

PRODUCT DATASHEET C16220_STRADELLA-16-T1-A

STRADELLA-16-T1-A

Asymmetric IESNA Type I (short) beam designed for tilted poles. Suitable for Indian EESL specification.

SPECIFICATION:

Dimensions Height Fastening ROHS compliant 49.5 x 49.5 mm 4.3 mm pin, screw yes 1



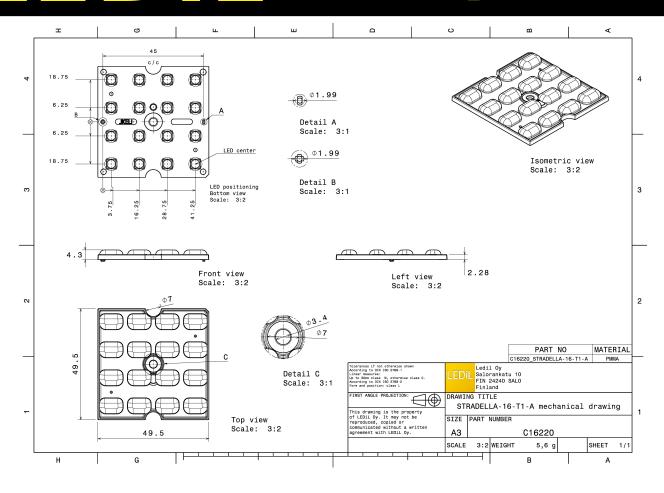
MATERIALS:

Component	Туре	Material	Colour	Finish
STRADELLA-16-T1-A	Multi-lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16220_STRADELLA-16-T1-A	800	160	160	5.3
» Box size: 480 x 280 x 300 mm				

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



		90* 90*
LED	J Series 3030	
FWHM / FWTM	Asymmetric	736 000 735
Efficiency	97 %	400
Peak intensity	0.9 cd/lm	60°
LEDs/each optic	1	
Light colour	White	80
Required compone		45*
Required compone	113.	
		1200
		1000
		30* 15 ⁵ 1850 15* 30*
		90* 90*
LED	EHP-223.5x50-1604-xx-70-LS30-06-NTC	
FWHM / FWTM	Asymmetric	400
Efficiency	96 %	50° 60°
Peak intensity	0.9 cd/lm	50
LEDs/each optic	1	
Light colour	White	45* 1000 45*
Required compone	nts:	
		1200
		1830
		1630
		30° 15° 30°
∕∕ NICHI∧		90° 90°
		82
LED	NF2x757G	31
LED FWHM / FWTM	NF2x757G Asymmetric	90° 13° 60 60
LED FWHM / FWTM Efficiency	NF2x757G Asymmetric 97 %	
LED FWHM / FWTM Efficiency Peak intensity	NF2x757G Asymmetric 97 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NF2x757G Asymmetric 97 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White	1230
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White	1230
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White nts:	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White nts:	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White nts:	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White nts: NFSW757H Asymmetric 94 %	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 97 % 0.9 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.8 cd/lm 1 White	



Ø NICHI∕		90* 90*
LED	NFSx757D	
FWHM / FWTM	Asymmetric	730 731
Efficiency	94 %	400
Peak intensity	1.1 cd/lm	80 ⁴ 800 80 ⁴
LEDs/each optic	1	
LEDS/each optic	' White	810
		·6*
Required compone	ns.	1200
		1430
		30° 100 00° 10° 30°
∕∕ NICHI∕		
		90* 90*
LED	NFSx757G	77%
FWHM / FWTM	Asymmetric	
Efficiency	94 %	400
Peak intensity	1 cd/lm	
LEDs/each optic	1	800
Light colour	White	45*
Required compone	nts:	1000
		1200
		1000
		30* 15 ⁵ 1630 15* 30*
L		133 1630 13*
OSRAN	1	90 ⁺
		90 ¹
LED	PrevaLED Brick MP 4x16	
LED FWHM / FWTM	PrevaLED Brick MP 4x16 Asymmetric	15° 15° 15° 15° 15° 15° 15°
LED FWHM / FWTM Efficiency	PrevaLED Brick MP 4x16 Asymmetric 94 %	21
LED FWHM / FWTM Efficiency Peak intensity	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm	21
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White	21
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White	50° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White	50° 5000 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White nts: Duris S5 (2 chip) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White nts: Duris S5 (2 chip) Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White nts: Duris S5 (2 chip) Asymmetric 94 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White nts: Duris S5 (2 chip) Asymmetric 94 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White nts: Duris S5 (2 chip) Asymmetric 94 % 0.9 cd/lm 1 Purple	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White nts: Duris S5 (2 chip) Asymmetric 94 % 0.9 cd/lm 1 Purple	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White nts: Duris S5 (2 chip) Asymmetric 94 % 0.9 cd/lm 1 Purple	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White nts: Duris S5 (2 chip) Asymmetric 94 % 0.9 cd/lm 1 Purple	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick MP 4x16 Asymmetric 94 % 1 cd/lm 1 White nts: Duris S5 (2 chip) Asymmetric 94 % 0.9 cd/lm 1 Purple	



		
OSRAM Opto Semiconductors		90°
LED	Duris S5 (Single chip)	
FWHM / FWTM	Asymmetric	75* 400 72*
Efficiency	93 %	
Peak intensity	1.5 cd/lm	.60 ⁴ 60 ⁴ .
LEDs/each optic	1	
Light colour	White	45 ⁺ 1200 45 ⁺
Required compone	nts:	\times / \times
		1500
		X X
		304 2000 344
OCDAM		
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ S 3030 (QSLR31)	
FWHM / FWTM	Asymmetric	73°
Efficiency	94 %	40
Peak intensity	0.9 cd/lm	100° KO KO
LEDs/each optic	1	X
Light colour	White	67
Required compone	nts:	
		1200
		1430
		30° 175 30°
PHILIP	S	
		90* 90*
LED	Fortimo FastFlex LED 4x16 DHE G4	730 700 770
FWHM / FWTM	Asymmetric	40
Efficiency	94 %	60* 60*
Peak intensity	1 cd/lm	
LEDs/each optic	1 White	800
Light colour Required compone		45* 57*
	115.	
		1230
		100
		30* 13 ⁴ 18 ⁴ 30 ²
SΛMSL	ING	
LED		90* 90*
FWHM / FWTM	HiLOM RM64 (LM301B) Asymmetric	75° 70°
Efficiency	94 %	400
Peak intensity	1 cd/lm	50° 600 60°.
LEDs/each optic	1	$X \times T \times X$
Light colour	White	40°
Required compone		1000 40
		1200
1		
		14m I
		1400 30* 15 ⁵ 500 15* 30*



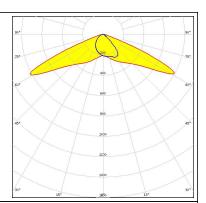
SAMSU	ING	
LED	LM231 A/B	90* 90*
FWHM / FWTM	Asymmetric	730 790
Efficiency	94 %	400
Peak intensity	1.2 cd/m	50° 660 50°.
LEDs/each optic	1	00
Light colour	White	451 1000 45*
Required compone		1200
		1450
		1600
		1000
		90° 1890 15° 0° 15° 30°
SCIO	LUX	
LED	XLE-S44XTEHE (XT-E HE)	
FWHM / FWTM	Asymmetric	A Company of the second
Efficiency	94 %	400
Peak intensity	0.8 cd/lm	50* 50*
LEDs/each optic	1	
Light colour	White	45* 340 43*
Required compone	nts:	
		1000
		1200
		3450
		(30° 15° 30°
SEOUL SEMICONDUCTOR	SEQUE 3030	
	SEOUL 3030 Asymmetric	90 ⁴ 12 ⁶ 400
seoul semiconductor LED FWHM / FWTM	SEOUL 3030 Asymmetric 93 %	
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 93 %	
seoul semiconductor LED FWHM / FWTM	Asymmetric	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 1.2 cd/m	
seoul semeonoucron LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 1.2 cd/lm 1 White	
seoul semiconoucron LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1.2 cd/lm 1 White	
seoul semiconoucron LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1.2 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1.2 cd/lm 1 White	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 93 % 1.2 cd/lm 1 White hts:	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 93 % 1.2 cd/lm 1 White hts:	
seour semeonbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 93 % 1.2 cd/lm 1 White hts:	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 93 % 1.2 cd/lm 1 White hts: RLE 4x16 4000lm MP ADV2 OTD	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TRIDON LED FWHM / FWTM	Asymmetric 93 % 1.2 cd/lm 1 White hts:	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TRIDON LED FWHM / FWTM Efficiency	Asymmetric 93 % 1.2 cd/lm 1 White hts: RLE 4x16 4000lm MP ADV2 OTD Asymmetric 94 %	00 00 00 00 00 00 00 00 00 00
stour stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componed TRIDON LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 1.2 cd/lm 1 White hts: RLE 4x16 4000lm MP ADV2 OTD Asymmetric	90 100 100 100 100 100 100 100 1
stour stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 1.2 cd/lm 1 White hts: RLE 4x16 4000lm MP ADV2 OTD Asymmetric 94 % 1 cd/lm	00 00 00 00 00 00 00 00 00 00
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component ER FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 1.2 cd/lm 1 White hts: RLE 4x16 4000lm MP ADV2 OTD Asymmetric 94 % 1 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1.2 cd/lm 1 White hts: RLE 4x16 4000lm MP ADV2 OTD Asymmetric 94 % 1 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1.2 cd/lm 1 White hts: RLE 4x16 4000lm MP ADV2 OTD Asymmetric 94 % 1 cd/lm 1 White	
stour standonbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1.2 cd/lm 1 White hts: RLE 4x16 4000lm MP ADV2 OTD Asymmetric 94 % 1 cd/lm 1 White	



TRIDONIC

LED
FWHM / FWTM
Efficiency
Peak intensity
LEDs/each optic
Light colour

RLE 4x16 4000lm MP ADV2 OTD Asymmetric 94 % 0.9 cd/lm 1 White Required components:



TRIDONIC

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

RLE 4x8 2000lm MP ADV2 OTD Asymmetric 94 % 1 cd/lm 1 White nts:



PRODUCT DATASHEET C16220_STRADELLA-16-T1-A

bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CSP 2727 (BXCP) Asymmetric 95 % 0.8 cd/lm 1 White	90° 73° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60
		30* 15 ⁵ 1980 15* 30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CSP 2727 (BXCP) Asymmetric 85 % 0.7 cd/lm 1 White	
Deste stive alste		\times
Protective plate	e, glass	1000
		30° 15° 0° 15° 30°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	J Series 2835 Asymmetric 94 % 0.7 cd/lm 1 White	5° 60 6° 6°
		30° 1200 30° 30°
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XD16 Asymmetric 94 % 0.8 cd/lm 1 White	



LED	XQ-E HD	
FWHM / FWTM	Asymmetric	200 754
Efficiency	95 %	400
Peak intensity	0.9 cd/lm	. 60 ⁴ 60 ⁴ .
LEDs/each optic	1	600
Light colour	White	45° 800 45°
Required components:	White	
		1000
		1200
		1000
		30° 15° 30°
LED	XQ-E HI	90* 90*
FWHM / FWTM	Asymmetric	730 700 700
Efficiency	95 %	400
Peak intensity	1 cd/lm	50* 500 50*
LEDs/each optic	1	
Light colour	White	2°
Required components:		
		1200
		1430
		30° 1600 30° 30°
)S	90 ⁺
		92
LED	LUXEON 2835 Line	90° 73° 72°
LED FWHM / FWTM		
LED FWHM / FWTM Efficiency	LUXEON 2835 Line Asymmetric 95 %	90° 73° 60°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 2835 Line Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1	60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1	60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1	67 69 67 80 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1	67 67 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1 White	67 69 67 69 67 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1 White	6° 60 6° 6° 6° 6° 6° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1 White	6° 60 6° 6° 100 6° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1 White	by- by- by- by- by- by- by- by-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric	by- by- by- by- by- by- by- by-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 87 %	by- by- by- by- by- by- by- by-
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 2835 Line Asymmetric 95 % 0.7 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 87 % 0.7 cd/lm	by- by- by- by- by- by- by- by-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 87 % 0.7 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 2835 Line Asymmetric 95 % 0.7 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 87 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 2835 Line Asymmetric 95 % 0.7 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 87 % 0.7 cd/lm 1 White	
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 2835 Line Asymmetric 95 % 0.7 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 87 % 0.7 cd/lm 1 White	



UMILEC	DS	90* 90
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	400
Peak intensity	0.9 cd/lm	60° 6
LEDs/each optic	1	
Light colour	White	45* 000
Required components:		1000
		1200
		30* 1400 3
	S	
LED	LUXEON 3030 HE Plus	2
FWHM / FWTM	Asymmetric	750 7
Efficiency	95 %	
Peak intensity	0.7 cd/lm	60* 460 60
LEDs/each optic	1	60
Light colour	White	
Required components:		80
····		1000
		1230
		30° 45 ² 0° 15 ² 30
	DS Contraction of the second	90* 90
LED	LUXEON C	
FWHM / FWTM	Asymmetric	750 770
Efficiency	92 %	
Peak intensity	1 cd/lm	600 65
	1	× / **
LEDs/each optic Light colour		00 07 100
LEDs/each optic Light colour Required components:	1	
LEDs/each optic Light colour	1	6° 100 6
LEDs/each optic Light colour	1	
LEDs/each optic Light colour	1	
LEDs/each optic Light colour Required components:	1 RGBW	102
LEDs/each optic Light colour Required components:	1 RGBW	120
LEDs/each optic Light colour Required components:	1 RGBW	100 100 100 100 100 100 100 100 100 100
LEDs/each optic Light colour Required components:	1 RGBW	120
LEDs/each optic Light colour Required components:	1 RGBW	100 100 100 100 100 100 100 100 100 100
LEDs/each optic Light colour Required components:	1 RGBW DS LUXEON CZ Asymmetric 94 %	
LEDs/each optic Light colour Required components:	1 RGBW S LUXEON CZ Asymmetric 94 % 1.1 cd/m	
LEDs/each optic Light colour Required components: UDMILE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 RGBW S LUXEON CZ Asymmetric 94 % 1.1 cd/lm 1	1270 1570 1570 1570 1570 1570 1570 1570 15
LEDs/each optic Light colour Required components: Control Control Control Control Control Control Control Control Control Control Co	1 RGBW S LUXEON CZ Asymmetric 94 % 1.1 cd/lm 1	20 ³
LEDs/each optic Light colour Required components: Control Control Control Control Control Control Control Control Control Control Co	1 RGBW S LUXEON CZ Asymmetric 94 % 1.1 cd/lm 1	50° 120 150 150 150 150 150 150 150 15
LEDs/each optic Light colour Required components: CONTINUATION LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 RGBW S LUXEON CZ Asymmetric 94 % 1.1 cd/lm 1	1279 1279 1270 1270 1270 1270 1270 1270 1270



ΜΝΙCΗΙΛ		
LED	NF2W757G-MT (Tunable White)	90* 90*
EED FWHM / FWTM	Asymmetric	73° 200 755
	95 %	
Efficiency		60* 400 60'
Peak intensity	0.7 cd/lm	
LEDs/each optic		600
Light colour	Tunable White	e, e,
Required components:		
		1000
		\times
		30* <u>1250</u> 30* 30*
Μ ΝΙCΗΙΛ		
		90* 90*
LED	NF2W757G-MT (Tunable White)	
FWHM / FWTM	Asymmetric	\sim
Efficiency	87 %	50* 60*
Peak intensity	0.6 cd/lm	400
LEDs/each optic	1	
Light colour	Tunable White	45* 660 45*
Required components:		\times
Protective plate	glass	200
	, 9000	X X
		30 ⁴ 1000 30 ⁴ 30 ⁶
ØΝΙCΗΙΛ		20* <u>209</u> 20 ⁴ 25 ² 0 ⁴ 13* 20 ⁴
		20* <u>100</u> 20* 20*
LED	NFSWE11A Asymmetric	123 0 123 0 127 237
LED FWHM / FWTM	Asymmetric	20° 12° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2
LED FWHM / FWTM Efficiency	Asymmetric 92 %	20 ¹⁰ 12 ¹⁰ 20 ¹⁰ 20 ¹⁰ 20 ¹⁰
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 1.2 cd/lm	20* 10 ²⁰ 10 ²⁰ 20 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.2 cd/lm	20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	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	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	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	
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 Required components:	Asymmetric 92 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/m 1 White NVSxE21A Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/m 1 White NVSxE21A Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White NVSxE21A Asymmetric 93 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.2 cd/lm 1 White NVSxE21A Asymmetric 93 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White NVSxE21A Asymmetric 93 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.2 cd/lm 1 White NVSxE21A Asymmetric 93 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White NVSxE21A Asymmetric 93 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White NVSxE21A Asymmetric 93 % 0.9 cd/lm 1	



OSRAM		
Opto Semiconductors	Duris S5 (2 chip)	90°
FWHM / FWTM	Asymmetric	730 770
Efficiency	94 %	400
Peak intensity	0.8 cd/lm	50* 50*
LEDs/each optic	1	X - 500 X /
Light colour	White	45° 000 65°.
Required components:	White	
		1000
		1200
		30° 1400 33° 13° 33°
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ C 2424	
FWHM / FWTM	Asymmetric	12e
Efficiency	95 %	400
Peak intensity	0.9 cd/lm	80 ⁴ 80 ⁴
LEDs/each optic	1	$X \times I \times X$
Light colour	White	45*
Required components:		1000
		1200
		1430
1		
		30* 30* 30*
OSRAM Opto Semiconductors		20° 10 ⁰ 10 ⁰ 20 ⁴
OSRAM Opto Semiconductors LED	OSCONIQ C 2424	20° 10 ⁵ 10 ⁵ 20 ⁴
Opto Semiconductors		20° 10° 10° 20°
Opto Semiconductors	OSCONIQ C 2424 Asymmetric 86 %	20 ¹ 15 ¹ 10 ¹ 15 ¹ 1
Opto Semiconductors LED FWHM / FWTM	Asymmetric	20 ¹ 10 ¹
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 86 %	20° 10° 10° 10° 10° 10° 10° 10° 1
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 86 % 0.8 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.8 cd/lm 1	20° 10° 10° 10° 10° 10° 10° 10° 1
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 86 % 0.8 cd/lm 1 White 9, glass	80
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 86 % 0.8 cd/lm 1 White a, glass	80 1999 1220
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED	Asymmetric 86 % 0.8 cd/lm 1 White s, glass Fortimo FastFlex LED 4x16 DHE G4	80
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM	Asymmetric 86 % 0.8 cd/lm 1 White P, glass Fortimo FastFlex LED 4x16 DHE G4 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency	Asymmetric 86 % 0.8 cd/lm 1 White P, glass Fortimo FastFlex LED 4x16 DHE G4 Asymmetric 87 %	80 1000 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity	Asymmetric 86 % 0.8 cd/lm 1 White e, glass Fortimo FastFlex LED 4x16 DHE G4 Asymmetric 87 % 0.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.8 cd/lm 1 White e, glass Fortimo FastFlex LED 4x16 DHE G4 Asymmetric 87 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.8 cd/lm 1 White e, glass Fortimo FastFlex LED 4x16 DHE G4 Asymmetric 87 % 0.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.8 cd/lm 1 White e, glass Fortimo FastFlex LED 4x16 DHE G4 Asymmetric 87 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.8 cd/lm 1 White a, glass Fortimo FastFlex LED 4x16 DHE G4 Asymmetric 87 % 0.7 cd/lm 1 White	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.8 cd/lm 1 White a, glass Fortimo FastFlex LED 4x16 DHE G4 Asymmetric 87 % 0.7 cd/lm 1 White	



SAMSUN	IG	
LED	LH181B	
FWHM / FWTM	Asymmetric	230 AMA
Efficiency	94 %	400
Peak intensity	0.8 cd/lm	60 ⁴ 6
LEDs/each optic	1	60
Light colour	White	45* 300
Required components:		
riequieu compenentei		
		1200
		3450
		30° 15° 30
SAMSUN	IG	80* 90*
LED	LH181B	in the second se
FWHM / FWTM	Asymmetric	75 75
Efficiency	88 %	400 m
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
Protective plate	e, glass	1000
		1200
		30° 12° 0° 15° 30°
SAMSUN	IG	90*
LED	LM101B	
FWHM / FWTM	Asymmetric	75 400 75
Efficiency	94 %	
Peak intensity	1.1 cd/lm	- 00 ⁴
LEDs/each optic	1	
Light colour	White	457 1000 457
Required components:		120
		1400
		1600
		30 ⁺ 1800 90 ⁺ 15 ⁵ 0 ⁶ 25 ⁺ 30 ⁺
<u>сллсшл</u>		
SAMSUN		90* 90
LED	LM28xB Series	730 730
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
D	0.9 cd/lm	X / too X /
Peak intensity		
LEDs/each optic	1	× / ••• ×
LEDs/each optic Light colour	1 White	45*
LEDs/each optic		
LEDs/each optic Light colour		45*
LEDs/each optic Light colour		50°, 5000 C



SAMSUN	IG	
LED	LM301B	90° 90°
FWHM / FWTM	Asymmetric	75°
Efficiency	87 %	
Peak intensity	0.7 cd/lm	50 ⁴ 400 50 ⁴ .
LEDs/each optic	1	
Light colour	White	45* 660 45*
Required components:		
		$\times / \top \setminus X$
Protective plate	, glass	1000
		30° 15° 30°
SAMSUN	IG	91 ⁴
LED	LM301B	
FWHM / FWTM	Asymmetric	73 - 75'
Efficiency	95 %	40
Peak intensity	0.8 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	600
Light colour	White	45° 800 45°
Required components:		
		1000
		1200
		30° 1430 0° 19° 33°
SAMSUN	G	90* 90*
LED	LM301B	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	400
Peak intensity	0.8 cd/lm	.60 ⁴ 60*.
LEDs/each optic	1	60
Light colour	White	45* 800 45*
Required components:		
		1000
		1200
		30* 15* 30*
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	SEOUL DC 3030C	730 700 700
LED FWHM / FWTM	Asymmetric	74
LED FWHM / FWTM Efficiency	Asymmetric 95 %	201
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 0.8 cd/lm	50° 600 10°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.8 cd/lm 1	20 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.8 cd/lm	20 60 ⁴ 60 ⁴ 60 ⁴ 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.8 cd/lm 1	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.8 cd/lm 1	27 40 67 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.8 cd/lm 1	23° 60° 60° 60° 60° 60° 60° 60° 60° 1000 1200



SEOUL		TTY FFT
SEOUL SEMICONDUCTOR		90* 90*
LED	SEOUL DC 3030C	750 770
FWHM / FWTM	Asymmetric	
Efficiency	87 %	654 400 634
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		300
Protective plate	a dass	
		30° 15° 12° 10° 30°
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z8Y19	
FWHM / FWTM	Asymmetric	75°
Efficiency	83 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	× ~ ~ ×
Light colour	White	45* 45*
Required components:		00
		1000
Protective plate	e, glass	
		1200 30* 30*
SEOUL SEOUL SEMICONDUCTOR		90° 90°
LED	Z8Y22	
FWHM / FWTM	Asymmetric	75° 70°
Efficiency	83 %	
Peak intensity	0.6 cd/lm	60* 400 60*
LEDs/each optic	1	
Light colour	White	45* 000 45*
Required components:		\times
		200
Protective plate	e, glass	
		1000
		30° 15° 0° 15° 30°
SEOUL		
	70V22T	90* 90*
	Z8Y22T	75°
FWHM / FWTM	Asymmetric	
Efficiency	95 %	607 400 66*
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required components:		\times \land \times
		2 2000
		30* 30*
		153 00 15*



LED	Z8Y22T
FWHM / FWTM	Asymmetric
Efficiency	87 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required componen	its:
Protective p	plate, glass