

STRADA-2X2-TF

Narrow	forward	throw	beam	optimized	for
Europea	n tunnels				

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	8.7 mm
Fastening	screw
ROHS compliant	yes 🛈



MATERIALS:

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

ORDERING INFORMATION:

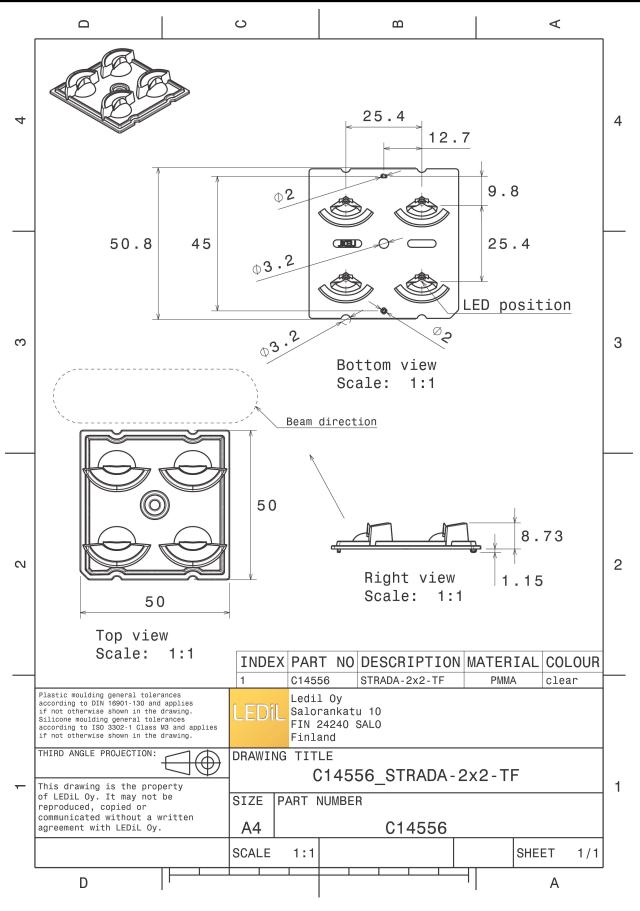
Component

C14556_STRADA-2X2-TF » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
800	160	160	6.5



PRODUCT DATASHEET C14556_STRADA-2X2-TF



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



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x4 xxx LS G5 Asymmetric 94 % 2 cd/lm 1 White nts:	90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	QUICK FLUX XTP 2x6 xxx LS G5 Asymmetric 94 % 1.9 cd/lm 1 White nts:	99 10 10 10 10 10 10 10 10 10 10
		2000 2000 2000 2000 2000 2000 2000 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G2 Asymmetric 94 % 2.1 cd/lm 1 White nts:	25 67 67 200 200 67
		30° 30° 30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 Asymmetric 94 % 1.7 cd/m 1 White	2°. 1200 6°.
Required componer	nts:	2009 2010 2010 2010 2010 2010 2010 2010



	EDC	TAVVIT
UMIL		90°
LED	LUXEON T	750 400 750
FWHM / FWTM	Asymmetric	
Efficiency	94 %	eer Contraction of the contracti
Peak intensity	2 cd/lm	120
LEDs/each optic	1	1630
Light colour	White	š:
Required componer	15.	
		2450
		2800
		30* <u>15</u> ² 3830 15* 30*
MST Your soluti	ons	
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	90* 90*
FWHM / FWTM	Asymmetric	736 78
Efficiency	97 %	
Peak intensity	2 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	45' 45'
Required componer		
		2430
		30° <u>3250</u> 30° 12° 0° 13°
MNICHIA		90°
LED	NVSW3x9A	
FWHM / FWTM	Asymmetric	75* 400 75
FWHM / FWTM Efficiency	Asymmetric 94 %	25 400 73
		84 90 97 77 77 77 77 77 77 77 77 77 77 77 77
Efficiency Peak intensity LEDs/each optic	94 %	1720 60, 120 120 120 120 120
Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.6 cd/lm 1 White	6°
Efficiency Peak intensity LEDs/each optic	94 % 1.6 cd/lm 1 White	60° 600 60
Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.6 cd/lm 1 White	6°
Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.6 cd/lm 1 White	60
Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.6 cd/lm 1 White	20 00 00 00 00 00 00 00 00 00 00 00 00 0
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.6 cd/lm 1 White its:	ev 80 179
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.6 cd/lm 1 White tts:	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.6 cd/lm 1 White tts: NVSxE21A	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.6 cd/lm 1 White tts: NVSxE21A Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.6 cd/lm 1 White its: NVSxE21A Asymmetric 94 %	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.6 cd/lm 1 White tts: NVSxE21A Asymmetric 94 % 2.9 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.6 cd/lm 1 White tts: NVSxE21A Asymmetric 94 % 2.9 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.6 cd/lm 1 White tts: NVSxE21A Asymmetric 94 % 2.9 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.6 cd/lm 1 White tts: NVSxE21A Asymmetric 94 % 2.9 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.6 cd/lm 1 White tts: NVSxE21A Asymmetric 94 % 2.9 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.6 cd/lm 1 White tts: NVSxE21A Asymmetric 94 % 2.9 cd/lm 1 White	



OOD AL		
OSRAM		90° 90°
LED	PrevaLED Brick HP 2x8	
FWHM / FWTM	Asymmetric	75° 400 75°
Efficiency	94 %	800
Peak intensity	1.2 cd/lm	60* 5200 60*
LEDs/each optic	1	1600
Light colour	White	45* 45*
Required component	its:	2000
		2430
		2000
		20* 2200 20*
		130 ⁶ 135 ⁵ 00 ⁶ 15 ⁶ 90 ⁶
OSRAM Opto Semiconductors		90* 92*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	73° 400 75°
Efficiency	94 %	800
Peak intensity	1.2 cd/lm	e ⁶⁴ 220 e ⁶¹
LEDs/each optic	1	1500
Light colour	White	67 67
Required compone	its:	2000
		2430
		200
		30° 2200 90° 20°
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square PC	
FWHM / FWTM	Asymmetric	780
Efficiency	94 %	
Peak intensity	2.2 cd/lm	bo.
LEDs/each optic	1	1000
Light colour	White	100 107 00*
	White	$X / T \land X$
Light colour	White	$X / T \land X$
Light colour	White	$X / T \land X$
Light colour	White	5°
Light colour Required componen	White Its:	$X / T \land X$
Light colour Required component PHILIP	White Its:	5°
Light colour Required component PHILIP LED	White Its: S Fortimo FastFlex LED 2x8 DA G4	
Light colour Required component PHILIP LED FWHM / FWTM	White Its: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric	200 200 200 200 200 200 200 200 200 200
Light colour Required component PHILIP LED FWHM / FWTM Efficiency	White Its: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 %	
Light colour Required component PHILLIP LED FWHM / FWTM Efficiency Peak intensity	White its: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm	et" 2000 30" 10 00" 00" 00" 00" 00" 00" 00
Light colour Required component PHILLIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White Its: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm 1	
Light colour Required component PHILLIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White tts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm 1 White	et" 2000 30" 10 00" 00" 00" 00" 00" 00" 00
Light colour Required component PHILLIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White tts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm 1 White	45°
Light colour Required component PHILLIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White tts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm 1 White	45°
Light colour Required component PHILLIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White tts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm 1 White	45°
Light colour Required component PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White tts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm 1 White	45°



PHILIP	PS	30*
LED	Fortimo FastFlex LED 2x8 DA G4+	a de la companya de l
FWHM / FWTM	Asymmetric	175° 4000 77
Efficiency	97 %	200
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	1200
Light colour	White	45* 1650
Required compone	ents:	
		200
		2400
		30* <u>15</u> ⁵ 2390 <u>15</u> * 3
PHILI	DS	
LED	Fortimo FastFlex LED 2x8 DA G5	90* 9
FWHM / FWTM	Asymmetric	750
Efficiency	97 %	00
Peak intensity	2.1 cd/lm	50V X / 1
LEDs/each optic	1	1000
Light colour	White	45*
Required compone		
		2430
		\times
		3200
		(30* 15° 0° 15°
SAMSI	UNG	
		90*
		92° 9
LED	HiLOM RC12 Z (LH181B)	90°
LED FWHM / FWTM	HiLOM RC12 Z (LH181B) Asymmetric	90 [*]
LED FWHM / FWTM Efficiency	HiLOM RC12 Z (LH181B) Asymmetric 99 %	90* 755 604
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RC12 Z (LH181B) Asymmetric	90° 750 000 1600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White	9°* 73 65° 200 66° 200 800 800 800 800 800 800 800 800 800
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White	5° 309
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	-5° - 239
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	40° 209
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	5° 309
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents: UNG HiLOM RH12 Z (LH351C) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents: UNG HiLOM RH12 Z (LH351C) Asymmetric 97 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents: UNG HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents: UNG HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	



SAMSU	INC	
		50°
LED	HiLOM RH16 (LH351C)	730 400 77
FWHM / FWTM	Asymmetric	
Efficiency	94 %	.50 ¹⁶ 800
Peak intensity	1.8 cd/lm	
LEDs/each optic	1 White	
Light colour Required compone		45'
Required compone	лно. -	2000
		2000
		30* 15 ⁵ 0° 10* 30
SAMSI	UNG	
LED	LH351B	
FWHM / FWTM	Asymmetric	75% 400 72
Efficiency	94 %	800
Peak intensity	1.6 cd/lm	60 ⁴
LEDs/each optic	1	1230
Light colour	White	.45* 1600 45
Required compone	ents:	X/T/X
		200
		2490
		30*
		15° 2880 15°
Elektronik GmbH		90°
Elektronik GmbH	LED-Pa-L15c2W11c2-xxx-C050-01	9 ⁴
LED FWHM / FWTM	Asymmetric	90 ⁴ 72 ⁵
LED FWHM / FWTM Efficiency		99 ¹ 73 64
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 2.2 cd/lm	55° 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 2.2 cd/lm 1	9° 73 60° 60° 60° 60° 60° 60° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White	99° 72° 65° 60°
LED FWHM / FWTM Efficiency	Asymmetric 97 % 2.2 cd/lm 1 White	J73 ⁴ 60 ⁴ 1500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White	J73 ⁴ 60 ⁴ 1500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White	J73 ⁴ 60 ⁴ 1500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White	J73 ⁴ 60 ⁴ 1500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 2.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 2.2 cd/lm 1 White ents:	73 ⁵ 00 64 ⁵ 100 - 00 - 00 - 00 - 00 - 00 - 00 - 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 2.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 1.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 1.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 1.7 cd/lm 1 White	



SEOUL		80 ⁴
SEOUL SEMICONDUCTOR	Z8Y22	30"
FWHM / FWTM		73% 400 75%
	Asymmetric 94 %	
Efficiency		504 800 604
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 1600 65°
Required compone	nts:	
		2130
		30° ma o 30°
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z8Y22P	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	504 800 664
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 1000 45°
Required compone	ints:	
		2000
		132 of 132
TOSHIBA Leading Innovation >>>		90° 00°
LED	TL1L4	
FWHM / FWTM	Asymmetric	775
Efficiency	91 %	800
Peak intensity	2 cd/lm	*00*
	1	
LEDs/each optic	I	
LEDs/each optic Light colour	v White	457 550
	White	a. 100 g'
Light colour	White	ie: 109 97
Light colour	White	ia: 100 200
Light colour	White	500 (G) 2000
Light colour Required compone	White ents:	30 ⁻ 50 ⁻
Light colour Required compone	White ents:	er. 100 2000 30 ⁺ 20 30 ⁺ 30 ⁺ 30 ⁺ 30 ⁺
Light colour	White ents:	500 2009 30 ⁴ 12 ⁴ 2 ⁵ 2 ⁵ 2 ⁵ 2 ⁵ 2 ⁵
Light colour Required compone	White ents:	500 2009 30* 13* 33* 35* 13* 33*
Light colour Required compone TRIDON LED FWHM / FWTM	White Ints: NIC RLE 2x4 2000lm HP EXC2 OTD	500 2009 30* 139 34° 139 34° 139 34° 139 34° 139
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency	White ents: NIC RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 %	200 200 200 200 200 200 200 200 200 200
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity	White ents: NIC RLE 2x4 2000lm HP EXC2 OTD Asymmetric	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White Ints: IC RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 2.2 cd/lm 1	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White Ints: ICC RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 2.2 cd/lm 1 White	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White Ints: ICC RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 2.2 cd/lm 1 White	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White Ints: ICC RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 2.2 cd/lm 1 White	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White Ints: ICC RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 2.2 cd/lm 1 White	



TRIDON	NIC	90* 90*
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	75° 75°
Efficiency	94 %	008
Peak intensity	2.2 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	
Required compone		
		2450
		\times / \setminus \times
		770
		30° 15 ⁵ 0° 15° 30°
TRIDOM		
		90* 90*
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	736
FWHM / FWTM	Asymmetric	1600
Efficiency	94 %	504 694
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	320
Light colour	White	45* 45*
Required compone	ints:	
		4000
		\times
		30° 5400 30° 11° 30°
		4 9 4
TDIDON		
TRIDON		81*
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	50°
LED FWHM / FWTM	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric	70
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	99 ⁴ 79 ⁵ 79 1000
LED FWHM / FWTM Efficiency Peak intensity	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric	79
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 %	79
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White	79
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White	173 - 1600 604 - 2720 - 604
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White	173 - 1600 604 - 2720 - 604
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White	173 - 1600 604 - 2720 - 604
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	57 500 50 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White Ints:	77° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	234 454 459 459 459 459 459 459 45
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents: RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	

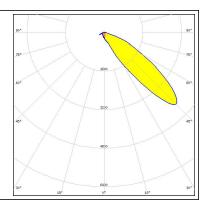


TRIDONIC

LED

FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:

RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White





CREE ≑		
LEDs	XP-G2 HE	90* 90'
FWHM / FWTM		75° 400 75
	Asymmetric 91 %	
Efficiency	91 % 1.4 cd/lm	60 ⁴ 800 60
Peak intensity		$\nabla \times / \nabla \times \vee$
LEDs/each optic		1220
Light colour	White	45" 45"
Required components:		X/T/X
		× ***
		24bo 24bo
CREE ÷		TNY ETI
		90+ 90+
LED	XP-G3	
FWHM / FWTM	Asymmetric	400
Efficiency	79%	50* 50*
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		1600
Protective plate		\times / \times /
i fotective plate	, yidəə	2000
		30* 15 ² 30 ⁴
CREE ÷		
		90° 90'
LED	XT-E	60°
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 92 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 1.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.7 cd/lm 1	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.7 cd/lm	
LED FWHM / FWTM Efficiency	Asymmetric 92 % 1.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.7 cd/lm 1	5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.7 cd/lm 1	200 200 120 120 100 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.7 cd/lm 1	200 200 120 40 120 40 120 40 40 40 40 40 40 40 40 40 4
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.7 cd/lm 1 White XT-E	92 92 92 92 92 92 92 92 92 92
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.7 cd/lm 1 White XT-E Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.7 cd/lm 1 White XT-E Asymmetric 78 %	92 92 92 92 92 92 92 92 92 92
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.7 cd/m 1 White XT-E Asymmetric 78 % 1.5 cd/m	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREECS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.7 cd/m 1 White XT-E Asymmetric 78 % 1.5 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.7 cd/m 1 White XT-E Asymmetric 78 % 1.5 cd/m	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.7 cd/m 1 White XT-E Asymmetric 78 % 1.5 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.7 cd/m 1 White XT-E Asymmetric 78 % 1.5 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.7 cd/m 1 White XT-E Asymmetric 78 % 1.5 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.7 cd/m 1 White XT-E Asymmetric 78 % 1.5 cd/m 1 White	



MUMILEC 🖉	DS S	90* 90*
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	Asymmetric	75° 400 775°
Efficiency	80 %	
Peak intensity	1.6 cd/lm	60*
LEDs/each optic	1	1230
Light colour	White	
Required components:		1500
		2000
Protective plate	e, glass	
		20 ⁴ 10 ⁵ 0 ⁶ 10 ⁴ 20 ⁴
)S	
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	Asymmetric	730 400 731
Efficiency	94 %	200
Peak intensity	1.8 cd/lm	50 ⁴ 1270 60*
LEDs/each optic	1	$X \times / T \setminus X \times$
Light colour	White	15°
Required components:		2000
		200
		2800
		30° 15° 0° 10°
)S	90*
	LUXEON HL2X	30° - 0°
		23
LED	LUXEON HL2X	90 ⁺ 90 ⁺
LED FWHM / FWTM	LUXEON HL2X Asymmetric	$ \times \times / \mathbb{N} \times 7 $
LED FWHM / FWTM Efficiency	LUXEON HL2X Asymmetric 93 %	$ \times \times / \mathbb{N} \times 7 $
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm	60° 600 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1	60 ⁴ 000 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1	60 ⁴ 000 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1	60 ⁴ 000 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1	90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1 White	60° 000 007 1000 000 1000 00000000000000000000000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1 White	60° 000 007 1000 000 1000 00000000000000000000000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1 White S LUXEON HL2X-D Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1 White	00 00 00 100 00 100 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1 White S LUXEON HL2X-D Asymmetric 94 % 1.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: With Components: With Components: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1 White S LUXEON HL2X-D Asymmetric 94 % 1.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1 White S LUXEON HL2X-D Asymmetric 94 % 1.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1 White S LUXEON HL2X-D Asymmetric 94 % 1.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X Asymmetric 93 % 1.5 cd/lm 1 White S LUXEON HL2X-D Asymmetric 94 % 1.4 cd/lm 1	



UMILEC	DS	90* 90
LED	LUXEON HL2X-D	
FWHM / FWTM	Asymmetric	750 400 75
Efficiency	80 %	
Peak intensity	1.2 cd/lm	60° 800 60°
LEDs/each optic	1	
Light colour	White	45* 1200 5*
Required components:		\times
Protective plate	e, glass	1630
		30° 2000 30° 30° 30°
	os	
LED	LUXEON HL2X-P	90* 90*
ED FWHM / FWTM	Asymmetric	73% 400 78*
Efficiency	93 %	
Peak intensity	1.3 cd/lm	50° 800 50°
LEDs/each optic	1	$\nabla \times I \times \nabla$
Light colour	White	45* 35*
Required components:		1500
		XITX
		2000
		15 ⁵ 2420 15* 30
		X Y Y Y
	DS	90° 91°
	LUXEON XR-HL2X (L2H2-xxxxxMLU010)	Pr. Pr
		59° 50°
LED FWHM / FWTM Efficiency	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	9° 73° 60°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric	92° 92° 13° 400 92°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1	25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric 80 % 1.2 cd/lm	5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1	49 49 49 40 40 40 40 40 40 40 40 40 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1 White	29° 9° 75° 800 7° 60° 6° 40° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric 80 % 1.2 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:	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric 80 % 1.2 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 plate	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1 White e, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1 White e, glass	72 40 72
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1 White a, glass LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1 White e, glass LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 94 %	72* 400 73
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Vertice plate Components: Protective plate FWHM / FWTM Efficiency Peak intensity	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1 White e, glass LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 94 % 1.4 cd/lm	173 400 73 6/* 000 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate White Components: Protective plate FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1 White e, glass LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 94 % 1.4 cd/lm 1	173 400 73 6/* 000 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Contemponents Protective plate Contemponents Protective plate FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1 White e, glass LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 94 % 1.4 cd/lm 1	173 400 73 6/* 000 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Contemponents Protective plate Contemponents Protective plate FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1 White e, glass LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 94 % 1.4 cd/lm 1	273 - 400 - 72 6/4 - 900 - 6/4
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Contemponents Protective plate Contemponents Protective plate FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 80 % 1.2 cd/lm 1 White e, glass LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 94 % 1.4 cd/lm 1	



ΜΝΙCΗΙΛ		90* 90*
LED	NF2x757G	
FWHM / FWTM	Asymmetric	75% 400 75%
Efficiency	83 %	
Peak intensity	1.6 cd/lm	.60* 60*
LEDs/each optic	1	1320
Light colour	' White	$\times \times / \times \times $
Required components:	White	45* 45*
required components.		2000
Protective plate	e, glass	
		2430
		30* 35 ⁵ 2850 15* 30*
ΜΝΙCΗΙΛ		90° 90°
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	13. 400
Efficiency	92 %	
Peak intensity	1.6 cd/lm	50*
LEDs/each optic	1	1230
Light colour	White	-65° 1600 -65°
Required components:		X/T/X
		2000
		2420
		30* 30*
		15° 15° 50
ΜΝΙCΗΙΛ		90° 90°
	NWSx229A	8°
	NWSx229A Asymmetric	90° 90° 73° 100 70°
LED		92° 73° 100 72°
LED FWHM / FWTM	Asymmetric	90°
LED FWHM / FWTM Efficiency	Asymmetric 92 %	99° (9° 73° (9°) 60° (9°) 60° (9°)
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 1.2 cd/lm	90° 90° 72° 400 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.2 cd/lm 1	99° 99° 60° 60° 60° 60° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.2 cd/lm 1	100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.2 cd/lm 1	92" 73" 69" 69 69 69 69 69 69 69 69 69 69 69 69 69
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.2 cd/lm 1	92° 73 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.2 cd/lm 1	90° 90° 90° 10° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1	12 ³ 0 ⁴ 23 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 %	12 ³ 0 ⁴ 23 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SOSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric	22 ¹ 0 ² 27 ² 92 ⁴ 92 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 %	12 ³ 0 ³ 17 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 % 1.6 cd/lm	64 ⁵ 66 ⁶ 12 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 % 1.6 cd/lm 1	122 ³ 0 ³ 12 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 % 1.6 cd/lm 1	122 ³ 0 ³ 12 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 % 1.6 cd/lm 1	122 ³ 0 ³ 12 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 % 1.6 cd/lm 1	122 ³ 0 ³ 12 ³



OSRAM	
	90* 90*
LED OSLON Square CSSRM2/CSSRM3	750 400 750
FWHM / FWTM Asymmetric	
Efficiency 84 %	60* 800 60*
Peak intensity 1.5 cd/lm	
LEDs/each optic 1	1220
Light colour White	45* 45*
Required components:	\times
Protective plate, glass	200
	2000
	30* <u>15</u> * 0* 15* 30*
PHILIPS	50°
LED Fortimo FastFlex LED 2x8 DAX G4	
FWHM / FWTM Asymmetric	720 400 775
Efficiency 93 %	
Peak intensity 1.4 cd/lm	50 ⁴ 800 50*
LEDs/each optic 1	
Light colour White	45* 45*
Required components:	1000
	\times
	2000
	30° 2400 30° 15° 30°
SAMSUNG	
	90° 90°
LED HiLOM RH12 Z (LH351C)	30 ⁴ 400 75 ⁴
LED HiLOM RH12 Z (LH351C) FWHM / FWTM Asymmetric	35°
LEDHiLOM RH12 Z (LH351C)FWHM / FWTMAsymmetricEfficiency85 %	90° 90° 20° 400 75°
LEDHiLOM RH12 Z (LH351C)FWHM / FWTMAsymmetricEfficiency85 %Peak intensity1.6 cd/lm	64
LEDHiLOM RH12 Z (LH351C)FWHM / FWTMAsymmetricEfficiency85 %Peak intensity1.6 cd/lmLEDs/each optic1	. 61 ⁻ 900 12293
LEDHiLOM RH12 Z (LH351C)FWHM / FWTMAsymmetricEfficiency85 %Peak intensity1.6 cd/lmLEDs/each optic1Light colourWhite	64
LEDHiLOM RH12 Z (LH351C)FWHM / FWTMAsymmetricEfficiency85 %Peak intensity1.6 cd/lmLEDs/each optic1	64 00 04
LEDHiLOM RH12 Z (LH351C)FWHM / FWTMAsymmetricEfficiency85 %Peak intensity1.6 cd/lmLEDs/each optic1Light colourWhiteRequired components:	64 00 04
LEDHiLOM RH12 Z (LH351C)FWHM / FWTMAsymmetricEfficiency85 %Peak intensity1.6 cd/lmLEDs/each optic1Light colourWhite	64 00 04
LEDHiLOM RH12 Z (LH351C)FWHM / FWTMAsymmetricEfficiency85 %Peak intensity1.6 cd/lmLEDs/each optic1Light colourWhiteRequired components:	64 00 04
LEDHiLOM RH12 Z (LH351C)FWHM / FWTMAsymmetricEfficiency85 %Peak intensity1.6 cd/lmLEDs/each optic1Light colourWhiteRequired components:	64 00 04
LED HiLOM RH12 Z (LH351C) FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass	64 00 04
LED HiLOM RH12 Z (LH351C) FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plats STMSSUNSE LED LH351B	64 00 04
LED HiLOM RH12 Z (LH351C) FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass SAMSSUNSE LED LH351B FWHM / FWTM Asymmetric	
LED HiLOM RH12 Z (LH351C) FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass SAMSSUNSE LED LH351B FWHM / FWTM Asymmetric Efficiency 81 %	
LED HiLOM RH12 Z (LH351C) FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass SAMSSUS LED LH351B FWHM / FWTM Asymmetric Efficiency 81 % Peak intensity 1.3 cd/lm	
LED HiLOM RH12 Z (LH351C) FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass SAMSSUNSE LED LH351B FWHM / FWTM Asymmetric Efficiency 81 % Peak intensity 1.3 cd/lm LEDs/each optic 1	
LED HiLOM RH12 Z (LH351C) FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass SAMSSUNG LED LH351B FWHM / FWTM Asymmetric Efficiency 81 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour %1%	
LED HiLOM RH12 Z (LH351C) FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass SAMSSUNSE LED LH351B FWHM / FWTM Asymmetric Efficiency 81 % Peak intensity 1.3 cd/lm LEDs/each optic 1	
LED HiLOM RH12 Z (LH351C) FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 1.6 cd/m LEDs/each optic 1 Light colour White Required components: Vhite Protective plate, glass SAMSSUNG LED LH351B FWHM / FWTM Asymmetric Efficiency 81 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White	
LED HiLOM RH12 Z (LH351C) FWHM / FWTM Asymmetric Efficiency 85 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass SAMSSUNG LED LH351B FWHM / FWTM Asymmetric Efficiency 81 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour %1%	



0.0.0.0.0.0.0	10	
SAMSUN	IG	90*
LED	LH351C	
FWHM / FWTM	Asymmetric	75° 400
Efficiency	94 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	1200
Light colour	White	45*
Required components:		660
- 1 1		2000
		2450
		(30* <u>45*</u> 0* 15* 5
SAMSUN	IG	20*
LED	LH351C	
FWHM / FWTM	Asymmetric	75% 400 7
Efficiency	83 %	
Peak intensity	1.3 cd/lm	50* 900 0
LEDs/each optic	1	
Light colour	White	1220
Required components:		1600
		\times
Protective plate	e, glass	2000
		30* 15 ⁵ 2890 15* 3
SAMSUN	IG	90"
LED	LH351D	
FWHM / FWTM	Asymmetric	75* 400
Efficiency	88 %	
Peak intensity	1.2 cd/lm	50*
LEDs/each optic	1	
Light colour	White	67 ·
Required components:		
		1000
		30*
		30° 10° 10°
SAMSUN	IG	20
LED	LM301B	
FWHM / FWTM	Asymmetric	729 400 7
Efficiency	95 %	
Peak intensity	1.8 cd/lm	. 50 ⁴
LEDs/each optic	1	$\times \times / \top \times \times$
Light colour	White	1000
Required components:		2000
		24/30
		30*



SEOUL SEMICONDUCTOR		90°
LED	Z5M1/Z5M2	400
FWHM / FWTM	Asymmetric	75' 70' 70'
Efficiency	94 %	80
Peak intensity	1.8 cd/lm	60 ⁴
LEDs/each optic	1	150
Light colour	White	6°
Required component	s:	200
		200
		200
		20 ⁴ 12 ⁵ 3200 22 ⁵ 3 ¹ 4