

# PRODUCT DATASHEET C12360\_STRADA-2X2-DNW

# STRADA-2X2-DNW

Soft wide beam with good illuminance uniformity

### **TECHNICAL SPECIFICATIONS:**

Dimensions	50.0 x 50.0 mm
Height	11.3 mm
Fastening	glue, pin, screw
ROHS compliant	yes 🛈



# MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourFinishSTRADA-2X2-DNWMulti-lensPMMAclear

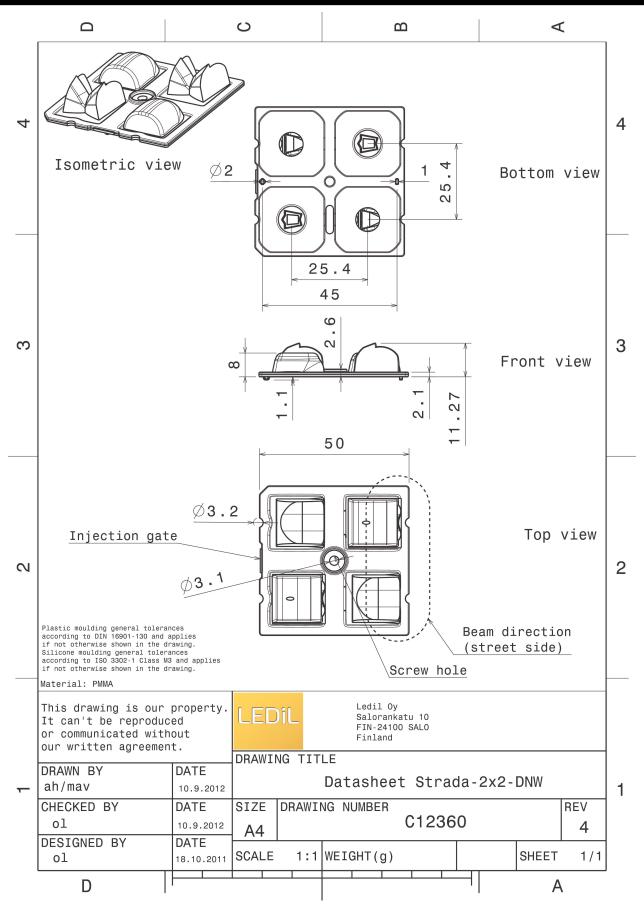
#### **ORDERING INFORMATION:**

Component C12360\_STRADA-2X2-DNW » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
800	160	160	8.2



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

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		50° 50°
LED	QUICK FLUX XTP 2x4 xxx LS G5	
FWHM / FWTM	Asymmetric	751 751
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60° 60°
LEDs/each optic	1	
	White	
Light colour		- 65° - 300 - 65°
Required compone	IIS:	$\times$
		460
		30° 200 30° 30°
CODIT		
		90° 90°
LED	QUICK FLUX XTP 2x6 xxx LS G5	
FWHM / FWTM	Asymmetric	500
Efficiency	94 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45" 300 45"
Required compone	nts:	
		400
		$\times$
		30° 15° 0° 15°
		50° 99'
LED	XM-L	
FWHM / FWTM	Asymmetric	73%
Efficiency	93 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	X
Light colour	White	6°
Required compone	nts:	400
		660
		13 <sup>5</sup> 0 <sup>6</sup> 15 <sup>6</sup> 30 <sup>6</sup>
		90*
LED	- XM-L2	
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	30
Required compone		45* 450
	110.	$\times$ $\times$ $\times$
		540
		30° 500 30° 30°



LED	 XM-L3	
FWHM / FWTM	158.0 + 65.0° / 180.0 + 127.0°	75°
Efficiency	96 %	
Peak intensity	0.5 cd/lm	. 60 <sup>%</sup>
LEDs/each optic	1	
	White	X Joo X
Light colour Required compone		(d5* 65*
Required compone	IIS	- 400
		500
		30° 25 <sup>2</sup> 0° 15° 30°
		90* 90*
LED	XP-G	700
FWHM / FWTM	Asymmetric	
Efficiency	93 %	80° 200 60°
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	30
Light colour	White	40°
Required compone	nts:	
		50
		30* 000 30*
		90* 90*
LED	XP-G2	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	501 501
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	300
Light colour	White	45* 460 45*
Required compone	nts:	
		500
		30° 15° 0° 15° 30°
		90° 90°
LED	XP-G3	770
FWHM / FWTM	Asymmetric	75*
Efficiency	95 %	50 <sup>4</sup> 50 <sup>4</sup>
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	X / 300 X
Light colour	White	
Required compone	nts:	400
		000
		X
		302 600 304
		13, 0, 12,



		90* 90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	75* 200 75*
Efficiency	89 %	
Peak intensity	0.5 cd/lm	.60* 60*
LEDs/each optic	1	
Light colour	White	45° 300 57°
Required componer	its:	
C17580_STRAD	A-2X2-SHD-WHT	400
		$\times$ / $\setminus$ $\times$
		30* 500 30*
		13 <sup>3</sup> 0 <sup>4</sup> 1 <sup>5</sup>
		90* 90*
LED	XP-G3	770
FWHM / FWTM	Asymmetric	100
Efficiency	79%	50*
Peak intensity	0.5 cd/lm	20
LEDs/each optic	1	
Light colour	White	45* 300 45*
Required componer		$\times$
C17677_STRAD	A-2X2-SHD-BLK	400
		$\times$
		30° <u>500</u> 15° 30°
LED	XP-L HD	
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	.60 <sup>4</sup> 200 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	.G* 300 G*
Required componer	its:	
		40
		30* 30*
		50* 50*
	XP-L HI	75
FWHM / FWTM Efficiency	Asymmetric 94 %	
Peak intensity	94 % 0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	ar 30
Required componer		hab. (04,
		40
		X     X
		500
		30° 15° 90°



The second		
LED	XP-L2	30'
FWHM / FWTM	Asymmetric	75. 100 75.
Efficiency	94 %	
Peak intensity	0.4 cd/lm	60° 200 60°.
LEDs/each optic	1	
Light colour	White	37° 340 97°
Required componer		
		400
		$\times$
		200
		130° 15 <sup>5</sup> 0° 15° 30°
		90* 90*
LED	XT-E	
FWHM / FWTM	Asymmetric	75*
Efficiency	93 %	
Peak intensity	0.3 cd/lm	60° 200 60°
LEDs/each optic	1	
Light colour	White	45* 300 45*
Required componer	ts:	400
		$\times$ $\land$ $\times$
		200
		30* 30*
		13 2 2 15
		90° 90°
LED	XT-E HVW	75°
FWHM / FWTM	Asymmetric	
Efficiency	%	6'
Efficiency LEDs/each optic	% 1	er bit
Efficiency LEDs/each optic Light colour	% 1 White	61
Efficiency LEDs/each optic	% 1 White	84
Efficiency LEDs/each optic Light colour	% 1 White	80
Efficiency LEDs/each optic Light colour	% 1 White	6 <sup>1</sup> 2 <sup>1</sup> 6 <sup>1</sup> 40 6 <sup>2</sup> 50
Efficiency LEDs/each optic Light colour	% 1 White	60
Efficiency LEDs/each optic Light colour Required componer	% 1 White ts:	80
Efficiency LEDs/each optic Light colour Required componer	% 1 White ts:	60° 000 000 60° 000 60° 000 80° 000
Efficiency LEDs/each optic Light colour Required componer	% 1 White ts: EDS LUXEON MZ	20 50 50 50 50 50 50 50 50 50 5
Efficiency LEDS/each optic Light colour Required componer	% 1 White ts: EDS LUXEON MZ Asymmetric	60 00 00 00 00 00 00 00 00 00 00 00 00 0
Efficiency LEDs/each optic Light colour Required componer	% 1 White ts: EDS LUXEON MZ Asymmetric 94 %	
Efficiency LEDs/each optic Light colour Required componer	% 1 White tts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm	
Efficiency LEDs/each optic Light colour Required componer	% 1 White ts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm 1	
Efficiency LEDs/each optic Light colour Required componer	% 1 White ts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm 1 White	
Efficiency LEDs/each optic Light colour Required componer	% 1 White ts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm 1 White	
Efficiency LEDs/each optic Light colour Required componer	% 1 White ts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm 1 White	
Efficiency LEDs/each optic Light colour Required componer	% 1 White ts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm 1 White	



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LED	LUXEON Q	90*	90*
FWHM / FWTM	Asymmetric	756 100	100
Efficiency	94 %		
	94 % 0.6 cd/lm	50* 200	60*
Peak intensity			$\times$
LEDs/each optic	1	X	
Light colour	White	45°	45*
Required compone	nts.	400	
		$\times$	
		500	
		30° 15° 0° 15°	30*
	EDC		-
		90*	90*
LED	LUXEON Rebel ES	100	
FWHM / FWTM	Asymmetric		> 7
Efficiency	93 %	60+ 200	60%
Peak intensity	0.3 cd/lm		
LEDs/each optic	1	300	
Light colour	White	45* 400	45+
Required compone	nts:		X
		× 7 × *	$\boldsymbol{\times}$
		500	$\sim$
		30*	30*
	EDS		
		8*	90*
LED	LUXEON T	99° 73° 100	90°
LED FWHM / FWTM	LUXEON T Asymmetric	9° 7° 100	90*
LED FWHM / FWTM Efficiency	LUXEON T Asymmetric 93 %	90 <sup>5</sup> 100 44 <sup>4</sup>	90°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON T Asymmetric 93 % 0.6 cd/lm		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON T Asymmetric 93 % 0.6 cd/lm 1		95°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White		90 <sup>+</sup> 90 <sup>+</sup> 60 <sup>+</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White		9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White		97 72 64 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White		14 17 17 17 17 17 17 17 17 17 17 17 17 17
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White		92" 75 69 <sup>4</sup> 67 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts:	e60 500 33*	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts:	e60 500 33*	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts:	e60 500 33*	99 <sup>7</sup> 75 <sup>4</sup> 69 <sup>4</sup> 75 <sup>4</sup> 75 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts: EDS LUXEON TX Asymmetric	e60 500 33*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts: EDS LUXEON TX Asymmetric 94 %	e60 500 33*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Weak intensity	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts: EDS LUXEON TX Asymmetric 94 % 0.6 cd/lm	e60 500 33*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>Composition</b> Required compone <b>Composition</b> <b>Composition</b>	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts: EDS LUXEON TX Asymmetric 94 % 0.6 cd/lm 1	e60 500 33*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Equired component Component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts: EDS LUXEON TX Asymmetric 94 % 0.6 cd/lm 1 White	e60 500 33*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>Composition</b> Required compone <b>Composition</b> <b>Composition</b>	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts: EDS LUXEON TX Asymmetric 94 % 0.6 cd/lm 1 White	e60 500 33*	192 192 192 192 192 192 192 192 192 192
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Equired component Component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts: EDS LUXEON TX Asymmetric 94 % 0.6 cd/lm 1 White	e60 500 33*	92 75 67 97 97 97 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Equired component Component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts: EDS LUXEON TX Asymmetric 94 % 0.6 cd/lm 1 White	e60 500 33*	92 93 93 94 94 95 95 95 95 95 95 95 95 95 95 95 95 95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts: EDS LUXEON TX Asymmetric 94 % 0.6 cd/lm 1 White	e60 500 33*	100 100 100 100 100 100 100 100 100



UMIL	EDS		CTI
		90*	90
	LUXEON V2	75*	
FWHM / FWTM	Asymmetric		
Efficiency	94 %	608	
Peak intensity	0.5 cd/lm		$\prec$
LEDs/each optic	1	X	
Light colour	White	.45°	
Required compone	ents:	400	+
		500	
		30° 15° 0°	15* 3
	EDS		FT.
LED	LUXEON Z ES		
FWHM / FWTM	Asymmetric	750 100	1
Efficiency	94 %		
Peak intensity	0.6 cd/lm	504 200	
LEDs/each optic	1		
Light colour	White	45*	T .
Required compone		400	
		$\times$	
		540	
		30° 15° 80	15* 30
MST Your solut	itions	1-1	T-T
		90°	90
	RecLED 122x50mm 1900lm 730 2x4 Opt G1	50*	90
LED		39* 25*	*
LED FWHM / FWTM	RecLED 122x50mm 1900lm 730 2x4 Opt G1	30° 72°	9
LED FWHM / FWTM Efficiency	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric	30* 73* 61* 210	9
LED FWHM / FWTM Efficiency Peak intensity	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 %	30* 75* 60* 209	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm	5° - 30	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White	30° 72° 60° 60° 60° 60° 80° 80°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White	30" 725 60" 60" 700 700 700 700 700 700 700	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White	30° 73° 63° 65° 60° 60°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White	30° 25° 00° 200 200 200 200 200 200 200 200 20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents:	90 <sup>4</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 %	90 <sup>4</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm	90 <sup>4</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm 1	90 <sup>4</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White	90 <sup>4</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White	90 <sup>4</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White	90 <sup>4</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White	90 <sup>4</sup>	

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ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 94 % 0.5 cd/lm 1 White			90 90 90 90 90 90 90 90 90 90 90 90 90 9
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White			
	NVSxE21A	 	 30 <sup>4</sup> 33 <sup>9</sup>	50 01 12* 3* 50*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.3 cd/lm 1 White nts:		-02. 94.	
OSRAM	PrevaLED Brick HP 2x8		30°	200 07 12* 09*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.6 cd/lm 1 White		6°	



000414		
OSRAM Opto Semiconductors		90° 90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	25*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	61° 210 60°
LEDs/each optic	1	
Light colour	White	ά3° α3°
Required componer	nts:	40
		X   X
		500
		300 300
OCDAM		15 <sup>5</sup> 600 15 <sup>6</sup>
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square PC	
FWHM / FWTM	Asymmetric	73° 77°
Efficiency	93 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 310 45*.
Required componer	nts:	$\times$
		400
		30* 500 30*
		<u> </u>
DUIID		TYY FFT
PHILIP		82
LED	Fortimo FastFlex LED 2x8 DA G4	50°
LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G4 Asymmetric	27 <u>10</u>
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 %	80° 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/m	10 10 64* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White	5° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White	5° 6° 6° 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/m 1 White hts:	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts:	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: SFortimo FastFlex LED 2x8 DA G4+	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer PHILIP LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 %	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer EQUIPMENT LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 % 0.6 cd/lm	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 % 0.6 cd/lm 1	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 % 0.6 cd/lm 1 White	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 % 0.6 cd/lm 1 White	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 % 0.6 cd/lm 1 White	400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 % 0.6 cd/lm 1 White	40



PHILIP	S	
LED	Fortimo FastFlex LED 2x8 DA G5	
FWHM / FWTM	Asymmetric	754 200 751
Efficiency	97 %	
Peak intensity	0.6 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	57 310 57
Required compone		
		400
		× × ×
		20° 15 <sup>5</sup> 0° 15° 30°
PHILIP	S	
		90* 90*
LED	Fortimo FastFlex LED 2x8 DAX G4	75° 100 75°
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60 <sup>4</sup> 200 604
LEDs/each optic	1	
Light colour	White	45* 310 45*
Required compone		
Required compone	ю.	400
		30° 25° 8° 13° 30°
<b>S</b> ΛΜSL		THY EFT
		90* 90*
LED	HiLOM RC12 Z (LH181B)	23- 26- 26- 26- 26- 26- 26- 26- 26- 26- 26
LED FWHM / FWTM	HiLOM RC12 Z (LH181B) Asymmetric	22° 200 20°
LED FWHM / FWTM Efficiency	HiLOM RC12 Z (LH181B) Asymmetric 97 %	100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/m	50° 50° 75° 500 70° 00° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1	90° 90° 73° 000 90° 00° 000 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White	5° 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White	94* 94* 94* 94* 94* 94* 94* 94*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White	50° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HILOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HILOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White Its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HILOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HILOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White hts: HILOM RH12 Z (LH351C) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HILOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity	HILOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSE</b> EMHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HILOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HILOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSE</b> EMHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HILOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSE</b> EMHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HILOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/m 1 White hts:	



SAMSL		THY FFI
		90* 90
LED	HiLOM RH16 (LH351C)	75
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60* 60"
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	6° 6'
Required compone	nts:	400
		30° 13° 9° 15° 30°
SAMSL	ING	
LED	HiLOM RM12 Z (LH502C)	90° 90'
FWHM / FWTM	Asymmetric	75*
Efficiency	96 %	7 200
Peak intensity	0.4 cd/lm	ent of or
LEDs/each optic	1	
Light colour	White	
Required compone		300
		$\times$
		400
		$\times$
		30° 30° 30° 30°
SAMSL	INC	NY M
UNIVIJU		90° 90°
LED		90°
	HiLOM RM16 Z (LH502C) Asymmetric	92* 92' 74* 509
LED	HiLOM RM16 Z (LH502C)	94 99 24 500
LED FWHM / FWTM	HiLOM RM16 Z (LH502C) Asymmetric	91 921 721 - 100 601 - 200
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM16 Z (LH502C) Asymmetric 98 %	51 50 71 60 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White	5° 70 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White	9° 76 6° 0° 90 6° 90 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White	91 92 30 60 60 60 60 60 60 60 60 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White	51 597 72 50 60 20 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White nts: JNG HiLOM RM8 Z (LH502C) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SANNSU</b> LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSE</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSU</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALNSL ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSU</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSU</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White nts:	

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<b>S</b> ΛΜSL	ING	
LED	LH351B	90° 90°
FWHM / FWTM	Asymmetric	75* 100 75*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	63 <sup>4</sup> 210 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	5° 30
Required component		· · · · · · · · · · · · · · · · · · ·
riedanea compone		
		540
		30* 15 <sup>5</sup> 80 15* 30*
SAMSL	JNG	9* 9*
LED	LH351D	
FWHM / FWTM	Asymmetric	75* 100 75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	.60 <sup>4</sup> 200 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45* 310 45*
Required compone	nts:	$\times$
		400
		30° 15° 30° 30°
SAMSL	ING	
LED		
LED FWHM / FWTM	LH351Z	724 200 77.
FWHM / FWTM	LH351Z Asymmetric	7 <sup>2</sup> 10. 7 <sup>2</sup>
FWHM / FWTM Efficiency	LH351Z Asymmetric 94 %	200 75°. 60° 60°.
FWHM / FWTM Efficiency Peak intensity	LH351Z Asymmetric 94 % 0.6 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z Asymmetric 94 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White nts:	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White nts:	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Electronik GmbH LED FWHM / FWTM Efficiency	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 97 %	40
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 97 % 0.6 cd/lm	40
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 97 % 0.6 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Electronic GmbH LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 97 % 0.6 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 97 % 0.6 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Electronic GmbH LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White nts: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 97 % 0.6 cd/lm 1 White	



seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Acrich MJT 4040 Asymmetric 94 % 0.5 cd/lm 1 White nts:	
SEOUL SEMICONDUCTOR		
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone	Z5 Asymmetric 93 % 1 White nts:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	Z5M1/Z5M2 Asymmetric 94 % 0.7 cd/lm	90° 90° 73° 500 90° 80° 60°
LEDs/each optic Light colour Required compone	1 White	
seou seuconductor LED FWHM / FWTM Efficiency	Z8Y22 Asymmetric 94 %	66 30 <sup>4</sup> 20 <sup></sup>
Peak intensity LEDs/each optic Light colour Required compone	0.5 cd/lm 1 White	

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SEOUL				7
SEOUL SEMICONDUCTOR	Z8Y22P		90*	90*
FWHM / FWTM	Asymmetric		751	75*
Efficiency	94 %		$\wedge$	
Peak intensity	0.5 cd/lm		000	60*
LEDs/each optic	1			
Light colour	White		45*	
Required compone				
i toquiroù compone				400
				500
			/30° 18 <sup>5</sup>	0° 15° 30°
TOSHIBA				r F-T
Leading Innovation >>>	TI 41 0		90*	90*
	TL1L3		750	775
FWHM / FWTM	Asymmetric 94 %			100
Efficiency Peak intensity	94 % 0.4 cd/lm		604	60*
LEDs/each optic Light colour	1 White			
Required compone			45*	300 45*
Required compone	5115.			
				400
			30* 150	500 13° 30°
TOSHIBA				Y TH
Leading Innovation »			90°	90*
	TL1L4		75*	
FWHM / FWTM	Asymmetric 94 %			100
Efficiency			618	60*
Peak intensity LEDs/each optic	0.5 cd/lm 1			
Light colour	White			
Required compone			439	300 45*
Required compone	5113.			
			$\sim$ 1	400
			30° 15 <sup>5</sup>	500 0° 15° 30°
TRIDOM				
LED	RLE 2x4 2000lm HP EXC2 OTD			
FWHM / FWTM	Asymmetric			
Efficiency	94 %			
Peak intensity	0.7 cd/lm			
LEDs/each optic	1 White			
Light colour	White			
Required compone	ະເມຣ.			



TRIDOM		
LED		30° 30°
LED FWHM / FWTM	RLE 2x8 4000lm HP EXC2 OTD	751 751
Efficiency	Asymmetric 94 %	
Peak intensity	94 % 0.7 cd/lm	.60° 60°.
LEDs/each optic	1	
Light colour	White	
Required compone		45*
Required compone	5/I/S.	
		400
		30° 25 <sup>3</sup> 0° 15° 30°
TRIDOM	NIC .	
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	80* 90*
FWHM / FWTM	Asymmetric	73*
Efficiency	94 %	
Peak intensity	1 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	
Required compone		
rtequired compone		800
		$\times$ / $\wedge$ $\times$
		1000
		30° 15° 0° 15° 30°
TRIPAL	"	
IRIDON		50° 50°
		51 <sup>+</sup> 51 <sup>+</sup>
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	90°
LED FWHM / FWTM		90° 99' 200 72'
LED FWHM / FWTM Efficiency	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 %	90° 99"
LED FWHM / FWTM Efficiency Peak intensity	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric	g
LED FWHM / FWTM Efficiency	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm	y, y
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White	y, y
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White	9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White	90° 90° 0° 600 0° 0° 600 0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	2° 3° 20° 20° 20° 20° 20° 20° 20° 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TREIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TREDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	

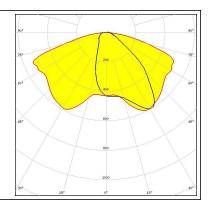


# **TRIDONIC**

LED

FWHM / FWTM As Efficiency 94 Peak intensity 10 LEDs/each optic 1 Light colour W Required components:

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





		90.0
LED	XP-G2	
FWHM / FWTM	Asymmetric	750 100
Efficiency	91 %	
Peak intensity	0.7 cd/lm	50° 200
LEDs/each optic	1	
		300
Light colour	White	45'
Required components:		400
C17580_STRADA-2X	2-5HD-WH1	$\times$
		500
		30* 15 <sup>5</sup> 0*15*
LED	XP-G2	
FWHM / FWTM	Asymmetric	750 100
Efficiency	78 %	
Peak intensity	0.5 cd/lm	60° 200
LEDs/each optic	1	
Light colour	White	300
Required components:	Wille	
Required components.		400
Protective plate	, glass	$\times$ / $\setminus$
	, 3	
		30° 15° 0° 15°
		90°
LED		
1117	XP-G2 HF	
	XP-G2 HE Asymmetric	75° (100
FWHM / FWTM	Asymmetric	75
FWHM / FWTM Efficiency	Asymmetric 94 %	
FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.6 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1	73 - 125 64 - 260 - 50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm	73 - 135
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1	25 - 250 64 - 260 - 57
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1	173 63 <sup>4</sup> 200 65 <sup>4</sup> 400 500
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1	50 50 50 50 50 50 50 50 50 50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White	50° 60° 60° 80° 80° 80° 80° 80° 80° 80° 80° 80° 8
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 77 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 77 % 0.4 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE (LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 77 % 0.4 cd/lm 1	23 <sup>1</sup>
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 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 77 % 0.4 cd/lm	23 <sup>1</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 77 % 0.4 cd/lm 1	
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 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 77 % 0.4 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 77 % 0.4 cd/lm 1 White	

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		90* 99
LED	XP-G3	
FWHM / FWTM	Asymmetric	75°
Efficiency	73 %	100
Peak intensity	0.4 cd/lm	604 60
LEDs/each optic	1	
Light colour	White	
Required components:		
C17580_STRADA-2X	2-SHD-WHT	300
011000_0111101125		$\times$
Protective plate	, glass	20° 12 <sup>3</sup> 0° 11 <sup>3</sup>
		90°* 90
LED	XP-L2	
FWHM / FWTM	Asymmetric	73%
Efficiency	78 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		30
Protective plate	, glass	
		30° 15° 30
	95	94* 99
LED	LUXEON H50-2	75 300 75
FWHM / FWTM	Asymmetric	
Efficiency	%	
LEDs/each optic	1	
LEDs/each optic Light colour		-07 -00
LEDs/each optic	1	
LEDs/each optic Light colour	1	er e
LEDs/each optic Light colour	1	47
LEDs/each optic Light colour	1	20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components:	1 White	90 
LEDs/each optic Light colour Required components:	1 White	4°
LEDs/each optic Light colour Required components:	1 White S LUXEON HL2Z	20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components:	1 White S LUXEON HL2Z Asymmetric	97
LEDs/each optic Light colour Required components:	1 White S LUXEON HL2Z Asymmetric 80 %	5° 50 50 50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LEDs/each optic Light colour Required components:	1 White S LUXEON HL2Z Asymmetric 80 % 0.5 cd/m	
LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White S LUXEON HL2Z Asymmetric 80 % 0.5 cd/lm 1	
LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White S LUXEON HL2Z Asymmetric 80 % 0.5 cd/m	
LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White S LUXEON HL2Z Asymmetric 80 % 0.5 cd/lm 1	
LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White S LUXEON HL2Z Asymmetric 80 % 0.5 cd/lm 1 White	
LEDs/each optic Light colour Required components: <b>EXAMPLE CONTINUES</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	1 White S LUXEON HL2Z Asymmetric 80 % 0.5 cd/lm 1 White	



UMILED	<b>IS</b>	90* 90*
LED	LUXEON HL2Z	
FWHM / FWTM	Asymmetric	73°
Efficiency	95 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	X
Light colour	White	45'
Required components:		400
		200
		30° 500 30°
MST Your solutions		
		90* 90*
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	- 100
Efficiency	79 %	50* 60*
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		
Protective plate	dass	$\times$
	, 9,000	400
		30° 135° 30°
<b>Ø</b> ΝΙCΗΙΛ		90° 90°
LED	NV4WB35AM	
FWHM / FWTM	Asymmetric	730 770
Efficiency	95 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 310 45*
Required components:		$\times$
		400
		50° 30°
<b>Μ</b> ΝΙCΗΙΛ		
	NVSW219F	90* 90*
LED FWHM / FWTM		75° 75°
Efficiency	Asymmetric 76 %	
Peak intensity	0.4 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	ar
Required components:	WING .	N3. 300 45*
required components.		
Protective plate	, glass	40
Protective plate	, glass	40



<b>Μ</b> ΝΙCΗΙΛ		TTY FFT
LED	NVSW519A	90° 99°
		75°
FWHM / FWTM	Asymmetric	
Efficiency	93 %	60° 60°
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45'
Required components:		400
		$\times$ $\land$ $\land$ $\times$
		200
		30 <sup>+</sup> 30 <sup>+</sup> 30 <sup>+</sup>
<b>Μ</b> ΝΙCΗΙΛ		
LED	NVSW519A	90° 90°
EED FWHM / FWTM		75° 75°
	Asymmetric 80 %	
Efficiency	0.4 cd/lm	60* 60*
Peak intensity	1	20
LEDs/each optic	White	
Light colour Required components:	white	45* 300 45*
Required components:		$\times$
Protective plate	, glass	400
		X   X
		30* <u>15</u> <sup>5</sup> 30* <u>15</u> * 30*
<b>Μ</b> ΝΙCΗΙΛ		50° 50°
LED	NVSxE21A	
FWHM / FWTM	Asymmetric	75°
Efficiency	78 %	
Peak intensity	0.5 cd/lm	60*
LEDs/each optic	1	
Light colour	White	45+ 340 45+
Required components:		
		400
Protective plate	, glass	$\times$ / $\setminus$ $\times$
		30* 500 30*
<b>Μ</b> ΝΙCΗΙΛ		122 <sup>2</sup> 0 <sup>2</sup> 12 <sup>2</sup>
LED	NVSxx19B/NVSxx19C	90* 90*
ED FWHM / FWTM		75* 100 75*
Efficiency	Asymmetric 94 %	
	94 % 0.6 cd/lm	60* Col
Peak intensity	1. 0.6 ca/im	
LEDs/each optic	White	× / + ** ×
Light colour	wine	6 <sup>1</sup>
Required components:		400
		XIIX
		30* <u>15</u> <sup>5</sup> <u>650</u> <u>15</u> * <u>30</u> *
		15° 0° 15°



OSRAM		90°
LED	PrevaLED Brick HP 2x8	
FWHM / FWTM	Asymmetric	734
Efficiency	77 %	
Peak intensity	0.4 cd/lm	.60*
LEDs/each optic	1	200
Light colour	White	
Required components:		
· · •		
Protective plate	e, glass	400
		30° 5%0 15° 15°
OSRAM Opto Semiconductors		90°
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	Asymmetric	750
Efficiency	78 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	200
Light colour	White	45*
Required components:		300
		X    X
Protective plate	e, glass	400
		30 <sup>4</sup> 19 <sup>2</sup> 0 <sup>4</sup> 19 <sup>2</sup>
OSRAM Opto Semiconductors		
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	Asymmetric	73.6
Efficiency	94 %	
Peak intensity	0.5 cd/lm	50*
LEDs/each optic	1	
Light colour	White	45* 300
Required components:		
		400
		200
		30*
OSRAM		13 <sup>2</sup> 9 <sup>4</sup> 18 <sup>4</sup>
Opto Semiconductors		90*
	OSLON Square CSSRM2/CSSRM3	752
FWHM / FWTM	Asymmetric	
Efficiency	78 %	SUF
Peak intensity	0.5 cd/lm 1	
LEDs/each optic Light colour	1 White	
Required components:	AALING.	45* 300
required components:		
Protective plate	e, glass	
		460



OSRAM Opto Semiconductors		90* 92*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75* 75*
Efficiency	72 %	100
Peak intensity	0.4 cd/lm	60* X 60*
LEDs/each optic	1	
Light colour	White	45*
Required components:		
C17677_STRADA-2>	(2-SHD-BLK	
Protective plate	a, glass	400 30° 15° 0° 15° 30°
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	736
Efficiency	76 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		30
C17580_STRADA-2>	2-SHD-WHT	$\times$
Protective plate	e, glass	
		130° 135° 0° 15°
OSRAM Opto Semiconductors		90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	750 200 750
Efficiency	88 %	
Peak intensity	0.6 cd/lm	50° 60°.
LEDs/each optic	1	
Light colour	White	45* 20 45*
Required components:		
C17677_STRADA-2>	(2-SHD-BLK	400
		30° 15° 30°
OSRAM Onto Semiconductors		80 <sup>+</sup>
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	100 731
Efficiency	91 %	
Peak intensity	0.6 cd/lm	60° 60°.
LEDs/each optic	1	
Light colour	White	45*
Required components:		
C17580_STRADA-2>	(2-SHD-WHT	
		× / ×
		30° 15° 0° 15° 30°



OSRAM Opto Semiconductors		
LED	OSLON Square CSSRM2/CSSRM3	~ ~ ~ ~
FWHM / FWTM	Asymmetric	73°
Efficiency	80 %	
Peak intensity	0.5 cd/lm	60*
LEDs/each optic	1	20
Light colour	White	
Required components:		
		XI
Protective pla	ate, glass	400
		30* 30* 30*
SAMSU	NG	90* 90*
LED	HiLOM RH12 Z (LH351C)	
FWHM / FWTM	Asymmetric	75° 70°
Efficiency	80 %	
Peak intensity	0.4 cd/lm	50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	6° 6°
Required components	:	
Protective pla	ate, glass	400
		30* 500 30*
		15° 0° 15°
сласии		
SAMSU	NG	90 <sup>16</sup> 99 <sup>16</sup>
SAMSU LED	NG LH351B	90° 90'
LED	LH351B Asymmetric	10 5°
LED FWHM / FWTM Efficiency	LH351B Asymmetric 75 %	
LED FWHM / FWTM Efficiency Peak intensity	LH351B Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 75 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 75 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 75 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LH351B Asymmetric 75 % 0.4 cd/lm 1 White :	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 75 % 0.4 cd/lm 1 White :	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B Asymmetric 75 % 0.4 cd/lm 1 White :	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective pla	LH351B Asymmetric 75 % 0.4 cd/lm 1 White :	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat stout stemiconductor	LH351B Asymmetric 75 % 0.4 cd/lm 1 White : ate, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective pla seoul semiconductor	LH351B Asymmetric 75 % 0.4 cd/lm 1 White :	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat scout semiconductor LED FWHM / FWTM	LH351B Asymmetric 75 % 0.4 cd/lm 1 White : ate, glass Acrich MJT 4040 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective pla seous semiconductor LED FWHM / FWTM Efficiency	LH351B Asymmetric 75 % 0.4 cd/lm 1 White : ate, glass Acrich MJT 4040 Asymmetric 78 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective pla stour semiconductor LED FWHM / FWTM Efficiency Peak intensity	LH351B Asymmetric 75 % 0.4 cd/lm 1 White : ate, glass Acrich MJT 4040 Asymmetric 78 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective pla stous semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 75 % 0.4 cd/lm 1 White : ate, glass Acrich MJT 4040 Asymmetric 78 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective pla stous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 75 % 0.4 cd/lm 1 White : ate, glass Acrich MJT 4040 Asymmetric 78 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective pla stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 75 % 0.4 cd/lm 1 White : ate, glass Acrich MJT 4040 Asymmetric 78 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective pla stous semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B Asymmetric 75 % 0.4 cd/lm 1 White : ate, glass Acrich MJT 4040 Asymmetric 78 % 0.4 cd/lm 1 White :	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective pla stous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 75 % 0.4 cd/lm 1 White : ate, glass Acrich MJT 4040 Asymmetric 78 % 0.4 cd/lm 1 White :	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective pla seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B Asymmetric 75 % 0.4 cd/lm 1 White : ate, glass Acrich MJT 4040 Asymmetric 78 % 0.4 cd/lm 1 White :	







#### **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:**

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