

PRODUCT DATASHEET C15677_STRADELLA-8-SCL

STRADELLA-8-SCL

Type II/III (long) beam for very wide pole to pole distances. Ideal for pedestrian walkways and residential roads. EN13201 P-classes.

SPECIFICATION:

Dimensions Height Fastening ROHS compliant 49.5 x 49.5 mm 5.4 mm pin, screw yes ()



MATERIALS:

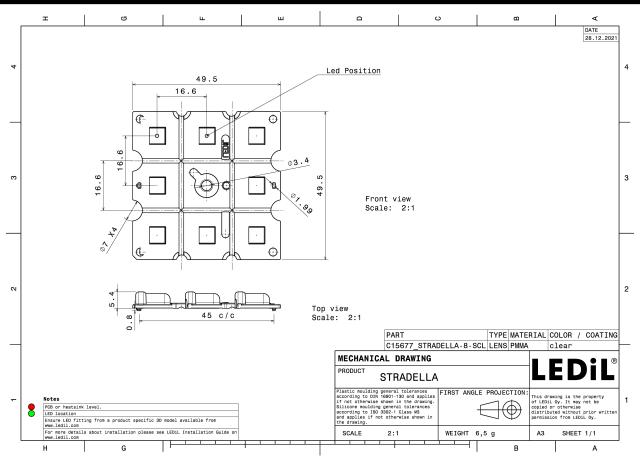
Component	Туре	Material	Colour	Finish
STRADELLA-8-SCL	Multi-lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C15677_STRADELLA-8-SCL	800	160	160	6.0
» Box size: 480 x 280 x 300 mm				



PRODUCT DATASHEET C15677_STRADELLA-8-SCL



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



OPTICAL RESULTS (MEASURED):

P*	
	90*
LED QUICK FLUX XT 2x8 xxx STRDLL G5	1
FWHM / FWTM Asymmetric	75:
Efficiency 90 %	
Peak intensity 0.7 cd/lm	604
LEDs/each optic 1	400
Light colour White	
Required components:	
	800
50° 10°	1000 0° 10° 30°
CREE ÷	L-T
	90*
LED J Series 3030	
FWHM / FWTM Asymmetric	
Efficiency 94 %	
Peak intensity 0.7 cd/lm	400
LEDs/each optic 1	
Light colour White	600 45*
Required components:	
	800
39*	1000 0° 15° 30°
	0° 15°
CREE ÷	90*
LED XT-E	5
FWHM / FWTM Asymmetric	
Efficiency 93 %	\square
Peak intensity 0.7 cd/lm	60*
LEDs/each optic 1	
Light colour White	45%
Required components:	600
	800
	1000 10° 30°
30* 22	
	90*
LUMILEDS	
LUMILEDS LED LUXEON 3030 2D (Round LES)	
Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system <th></th>	
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Image: Second system Image: Second system Image: Second	20 20 40
Image: Second system Image: Second system Image: Second	20
Image: Constraint of the system of the sy	20 00 00 00
LUMILEDS LED LUXEON 3030 2D (Round LES) FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1	10 60 60 60
Image: Constraint of the system of the sy	60 60 60 60
Image: Constraint of the system of the sy	80 00 80 00 80 00



OPTICAL RESULTS (MEASURED):

ØNICHI	к	90* 90*
LED	NVSW219D	7200
FWHM / FWTM	Asymmetric	75°
Efficiency	93 %	
Peak intensity	0.6 cd/lm	50° 300 601
LEDs/each optic	1	400
Light colour	White	45* 540 45
Required compone	nts:	
		700
		30* 30*
0000414		
OSRAM Opto Semiconductors		90° 90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75%
Efficiency	93 %	
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 000 95*
Required compone	nts:	
		800
		\times / \times /
		1000
		130° 15° 30° 15°
SAMSL	ING	90* 90*
LED	LH181B	
FWHM / FWTM	Asymmetric	75°
	92 %	
Efficiency		61 60
Efficiency Peak intensity	92 %	50° 60°
Efficiency Peak intensity LEDs/each optic	92 % 0.7 cd/lm	
Efficiency Peak intensity	92 % 0.7 cd/lm 1 White	est
Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.7 cd/lm 1 White	60° 60° 60°
Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.7 cd/lm 1 White	607 609 609 609
Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.7 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component	92 % 0.7 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component	92 % 0.7 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component scour semiconductor	92 % 0.7 cd/m 1 White hts:	50°
Efficiency Peak intensity LEDs/each optic Light colour Required component seour semiconourcor LED	92 % 0.7 cd/m 1 White hts: Z8Y22P	60 ⁵ 60 ⁵ 60 ⁶ 80
Efficiency Peak intensity LEDs/each optic Light colour Required component stour stericonductor LED FWHM / FWTM	92 % 0.7 cd/m 1 White hts: Z8Y22P Asymmetric	89*
Efficiency Peak intensity LEDs/each optic Light colour Required component security security LED FWHM / FWTM Efficiency	92 % 0.7 cd/m 1 White hts: Z8Y22P Asymmetric 93 %	89*
Efficiency Peak intensity LEDs/each optic Light colour Required component secures secures LED FWHM / FWTM Efficiency Peak intensity	92 % 0.7 cd/m 1 White hts: Z8Y22P Asymmetric	8°
Efficiency Peak intensity LEDs/each optic Light colour Required component stous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	92 % 0.7 cd/m 1 White hts: Z8Y22P Asymmetric 93 % 0.6 cd/m 1	8°
Efficiency Peak intensity LEDs/each optic Light colour Required component stous ISMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.7 cd/m 1 White TS: Z8Y22P Asymmetric 93 % 0.6 cd/m 1 White	8° 7° 7° 8° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9°
Efficiency Peak intensity LEDs/each optic Light colour Required component stous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	92 % 0.7 cd/m 1 White TS: Z8Y22P Asymmetric 93 % 0.6 cd/m 1 White	8° 7° 7° 8° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9°
Efficiency Peak intensity LEDs/each optic Light colour Required component stous ISMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.7 cd/m 1 White TS: Z8Y22P Asymmetric 93 % 0.6 cd/m 1 White	8° 10° 10° 10° 10° 10° 10° 10° 10
Efficiency Peak intensity LEDs/each optic Light colour Required component stous stmconoucron LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.7 cd/m 1 White TS: Z8Y22P Asymmetric 93 % 0.6 cd/m 1 White	8° 7° 7° 8° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9°



LED	J Series 5050C 6V E Class	90* 90*
FWHM / FWTM	Asymmetric	736 700
Efficiency	77 %	
Peak intensity	0.3 cd/lm	-50° - 60°.
LEDs/each optic	1	
Light colour	White	45°
Required components:	THRC .	
required componente.		300
Protective plate	e, glass	\times / \setminus \times
		400
		(30* 30* 30* 30*
		90° 90°
LED	J Series 5050C 6V E Class	
FWHM / FWTM	Asymmetric	200 75°
Efficiency	93 %	
Peak intensity	0.4 cd/lm	APT POLY
LEDs/each optic	1	X 300 X
Light colour	White	45° 6°
Required components:		40
		500
		\times
		30* 500
		90°
CREE ÷ LEDs	XP-G3	90 ²
	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 90 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.6 cd/lm 1	200 70 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.6 cd/lm 1 White	200 70 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.6 cd/lm 1 White XP-G3	200 70 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.6 cd/lm 1 White XP-G3 Asymmetric	200 70 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency	Asymmetric 90 % 0.6 cd/lm 1 White XP-G3 Asymmetric 74 %	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.6 cd/lm 1 White XP-G3 Asymmetric 74 % 0.3 cd/lm	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.6 cd/lm 1 White XP-G3 Asymmetric 74 % 0.3 cd/lm 1	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 1 White XP-G3 Asymmetric 74 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.6 cd/lm 1 White XP-G3 Asymmetric 74 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 1 White XP-G3 Asymmetric 74 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.6 cd/lm 1 White XP-G3 Asymmetric 74 % 0.3 cd/lm 1 White	



CREE ≑		
LEDS	XP-G4	90° 90°
		750
FWHM / FWTM	Asymmetric	
Efficiency	93 %	
Peak intensity	0.6 cd/lm	400
LEDs/each optic	1	
Light colour	White	45* 000 45*
Required components:		
		30* 30*
		90* 90*
LED	XP-G4	
FWHM / FWTM	Asymmetric	300 77°
Efficiency	75 %	
Peak intensity	0.4 cd/lm	$\overline{\mathbf{N}}$
LEDs/each optic	1	
Light colour	White	45° 5°
Required components:		400
Protective plate	e, glass	× 1 ×
		30*
		194 Pro 200
		15 ³ 0 ⁴ 15 ⁴
		12 ³ 2 ³ 12 ³
LED	LUXEON 5050 Square LES	
LED FWHM / FWTM	LUXEON 5050 Square LES Asymmetric	25 ¹ 25 ² 25 ² 25 ²
LED FWHM / FWTM Efficiency	LUXEON 5050 Square LES Asymmetric 92 %	12 ³ 20 ³ 12 ⁴
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm	12 ⁴ 29 ⁴ 19 ⁴ 99 ⁴ 17 ³ 100 100 100 100 100 100 100 100 100 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1	12 ⁴ 20 10 ⁴ 20 10 ⁴ 00 10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm	12 ¹ 2 ¹ 12 ⁿ 12 ⁿ
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1 White S LUXEON C Asymmetric 89 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1 White S LUXEON C Asymmetric 89 % 0.9 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 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1 White S LUXEON C Asymmetric 89 % 0.9 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 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1 White S LUXEON C Asymmetric 89 % 0.9 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 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1 White S LUXEON C Asymmetric 89 % 0.9 cd/lm 1	
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 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1 White S LUXEON C Asymmetric 89 % 0.9 cd/lm 1	
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 5050 Square LES Asymmetric 92 % 0.4 cd/lm 1 White S LUXEON C Asymmetric 89 % 0.9 cd/lm 1	



)S	90* 90*
LED	LUXEON HL2X	
FWHM / FWTM	Asymmetric	75°
Efficiency	74 %	100
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		\times / \times
Protective plate	e, glass	400
		\times / \setminus \times
		30° 15° 33° 33°
MICHIΛ		90* B
LED	NVSxE21A	
FWHM / FWTM	Asymmetric	73°
Efficiency	91 %	an 400 - 201
Peak intensity	0.8 cd/lm	$ \times / / \times / $
LEDs/each optic	1	× 600 ×
Light colour	White	45° 67°
Required components:		800
		1000
		30° 1200 30°
		15' 0' 15'
Mauguna		
ØΝΙCΗΙΛ		20* 22*
LED	NVSxx19B/NVSxx19C	
LED FWHM / FWTM	Asymmetric	94 94 284 99 285
LED FWHM / FWTM Efficiency	Asymmetric 91 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.6 cd/lm 1	20 60 50 60 50 60 50 60 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.6 cd/lm	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.6 cd/lm 1	40 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.6 cd/lm 1	40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.6 cd/lm 1	40 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.6 cd/lm 1	40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.6 cd/lm 1	60° 000 00° 00° 00° 00° 00° 00° 00° 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.6 cd/lm 1 White	60° 600 67°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.6 cd/lm 1 White	60° 600 67°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	Asymmetric 91 % 0.6 cd/lm 1 White OSCONIQ C 2424 Asymmetric	60° 000 00° 00° 00° 00° 00° 00° 00° 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OBSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 91 % 0.6 cd/lm 1 White OSCONIQ C 2424 Asymmetric 93 %	60° 000 00° 00° 00° 00° 00° 00° 00° 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.6 cd/lm 1 White OSCONIQ C 2424 Asymmetric 93 % 0.8 cd/lm	60° 000 00° 00° 00° 00° 00° 00° 00° 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.6 cd/lm 1 White OSCONIQ C 2424 Asymmetric 93 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.6 cd/lm 1 White OSCONIQ C 2424 Asymmetric 93 % 0.8 cd/lm	60° 000 00° 00° 00° 00° 00° 00° 00° 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.6 cd/lm 1 White OSCONIQ C 2424 Asymmetric 93 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.6 cd/lm 1 White OSCONIQ C 2424 Asymmetric 93 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.6 cd/lm 1 White OSCONIQ C 2424 Asymmetric 93 % 0.8 cd/lm 1	



OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ C 2424	
FWHM / FWTM	Asymmetric	75°
Efficiency	77 %	
Peak intensity	0.5 cd/lm	50° 50°
LEDs/each optic	1	
Light colour	White	
Required components:		
		000
Protective plate	, glass	70
		200 200
OCDAM		30 15 ⁵ 0 ⁶ 15 ⁶ 30
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (3W version)	4
FWHM / FWTM	Asymmetric	75°
Efficiency	77 %	son and the son
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		
Drotostivo ploto		X X
Protective plate	, glass	500
		30* 11 ⁵ 0 ⁶ 11 ⁵ 30*
OSRAM		THY FFT
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	90° 90°
FWHM / FWTM	Asymmetric	75°
Efficiency	73 %	
Peak intensity	0.4 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	45* 3%
Required components:	Wind	
rtoquirou componente.		40
Protective plate	, glass	200
Protective plate	. glass	50
Protective plate	, glass	20° - 23° - 30°
OSRAM	, glass	20°
OSRAM Opto Semiconductors		90° 30° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2
OSRAM Opto Semiconductors LED	OSLON Square PC	200 200 200 200 200 200 200 200 200 200
OSRAM Opto Semiconductors LED FWHM / FWTM	OSLON Square PC Asymmetric	909 50" 20 ¹ 00 50" 75" 00 75"
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	OSLON Square PC Asymmetric 80 %	
OSRAM Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity	OSLON Square PC Asymmetric	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	OSLON Square PC Asymmetric 80 % 0.4 cd/lm 1	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	OSLON Square PC Asymmetric 80 % 0.4 cd/lm	20 ³ 60 10 ³ 20 ⁴ 10 ⁴ 10 ⁴ 20 ⁴ 000 70 ⁵ 20 ⁴ 000 70 ⁵ 20 ⁴ 000 70 ⁵
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square PC Asymmetric 80 % 0.4 cd/lm 1 White	20 ³ 60 10 ³ 20 ⁴ 10 ⁴ 10 ⁴ 20 ⁴ 000 70 ⁵ 20 ⁴ 000 70 ⁵ 20 ⁴ 000 70 ⁵
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	OSLON Square PC Asymmetric 80 % 0.4 cd/lm 1 White	20 ³ 60 10 ³ 20 ⁴ 10 ⁴ 10 ⁴ 20 ⁴ 000 70 ⁵ 20 ⁴ 000 70 ⁵ 20 ⁴ 000 70 ⁵
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square PC Asymmetric 80 % 0.4 cd/lm 1 White	20 ³ 60 10 ³ 20 ⁴ 10 ⁴ 10 ⁴ 20 ⁴ 000 70 ⁵ 20 ⁴ 000 70 ⁵ 20 ⁴ 000 70 ⁵



OSRAM Opto Semiconductors		
LED	OSLON Square PC	
FWHM / FWTM	Asymmetric	13° to the second to the
Efficiency	91 %	
Peak intensity	0.7 cd/lm	.50° 60°.
	1	
LEDs/each optic	White	
Light colour Required components:	white	-65°
Required components.		200
		\times / \times
		1000
		30° 15° 0° 10° 30°
OSRAM		
Opto Semiconductors		90* 90*
LED	OSLON SSL 150	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	61 ⁴ 400 69 ⁴
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	600
Light colour	White	45* 850 45*
Required components:		\times
		1000
		1200 30* 30* 30*
OSRAM		
Opto Semiconductors		90* 90*
LED	OSLON SSL 150	- martin
FWHM / FWTM	Asymmetric	
Efficiency	92 %	60° 400 60°.
Deals interact		
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	60
LEDs/each optic Light colour		67 <u>68</u> 67 <u>80</u> 67
LEDs/each optic	1	60 67° 800 60°
LEDs/each optic Light colour	1	-67 -09 -09 -09 -07
LEDs/each optic Light colour	1	0° 00 0°
LEDs/each optic Light colour	1	109
LEDs/each optic Light colour Required components:	1 Amber	
LEDs/each optic Light colour Required components: PHILIPS	1 Amber	100
LEDs/each optic Light colour Required components: PHILIPS LED	1 Amber Fortimo FastFlex LED 4x8up PR G5	109
LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM	1 Amber Fortimo FastFlex LED 4x8up PR G5 Asymmetric	100
LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency	1 Amber Fortimo FastFlex LED 4x8up PR G5 Asymmetric 75 %	109
LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency Peak intensity	1 Amber Fortimo FastFlex LED 4x8up PR G5 Asymmetric 75 % 0.4 cd/m	109
LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 Amber Fortimo FastFlex LED 4x8up PR G5 Asymmetric 75 % 0.4 cd/lm 1	109
LEDs/each optic Light colour Required components: DHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 Amber Fortimo FastFlex LED 4x8up PR G5 Asymmetric 75 % 0.4 cd/m	109
LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 Amber Fortimo FastFlex LED 4x8up PR G5 Asymmetric 75 % 0.4 cd/lm 1	
LEDs/each optic Light colour Required components: DHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	1 Amber Fortimo FastFlex LED 4x8up PR G5 Asymmetric 75 % 0.4 cd/lm 1 White	
LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 Amber Fortimo FastFlex LED 4x8up PR G5 Asymmetric 75 % 0.4 cd/lm 1 White	
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PHILIP	S	9* 99
LED	Fortimo FastFlex LED 4x8up PR G5	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 640 45
Required components	X.	
		80
		1000
		30° 15° 0° 15° 30°
SAMSU	NG	90 ⁺
LED	LH351B	
FWHM / FWTM	Asymmetric	73%
Efficiency	75 %	
Peak intensity	0.4 cd/lm	and the second sec
LEDs/each optic	1	
Light colour	White	-C' 300
Required components	S:	40
		\times
Protective pl	ate, glass	500
		30* 30
		19 ² 60 19 ²
SAMSU	NG	90*
LED	LM301A	
FWHM / FWTM	Asymmetric	730 770 770 770
Efficiency	93 %	
Peak intensity	0.8 cd/lm	50°. """ 50°
LEDs/each optic	1	\times
Light colour	White	67 G
Required components	Si di la constanza di la const	
		1270
		30° 15° 0° 15°