

# PRODUCT DATASHEET C13937\_STRADA-2X2-C-STP

# STRADA-2X2-C-STP

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

#### **SPECIFICATION:**

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



#### **MATERIALS:**

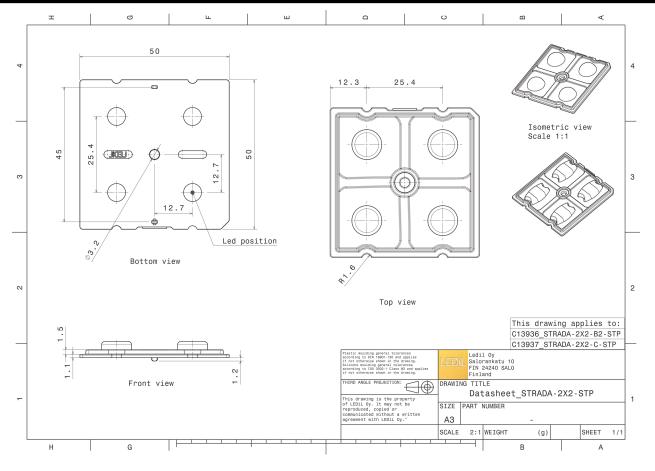
Component	Туре	Material	Colour	Finish
STRADA-2X2-C-STP	Multi-lens	PMMA	clear	

#### **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				



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



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bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Bridgelux SMD 5050 131.0° / 156.0° 94 % 0.3 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	QUICK FLUX XTP 2x4 xxx LS G5 138.0° / 161.0° 94 % 0.3 cd/lm 1 White nts:	20 20 20 20 20 20 20 20 20 20
EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	QUICK FLUX XTP 2x6 xxx LS G5 138.0° / 160.0° 94 % 0.3 cd/lm 1 White hts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	J Series 5050C 6V E Class Asymmetric 97 % 0.3 cd/lm 1 White nts:	



CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XM-L3 Asymmetric 97 % 0.3 cd/lm 1 White hts:	
CREE <del>^</del>		
		90* 90*
LED	XP-G2	73% 73%
FWHM / FWTM Efficiency	137.0° / 158.0° 94 %	500
Peak intensity	94 % 0.3 cd/lm	604
LEDs/each optic	1	200
Light colour	White	45* 45*
Required componer		* **
		100 201 <sup>4</sup> 20 <sup>5</sup> 20 <sup>6</sup> 20 <sup>4</sup>
		90* 90*
LED	XP-G3	
FWHM / FWTM	141.0° / 164.0°	75° 75°
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	65°
Required componer	its:	
		80 <sup>8</sup>
LEDS	XP-L HD	···
FWHM / FWTM	139.0° / 166.0°	75' 75'
Efficiency	92 %	300
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	200
Light colour	White	6' G
Required componer	nts:	30° 120° 20° 120° 20° 20° 20°



			90* 90*
LED	XP-L HI		
FWHM / FWTM	136.0° / 162.0°		75° 75°
Efficiency	94 %		
Peak intensity	0.3 cd/lm		60 <sup>4</sup> 604
LEDs/each optic	1		200
Light colour	White		
Required compone			300
			$\times$ / $\times$
			400
			$\times$ / $\times$ ×
			30° 10° 30°
			po*
LED	XP-L2		
FWHM / FWTM	139.0° / 166.0°		75° 75°
Efficiency	94 %		
Peak intensity	0.3 cd/lm		604 604
LEDs/each optic	1	and the second	200
Light colour	White	and the second se	45*
Required compone		and the second	300
			400
			30* 15 <sup>5</sup> 0° 15* 30*
CUMIL	EDS		90* 90*
LED	LUXEON 5050 Round LES		
FWHM / FWTM	121.0° / 146.0°		75° 75°
Efficiency	94 %		
Peak intensity	0.3 cd/lm		50" 604
LEDs/each optic	1		200
Light colour	White		45'
Required compone	nts:		30
			$\times$
			400
			30*
UMIL	EDS		90* 90*
LED	LUXEON MZ		
FWHM / FWTM	133.0° / 156.0°		75° 75°
Efficiency	94 %		
Peak intensity			
	0.3 cd/lm		
LEDs/each optic	1		
Light colour	1 White		6° 6°
	1 White		e
Light colour	1 White		
Light colour	1 White		57 <u>30</u> 67
Light colour	1 White		5°



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M LUMIL	EDS	
LED	LUXEON TX	
FWHM / FWTM	133.0° / 156.0°	75°
Efficiency	94 %	
Peak intensity	0.3 cd/lm	.634 664
LEDs/each optic	1	200
Light colour	White	
Required componer		45 30 45
	113.	$\times$
		400
		30* <u>500</u> 30* 30*
	EDS	
LED	LUXEON V	
FWHM / FWTM	136.0° / 166.0°	750 780
Efficiency	94 %	100
Peak intensity	0.3 cd/lm	504 604
LEDs/each optic	1	200
Light colour	White	
Required componer		40°
	113.	
		400
		30*
1		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>6</sup>
	INUS	<u>15<sup>2</sup></u> 0 <sup>4</sup> 15 <sup>2</sup>
		90° 90° 15°
LED	SST-10-B130	22 <sup>2</sup> 0 <sup>2</sup> 22 <sup>2</sup>
LED FWHM / FWTM	SST-10-B130 127.0° / 154.0°	99* 15° 15° 15° 15° 15° 15° 15° 15° 15° 15°
LED FWHM / FWTM Efficiency	SST-10-B130 127.0° / 154.0° 97 %	
LED FWHM / FWTM Efficiency Peak intensity	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm	20° 13° 0° 13° 90° 90° 75° 500 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red ints: tions RecLED 122x50mm 1900lm 730 2x4 Opt G1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MSST Vour soluth LED FWHM / FWTM	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Vour solut LED FWHM / FWTM Efficiency	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red ints: tions RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red ints: tions RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component USA END FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MST Vour soluti LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component USA END FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MSST Vour soluti LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MSST Vour soluti LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SST-10-B130 127.0° / 154.0° 97 % 0.3 cd/lm 1 Deep Red ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.3 cd/lm 1 White	



<b>ØNICHI</b>	N	90° 90°
LED	NVSW219F	
FWHM / FWTM	131.0° / 155.0°	73%
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	e:
Required compone	nts:	300
		400
		20*
		20 10 <sup>9</sup> 0 <sup>0</sup> 10 <sup>9</sup> 20
<b>Ø</b> NICHI∕		50° 50°
LED	NVSW319B	
FWHM / FWTM	139.0° / 162.0°	75%
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required compone	nts:	30
		400
		20 12 <sup>5</sup> 90 12 <sup>5</sup> 20
<b>Ø</b> NICHI∕		<u>30*</u> 90*
LED	NVSW3x9A	
FWHM / FWTM	138.0° / 165.0°	73 70 70
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Doguirod compose		340
Required compone	nts:	30
Required compone	nts:	
Required compone	nts:	
r Required compone	nts:	30°
OSRAM		20 <sup>4</sup>
<b>OSRAN</b> LED	PrevaLED Brick HP 2x8	
OSRAN LED FWHM / FWTM	PrevaLED Brick HP 2x8 137.0° / 157.0°	200 200 200 200 200 200 200 200 200 200
OSRAN LED FWHM / FWTM Efficiency	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 %	30 30 30 30 30 30 30 30 30 30
OSRAN LED FWHM / FWTM Efficiency Peak intensity	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm	20 <sup>4</sup> 20 <sup>4</sup> 20 <sup>4</sup> 20 <sup>4</sup>
OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1	
OSRAN 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	
OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PrevaLED Brick HP 2x8 137.0° / 157.0° 94 % 0.3 cd/lm 1 White	
OSRAN 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	
OSRAN 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	
<b>OSRAN</b> 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	



OSRAM Opto Semiconductors		90 <sup>+</sup>
LED	Duris S8	
FWHM / FWTM	131.0° / 154.0°	730 750
Efficiency	94 %	100
Peak intensity	0.3 cd/lm	60 <sup>4</sup>
LEDs/each optic	1	200
Light colour	White	6° 6°
Required componer	nts:	300
		$\times$ / $\times$
		40
		230° 15 <sup>6</sup> 0 <sup>6</sup> 10 <sup>4</sup> 30°
OSRAM Opto Semiconductors		90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	137.0° / 157.0°	73* 77*
Efficiency	94 %	
Peak intensity	0.3 cd/lm	50 <sup>4</sup> 60 <sup>4</sup> .
LEDs/each optic	1	
Light colour	White	40° 300 43°
Required componer	nts:	
		400
		$\times$ / $\times$
		500
1		30 30
OSDAM		20 <u>12</u> 0 <sup>0</sup> 12 <sup>4</sup>
OSRAM Opto Semiconductors		50°
Opto Semiconductors	OSLON Square PC	30 <sup>2</sup> 0 <sup>2</sup> 12 <sup>2</sup> 30 <sup>2</sup>
Opto Semiconductors LED FWHM / FWTM	130.0° / 161.0°	20 20 20 20 20 20 20 20 20 20 20 20 20 2
opto Semiconductors LED FWHM / FWTM Efficiency	130.0° / 161.0° 94 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	130.0° / 161.0° 94 % 0.3 cd/lm	20° <u>20°</u> <u>0°</u> <u>13°</u> D <u>10°</u> <u>0°</u> <u>0°</u> <u>0°</u> <u>0°</u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	130.0° / 161.0° 94 % 0.3 cd/lm 1	20° <u>10°</u> <u>10°</u> <u>10°</u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	130.0° / 161.0° 94 % 0.3 cd/m 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	130.0° / 161.0° 94 % 0.3 cd/m 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	130.0° / 161.0° 94 % 0.3 cd/m 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	130.0° / 161.0° 94 % 0.3 cd/m 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	130.0° / 161.0° 94 % 0.3 cd/m 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	130.0° / 161.0° 94 % 0.3 cd/lm 1 White nts:	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	130.0° / 161.0° 94 % 0.3 cd/m 1 White hts:	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	130.0° / 161.0° 94 % 0.3 cd/lm 1 White hts:	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	130.0° / 161.0° 94 % 0.3 cd/m 1 White hts: S Fortimo FastFlex LED 2x8 DA G4 136.0° / 161.0°	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component ED FWHM / FWTM Efficiency	130.0° / 161.0° 94 % 0.3 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4 136.0° / 161.0° 94 %	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer PHILLOP LED FWHM / FWTM Efficiency Peak intensity	130.0° / 161.0° 94 % 0.3 cd/m 1 White hts: S Fortimo FastFlex LED 2x8 DA G4 136.0° / 161.0° 94 % 0.3 cd/m	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	130.0° / 161.0° 94 % 0.3 cd/m 1 White hts: S Fortimo FastFlex LED 2x8 DA G4 136.0° / 161.0° 94 % 0.3 cd/m 1	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	130.0° / 161.0° 94 % 0.3 cd/m 1 White hts: Fortimo FastFlex LED 2x8 DA G4 136.0° / 161.0° 94 % 0.3 cd/m 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	130.0° / 161.0° 94 % 0.3 cd/m 1 White hts: Fortimo FastFlex LED 2x8 DA G4 136.0° / 161.0° 94 % 0.3 cd/m 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	130.0° / 161.0° 94 % 0.3 cd/m 1 White hts: Fortimo FastFlex LED 2x8 DA G4 136.0° / 161.0° 94 % 0.3 cd/m 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	130.0° / 161.0° 94 % 0.3 cd/m 1 White hts: Fortimo FastFlex LED 2x8 DA G4 136.0° / 161.0° 94 % 0.3 cd/m 1 White	



PHILIF	<b>S</b>		90*
LED	Fortimo FastFlex LED 2x8 DA G4+		
FWHM / FWTM	130.0° / 157.0°		75*
Efficiency	97 %		
Peak intensity	0.3 cd/lm		
LEDs/each optic	1		20
Light colour	White		45'
Required compone	nts:		30
			400
			30° 15°
PHILIF	S		9*
LED	Fortimo FastFlex LED 2x8 DA G5		
FWHM / FWTM	124.0° / 151.0°		75%
Efficiency	98 %		
Peak intensity	0.3 cd/lm		
LEDs/each optic	1		
Light colour	White		45*
Required compone	nts:		300
			460
			30+
PHILIF	20		
LED	Fortimo FastFlex LED 2x8 DAX G4		<u>90</u> +
FWHM / FWTM	141.0° / 164.0°		736
Efficiency	94 %		
Peak intensity			
- our inconoity	0.3 ca/im		
	0.3 cd/lm 1	the second s	
			200
LEDs/each optic	1 White		
LEDs/each optic Light colour	1 White		6°
LEDs/each optic Light colour	1 White		67 - 200 - 400
LEDs/each optic Light colour	1 White		20°
LEDs/each optic Light colour Required compone	1 White nts:		
LEDs/each optic Light colour Required compone	1 White nts:		5 <sup>-</sup> 30 -0- -0- -0- -0- -0- -0- -0- -0- -0-
LEDs/each optic Light colour Required compone	1 White nts: JNG HiLOM RC12 Z (LH181B)		
LEDs/each optic Light colour Required compone	1 White nts: JNG HiLOM RC12 Z (LH181B) 118.0° / 145.0°		
LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	1 White Ints: UNC HiLOM RC12 Z (LH181B) 118.0° / 145.0° 99 %		
LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	1 White Ints: UNC HiLOM RC12 Z (LH181B) 118.0° / 145.0° 99 % 0.4 cd/lm		
LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White Ints: UNC HiLOM RC12 Z (LH181B) 118.0° / 145.0° 99 % 0.4 cd/lm 1		
LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White Ints: WING HiLOM RC12 Z (LH181B) 118.0° / 145.0° 99 % 0.4 cd/lm 1 White		
LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White Ints: WING HiLOM RC12 Z (LH181B) 118.0° / 145.0° 99 % 0.4 cd/lm 1 White		
LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White Ints: WING HiLOM RC12 Z (LH181B) 118.0° / 145.0° 99 % 0.4 cd/lm 1 White		
LEDs/each optic Light colour Required compone <b>SAMSI</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White Ints: WING HiLOM RC12 Z (LH181B) 118.0° / 145.0° 99 % 0.4 cd/lm 1 White		



<b>S</b> ΛΜS	JNG	
LED	HiLOM RH12 Z (LH351C)	
FWHM / FWTM	133.0° / 160.0°	750 750
Efficiency	97 %	
Peak intensity	0.3 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	20
Light colour	White	
Required compone		
		400
		30° 15° 560 15° 30°
SAMSU	JNG	90° - 90°
LED	HiLOM RH16 (LH351C)	
FWHM / FWTM	Asymmetric	73%
Efficiency	94 %	
Peak intensity	0.3 cd/lm	50°
LEDs/each optic	1	
Light colour	White	45'
Required compone	onts:	
		400
		30* 30*
		15 <sup>3</sup> 90 15*
СЛЛЛСІ	INC	
		90° 90°
	HiLOM RM12 Z (LH502C)	97 97 71
LED FWHM / FWTM	HiLOM RM12 Z (LH502C) 121.0° / 150.0°	99* 99* 78* 200
LED FWHM / FWTM Efficiency	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 %	90° 90° 30° 90°
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm	90 <sup>4</sup> 92 <sup>4</sup> 73 <sup>4</sup> 200 62 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1	90° 92° 73° 200 61° 67°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White	99 <sup>5</sup> 73 63 <sup>6</sup> 63 <sup>7</sup> 63 <sup>7</sup> 64 <sup></sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White	50° 75° 60° 60° 60° 60° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White	50 50 50 50 50 50 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 60 60 60 60 60 60 60 60 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White ents: UNG HiLOM RM16 Z (LH502C)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White ents: JNG HiLOM RM16 Z (LH502C) 122.0° / 152.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White mts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White mts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSSU</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White mts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White mts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSS</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White mts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 121.0° / 150.0° 97 % 0.3 cd/lm 1 White mts:	



<u> </u>	JNG		90*	90*
LED	HiLOM RM8 Z (LH502C)			
FWHM / FWTM	123.0° / 153.0°		759	78
Efficiency	98 %			
Peak intensity	0.3 cd/lm			
LEDs/each optic	1			
Light colour	White		45*	6
Required compone	nts:			00
				00
			30° 15 <sup>5</sup>	° 15° 30'
<u> </u> <b>     S</b> M     S     I	JNG		90*	
LED	LH351B			
FWHM / FWTM	134.0° / 158.0°		750	00 75°
Efficiency	94 %			
Peak intensity	0.3 cd/lm		504	
LEDs/each optic	1			
Light colour	White		45*	60 45'
Required compone	nts:			
				~
			30* 153	30° 15° 30°
<u> </u>	ING			FT
LED	LH351Z			
FWHM / FWTM	127.0° / 153.0°		75%	78
Efficiency	94 %			
Peak intensity	0.3 cd/lm		504	60
LEDs/each optic	1			
Light colour	White		45*	
Required compone	nts:			
			X	
				00
				00 00 00 00 00 00 00 00 00 00 00 00 00
SAMSI	ING		30° 33	00 10 10 30 10 30 10 10 10 10 10 10 10 10 10 1
SAMSU		 	50° 55°	00 00 00 00 00 00 00 00 00 00 00 00 00
LED	LH508A	 	90° 30°	00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM	LH508A Asymmetric		30 <sup>4</sup> 30 <sup>4</sup>	
LED FWHM / FWTM Efficiency	LH508A Asymmetric 94 %		90° 19 <sup>3</sup>	
LED FWHM / FWTM Efficiency Peak intensity	LH508A Asymmetric		20 <sup>4</sup> 20 <sup>3</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH508A Asymmetric 94 % 0.3 cd/lm 1	 	20° 25°	
LED FWHM / FWTM Efficiency Peak intensity	LH508A Asymmetric 94 % 0.3 cd/lm 1 White		20° 25°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH508A Asymmetric 94 % 0.3 cd/lm 1 White		44° 18° 18° 18°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH508A Asymmetric 94 % 0.3 cd/lm 1 White		90°	



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LED	LED-Pa-L15c2W11c2-xxx-C050-01
FWHM / FWTM	124.0° / 148.0°
Efficiency	98 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour	White
Required componen	its:

SEOUL		20*
SEOUL SEMICONDUCTOR	Z5M3	
FWHM / FWTM	Asymmetric	734
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	30
		30* <u>20</u> * <u>20</u> * 3
SEOUL SEMICONDUCTOR		89.
LED	Z5M4	
FWHM / FWTM	120.0° / 142.0°	
Efficiency	98 %	
Peak intensity	0.3 cd/lm	60° ( 200
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	$\times$
		40 30° 20' 10'
SEOUL SEMICONDUCTOR		50°
LED	Z8Y22	
FWHM / FWTM	117.0° / 146.0°	
Efficiency	94 %	
Peak intensity	0.3 cd/lm	×** /
LEDs/each optic	1	
Light colour	White	43* 30
Required compone	nts:	400



SEOUL		
	70//000	90* 90*
LED	Z8Y22P	750 750
FWHM / FWTM	136.0° / 163.0°	
Efficiency	94 %	60*
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	6° 6°
Required componer	its:	
		$\times$
		400
		123 <sup>3</sup> 0 <sup>6</sup> 15°
TOSHIBA Leading Innovation >>>		
	TL1L4	90* 90*
FWHM / FWTM	119.0° / 143.0°	731 731
	92 %	
Efficiency		507 504
Peak intensity	0.3 cd/lm	200
LEDs/each optic	1	
Light colour	White	
Required componer	its:	$\times$
		400
		30* 500 30*
		13' 0' 15'
TRIDON		
LED	RLE 2x4 2000lm HP EXC2 OTD	
FWHM / FWTM	137.0° / 159.0°	
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer	its:	
TRIDON		
		90* 90*
LED	RLE 2x8 4000lm HP EXC2 OTD	770
FWHM / FWTM	137.0° / 159.0°	
Efficiency	94 %	50°
Peak intensity	0.3 cd/lm	200
LEDs/each optic	1	
Light colour	White	45* 65*
Required componer	its:	
I vedanea componei		



TRIDOM	NIC .	9**
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	
FWHM / FWTM	129.0° / 158.0°	731 73
Efficiency	94 %	
Peak intensity	0.3 cd/lm	. 60°
LEDs/each optic	1	
Light colour	White	45° 45
Required compone	ents:	600
		200
		30° 1000 30°
TRIDOM	NIC .	90* 90
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	
FWHM / FWTM	129.0° / 158.0°	77* 200
Efficiency	94 %	
Peak intensity	0.3 cd/lm	50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	er 100 er
Required compone	ents:	
		000
		125 <sup>3</sup> 0 <sup>6</sup> 15°
TRIDOM	NIC .	30* 30*
LED	RLE G1 49x223mm 4000lm xxx EXC OTD	
FWHM / FWTM	129.0° / 158.0°	732 772
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
- can interiory		400
LEDs/each optic	1	
		5° 60 6
LEDs/each optic	1 White	
LEDs/each optic Light colour	1 White	-07 000 00
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour Required compone	1 White ents:	
LEDs/each optic Light colour Required compone	1 White ents:	
LEDs/each optic Light colour Required compone	1 White ents:	
LEDs/each optic Light colour Required compone	1 White ents: NIC RLE G1 49x245mm 4000lm xxx EXC OTD 129.0° / 158.0°	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency	1 White ents: NIC RLE G1 49x245mm 4000lm xxx EXC OTD 129.0° / 158.0° 94 %	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity	1 White Ints: RLE G1 49x245mm 4000lm xxx EXC OTD 129.0° / 158.0° 94 % 0.3 cd/lm	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White Ints: RLE G1 49x245mm 4000lm xxx EXC OTD 129.0° / 158.0° 94 % 0.3 cd/lm 1	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ents:	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency	1 White ents:	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ents:	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ents:	



		90* 90*
LED	XP-G2 HE	
FWHM / FWTM	130.0° / 146.0°	750 750
Efficiency	95 %	100
Peak intensity	0.3 cd/lm	oor (() or)) or
LEDs/each optic	1	
Light colour	White	
Required components:	Winte	
		$\times$ / $\times$
		400
		$\times$ / $\setminus$ $\times$
		30° 13 <sup>5</sup> 2 <sup>6</sup> 18 <sup>6</sup> 30°
CREE ≑		
LEDS		90* 90*
	XP-G3	750 750
FWHM / FWTM	128.0° / 148.0°	100
Efficiency	84 %	
Peak intensity	0.3 cd/lm	( man )
LEDs/each optic		**
Light colour	White	6°.
Required components:		30
Protective plate	alass	
		30* 15 <sup>5</sup> 0° 15* 30*
	)S	
LED		90* 90*
ED FWHM / FWTM	LUXEON 3030 2D (Round LES)	75°
	119.0° / 141.0° 94 %	
Efficiency	94 % 0.3 cd/lm	60*
Peak intensity LEDs/each optic	1	
Light colour		
Required components:	White	45° 300 45°
Required components:	white	6° <u>30</u> 6°
Required components:	white	6, <u>30</u> 0,
Required components:	white	6, <u>30</u> 0 <sup>*</sup>
Required components:	white	5° 30 6° 30° 30° 30° 5° 30° 30° 30°
		20 20 20
	S	20 20 20
	DS LUXEON 3030 2D (Square LES)	20 20 20
LUMILED FWHM / FWTM	<b>DS</b> LUXEON 3030 2D (Square LES) 121.0° / 143.0°	20 20 20
ED FWHM / FWTM Efficiency	S LUXEON 3030 2D (Square LES) 121.0° / 143.0° 94 %	20 20 20
ED FWHM / FWTM Efficiency Peak intensity	DS LUXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 cd/lm	20 20 20
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	DS LUXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 cd/lm 1	20 20 20
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	DS LUXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 cd/lm	20 20 20
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	DS LUXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 cd/lm 1	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	DS LUXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 cd/lm 1	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	DS LUXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 cd/lm 1	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	DS LUXEON 3030 2D (Square LES) 121.0° / 143.0° 94 % 0.3 cd/lm 1	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°



UMILE	DS	30*
LED	LUXEON 5050 HE	
FWHM / FWTM	120.0° / 143.0°	750
Efficiency	87 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45'
Required components:		30
Protective plat	e, glass	40
<u></u>		(30* 13 <sup>*</sup> 0* 15*
		90*
LED	LUXEON 5050 HE	70
FWHM / FWTM	122.0° / 145.0°	300
Efficiency	96 %	60*
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45'
Required components:		
		X    X
		400
		30*
	S	
LED	LUXEON 5050 Round LES	
FWHM / FWTM	120.0° / 141.0°	754
Efficiency	88 %	
Peak intensity	0.3 cd/lm	504
LEDs/each optic	1	
Light colour	White	45'
Required components:		$  \times     \times  $
		300
Protective plat	e, glass	
	e, glass	20
Protective plat		20 20 20 20 20 20 20 20 20 20 20 20 20 2
Protective plat	S	90°
Protective plat	DS LUXEON 5050 Square LES	30* 13 <sup>1</sup> 0 <sup>2</sup> 13 <sup>1</sup>
Protective plat	DS LUXEON 5050 Square LES 120.0° / 143.0°	50 50 50 50 50 50 50
Protective plat	DS LUXEON 5050 Square LES 120.0° / 143.0° 96 %	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Protective plat	DS LUXEON 5050 Square LES 120.0° / 143.0° 96 % 0.3 cd/lm	50 20 20 20 20 20 20 20 20 20 20 20 20 20
Protective plat	DS LUXEON 5050 Square LES 120.0° / 143.0° 96 % 0.3 cd/lm 1	29 29 29 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
Protective plat	DS LUXEON 5050 Square LES 120.0° / 143.0° 96 % 0.3 cd/lm	
Protective plat	DS LUXEON 5050 Square LES 120.0° / 143.0° 96 % 0.3 cd/lm 1	
Protective plat	DS LUXEON 5050 Square LES 120.0° / 143.0° 96 % 0.3 cd/lm 1	
Protective plat	DS LUXEON 5050 Square LES 120.0° / 143.0° 96 % 0.3 cd/lm 1	



🖉 LUMILE	DS	50°
LED	LUXEON 5050 Square LES	
FWHM / FWTM	120.0° / 141.0°	726-
Efficiency	88 %	50 <sup>4</sup>
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	200
Light colour	White	6° e
Required components:		30
Protective pla	te, glass	$\times$
	DS	×*
LED	LUXEON HL2Z	
FWHM / FWTM	118.0° / 136.0°	730 73
Efficiency	95 %	
Peak intensity	0.4 cd/lm	.60 <sup>4</sup> 200 60
LEDs/each optic	1	
Light colour	White	. 65° 200 et
Required components:		
		460
•		
	DS	90*
LED	LUXEON HL2Z	
FWHM / FWTM	117.0° / 134.0°	71
Efficiency	87 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	42* 300 42
Required components:		
		40
Protective pla	le, glass	$\times$ / $\times$
		20 <sup>4</sup> 20 <sup>3</sup> q <sup>4</sup> 10 <sup>4</sup> 21
	DS	84
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
FWHM / FWTM	126.0° / 138.0°	75*
Efficiency	96 %	
Peak intensity	0.3 cd/lm	504
LEDs/each optic	1	
Light colour	White	
Required components:		300
		$\times$
		400



UMILEC	)S	
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
FWHM / FWTM	124.0° / 138.0°	73*
Efficiency	86 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		30
Protective plate	, glass	40
		30° 15) 0° 15' 36
<b>Μ</b> ΝΙCΗΙΛ		90*
LED	NF2x757G	
FWHM / FWTM	120.0° / 141.0°	751 200
Efficiency	87 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	6° 6
Required components:		30
Protective plate		
	, 9033	40
		30 <sup>4</sup> 25 <sup>6</sup> 0 <sup>6</sup> 15 <sup>4</sup> 30
<b>MNICHIA</b>		30*
LED	NV4WB35AM	
FWHM / FWTM	124.0° / 147.0°	73* 75
Efficiency	96 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	-67
Required components:		
		400
		30* <u>15*</u> 0* <u>15*</u> 30
<b>Μ</b> ΝΙCΗΙΛ		9 <sup>1</sup>
LED	NVSW219D	
FWHM / FWTM	120.0° / 140.0°	73%
Efficiency	94 %	
Peak intensity	0.3 cd/lm	·····
LEDs/each optic	1	
Light colour	White	-53* 3/0 55
Required components:		
		$\times$ / $\top$ / $\times$

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<b>ΜΝΙCΗΙΛ</b>		
LED	NVSxE21A	
FWHM / FWTM	118.0° / 138.0°	75° 78
Efficiency	94 %	
Peak intensity	0.4 cd/lm	504 604
LEDs/each optic	1	
Light colour	White	45" 300 65"
Required components:		
		400
		$\times$ / $\times$
		30° 15° 30°
OSRAM Opto Semiconductors		90* 90
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	116.0° / 144.0°	75° 75'
Efficiency	94 %	
Peak intensity	0.3 cd/lm	est for
LEDs/each optic	1	20
Light colour	White	45' 45'
Required components:		20
		400
		30° 13 <sup>5</sup> 30° 15° 30°
OSRAM Opto Semiconductors		90° 90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	124.0° / 144.0°	73° 77°
Efficiency		100
Lindionoy	84 %	
-	84 % 0.3 cd/lm	567
Peak intensity LEDs/each optic		БУ <sup>2</sup> (рустанования) (рус
Peak intensity	0.3 cd/lm	
Peak intensity LEDs/each optic	0.3 cd/lm 1	6 <sup>2</sup> 6 <sup>3</sup>
Peak intensity LEDs/each optic Light colour Required components:	0.3 cd/lm 1 White	60 <sup>5</sup> 60 <sup>7</sup>
Peak intensity LEDs/each optic Light colour	0.3 cd/lm 1 White	6 <sup>1</sup> 6 <sup>1</sup> 6 <sup>1</sup>
Peak intensity LEDs/each optic Light colour Required components:	0.3 cd/lm 1 White	20
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.3 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.3 cd/lm 1 White	20
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.3 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DA HE	20
Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM	0.3 cd/lm 1 White a, glass Fortimo FastFlex LED 2x8 DA HE 122.0° / 140.0 + 138.0°	20
Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency	0.3 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DA HE 122.0° / 140.0 + 138.0° 97 %	20
Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency Peak intensity	0.3 cd/lm 1 White s, glass Fortimo FastFlex LED 2x8 DA HE 122.0° / 140.0 + 138.0° 97 % 0.3 cd/lm	20
Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate EDE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.3 cd/lm 1 White s, glass Fortimo FastFlex LED 2x8 DA HE 122.0° / 140.0 + 138.0° 97 % 0.3 cd/lm 1	20
Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate EDE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.3 cd/lm 1 White s, glass Fortimo FastFlex LED 2x8 DA HE 122.0° / 140.0 + 138.0° 97 % 0.3 cd/lm	20
Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate EDE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.3 cd/lm 1 White s, glass Fortimo FastFlex LED 2x8 DA HE 122.0° / 140.0 + 138.0° 97 % 0.3 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.3 cd/lm 1 White s, glass Fortimo FastFlex LED 2x8 DA HE 122.0° / 140.0 + 138.0° 97 % 0.3 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.3 cd/lm 1 White s, glass Fortimo FastFlex LED 2x8 DA HE 122.0° / 140.0 + 138.0° 97 % 0.3 cd/lm 1	



	3	
PHILIPS		50°
LED	Fortimo FastFlex LED 2x8 DA HE	
FWHM / FWTM	120.0° / 140.0 + 138.0°	70
Efficiency	86 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	20
Light colour	White	5.
Required components:		30
Protective pla	te, glass	
0.0.0.0.0.0.0		201 <sup>4</sup> 10 <sup>6</sup> 20 <sup>4</sup> 20 <sup>4</sup>
SAMSUI		22
LED	HiLOM RH12 Z (LH351C)	
FWHM / FWTM	123.0° / 144.0°	
Efficiency	86 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	200
Light colour	White	
Required components:		30
Protective pla	te, glass	
		10° 10° 10°
SAMSUI	NG	90* 9
LED	LH351D	
FWHM / FWTM	123.0° / 140.0°	720
Efficiency	91 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	the second
Light colour	White	45°
Required components:		300
		$\times$
		40
		32
SEQUL		
		90*
	MJT 5050	21
FWHM / FWTM	121.0° / 143.0°	
Efficiency	96 %	504
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	42.
Required components:		20
		440



SEOUL SEMICONDUCTOR

LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL DC 5050 6V 112.0° / 140.0° 94 % 0.3 cd/lm 1 White

