

STRADA-2X2-C-STP

Beam for area and street lighting such as parks and pedestrian walkways

TECHNICAL SPECIFICATIONS:

Dimensions	50.0 x 50.0 mm
Height	5.3 mm
Fastening	pin, screw
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component STRADA-2X2-C-STP

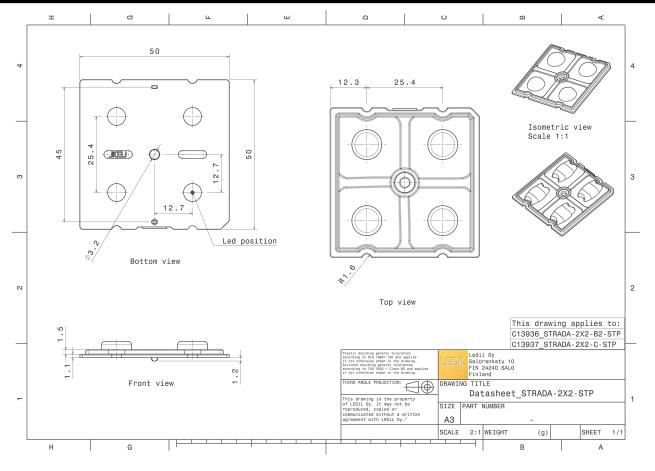
Туре	
Multi-lens	

Material	Colour	Finish
PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13937_STRADA-2X2-C-STP	800	160	160	5.5
» Box size: 476 x 273 x 292 mm				





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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Bridgelux SMD 5050 131.0° / 156.0° 94 % 0.3 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX XTP 2x4 xxx LS G5 138.0° / 161.0° 94 % 0.3 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX XTP 2x6 xxx LS G5 138.0° / 160.0° 94 % 0.3 cd/lm 1 White nts:	
CREE C LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L3 Asymmetric 97 % 0.3 cd/lm 1 White	



CREE -		
		90* 90*
LED	XP-G2	75%
FWHM / FWTM	137.0° / 158.0°	100
Efficiency	94 %	50
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 5*
Required compone	ents:	
		400
		30* 30*
		13 ⁵ 390 13 ⁵
CREE -		90* 90*
LED	XP-G3	
FWHM / FWTM	141.0° / 164.0°	75°
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required compone	ents:	30
		\times
		460
		\times / \setminus \times
		30° 133 0° 15° 30°
CREE -		90* 90*
LED	XP-L HD	
FWHM / FWTM		
	139.0° / 166.0°	75°
	139.0° / 166.0° 92 %	734 742
Efficiency	92 %	79 72 72 72 72 72 72 72 72 72 72 72 72 72
Efficiency Peak intensity	92 % 0.3 cd/lm	20 50 50 50 50 50 50 50 50 50 50 50 50 50
Efficiency Peak intensity LEDs/each optic	92 % 0.3 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.3 cd/lm 1 White	200
Efficiency Peak intensity LEDs/each optic	92 % 0.3 cd/lm 1 White	40° 40° 100 100 100 100 100 100 100 1
Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.3 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.3 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.3 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
Efficiency Peak intensity LEDs/each optic Light colour Required compone	92 % 0.3 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	92 % 0.3 cd/lm 1 White ents:	30 30 51 61 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10
Efficiency Peak intensity LEDs/each optic Light colour Required compone	92 % 0.3 cd/lm 1 White ents: XP-L HI	
Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE	92 % 0.3 cd/lm 1 White ents: XP-L HI 136.0° / 162.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE LED FWHM / FWTM Efficiency	92 % 0.3 cd/lm 1 White ents: XP-L HI 136.0° / 162.0° 94 %	
Efficiency Peak intensity LEDs/each optic Light colour Required component CREEE LED FWHM / FWTM Efficiency Peak intensity	92 % 0.3 cd/lm 1 White ents: XP-L HI 136.0° / 162.0° 94 % 0.3 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	92 % 0.3 cd/lm 1 White ents: XP-L HI 136.0° / 162.0° 94 % 0.3 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.3 cd/lm 1 White ents: XP-L HI 136.0° / 162.0° 94 % 0.3 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	92 % 0.3 cd/lm 1 White ents: XP-L HI 136.0° / 162.0° 94 % 0.3 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.3 cd/lm 1 White ents: XP-L HI 136.0° / 162.0° 94 % 0.3 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.3 cd/lm 1 White ents: XP-L HI 136.0° / 162.0° 94 % 0.3 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	92 % 0.3 cd/lm 1 White ents: XP-L HI 136.0° / 162.0° 94 % 0.3 cd/lm 1 White	



CREE {		
LED	XP-L2	
FWHM / FWTM	139.0° / 166.0°	750 750
Efficiency	94 %	50°
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required compone	ints:	310
		\times / \times
		400
		\prec / \land \land
•		
LUMIL	EDS	90° 90°
LED	LUXEON 5050 Round LES	
FWHM / FWTM	133.0° / 156.0°	73° 775°
Efficiency	94 %	
Peak intensity	0.3 cd/lm	eiter eiter
LEDs/each optic	1	20
Light colour	White	45*
Required compone		300
rioquirou compone		
		400
		$K / T \setminus X$
		30° 30° 30°
	EDS	
LED	LUXEON MZ	90* 90*
		750 750
FWHM / FWTM	133.0° / 156.0°	
Efficiency	94 %	50 ⁴ 50 ⁴
Peak intensity	0.3 cd/lm	200
LEDs/each optic	1	
Light colour	White	45°
Required compone	nts:	
		20° 10° 20° 20°
	EDS	20* 20* 20* 20* 20* 20* 20* 20* 20*
	EDS LUXEON TX	20* 25* 20* 23*
		25 ⁴ 25 ³ 200 20 ⁴
LED	LUXEON TX	25 ⁴ 200 200
LED FWHM / FWTM Efficiency	LUXEON TX 133.0° / 156.0°	23 ¹⁺ 15 ² 20 ² 35 ²⁺ 36 ²⁺
LED FWHM / FWTM Efficiency Peak intensity	LUXEON TX 133.0° / 156.0° 94 %	25 ⁴ 25 ⁶
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX 133.0° / 156.0° 94 % 0.3 cd/lm 1	25 <u>26</u> <u>13</u> <u>36</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>2</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 133.0° / 156.0° 94 % 0.3 cd/lm 1 White	25 <u>26</u> <u>13</u> <u>36</u> <u>55</u> <u>26</u> <u>13</u> <u>56</u> <u>56</u> <u>56</u> <u>56</u> <u>56</u> <u>56</u> <u>56</u> <u>56</u> <u>56</u> <u>56</u> <u>56</u> <u>56</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX 133.0° / 156.0° 94 % 0.3 cd/lm 1 White	23 ⁴ 23 ⁵ 20 ⁶ 20 ⁴ 20 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 133.0° / 156.0° 94 % 0.3 cd/lm 1 White	20 ² 15 ³ 20 ² 13 ² 30 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 133.0° / 156.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 133.0° / 156.0° 94 % 0.3 cd/lm 1 White	



M LUMIL	EDS	90* 90*
LED	LUXEON V	
FWHM / FWTM	136.0° / 166.0°	71 72
Efficiency	94 %	
Peak intensity	0.3 cd/lm	50* 60*
LEDs/each optic	1	20
Light colour	White	45* 45*
Required compone		300
		400
		$ \land \land$
		30* <u>15</u> ⁵ 0 ⁶ 15* 30*
	NUS	90° 90°
LED	SST-10-B130	
FWHM / FWTM	127.0° / 154.0°	75°
Efficiency	97 %	
Peak intensity	0.3 cd/lm	60*
LEDs/each optic	1	
Light colour	Deep Red	45* 45*
Required compone	nts:	300
		460
		30* 30*
MST Your solut	ions	
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	90* 90*
EED FWHM / FWTM	Asymmetric	756 776
Efficiency	98 %	
Peak intensity	0.3 cd/lm	604 / / / / / / / / / / / / / / / / / / /
LEDs/each optic	1	
Light colour	White	5° 5°
Required compone		300
		460
		130* 15 ⁵ 366 15° 30*
∕∕ NICHI∕		91* 91*
LED	NVSW219F	
FWHM / FWTM	131.0° / 155.0°	750 750
Efficiency	94 %	
Peak intensity	0.3 cd/lm	êd ^e
LEDs/each optic	1	
Light colour	White	45' A
Required compone		1 1 20
•		\times



ØNICHIA		
		90* 9c
LED	NVSW319B	700
FWHM / FWTM	139.0° / 162.0°	100
Efficiency	94 %	
Peak intensity	0.3 cd/lm	200
LEDs/each optic	1	
Light colour	White	45*
Required componer	11S:	
		400
		\times / \setminus λ
		30° 15° 300 15°
ØNICHI		90*
LED	NVSW3x9A	
FWHM / FWTM	138.0° / 165.0°	736 75
Efficiency	94 %	
Peak intensity	0.3 cd/lm	60 ⁺
LEDs/each optic	1	
Light colour	White	6° 6
Required componer	nts:	
		400
		113 ⁵ 80 15*
OSRAM		86. 27. 27. 20. 17. 20.
	PrevaLED Brick HP 2x8	20 ¹ 20 ¹ 20 ¹ 20 ¹
		20 ⁴ 20 20 20 20 20 20 20 20
LED FWHM / FWTM	PrevaLED Brick HP 2x8	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
LED FWHM / FWTM Efficiency Peak intensity	PrevaLED Brick HP 2x8 137.0° / 157.0°	20 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White	20 20 20 20 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White hts: Duris S8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Optic Semiconductors LED FWHM / FWTM	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White hts: Duris S8 131.0° / 154.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Optic Semiconductors LED FWHM / FWTM Efficiency	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White hts: Duris S8 131.0° / 154.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White hts: Duris S8 131.0° / 154.0° 94 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White hts: Duris S8 131.0° / 154.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White hts: Duris S8 131.0° / 154.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White hts: Duris S8 131.0° / 154.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White hts: Duris S8 131.0° / 154.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White hts: Duris S8 131.0° / 154.0° 94 % 0.3 cd/lm 1 White	



OCDAM		
OSRAM Opto Semiconductors		
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	137.0° / 157.0°	75° 77°
Efficiency	94 %	
Peak intensity	0.3 cd/lm	60*
		200
LEDs/each optic	1 White	
Light colour Required componer		45* <u>300</u> 45*
Required component	15.	\times
		400
		30° 500 30° 30°
OSRAM		
Opto Semiconductors	OSLON Square PC	
FWHM / FWTM	130.0° / 161.0°	75°
Efficiency	94 %	
Peak intensity	0.3 cd/lm	60*
LEDs/each optic	1	
Light colour	White	
Required componer		40*
Required componen	1.5.	
		400
		30° 200 30° 30°
PHILIP	S	90* 90*
LED	Fortimo FastFlex LED 2x8 DA G4	
	136.0° / 161.0°	75°
FWHM / FWTM Efficiency	136.0° / 161.0° 94 %	75* 75*
FWHM / FWTM Efficiency Peak intensity		29
Efficiency Peak intensity	94 %	
Efficiency Peak intensity LEDs/each optic	94 % 0.3 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.3 cd/lm 1 White	5°
Efficiency Peak intensity LEDs/each optic	94 % 0.3 cd/lm 1 White	29°
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.3 cd/lm 1 White	200 200 40 ⁴ 40 ⁴ 40 40
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.3 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componen	94 % 0.3 cd/lm 1 White hts:	
Efficiency Peak intensity LEDs/each optic Light colour Required componen	94 % 0.3 cd/lm 1 White hts:	
Efficiency Peak intensity LEDs/each optic Light colour Required component	94 % 0.3 cd/lm 1 White hts:	
Efficiency Peak intensity LEDs/each optic Light colour Required component PHILIP LED	94 % 0.3 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+	
Efficiency Peak intensity LEDs/each optic Light colour Required component PHILLIP LED FWHM / FWTM	94 % 0.3 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ 130.0° / 157.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required component PHILIP LED FWHM / FWTM Efficiency	94 % 0.3 cd/lm 1 White hts: Fortimo FastFlex LED 2x8 DA G4+ 130.0° / 157.0° 97 %	
Efficiency Peak intensity LEDs/each optic Light colour Required component ED FWHM / FWTM Efficiency Peak intensity	94 % 0.3 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ 130.0° / 157.0° 97 % 0.3 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component PHILIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.3 cd/lm 1 White hts: Fortimo FastFlex LED 2x8 DA G4+ 130.0° / 157.0° 97 % 0.3 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required component Peak intensity LEDs/each optic Light colour	94 % 0.3 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ 130.0° / 157.0° 97 % 0.3 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component PHILIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.3 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ 130.0° / 157.0° 97 % 0.3 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component Peak intensity LEDs/each optic Light colour	94 % 0.3 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ 130.0° / 157.0° 97 % 0.3 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component Peak intensity LEDs/each optic Light colour	94 % 0.3 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ 130.0° / 157.0° 97 % 0.3 cd/lm 1 White	



PHILIP		
LED	Fortimo FastFlex LED 2x8 DAX G4	90* 90*
FWHM / FWTM	141.0° / 164.0°	75' 72'
Efficiency	94 %	
Peak intensity	0.3 cd/lm	60°
LEDs/each optic	1	200
Light colour	White	6°* 63*
Required compone	nts:	30
		\times
		400
		30° 33°
รлмรเ		
		90* 90*
LED	HiLOM RC12 Z (LH181B)	73.6
FWHM / FWTM	118.0° / 145.0°	100
Efficiency	99 % 0.4 cd/m	60° (60)
Peak intensity		210
LEDs/each optic Light colour	1 White	
Required component		·45*45*
Required component	115.	400
		\times / \top / \times
		30° 15° 0° 15° 30°
SAMSL	ING	90* 90*
LED	HILOM RH12 Z (LH351C)	
FWHM / FWTM	133.0° / 160.0°	73°
Efficiency	97 %	
Peak intensity	0.3 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	45* <u>310</u> 5 [*]
Required compone	nts:	
		400
		\times / \setminus \times
		30° 15° 30°
SAMSL		
		90* 90*
LED FWHM / FWTM	HiLOM RH16 (LH351C) Asymmetric	750 750
Efficiency	Asymmetric 94 %	- 100
Peak intensity	0.3 cd/lm	50 60
LEDs/each optic	1	
Light colour	White	45* 45
Required compone		
		X X
		400
		30* 15 ⁵ 396 15 ⁴ 30*



SAMSI	JNG	50°	
LED	HiLOM RM12 Z (LH502C)		
FWHM / FWTM	121.0° / 150.0°	78	
Efficiency	97 %		
Peak intensity	0.3 cd/lm		
LEDs/each optic	1		
Light colour	White	51	
Required compone	ents:		300
		305	3
SAMSI		23,	0 ⁶ 10 ⁴
		90°	
LED	HiLOM RM16 Z (LH502C)	74	
FWHM / FWTM	122.0° / 152.0°		
Efficiency	99 %	est and the second s	
Peak intensity	0.3 cd/lm		
LEDs/each optic	1		
Light colour	White	45*	
Required compone	ents:	\setminus T	300
			400
		30* 15	an 15° 3
0.0.0.0			
SAMSI			
		P *	
LED	HiLOM RM8 Z (LH502C)	94* 78*	
LED FWHM / FWTM	HiLOM RM8 Z (LH502C) 123.0° / 153.0°	734	200
LED FWHM / FWTM Efficiency	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 %	90° 730 163	- 50
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm	94 78 6*	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/Im 1	94 731 60	30
SAMSULED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White	9* 73 6*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White	92* 734 64*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White	92* 724 63*	500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White	92 72 67	500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White	92* 93*	500 500 900 400 0° 13°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White ents:	94* 94 64 94 94 94 94 94	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White ents: UNG LH351B	94 95 95 95 95 95 95	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White ents: UNG LH351B 134.0° / 158.0°	94 95 95 95 95 95 95 95 95	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White ents: UNG LH351B 134.0° / 158.0° 94 %	94 94 95 95 95 95 95 95 95 95	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANS LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White ents: UNG LH351B 134.0° / 158.0° 94 % 0.3 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White ents: UNC LH351B 134.0° / 158.0° 94 % 0.3 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White ents: UNC LH351B 134.0° / 158.0° 94 % 0.3 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White ents: UNC LH351B 134.0° / 158.0° 94 % 0.3 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALS ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White ents: UNC LH351B 134.0° / 158.0° 94 % 0.3 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALS ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM8 Z (LH502C) 123.0° / 153.0° 98 % 0.3 cd/lm 1 White ents: UNC LH351B 134.0° / 158.0° 94 % 0.3 cd/lm 1 White		

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		XX Y Y
S ΛΜSι	JNG	90* 90*
LED	LH351Z	
FWHM / FWTM	127.0° / 153.0°	775 775
Efficiency	94 %	
Peak intensity	0.3 cd/lm	50°
LEDs/each optic	1	
Light colour	White	·45* 300 45*
Required compone	nts:	
		400
		\times / \times ×
		30° 500 30°
รлмรเ	ING	12, 0, 13,
		90* 90*
LED	LH508A	75°
FWHM / FWTM	Asymmetric	
Efficiency	94 %	age age
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required compone	nts:	
		400
		30° 15° 30°
Elektronik GmbH		
Elektronik GmbH	LED-Pa-L15c2W11c2-xxx-C050-01	
FWHM / FWTM	124.0° / 148.0°	
Efficiency	98 %	
Peak intensity		
	0.3 cd/lm 1	
LEDs/each optic	1	
Peak intensity LEDs/each optic Light colour Required compone	1 White	
LEDs/each optic	1 White	
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour Required compone	1 White	
LEDs/each optic Light colour Required compone	1 White	
LEDs/each optic Light colour Required compone	1 White nts:	99* 99*
LEDs/each optic Light colour Required compone seoul semiconductor LED	1 White nts: Z5M3	33 99°
LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM	1 White nts: Z5M3 Asymmetric	
LEDs/each optic Light colour Required compone scoul semiconductor LED FWHM / FWTM Efficiency	1 White nts: Z5M3 Asymmetric 94 %	
LEDs/each optic Light colour Required compone scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	1 White nts: Z5M3 Asymmetric 94 % 0.3 cd/lm	
LEDs/each optic Light colour Required compone SEQUESTICATION SEQUE	1 White nts: Z5M3 Asymmetric 94 % 0.3 cd/lm 1	79 ³ - 500 - 60
LEDs/each optic Light colour Required compone SEQUESTICATION SEQUESTICATION LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White nts: Z5M3 Asymmetric 94 % 0.3 cd/lm 1 White	
LEDs/each optic Light colour Required compone SEQUESTICATION SEQUE	1 White nts: Z5M3 Asymmetric 94 % 0.3 cd/lm 1 White	
LEDs/each optic Light colour Required compone SEQUE SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White nts: Z5M3 Asymmetric 94 % 0.3 cd/lm 1 White	
LEDs/each optic Light colour Required compone SEQUE SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White nts: Z5M3 Asymmetric 94 % 0.3 cd/lm 1 White	



SEOUL		
SEOUL SEMICONDUCTOR	Z5M4	90* 90*
FWHM / FWTM	120.0° / 142.0°	770 770
Efficiency	98 %	
		604 604
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required compone	nts:	
		400
		30* 30*
SEDUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z8Y22	
FWHM / FWTM	117.0° / 146.0°	75° 76°
Efficiency	94 %	
Peak intensity	0.3 cd/lm	60° 200 60*
LEDs/each optic	1	
Light colour	White	45* 300 45*
Required compone	nts:	
		400
		\times / T / \times
		500
		30° 15° 30°
SEOUL		
SEOUL SEMICONDUCTOR	787220	<u>87.</u>
SEOUL SEMICONDUCTOR	Z8Y22P 136.0° / 163.0°	191- 194- 194-
seoul semiconductor LED FWHM / FWTM	136.0° / 163.0°	9° - 9° 9° - 9°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	136.0° / 163.0° 94 %	90° 90° 70° 100 60° 60°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	136.0° / 163.0° 94 % 0.3 cd/lm	84°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	136.0° / 163.0° 94 % 0.3 cd/lm 1	92* 97* 94* 56* 200 00*
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	136.0° / 163.0° 94 % 0.3 cd/lm 1 White	90°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	136.0° / 163.0° 94 % 0.3 cd/lm 1 White	5° 50 6°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	136.0° / 163.0° 94 % 0.3 cd/lm 1 White	6°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	136.0° / 163.0° 94 % 0.3 cd/lm 1 White	6°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	136.0° / 163.0° 94 % 0.3 cd/lm 1 White	90° - 90° 10° - 200 - 10° 60° - 200 - 60° 10° - 200 - 60° 10° - 200 - 10° 10° - 200 - 10° 10° - 200 - 10° 10° - 200 - 200 - 20° 10° - 200 - 20° 10° - 200 - 20° 10° -
stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	136.0° / 163.0° 94 % 0.3 cd/lm 1 White	92° 97 70° 200 60° 200 60° 200 60° 200 60° 00° 10° 00°
seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	136.0° / 163.0° 94 % 0.3 cd/lm 1 White nts:	80. 50. 50. 80. 50. 50. 80. 50. 60. 80. 50. 60. 80. 50. 60. 80. 50. 60. 80. 50. 60.
seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation >>> LED	136.0° / 163.0° 94 % 0.3 cd/lm 1 White hts:	
seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation >>> LED FWHM / FWTM	136.0° / 163.0° 94 % 0.3 cd/lm 1 White hts: TL1L4 119.0° / 143.0°	
seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency	136.0° / 163.0° 94 % 0.3 cd/lm 1 White hts: TL1L4 119.0° / 143.0° 92 %	
seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation 33 LED FWHM / FWTM Efficiency Peak intensity	136.0° / 163.0° 94 % 0.3 cd/lm 1 White hts: TL1L4 119.0° / 143.0° 92 % 0.3 cd/lm	
seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	136.0° / 163.0° 94 % 0.3 cd/lm 1 White hts: TL1L4 119.0° / 143.0° 92 % 0.3 cd/lm 1	
stour semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	136.0° / 163.0° 94 % 0.3 cd/lm 1 White hts: TL1L4 119.0° / 143.0° 92 % 0.3 cd/lm 1 White	
seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	136.0° / 163.0° 94 % 0.3 cd/lm 1 White hts: TL1L4 119.0° / 143.0° 92 % 0.3 cd/lm 1 White	
stour semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	136.0° / 163.0° 94 % 0.3 cd/lm 1 White hts: TL1L4 119.0° / 143.0° 92 % 0.3 cd/lm 1 White	
stour semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	136.0° / 163.0° 94 % 0.3 cd/lm 1 White hts: TL1L4 119.0° / 143.0° 92 % 0.3 cd/lm 1 White	
stoul standonbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	136.0° / 163.0° 94 % 0.3 cd/lm 1 White hts: TL1L4 119.0° / 143.0° 92 % 0.3 cd/lm 1 White	



TRIDONIC

LED	ŀ
FWHM / FWTM	1
Efficiency	ę
Peak intensity	0
LEDs/each optic	1
Light colour	۱
Required compone	nts

RLE 2x4 2000lm HP EXC2 OTD 137.0° / 159.0° 94 % 0.3 cd/lm 1 White ts:

TRIDON		90* 97*
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	137.0° / 159.0°	71* 71*
Efficiency	94 %	
Peak intensity	0.3 cd/lm	60 ⁺
LEDs/each optic	1	200
Light colour	White	6° 6*
Required componer	nts:	300 300 300 300 300 300 300 300 300 300
TRIDON	lic	91 ⁺ 91 ⁺
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	
FWHM / FWTM	129.0° / 158.0°	751 700 751
Efficiency	94 %	
Peak intensity	0.3 cd/lm	50*
LEDs/each optic	1	
Light colour	White	51 300 67
Required componer		460 30 ³ 20 ⁴ 500 20 ⁴ 10 ⁴ 30 ⁴
TRIDON		90* 90*
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	
FWHM / FWTM	129.0° / 158.0°	75° 77°
Efficiency	94 %	
Peak intensity	0.3 cd/lm	607 66A
LEDs/each optic	1	
Light colour	White	5° 500 5°
Required componer	nts:	30* 10 ² 2000 30* 30*



TRIDO	NIC	50° 50°
LED	RLE G1 49x223mm 4000lm xxx EXC OTD	
FWHM / FWTM	129.0° / 158.0°	770
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	·6°* 300 63*
Required compone	ents:	50° 50° 50° 50° 50°
TRIDO	NIC	91°
LED	RLE G1 49x245mm 4000lm xxx EXC OTD	
FWHM / FWTM	129.0° / 158.0°	750 772
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	-65° 300 47°
Required compone	ents:	



CREE ≑		
		90* 90
LED	XP-G2 HE	75%
FWHM / FWTM	130.0° / 146.0°	
Efficiency	95 %	60
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45
Required components:		
		400
		304 30
		15° & 15°
CREE ≑		90* 90
LED	XP-G3	
FWHM / FWTM	128.0° / 148.0°	75* 75
Efficiency	84 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	65'
Required components:		X
		300
Protective plate	e, glass	X X
		400
		15° 0° 15°
MUMILED)S	90* 99
		50°
	LUXEON 3030 2D (Round LES) 119.0° / 141.0°	92* 92 23* 20
LED FWHM / FWTM	LUXEON 3030 2D (Round LES)	92* 13 ¹ 100 72
LED FWHM / FWTM Efficiency	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 3030 2D (Round LES) 119.0° / 141.0°	
LED FWHM / FWTM Efficiency	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1 White S LUXEON 3030 2D (Square LES)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1 White S LUXEON 3030 2D (Square LES) 121.0° / 143.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1 White S LUXEON 3030 2D (Square LES) 121.0° / 143.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1 White UXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: With Components: Compose LUMILEC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1 White UXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: With Components: Composed State Composed St	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1 White UXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1 White UXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: With Components: Composed State Composed St	LUXEON 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1 White UXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 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 3030 2D (Round LES) 119.0° / 141.0° 94 % 0.3 cd/lm 1 White UXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 cd/lm 1	



A		
	DS	90* 90*
LED	LUXEON 5050 Round LES	
FWHM / FWTM	120.0° / 141.0°	75°
Efficiency	88 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required components:		300
Protective plate	, glass	\times / \setminus \times
		400
		30* 15 ⁵ 0* 15* 30*
	DS Contraction of the second se	90* 90*
LED	LUXEON 5050 Square LES	
FWHM / FWTM	120.0° / 141.0°	73%
Efficiency	88 %	
Peak intensity	0.3 cd/lm	60°
LEDs/each optic	1	200
Light colour	White	45°
Required components:		300
Protective plate	, dass	
		30* 13 ⁵ 0 ⁴ 15* 30 ⁴
Μ ΝΙCΗΙΛ		90° 90°
LED	NV4WB35AM	
FWHM / FWTM	124.0° / 147.0°	75° 75°
Efficiency	96 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45' 45'
Required components:		
		X X
		400
		30* 13 ⁵ 0 ⁶ 15 ⁵ 30*
Μ ΝΙCΗΙΛ		
LED	NVSW219D	80*
FWHM / FWTM	120.0° / 140.0°	750 700
	94 %	
Efficiency		
Efficiency Peak intensity		604
Peak intensity	0.3 cd/lm	50*
Peak intensity LEDs/each optic	0.3 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.3 cd/lm	
Peak intensity LEDs/each optic	0.3 cd/lm 1	60° 300 60°
Peak intensity LEDs/each optic Light colour	0.3 cd/lm 1	60 ⁴ 200 60 ⁴
Peak intensity LEDs/each optic Light colour	0.3 cd/lm 1	



		
ΜΝΙCΗΙΛ		90* 90*
LED	NVSW519A	
FWHM / FWTM	130.0 + 131.0° / 152.0°	75 78
Efficiency	87 %	100
Peak intensity	0.2 cd/lm	60 ⁺
LEDs/each optic	1	
Light colour	White	45+ 200 - 45
Required components:		
		$X \to X$
Protective plate	e, glass	300
		30° 13° 0° 15° 30°
Μ ΝΙCΗΙΛ		90°* 94°
LED	NVSW519A	
FWHM / FWTM	134.0° / 158.0°	75°
Efficiency	95 %	
Peak intensity	0.3 cd/lm	50 ⁴
LEDs/each optic	1	
Light colour	White	45* 45* 45*
Required components:		
		300
		$\times / \rangle \lambda$
		30° 15° 30°
ΜΝΙCΗΙΛ		90* 90*
LED	NVSxE21A	
FWHM / FWTM	118.0° / 138.0°	750 750 750
Efficiency	94 %	
Peak intensity	0.4 cd/lm	50* 200 60*
LEDs/each optic	1	
Light colour	White	45* 300 65*
Required components:		
		400
		500 30* 35 ⁵ 0* 10* 30*
OSRAM		
Opto Semiconductors	OSCONIQ P 3737 (3W version)	90" 90"
FWHM / FWTM	116.0° / 144.0°	734 775
Efficiency	94 %	
Peak intensity	94 % 0.3 cd/lm	60
LEDs/each optic	1	20
Light colour	' White	
Required components:	TTING	30 45
required components.		X X
		40
		\times / \times



SVWSN	NG	90 ¹
LED	HiLOM RH12 Z (LH351C)	
FWHM / FWTM	123.0° / 144.0°	70 72
Efficiency	86 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	20
Light colour	White	67 60
Required components	S:	30
Protective pl	ate class	\times / \setminus \times
i lotective pi	ale, glass	00
		2014 125 ⁶ 0 ⁴ 127 ⁴ 30 ⁴
SAMSU	NG	50 ⁺
LED	LH351D	
EWHM / FWTM	123.0° / 140.0°	72
Efficiency	91 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	Law Marca
Light colour	White	e ^r e
Required components	S:	30
		00
		24 30
SEOUL		
SEOUL SEMICONDUCTOR		<u>90*</u>
LED	SEOUL DC 5050 6V	
FWHM / FWTM	112.0° / 140.0°	
Efficiency	94 %	est and the second s
Peak intensity	0.3 cd/lm	
LEDs/each optic Light colour	1 White	
Required components		e. 30
		40
		20* <u>10</u> * 30



GENERAL INFORMATION:

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

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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