LUXEON V2 Asymmetric 94 % 1.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required componer UED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.3 cd/lm 1 White tts: EDS LUXEON V2 Asymmetric 94 % 1.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componer ULUNI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 1.3 cd/lm 1 White tts: EDS LUXEON V2 Asymmetric 94 % 1.8 cd/lm 1 White	200 200 200 200 200 200 200 200
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.3 cd/lm 1 White tts: EDS LUXEON V2 Asymmetric 94 % 1.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.3 cd/lm 1 White tts: EDS LUXEON V2 Asymmetric 94 % 1.8 cd/lm 1 White	200 200 200 200 200 200 200 200



MST Your soluti	ons	
	Real ED 400/E0mm 4000lm 720.0/4 Oct 04	90* 90*
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	75 400 75:
FWHM / FWTM	Asymmetric	
Efficiency	95 %	50° 50°
Peak intensity	2 cd/lm	1200
LEDs/each optic	1	$X \times I \times X$
Light colour	White	45° 45°
Required componer	nts:	200
		2000
		000
		2000
		15° 0° 15° 30
ØNICHIA		
LED	NVSW219F	195- 195-
FWHM / FWTM	Asymmetric	75 400 751
Efficiency	94 %	200
		60 ⁴ 694
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	1000
Light colour	White	47 G1
Required componer	nts:	2000
		2000
		30° 30°
Mauguna		
ØNICHI		90* 90*
LED	NVSW319B	
FWHM / FWTM	Asymmetric	75* 400 75*
Efficiency	94 %	200
Peak intensity	1.6 cd/lm	60* 60*
LEDs/each optic	1	1200
Light colour	White	45* 1600 45*
Required componer	nts:	
		200
		2400
		30° 15 ² 2890 13° 30°
OSRAM		
Opto Semiconductors		90* 90*
	Duris S8	75
FWHM / FWTM	Asymmetric	400
Efficiency	94 %	504
Peak intensity	1.1 cd/lm	80
LEDs/each optic	1	
Light colour	White	45* 1200 45*
Required componer	nts:	
		1000
		\times / \times /
		30° 2000 30°
		30° 30° 30° 30°



OSRAM Opto Semiconductors		90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	751 400 751
Efficiency	92 %	800
Peak intensity	2 cd/lm	.60*
LEDs/each optic	1	1200
Light colour	White	45* 1500 45*
Required componer		
		2000
		2400
		30° 2300 30° 30° 30°
OSRAM		
Opto Semiconductors	OSLON Square PC	90* 90*
FWHM / FWTM		75* 400 75*
Efficiency	Asymmetric 93 %	
Peak intensity	1.9 cd/lm	.63* <u>000</u> 60*.
LEDs/each optic	1	X 1200 X
Light colour	White	45" 1000 45"
Required componer		45* 1600 45*
Trequired componer	lo.	2000
		2400
		30° 13 ³ 2890 15° 30°
PHILIP	2	THAN KHT
		90* 90*
LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G4+	75* 400 75*
Efficiency	Asymmetric 95 %	
Peak intensity	1.5 cd/lm	.60° 800 60°.
LEDs/each optic	1	1200
Light colour	White	
Required componer		1600
		2000
		\times
		2430
		30° 13° 30°
PHILIP	S	THA VHI
		90* 90*
	Fortimo FastFlex LED 2x8 DA G5	75* 400 75*
FWHM / FWTM	Asymmetric	30
Efficiency	95 %	60*
Peak intensity	2 cd/lm	1200
LEDs/each optic	1 White	1000
Light colour	White	45°
Required componer	IS.	
		2400
		200
		30° 15° 5850 15° 30°



PHILIP	DS	50° 50°
LED	Fortimo FastFlex LED 2x8 DAX G4	
FWHM / FWTM	Asymmetric	751 400 761
Efficiency	94 %	
Peak intensity	1.5 cd/lm	60 ⁴ 800 60 ⁴
LEDs/each optic	1	1200
Light colour	White	67 65
Required compone	nts:	1500
		\times
		30° 115 00 117° 30°
<u>รлмรเ</u>		112 ⁵ 0 ⁶ 112 ⁵
		90° 90°
LED	HiLOM RC12 Z (LH181B)	400
FWHM / FWTM	Asymmetric	
Efficiency	94 %	a)* 000 60*
Peak intensity	2.1 cd/lm	1200
LEDs/each optic	1	$X \times (\land X \times$
Light colour	White	45* 1600 45*
Required compone	nts:	200
		2430
		30° 2300 30° 30° 30°
0.0.0.0.		
SANSI	ING	
SAMSU		50°
LED	HiLOM RH16 (LH351C)	50° 50°
LED FWHM / FWTM	HiLOM RH16 (LH351C) Asymmetric	
LED FWHM / FWTM Efficiency	HiLOM RH16 (LH351C) Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White	00 01 01 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White	00 01 01 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White	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 Required compone	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White nts:	00 01 01 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HILOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HILOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 1.6 cd/lm 1 White nts:	



SAMSU	JNG	90* 9t
LED	HILOM RM12 Z (LH502C)	E C
FWHM / FWTM	Asymmetric	77* 400
Efficiency	95 %	
Peak intensity	1.1 cd/lm	. 60°
LEDs/each optic	1	
Light colour	White	45* 1200
Required componer	nts:	
		1600
		X X
		2000
SAMSU		
		90* 90
LED	HiLOM RM16 Z (LH502C)	
FWHM / FWTM	Asymmetric	400
Efficiency	96 %	.60°
Peak intensity	1.1 cd/lm	800
LEDs/each optic	1	
Light colour	White	.65* 1220 65
Required componer	nts:	
		1600
		30° 2000 30° 13 ⁵ 0° 15° 30
SAMSU	ING	IN M
		90" 90"
IED		
LED EWHM / EWTM	HiLOM RM8 Z (LH502C)	79
FWHM / FWTM	Asymmetric	29- 400 M
FWHM / FWTM Efficiency	Asymmetric 96 %	
FWHM / FWTM Efficiency Peak intensity	Asymmetric 96 % 1.2 cd/lm	295 600 77 60 ⁵ 000 60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 96 % 1.2 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 1.2 cd/lm 1 White	29 40 77 65 80 60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 96 % 1.2 cd/lm 1 White	23 40 77 65 00 67 1220 C
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 1.2 cd/lm 1 White	39 60 ⁴ 00 ⁴ 00 ⁴ 120 00 00 00 00 00 00 00 00 00 00 00 00 0
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 1.2 cd/lm 1 White	29 00 ³ 00 ³ 00 ³ 150 150 150 150 150 150 150 150
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 96 % 1.2 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 96 % 1.2 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 96 % 1.2 cd/lm 1 White nts:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 96 % 1.2 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 96 % 1.2 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 96 % 1.2 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 96 %	90 100 100 100 100 100 100 100 1
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen Efficiency Peak intensity	Asymmetric 96 % 1.2 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 96 % 2.1 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen Electronic GmbH LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 96 % 1.2 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 96 % 2.1 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component Electronic Combinent LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 1.2 cd/lm 1 White hts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 96 % 2.1 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	Asymmetric 96 % 1.2 cd/lm 1 White hts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 96 % 2.1 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component Electronic Combinent LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 1.2 cd/lm 1 White hts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 96 % 2.1 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component Electronic Combinent LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 1.2 cd/lm 1 White hts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 96 % 2.1 cd/lm 1 White	



SEOUL SEMICONDUCTOR	Z5M3	97°
FWHM / FWTM	Asymmetric	75* 400 75*
Efficiency	94 %	
	94 /0 1.6 cd/lm	50* 800 6µ*
Peak intensity		
LEDs/each optic	1	1220
Light colour	White	a5° 45°
Required compone	nts:	200
		30° 15° 30°
LED	Z8Y22	
FWHM / FWTM	Asymmetric	72* 400 72*
Efficiency	94 %	
Peak intensity	1.5 cd/lm	.50 ⁴ 800 60 ⁴ .
LEDs/each optic	1	
Light colour	White	1200
Required compone		
Required compone		1600
		\times / \top / \times
		2000
		30° 15° 0° 15°
TRIDON		
LED	RLE 2x4 2000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	2.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
TRIDON		
LED	RLE 2x8 4000lm HP EXC2 OTD	20°
FWHM / FWTM	Asymmetric	75* 400 75*
Efficiency	Asymmetric 94 %	200
-		60° 601
Peak intensity	2.2 cd/lm	120
LEDs/each optic	1 White	1600
Light colour	White	
Required compone	nis:	
		2000
		200
		30 ¹ 20 ¹ 20 ¹ 30 ¹



bridgelux. LED	Bridgelux SMD 5050	N*
FWHM / FWTM	Asymmetric	73%
Efficiency	86 %	
Peak intensity	1.1 cd/im	.60 ⁴ 60 ⁴ .
LEDs/each optic	1	
Light colour	White	
Required components:		1200 49"
		1630
		30* 2000 30* 30*
		90° 90°
LED	XP-G2 HE	the state
FWHM / FWTM	Asymmetric	750 400 724
Efficiency	87 %	30
Peak intensity	1.5 cd/lm	1220
LEDs/each optic	1	$X \times T \times X$
Light colour	White	45° 1600 45°
Required components:		2000
		2630
		30* 2200 30* 30*
	XP-G3	90° 80°
LED	XP-G3 Asymmetric	27 ⁴ 400 75 ⁴
LED FWHM / FWTM	Asymmetric	90 ⁻ 13 ³ 00 72.
LED FWHM / FWTM Efficiency	Asymmetric 73 %	90° - 90° - 90° - 70°. 60° - 60° - 60°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric	73 ⁴ 05 61 ⁴ 09 60 ⁴ 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 73 % 1.2 cd/lm	75"
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 73 % 1.2 cd/lm 1	23° 400 75°. 65° 800 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 73 % 1.2 cd/lm 1 White	73° 00 72° 60° 000 60° 60° 000 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 73 % 1.2 cd/lm 1 White	23 ¹ 00 72 61 ⁴ 00 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 73 % 1.2 cd/lm 1 White	73° 00 72° 60° 000 60° 60° 000 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 73 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 73 % 1.2 cd/lm 1 White	23 ³ 400 72. 60 ⁴ 800 60 ⁴ 67 1220 67 67 1220 67 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 73 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 73 % 1.2 cd/lm 1 White a, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 73 % 1.2 cd/lm 1 White e, glass XP-L2 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 73 % 1.2 cd/lm 1 White 2, glass XP-L2 Asymmetric 72 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 73 % 1.2 cd/lm 1 White e, glass XP-L2 Asymmetric 72 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 73 % 1.2 cd/lm 1 White e, glass XP-L2 Asymmetric 72 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 73 % 1.2 cd/lm 1 White xP-L2 Asymmetric 72 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 73 % 1.2 cd/lm 1 White xP-L2 Asymmetric 72 % 1 cd/lm 1 White	



LED	XP-L2	
FWHM / FWTM	Asymmetric	73° 400 78°
Efficiency	86 %	
Peak intensity	1.2 cd/lm	. 60 ⁴ 800 601
LEDs/each optic	1	
Light colour	White	1230
Required components:	wille	det det
required components.		1600
		2000
		$X \rightarrow X$
		30* <u>13⁵ 26⁵⁰ 15*</u> 30*
	XP-P	90* 90*
LED FWHM / FWTM		720 400 750
Efficiency	Asymmetric 76 %	
Peak intensity	1.9 cd/lm	50 ⁴ 1200 50 ⁴
LEDs/each optic	1	
Light colour	White	
Required components:	Wille	49
Required components.		2430
Protective plate	, glass	2800
		3200
		304 3050 304
1		/30° 3650 30° 30°
	S	12 ² 0 ² 13 ²
		25 ⁵ 0 ⁵ 15 ⁵
LED	LUXEON 3030 2D (Round LES)	25° 0° 25° 30° 0° 25° 30° 0° 25°
LED FWHM / FWTM	LUXEON 3030 2D (Round LES) Asymmetric	50°
LED FWHM / FWTM Efficiency	LUXEON 3030 2D (Round LES) Asymmetric 90 %	90° 175° 400 75°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm	91 193 193 194 199 199 199 199 199 199 199 199 199
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm	91 193 193 194 199 199 199 199 199 199 199 199 199
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1	23
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1	5° 200 6° C
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1	51 ⁴ 50 50 ⁴ 50 50 ⁴ 50 50 ⁴ 50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 76 %	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 76 % 1.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 76 % 1.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 76 % 1.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 76 % 1.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / EVTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 76 % 1.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 76 % 1.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / EVIN Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 90 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 76 % 1.4 cd/lm 1 White	



UMILEI	DS	90 ⁺ 90
LED	LUXEON 5050 HE	200
FWHM / FWTM	Asymmetric	700
Efficiency	75 %	
Peak intensity	1 cd/lm	60 60 60
LEDs/each optic	1	
Light colour	White	457 1000 45
Required components:		1230
Protective plat	e, glass	1600
		30 ² 15 ³ 0 ³ 15 ⁴ 30 ⁴
	DS	90° 90
LED	LUXEON 5050 Round LES	a l
FWHM / FWTM	Asymmetric	73* 400 75
Efficiency	75 %	
Peak intensity	1.1 cd/lm	50 ⁴ 000 60
LEDs/each optic	1	
Light colour	White	45° 1200 45
Required components:		X/T/X
Protective plat	e, glass	1600
		30* <u>15</u> ⁵ <u>0</u> ⁶ <u>15</u> [*] <u>30</u> *
UMILEI	DS	90° 90°
	LUXEON 5050 Round LES	50° - 50'
		90* 17* 17* 100 100
LED	LUXEON 5050 Round LES	20 ¹
LED FWHM / FWTM	LUXEON 5050 Round LES Asymmetric	
LED FWHM / FWTM Efficiency	LUXEON 5050 Round LES Asymmetric 75 %	90° 73° 60° 60° 60° 60° 60° 60° 60° 60
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White e, glass	90 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White	00 6* 120 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White e, glass	20 20 20 20 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White e, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White e, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat Why Protective plat ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White e. glass CS LUXEON 5050 Square LES Asymmetric 78 %	90 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat WIM / EVTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White e. glass CS LUXEON 5050 Square LES Asymmetric 78 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat WIM / Efficiency Peak intensity	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White e. glass S LUXEON 5050 Square LES Asymmetric 78 % 1 cd/lm 1	90 100 100 100 100 100 100 100 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat WIM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White S LUXEON 5050 Square LES Asymmetric 78 % 1 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 components: Protective plat WIM / EVTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES Asymmetric 75 % 1.1 cd/lm 1 White S LUXEON 5050 Square LES Asymmetric 78 % 1 cd/lm 1 White	



UMILE	DS	50
LED	LUXEON 5050 Square LES	12
FWHM / FWTM	Asymmetric	P.0.
Efficiency	87 %	
Peak intensity	1.1 cd/lm	-00
LEDs/each optic	1	
Light colour	White	47 1220
Required components:		
		1600
		2009
)S	
LED	LUXEON HL2X	
FWHM / FWTM	Asymmetric	750 400
Efficiency	87 %	200
Peak intensity	1.5 cd/lm	505
LEDs/each optic	1	1230
Light colour	White	45" 1000
Required components:		
		2017
		240
		2000
		100° 12° 0° 12° 3
UMILE)S	92
LED	LUXEON HL2X-D	e a
FWHM / FWTM	Asymmetric	73%
Efficiency	92 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	1200
Light colour	White	45° 1000
Required components:		\times
		200
		2030
		30* 15 ⁵
)S	51
LED	LUXEON HL2X-D	a de la companya de
FWHM / FWTM	Asymmetric	729. 400
Efficiency	76 %	
Peak intensity	1.1 cd/lm	50*
LEDs/each optic	1	
Light colour	White	
Required components:		\times / \wedge \times
Protective plat	a class	107
i toteotive plat	5, giuco	



-		
MUMILED 🖉)S	90* 90*
LED	LUXEON HL2X-P	N N
FWHM / FWTM	Asymmetric	75° 400 75°
Efficiency	87 %	
Peak intensity	1.3 cd/lm	634
LEDs/each optic	1	1220
Light colour	White	
Required components:		1630
		XIIX
		2430
		30° 15° 30°
	95	90* 90*
LED	LUXEON TX	
FWHM / FWTM	Asymmetric	736 400 70°
Efficiency	88 %	810
Peak intensity	1.7 cd/lm	50° 1230 60°.
LEDs/each optic	1	1000
Light colour	White	45' X X
Required components:		
		2000
		200
		3230
		30° 15° 30°
UMILED	S S	90* 90*
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	R A
FWHM / FWTM	Asymmetric	75° 400 70°
Efficiency	92 %	
Efficiency Peak intensity	92 % 1.4 cd/m	50* 80
Peak intensity	92 % 1.4 cd/lm 1	60 ⁴ 200 60 ⁴
Peak intensity LEDs/each optic	1.4 cd/lm 1	
Peak intensity LEDs/each optic Light colour	1.4 cd/lm	
Peak intensity LEDs/each optic	1.4 cd/lm 1	
Peak intensity LEDs/each optic Light colour	1.4 cd/lm 1	
Peak intensity LEDs/each optic Light colour	1.4 cd/lm 1	67 <u>109</u> 67 <u>309</u> <u>309</u>
Peak intensity LEDs/each optic Light colour Required components:	1.4 cd/lm 1 White	57 <u>109</u> 67 <u>309</u> 219
Peak intensity LEDs/each optic Light colour Required components:	1.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	1.4 cd/lm 1 White	57 <u>109</u> 67 <u>309</u> 219
Peak intensity LEDs/each optic Light colour Required components:	1.4 cd/lm 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric	84 104 203 203 90 103 103 61
Peak intensity LEDs/each optic Light colour Required components:	1.4 cd/lm 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 76 %	84 104 203 203 90 103 103 61
Peak intensity LEDs/each optic Light colour Required components: CONTINUED LED FWHM / FWTM Efficiency Peak intensity	1.4 cd/m 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 76 % 1.1 cd/m	
Peak intensity LEDs/each optic Light colour Required components: Very LUMILED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1.4 cd/lm 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 76 % 1.1 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: WIM / EUNILED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.4 cd/m 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 76 % 1.1 cd/m	
Peak intensity LEDs/each optic Light colour Required components: Very LUMILED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1.4 cd/lm 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 76 % 1.1 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Weak Description Efficiency Peak intensity LEDs/each optic Light colour Required components:	1.4 cd/m 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 76 % 1.1 cd/m 1 White	
Peak intensity LEDs/each optic Light colour Required components: WIM / EUNILED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.4 cd/m 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 76 % 1.1 cd/m 1 White	



ΜΝΙCΗΙΛ		90* 90*
LED	NF2x757G	
FWHM / FWTM	Asymmetric	75° 400 75°
Efficiency	68 %	
Peak intensity	1.3 cd/lm	60° /
LEDs/each optic	1	1220
Light colour	White	45° 45'
Required components:		1650
C17580_STRADA-2X	2-SHD-WHT	
Drata stirra allata		
Protective plate	, giass	30" 2400 30" 13 ⁵ 0" 15" 30"
MNICHIA		90* 90*
LED	NF2x757G	
FWHM / FWTM	Asymmetric	75° 400 78°
Efficiency	76 %	art
Peak intensity	1.5 cd/lm	60"
LEDs/each optic	1	12200
Light colour	White	45° 1600 45°
Required components:		
Protective plate		2000
Protective plate	, glass	2430
		30* 30*
1		15 ⁵ 2850 15*
Μ ΝΙCΗΙΛ		25 ³ 360 15°
	NV4WB35AM	25° 380 13°
NICHIA LED FWHM / FWTM	NV4WB35AM Asymmetric	25° 280 15° 28° 25°
LED FWHM / FWTM	NV4WB35AM Asymmetric 76 %	20 ² 200 10 ²
LED FWHM / FWTM Efficiency	Asymmetric	20 ³ 200 10 ⁴
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 76 %	20 ² 200 10 ²
LED FWHM / FWTM Efficiency	Asymmetric 76 % 1.1 cd/m	20° 200 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 76 % 1.1 cd/lm 1	25 ³ 260 13 ⁴ 90 ⁴ 00 90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 76 % 1.1 cd/lm 1 White	50° 100 50° 100 50° 100 50° 100 50° 00 50° 00 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 76 % 1.1 cd/lm 1 White	10 ² 10 ² 10 ² 10 ² 10 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 76 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 76 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 76 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 76 % 1.1 cd/lm 1 White , glass NV4WB35AM	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 76 % 1.1 cd/lm 1 White , glass NV4WB35AM Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 76 % 1.1 cd/lm 1 White e, glass NV4WB35AM Asymmetric 91 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 76 % 1.1 cd/lm 1 White p. glass NV4WB35AM Asymmetric 91 % 1.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 76 % 1.1 cd/lm 1 White p. glass NV4WB35AM Asymmetric 91 % 1.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 76 % 1.1 cd/lm 1 White p. glass NV4WB35AM Asymmetric 91 % 1.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 76 % 1.1 cd/lm 1 White p. glass NV4WB35AM Asymmetric 91 % 1.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 76 % 1.1 cd/lm 1 White p. glass NV4WB35AM Asymmetric 91 % 1.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 76 % 1.1 cd/lm 1 White p. glass NV4WB35AM Asymmetric 91 % 1.3 cd/lm 1	



N. N			
ED NVSWS19A WMM / FVTM Asymmetric fidency 09% Fask intensity 1.4 cdt/m EDs/sach.opic 1 ight colour White Required components:	ØNICHIA		
WHM FWTM Asymmetric fiftieincy 89 % exaitantiaty 1.4 ddfm Eblicatory 0.9 % tequired components: Image: Control of the set of th		NI//SW/3×0A	No. No.
ifficiency 83% reak intensity 1.4 cd/m Ebe/sach opic 1 ight colour White Equiled components:			73% 400 73%
reak intensity 1.4 od/m EDs/each optic 1 igit colour White tequited components:			
EDvsach optic 1 ight colour White tequired components: ED NVSW519A WMW /FWTM Asymmetric ifficiency 82 % teak intensity 1.1 cd/m EDvsach optic 1 ight colour White tequired components: Protective plate, glass ED NVSW519A WMM /FWTM Asymmetric ifficiency 99 % teak intensity 1.2 cd/m EDs/sach optic 1 ight colour White tequired components: ED NVSW519A WMM /FWTM Asymmetric ifficiency 99 % teak intensity 1.9 cd/m EDs/sach optic 1 ight colour White tequired components: ED NVSW519A WMM /FWTM Asymmetric ifficiency 99 % teak intensity 1.9 cd/m ED Stach optic 1 ight colour White tequired components: ED NVSW519A WMM /FWTM Asymmetric ifficiency 90 % teak intensity 1.9 cd/m ED Stach optic 1 ight colour White tequired components:	-		50° 800 60°.
ight colour White Required components: ED NVSW519A WHM / FWTM Asymmetric Hitiaeny 22% Yeak Intensity 1.1 c0/In EDs/ach optic 1 ight colour White Required components: Protective plate, glass Protective plate, glass Protectiv			1200
Required components:			\times \times $/$ \top \times \times \times
ED NVSW519A WHM / FWTM Asymmetric tifticiency 82 % teak intensity 1.1 cd/m ED/scale 1.1 cd/m ED		vvnite	45°
Image: Control of the symmetric difficiency NVSW519A WHM /FWTM Asymmetric difficiency 8.2 % Weak intensity 1.1 cd/m Ebs/sach optic 1 ight colour White Required components: Image: Control of the symmetric difficiency Protective plate, glass Image: Control of the symmetric difficiency WHM /FWTM Asymmetric difficiency BDs/sach optic 1 ight colour White Reak intensity 1.2 cd/m Ebs/sach optic 1 ight colour White Required components: Image: Control of the symmetric difficiency Ifficiency 89 % Reak intensity 1.2 cd/m Ebs/sach optic 1 ight colour White Required components: Image: Control of the symmetric difficiency ight colour 90 % Yeak intensity 1.9 cd/m EDs/sach optic 1 ight colour White Yeak intensity 1.9 cd/m EDs/sech optic 1 ight colour White	Required components:		
Image: Control of the symmetric difficiency NVSW519A WHM /FWTM Asymmetric difficiency 8.2 % Weak intensity 1.1 cd/m Ebs/sach optic 1 ight colour White Required components: Image: Control of the symmetric difficiency Protective plate, glass Image: Control of the symmetric difficiency WHM /FWTM Asymmetric difficiency BDs/sach optic 1 ight colour White Reak intensity 1.2 cd/m Ebs/sach optic 1 ight colour White Required components: Image: Control of the symmetric difficiency Ifficiency 89 % Reak intensity 1.2 cd/m Ebs/sach optic 1 ight colour White Required components: Image: Control of the symmetric difficiency ight colour 90 % Yeak intensity 1.9 cd/m EDs/sach optic 1 ight colour White Yeak intensity 1.9 cd/m EDs/sech optic 1 ight colour White			
Image: Control of the symmetric sym			2430
ED NVSW519A WHM / FVTM Asymmetric ficiency 89 % Posk intensity 1.1 cd/m ED NVSW519A White tequired components: Protective plate, glass Protective plate, glass Protective pl			30* 15 ² 0° 15 ² 30 ⁴
ED NVSW519A WHM / FVTM Asymmetric ficiency 89 % Posk intensity 1.1 cd/m ED NVSW519A White tequired components: Protective plate, glass Protective plate, glass Protective pl	ØNICHIA		
WHM / FWTM Asymmetric Ifficiency 82 % reak intensity 1.1 cd/m EDs/each optic 1 ight colour White Required components: Protective plate, glass Image: Components: Protective plate, glass Image: Components: Image: Components: Image: C		NI/SW/519A	
ifficiency 82 % Yeak intensity 1.1 cd/m EbS/each optic 1 ight colour White Ecquired components: Protective plate, glass Protective plate, gl			Ac Ac
Peak intensity 1.1 cd/m EDs/each optic 1 ight colour White Eugured components: Protective plate, glass			
EDs/each optic 1 ight colour White tequired components: Protective plate, glass Protective p			. 50 ⁴ 50 ⁴
ight colour White tequired components: Protective plate, glass Protective plate, glass Prote			$\times//$
Required components: Protective plate, glass Protective plate, glass			
Protective plate, glass		Wille	45*
ED NVSW519A WHM / FWTM Asymmetric ifficiency 89 % reak intensity 1.2 cd/m ED/ Mite tequired components: Image: Component State St	Required components.		1000
ED NVSW519A WHM / FWTM Asymmetric ifficiency 89 % reak intensity 1.2 cd/m ED/ Mite tequired components: Image: Component State St	Protective plate	, glass	\times / T / \times
ED NVSW519A WHM / FWTM Asymmetric ifficiency 89 % Peak intensity 1.2 cd/lm EDs/each optic 1 ight colour White Required components: Image: Component is is in the image: Component is image			2000
ED NVSW519A WHM / FWTM Asymmetric ifficiency 89 % Peak intensity 1.2 cd/lm EDs/each optic 1 ight colour White Required components: VSXE21A WHM / FWTM Asymmetric ifficiency 90 % Peak intensity 1.9 cd/lm ED colour 1 ight colour White			30° 15° 0° 15° 30°
ED NVSW519A WHM / FWTM Asymmetric ifficiency 89 % Peak intensity 1.2 cd/lm EDs/each optic 1 ight colour White Required components: VSXE21A WHM / FWTM Asymmetric ifficiency 90 % Peak intensity 1.9 cd/lm ED colour 1 ight colour White	Μ ΝΙCΗΙΛ		90*
WHM / FWTM Asymmetric ifficiency 89 % Peak intensity 1.2 cd/lm EDs/each optic 1 ight colour White Required components: Image: Component State	LED	NVSW519A	A A A A A A A A A A A A A A A A A A A
ifficiency 89 % Peak intensity 1.2 cd/lm EDs/each optic 1 ight colour White Required components: Image: Component State Stat			73° 400 73°
Peak intensity 1.2 cd/lm EDs/each optic 1 ight colour White Required components: ED NVSxE21A WHM / FWTM Asymmetric ifficiency 90 % Peak intensity 1.9 cd/lm EDs/each optic 1 ight colour White Required components:			
EDs/each optic 1 ight colour White Required components: ED NVSxE21A WHM / FWTM Asymmetric ifficiency 90 % Peak intensity 1.9 cd/lm EDs/each optic 1 ight colour White Required components:			.60* 60* 60*
ight colour White Required components: White ED NVSxE21A WHM / FWTM Asymmetric Efficiency 90 % Peak intensity 1.9 cd/lm EDs/each optic 1 ight colour White Required components:			
Required components:			
ED NVSxE21A WHM / FWTM Asymmetric Efficiency 90 % Peak intensity 1.9 cd/lm EDS/each optic 1 ight colour White Required components:			
ED NVSxE21A WHM / FWTM Asymmetric Efficiency 90 % Peak intensity 1.9 cd/lm EDs/each optic 1 Light colour White Required components:			X X
LED NVSxE21A WHM / FWTM Asymmetric Efficiency 90 % Peak intensity 1.9 cd/lm EDS/each optic 1 .ight colour White Required components:			2000
LED NVSxE21A WHM / FWTM Asymmetric Efficiency 90 % Peak intensity 1.9 cd/lm EDS/each optic 1 .ight colour White Required components:			
ED NVSxE21A WHM / FWTM Asymmetric Efficiency 90 % Peak intensity 1.9 cd/lm EDS/each optic 1 Light colour White Required components:			30* 2400 30* 30* 15 ⁵ 0 ⁶ 15*
ED NVSxE21A WHM / FWTM Asymmetric Efficiency 90 % Peak intensity 1.9 cd/lm EDS/each optic 1 Light colour White Required components:	ΜΝΙCΗΙΛ		
WHM / FWTM Asymmetric Stricency 90 % Peak intensity 1.9 cd/lm EDs/each optic 1 ight colour White Required components:		NV/SxE21A	
Efficiency 90 % Peak intensity 1.9 cd/lm EDs/each optic 1 ight colour White Required components:			75° 400 77°
Peak intensity 1.9 cd/lm EDs/each optic 1 ight colour White Required components:			
EDs/each optic 1 ight colour White Required components:			50 ⁴
ight colour White Required components:			X X ISSO X X
Required components:			
30		THE STREET	
			240
370			200
			3290
20° 20 0° 20°	1		30*



Μ ΝΙCΗΙΛ		
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM		720 400 720
	Asymmetric	
Efficiency	90 %	60 ⁴ 800
Peak intensity	1.5 cd/lm	X X X
LEDs/each optic	1	$\times \times / \times \times $
Light colour	White	45°
Required components:		2000
		2000
		200
		30° 15° 30°
OSRAM Opto Semiconductors		
LED	Duris S5 (2 chip)	
		75° 400 75°
FWHM / FWTM	Asymmetric	800
Efficiency	91 %	50 ⁴ 1230 50 ⁴
Peak intensity	1.9 cd/lm	$X \times I \to X \times I$
LEDs/each optic	1	
Light colour	White	45° 2000 65*
Required components:		2430
		30* 30*
		10° 10° 50°
OSRAM		
Opto Semiconductors		50°
Opto Semiconductors	OSCONIQ P 3737 (2W version)	90° - 90° - 90°
Opto Semiconductors LED FWHM / FWTM	Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 91 %	73 000 72
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 1.8 cd/lm	23 40 72 72 72 72 72 72 72 72 72 72 72 72 72
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 1.8 cd/lm 1	73 000 72
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 1.8 cd/lm	23 40 72 72 72 72 72 72 72 72 72 72 72 72 72
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 1.8 cd/lm 1	60 00 72 00 00 72 00 00 72 00 00 00 00 00 00 00 00 00 00 00 00 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 1.8 cd/lm 1	201 000 720 000 000 000 000 000 000 000 000 000
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 1.8 cd/lm 1	5° 00 6° 6° 6° 6° 6° 6° 6° 6° 6°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 1.8 cd/lm 1	201 00 00 00 00 00 00 00 00 00 00 00 00 0
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 1.8 cd/lm 1	23 - 00 - 20 60 - 00 60 - 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 1.8 cd/lm 1	200 60° 60° 1220 60° 1220 60° 60° 60° 60° 60° 60° 60° 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 1.8 cd/lm 1 White	200 60° 1222 50° 1622 50° 1622 50° 2029 2029 300 50° 2029 300 300 50° 300 50° 300 50° 50° 50° 50° 50° 50° 50° 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 1.8 cd/lm 1 White OSCONIQ P 3737 Flat	200 60° 60° 1220 60° 1220 60° 60° 60° 60° 60° 60° 60° 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 91 % 1.8 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric	200 60° 60° 1220 60° 1220 60° 60° 60° 60° 60° 60° 60° 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Peak intensity LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency	Asymmetric 91 % 1.8 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 88 %	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 1.8 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 88 % 1.6 cd/lm	
opte 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 91 % 1.8 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 88 % 1.6 cd/lm 1	
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 91 % 1.8 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 88 % 1.6 cd/lm	
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	Asymmetric 91 % 1.8 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 88 % 1.6 cd/lm 1	
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 91 % 1.8 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 88 % 1.6 cd/lm 1	
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 91 % 1.8 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 88 % 1.6 cd/lm 1	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 1.8 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 88 % 1.6 cd/lm 1	



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OSRAM		
Opto Semiconductors		90° 90°
LED FWHM / FWTM	OSCONIQ S 5050	730 780
	Asymmetric	400
Efficiency	86 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		
		30* 30*
OSRAM		
Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	400
Efficiency	68 %	50* 000 60*
Peak intensity	1.2 cd/lm	X / T X /
LEDs/each optic	1	1220
Light colour	White	45*
Required components:		1690
C17580_STRADA-2>	(2-SHD-WHT	
Brotostivo plot		2000
Protective plate	e, yiass	30* <u>15</u> ² 2850 <u>15</u> * 30*
OSRAM		THAT KAT
Opto Semiconductors		8°
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	90° 90°
^{Opto Semiconductors} LED FWHM / FWTM	Asymmetric	
^{opto Semiconductors} LED FWHM / FWTM Efficiency	Asymmetric 80 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 80 % 1.4 cd/lm	75 60 75
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 80 % 1.4 cd/lm 1	75 60 77.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 1.4 cd/lm	73° 60° 77'
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 80 % 1.4 cd/lm 1	
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	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	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	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 OSSRAM Opto Semiconductors	Asymmetric 80 % 1.4 cd/lm 1 White e, glass	200 200 200 200 200 200 200 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED	Asymmetric 80 % 1.4 cd/lm 1 White e, glass OSLON Square Flat	
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	200 200 200 200 200 200 200 200
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	
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 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	



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OSRAM		
Opto Semiconductors		90* 90*
LED	OSTAR Projection Compact (KW.CSLNM1.TG)	750 400 770 770
FWHM / FWTM	Asymmetric	800
Efficiency	93 %	50° 50°
Peak intensity	1.9 cd/lm	$X \times X / T X X /$
LEDs/each optic	1	1600
Light colour	White	45* 2000 45*
Required components:		2430
		2000
		300
		30* 3500 36* 36* 36*
PHILIPS		THY YATT
		90* 90*
LED	Fortimo FastFlex LED 2x8 DA G4	75° 400 75°
FWHM / FWTM	Asymmetric	0/8
Efficiency	91 %	504 604
Peak intensity	1.7 cd/lm	1220
LEDs/each optic	1	1630
Light colour	White	45° 2000 45°
Required components:		
		2030
		2800
		304 3230 304
		30 [°] 15 ⁵ 0 ⁶ 15 ⁶ 39 [°]
PHILIPS		
LED	Fortimo FastFlex LED 2x8 DA HE	
FWHM / FWTM		750 700
Efficiency	Asymmetric 92 %	400
		60* 60*
Peak intensity	1.1 cd/lm	300
LEDs/each optic	1	
Light colour	White	45° 45°
Required components:		\times / \times
1		1600
		1600
		165
		369 36° 10° 30°
PHILIPS		15 ² 50 ² 15 ⁴
PHILIPS	Fortimo FastFlex LED 2x8 DA HE	90°
		15 ² 50 ² 15 ⁴
LED	Fortimo FastFlex LED 2x8 DA HE	15 ² 50 ² 15 ⁴
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA HE Asymmetric 78 %	20
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA HE Asymmetric	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA HE Asymmetric 78 % 0.9 cd/lm 1	20 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA HE Asymmetric 78 % 0.9 cd/lm	20 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA HE Asymmetric 78 % 0.9 cd/lm 1	12 ³ 200 13 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA HE Asymmetric 78 % 0.9 cd/lm 1 White	12 ³ 200 13 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x8 DA HE Asymmetric 78 % 0.9 cd/lm 1 White	20° 100 0° 60 0° 60



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SAMSUN	IG	90* 94
LED	HiLOM RH16 (LH351C)	a a
FWHM / FWTM	Asymmetric	73%
Efficiency	83 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	1200
Light colour	White	451 45
Required components:		1000
Protective plate	e, glass	200
		30° 2430 30° 30°
SAMSUN	IG	90° 900
LED	LH351B	
FWHM / FWTM	Asymmetric	750 400 750
Efficiency	87 %	
Peak intensity	1.5 cd/lm	50* 50*
LEDs/each optic	1	1200
Light colour	White	45* 1500 45*
Required components:		
		XIX
		2430
		2200
		15 ⁵ 0 ⁶ 15 ⁵ 30 ⁴
SAMSUN	IG	30 ⁺
LED	LH351B	
FWHM / FWTM	Asymmetric	73° 400 75°
Efficiency	75 %	
Peak intensity	1.2 cd/lm	50 ⁴ 000 50 ⁴
LEDs/each optic	1	
Light colour	White	55*
Required components:		1500
		XITIX
Protective plate	e, glass	2000
		30* 30
SAMSUN	IG	
		90* 90*
	LH351D	,75°
FWHM / FWTM	Asymmetric	400
Efficiency	86 %	50° 800 50'
Peak intensity	1.2 cd/lm	X/T
LEDs/each optic	1 White	1200
	White	6° 6
Light colour		
Required components:		
		1690
		159



	16	TH H
SAMSUN		90* 9
LED	LH502D	
FWHM / FWTM	Asymmetric	400
Efficiency	86 %	
Peak intensity	1.1 cd/lm	80
LEDs/each optic	1	
Light colour	White	45+ 1220 4
Required components:		\times
		1500
		2000 10° 15° 0° 15°
SEOUL		23)· 0. 73.
SEOUL SEMICONDUCTOR		90* 9
LED	SEOUL DC 5050 6V	and and
FWHM / FWTM	Asymmetric	75 400 72
Efficiency	90 %	
Peak intensity	1.1 cd/lm	200 P
LEDs/each optic	1	
Light colour	White	45* <u>1220</u> 42
Required components:		
		1500
		\times / \wedge \times
		30* 35 ³ 2000 15* 34
SEOUL		15' 200 15'
SEOUL SEMICONDUCTOR		90* 94
LED	SEOUL DC 5050 6V	200
FWHM / FWTM	Asymmetric	736
Efficiency	78 %	460
Peak intensity	1 cd/lm	60° X 600 X 60
LEDs/each optic	1 Ca/im	00
		$X \times I \to X \times$
LEDs/each optic	1	$X \times I \to X X$
LEDs/each optic Light colour Required components:	1 White	67 <u>109</u> c
LEDs/each optic Light colour	1 White	45° 100° 4 1300 1400
LEDs/each optic Light colour Required components:	1 White	6 ⁷ 100 120 300 500
LEDs/each optic Light colour Required components: Protective plat	1 White	45° 100° 4 1300 1400
LEDs/each optic Light colour Required components: Protective plat	1 White e, glass	6 ⁵ 100 0 120 150 500
LEDs/each optic Light colour Required components: Protective plate	1 White e, glass Z8Y22	5° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10
LEDs/each optic Light colour Required components: Protective plate seous semiconductor LED FWHM / FWTM	1 White e, glass Z8Y22 Asymmetric	6 ⁵ 100 0 120 150 500
LEDs/each optic Light colour Required components: Protective plate seous semiconductor LED FWHM / FWTM Efficiency	1 White e, glass Z8Y22 Asymmetric 78 %	97 199 199 199 199 199 199 199 1
LEDs/each optic Light colour Required components: Protective plat seous semiconductor LED FWHM / FWTM Efficiency Peak intensity	1 White e, glass Z8Y22 Asymmetric	5° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10
LEDs/each optic Light colour Required components: Protective plat stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White e, glass Z8Y22 Asymmetric 78 % 1.3 cd/lm 1	97 199 199 199 199 199 199 199 1
LEDs/each optic Light colour Required components: Protective plat second semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White e, glass Z8Y22 Asymmetric 78 % 1.3 cd/lm	65 1990 1990 50 ¹⁰ 1990 50 ¹⁰ 1990 1990 1990 1990 1990 1990 1990 1990
LEDs/each optic Light colour Required components: Protective plat stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White e, glass Z8Y22 Asymmetric 78 % 1.3 cd/lm 1	45 100 0 100 100 0 100 100 0 100 100 0 100 100 0 100
LEDs/each optic Light colour Required components: Protective plat SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	1 White e, glass Z8Y22 Asymmetric 78 % 1.3 cd/lm 1 White	67 100 4 100 10 100 100 10 100
LEDs/each optic Light colour Required components: Protective plat second semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White e, glass Z8Y22 Asymmetric 78 % 1.3 cd/lm 1 White	6 ⁵ 100 100 100 100 100 100 100 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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