

GABRIELLA-MIDI-S

~10° spot beam with holder and installation tape

SPECIFICATION:

Dimensions	Ø 37.8 mm
Height	24.1 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



MATERIALS:

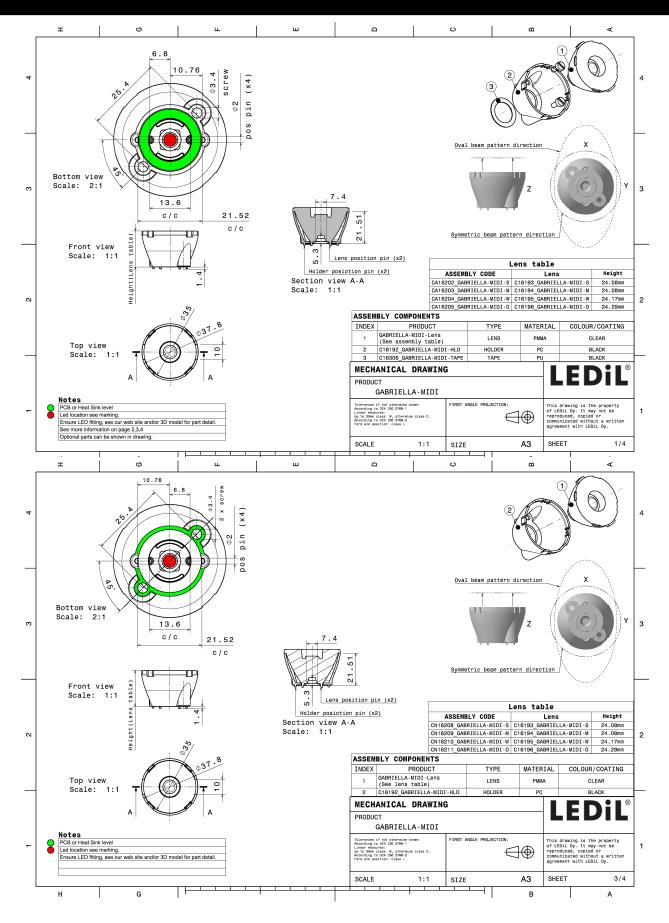
Component GABRIELLA-MIDI-S GABRIELLA-MIDI-HLD GABRIELLA-MIDI-TAPE

Type Single lens Holder Tape

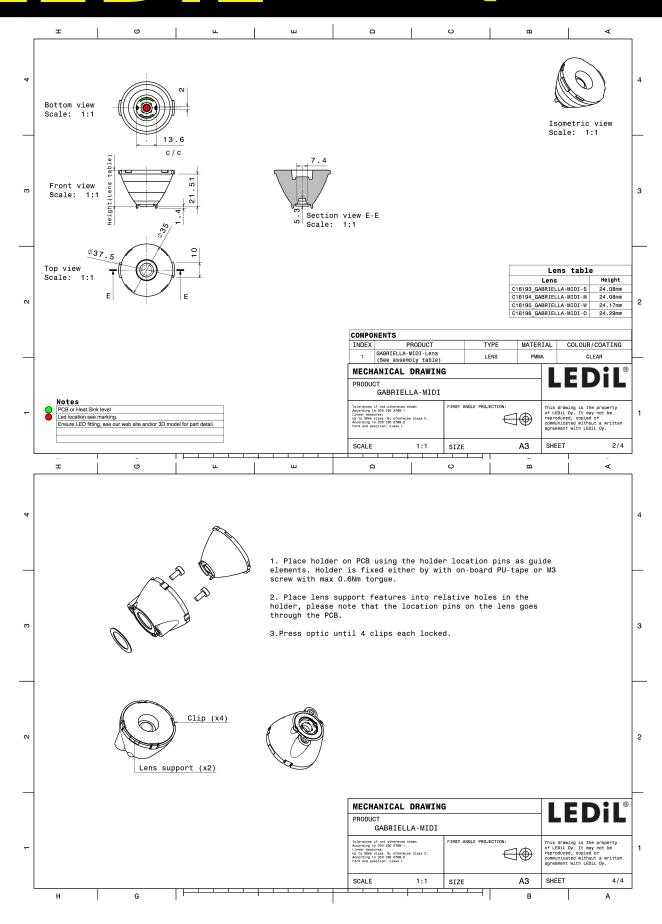
Material	Colour	Finish
PMMA	clear	
PC	black	
Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA16202_GABRIELLA-MIDI-S	Single lens	500	100	50	11.7
» Box size: 476 x 273 x 292 mm					



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



		50° A
LED	XHP35 HI	
FWHM / FWTM	10.0° / 19.0°	
Efficiency	90 %	60 ⁴
Peak intensity	20.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gr 12000 Gr
Required compone	nts:	
		30°
		10 ⁷ 0 ⁴ 10 ⁷
		30° 30°
LED	XHP50.2	72
FWHM / FWTM	15.0° / 28.0°	
Efficiency	87 % 9.1 cd/lm	60* 200
Peak intensity		
LEDs/each optic	1 White	
Light colour Required compone		
Required compone	ins.	
		30° 900 30° 25° 0° 25°
		90° 90'
		90 ⁺
LED	XM-L RGBW (XMLDCL HI)	90* 90 19* 22
LED FWHM / FWTM	11.0° / 20.0°	94 ⁴ 195 25
LED FWHM / FWTM Efficiency	11.0° / 20.0° 89 %	22* 29 23* 29
LED FWHM / FWTM Efficiency Peak intensity	11.0° / 20.0° 89 % 17 cd/lm	99 ⁴ 900 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	11.0° / 20.0° 89 % 17 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW	99° 997 725° 60° 60° 60° 60° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW	725 725 647 668 669 97 697 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW Ints: EDS LUXEON 5050 Round LES	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW ints: EDS LUXEON 5050 Round LES 14.0° / 26.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone COMPARENT LED FWHM / FWTM Efficiency	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW ints: EDS LUXEON 5050 Round LES 14.0° / 26.0° 91 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone COMPARENT LED FWHM / FWTM Efficiency Peak intensity	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW ints: EDS LUXEON 5050 Round LES 14.0° / 26.0° 91 % 12.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition Composition	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW I1 RGBW I1 RGBW I1 RGBW I2 I2 I2 I2 I2 I2 I2 I2 I2 I2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Compose Required compone Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW I1 RGBW I1 RGBW I1 RGBW I2 I2 I2 I2 I2 I2 I2 I2 I2 I2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Compose Required compone Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW I1 RGBW I1 RGBW I1 RGBW I2 I2 I2 I2 I2 I2 I2 I2 I2 I2	
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	11.0° / 20.0° 89 % 17 cd/lm 1 RGBW I1 RGBW I1 RGBW I1 RGBW I2 I2 I2 I2 I2 I2 I2 I2 I2 I2	



LUMIL	.EDS	90° A 90°
LED	LUXEON C	
FWHM / FWTM	17.0° / 28.0°	73.
Efficiency	85 %	
Peak intensity	8.2 cd/lm	60 ^{.6}
LEDs/each optic	1	
Light colour	RGBW	43* 43*
Required compone		
		6430
		309.
<i>•</i>		 15 ⁹ 0 ⁰ 15 ⁹
	.EDS	90°
LED	LUXEON CZ	75-
FWHM / FWTM	16.0° / 26.0°	
Efficiency	89 %	60° 3200 60°
Peak intensity	9.3 cd/lm	
LEDs/each optic	4	
Light colour	RGBW	er de de
Required compone	ents:	000
		30° <u>9650</u> 36°
	EDS	90° 90°
LED	LUXEON V	
FWHM / FWTM	11.0° / 22.0°	75" 7200
Efficiency	89 %	
Peak intensity	15.5 cd/lm	60°*
LEDs/each optic	1	
Light colour	White	87° 9600 97°
Required compone		
		12800
		\times / \setminus \times
		30" 36,00 3,0
		125 00 ⁴ 35 ⁵
		90* 90*
	SBM-40-RGBW	
FWHM / FWTM	10.0° / 19.0°	
Efficiency Peak intensity	89 %	60° / / / 60°
	O1 E ad/lat	
	21.5 cd/lm	
LEDs/each optic	1	C* 1200
LEDs/each optic Light colour	1 White	ç. 1990
LEDs/each optic	1 White	g. 1000
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour	1 White	ev 1300 ev
LEDs/each optic Light colour	1 White	a. 1300 a. 1300 a. 1300 a. 1300 a. 130 1 130 1 130 1 130 1 1 1 1 1 130 1 1 1 1



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NCSxE17A 13.0° / 26.0° 92 % 11.6 cd/lm 4 RGBW	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 16.0° / 29.0° 89 % 8.7 cd/lm 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSTAR Stage (S2WN) 10.0° / 19.0° 90 % 20.8 cd/lm 1 RGBW ents:	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSTAR Stage (S2WP) 10.0° / 18.0° 91 % 22 cd/lm 1 White ents:	



seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SPF05F0A 10.0° / 19.0° 89 % 21.6 cd/lm 1 RGBW Ints:	
scour, semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SPF05F0B 11.0° / 20.0° 90 % 18.9 cd/lm 1 RGBW ints:	
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SPF05F0C 12.0° / 22.0° 89 % 15.4 cd/lm 1 RGBW ints:	



		90° 90°
	CLQ6A-TKW	
LED FWHM / FWTM	13.7° / 26.1°	75*
Efficiency	94 %	200
Peak intensity	12.7 cd/lm	60°
LEDs/each optic	1	600
Light colour	r RGBW	er at
Required components:		(X X)
rioquirou componento.		200
		\times $($ $)$ \times
		30° 30° 30°
		90* 90*
LED	XE-G	
FWHM / FWTM	10.0° / 18.0°	27
Efficiency	92 %	60* 60*
Peak intensity	23.1 cd/lm	$(X / A \setminus X)$
LEDs/each optic	1	
Light colour	White	gy
Required components:		
		19200
		30*
		90° 90°
CREE ÷ LEDs	XHP35.2 HD	
	XHP35.2 HD 12.0° / 22.0°	5° 5° 5° 5°
LED		
LED FWHM / FWTM Efficiency Peak intensity	12.0° / 22.0°	90 90 90 90 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 22.0° 88 % 15.6 cd/lm 1	614
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 22.0° 88 % 15.6 cd/lm	614
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 22.0° 88 % 15.6 cd/lm 1	615 616 757 757 757 757 757 757 757
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 22.0° 88 % 15.6 cd/lm 1	615 616 757 757 757 757 757 757 757
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 22.0° 88 % 15.6 cd/lm 1	615 616 757 757 757 757 757 757 757
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 22.0° 88 % 15.6 cd/lm 1	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 22.0° 88 % 15.6 cd/lm 1	27 1000 27 27 27 28 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 22.0° 88 % 15.6 cd/lm 1 White	27 1000 27 27 27 28 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 22.0° 88 % 15.6 cd/lm 1 White	27 1000 27 27 27 28 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM	12.0° / 22.0° 88 % 15.6 cd/lm 1 White XHP50 16.0° / 27.0°	27 1000 27 27 27 28 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency	12.0° / 22.0° 88 % 15.6 cd/lm 1 White XHP50 16.0° / 27.0° 91 %	27 1000 27 27 27 28 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity	12.0° / 22.0° 88 % 15.6 cd/lm 1 White XHP50 16.0° / 27.0° 91 % 10.7 cd/lm	27 1000 27 27 27 28 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 22.0° 88 % 15.6 cd/lm 1 White XHP50 16.0° / 27.0° 91 % 10.7 cd/lm 1	27 1000 27 27 27 28 29 29 29 29 29 29 29 29 29 29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 22.0° 88 % 15.6 cd/lm 1 White XHP50 16.0° / 27.0° 91 % 10.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 22.0° 88 % 15.6 cd/lm 1 White XHP50 16.0° / 27.0° 91 % 10.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 22.0° 88 % 15.6 cd/lm 1 White XHP50 16.0° / 27.0° 91 % 10.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 22.0° 88 % 15.6 cd/lm 1 White XHP50 16.0° / 27.0° 91 % 10.7 cd/lm 1	



		90* 90*
LED	XM-L RGBW (XMLCTW)	
FWHM / FWTM	13.0° / 23.0°	75°
Efficiency	93 %	
Peak intensity	15.2 cd/lm	60°
LEDs/each optic	1	\times / \uparrow
Light colour	RGBW	45° 45°
Required components:	Kebw	
Required components.		
		30° 16000 36° 16000 36°
		90°
LED	XP-E2	
FWHM / FWTM	10.0° / 19.0°	20
Efficiency	92 %	eco contra
Peak intensity	23.5 cd/lm	
LEDs/each optic	1	
Light colour	Amber	45*
Required components:		
		15000
		30*
		15° 23800 15°
		90* A 90*
	XP-G2 HE	50°
	XP-G2 HE 11.0° / 22.0°	31 24 25
LED		9° 99'
LED FWHM / FWTM	11.0° / 22.0°	97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency	11.0° / 22.0° 92 %	69 600 600 35 55 55 55 55 55 55 55 55 55 55 55 55 5
LED FWHM / FWTM Efficiency Peak intensity	11.0° / 22.0° 92 % 19.4 cd/lm	9 ⁴ 9 ⁴ 9 ⁴ 9 ⁴ 9 ⁴ 9 ⁴ 9 ⁴ 9 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	11.0° / 22.0° 92 % 19.4 cd/lm 1	5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 22.0° 92 % 19.4 cd/lm 1	gr 1000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 22.0° 92 % 19.4 cd/lm 1	99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99° 99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 22.0° 92 % 19.4 cd/lm 1	3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	11.0° / 22.0° 92 % 19.4 cd/lm 1	120 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	11.0° / 22.0° 92 % 19.4 cd/lm 1 White	3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	11.0° / 22.0° 92 % 19.4 cd/lm 1 White	3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED ED FWHM / FWTM	11.0° / 22.0° 92 % 19.4 cd/lm 1 White XQ-E HI 14.0° / 24.0°	yr yr yr yr yr yr yr yr yr yr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency	11.0° / 22.0° 92 % 19.4 cd/lm 1 White XQ-E HI 14.0° / 24.0° 90 %	30* 30* 30* 30* 30* 100 0* 0* 30* 100 0* 0* 30* 100 0* 0* 30* 100 0* 0* 30* 100 0* 0* 30* 100 0* 0*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity	11.0° / 22.0° 92 % 19.4 cd/lm 1 White XQ-E HI 14.0° / 24.0° 90 % 14.4 cd/lm	yr yr yr yr yr yr yr yr yr yr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	11.0° / 22.0° 92 % 19.4 cd/lm 1 White XQ-E HI 14.0° / 24.0° 90 % 14.4 cd/lm 4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 22.0° 92 % 19.4 cd/lm 1 White XQ-E HI 14.0° / 24.0° 90 % 14.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	11.0° / 22.0° 92 % 19.4 cd/lm 1 White XQ-E HI 14.0° / 24.0° 90 % 14.4 cd/lm 4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 22.0° 92 % 19.4 cd/lm 1 White XQ-E HI 14.0° / 24.0° 90 % 14.4 cd/lm 4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 22.0° 92 % 19.4 cd/lm 1 White XQ-E HI 14.0° / 24.0° 90 % 14.4 cd/lm 4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 22.0° 92 % 19.4 cd/lm 1 White XQ-E HI 14.0° / 24.0° 90 % 14.4 cd/lm 4	



WHM FWTM 100-718.0° fitteinery 91% downwards 24.1 cd/m EDevent optic 1 git colour While sequired components:				
ED XT-E WM FFWTM 10.07/19.0° fficiency 91% dex intensity 24.1 ddm Eblaesh opine 1 ght colour White equired components: ED LUXELEDS ED LUXEON 7070 WMM /FWTM 13.0°/34.0° ficiency 90% dex intensity 6.3 ddm Eblaeshopic 1 ight colour White equired components: ED LUXELEDS ED LUXECN C WMM /FWTM 18.0* ficency 85% dex intensity 7.2 ddm Eblaeshopic 4 ght colour RGBW equired components: ED LUXECN C WMM /FWTM 18.0* ficency 85% dex intensity 7.2 ddm Eblaeshopic 4 ght colour White equired components: ED LUXECN C WMM /FWTM 13.0* ficency 95% dex intensity 7.2 ddm Eblaeshopic 4 ght colour 7 FD LUXELEDS ED LUXECN C WMM /FWTM 13.0* ficency 95% dex intensity 7.2 ddm Eblaeshopic 4 ght colour 95% dex intensity 9.3 ddm Eblaeshopic 1 intense 93.3 ddm Eblaeshop				50° 50°
WHM / FVTM 10.0 ' 13.0 '' fitclency 91 % exhinantity 24.1 cd/m EDevends optic 1 ign colour White equired components:	LED	XT-F		
the lens y 91 % sak intensity 24.1 cd/m EDeSueach optic SUMPLEDS ED LUXELEDS ED LUXELEDS ED LUXELON 7070 WHM / FWTM 18.0° / 34.0° This end y 00 % sak intensity 6.3 cd/m EDWeach optic 1 gint colour White sequired components: ED LUXELEDS ED LUXELEDS ED LUXELEDS ED LUXECON C WHM / FWTM 18.0 + * this end y 18.0 + % this end y 18				75'
eak intensity 24.1 addm EDs/each optic 1 if colour White equired components:				
EDvidancy optic 1 ight colour White equired components: ED LUXEENT ED LUXEON 7070 WHM /FVTM 180 / 24.0° fidency 90 % eak intensity 6.3 coldm EDvidancy optic 1 ight colour White equired components: ED LUXEON C WHM /FVTM 180 + * fitticency 96 % eak intensity 7.2 coldm EDvidancy optic 4 ight colour RGBW equired components: ED LUXEON C WHM /FVTM 180 + * fitticency 96 % equired components: ED LUXEON C WHM /FVTM 180 + * fitticency 96 % equired components: ED LUXEON C WHM /FVTM 180 + * fitticency 96 % equired components: ED LUXEON C WHM /FVTM 180 + * fitticency 96 % equired components: ED LUXEON C WHM /FVTM 100 / 7.2 coldm equired components: ED LUXEON MMX WHM /FVTM 170 / 28.0° EDS LUXEON 1 equired components: EDS LUXEON MMX WHM /FVTM 170 / 28.0° EDS LUXEON 1 equired components: EDS LUXEON MMX WHM /FVTM 170 / 28.0° EDS LUXEON 1 equired components: EDS LUXEON 1 EDS LUXEON MMX WHM /FVTM 170 / 28.0° EDS LUXEON 1 equired components: EDS LUXEON MMX WHM /FVTM 170 / 28.0° EDS LUXEON 1 equired components: EDS LUXEON 1 equired components: EDS LUXEON 2 EDS LUXEON MMX HM / FVTM 170 / 28.0° EDS LUXEON 2 EDS LUXEON				60°
gin colour White equired components:				
equired components:				43° 12800
Image: Second		Wille		
ED LUXEON 7070 WMM / FVTM 18.0° / 34.0° fficiency 90% aak intensity 6.3 cd/m EDs/each optic 1 ight colour White aquired components: PLUMILEDS ED LUXEON C WM/ / FVTM 18.0 + ° fficiency 86 % eak intensity 7.2 cd/m EDs/each optic 4 ight colour RGBW equired components: PLUMILEDS ED LUXEON C WM/ / FVTM 18.0 + ° fficiency 86 % eak intensity 7.2 cd/m EDs/each optic 4 ight colour RGBW equired components: PLUMILEDS ED LUXEON MMX WM/ / FVTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/m EDs/each optic 1 ight colour White equired components:	required components.			10000
ED LUXEON 7070 WMM / FVTM 18.0° / 34.0° fficiency 90% aak intensity 6.3 cd/m EDs/each optic 1 ight colour White aquired components: PLUMILEDS ED LUXEON C WM/ / FVTM 18.0 + ° fficiency 86 % eak intensity 7.2 cd/m EDs/each optic 4 ight colour RGBW equired components: PLUMILEDS ED LUXEON C WM/ / FVTM 18.0 + ° fficiency 86 % eak intensity 7.2 cd/m EDs/each optic 4 ight colour RGBW equired components: PLUMILEDS ED LUXEON MMX WM/ / FVTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/m EDs/each optic 1 ight colour White equired components:				
ED LUXEON 7070 WMM / FVTM 18.0° / 34.0° fficiency 90% aak intensity 6.3 cd/m EDs/each optio 1 ight colour White eaglired components: PLUMILEDS ED LUXEON C WMM / FVTM 18.0 + ° fficiency 86% eak intensity 7.2 cd/m EDs/each optio 4 ight colour RGBW equired components: PLUMILEDS ED LUXEON MMX WMM / FVTM 18.0 + ° fficiency 86% eak intensity 7.2 cd/m EDs/each optio 4 ight colour RGBW equired components: PLUMILEDS ED LUXEON MMX WMM / FVTM 17.0° / 28.0° fficiency 91% eak intensity 9.3 cd/m EDs/each optio 1 ight colour White equired components:				
ED LUXEON 7070 WHM / FVTM 18.0 ° / 34.0 ° eak intensity 6.3 cd/m EDs/each optic 1 ight colour RGBW equired components:				30° 25600 30° 30°
WHM / FWTM 18.0° / 34.0° fficiency 90 % eak intensity 6.3 cd/m EDs/each optic 1 ight colour White equired components: ED LUXEON C WHM / FWTM 18.0 *° fficiency 86 % eak intensity 7.2 cd/m EDs/each optic 4 equired components: ED LUXEON C WHM / FWTM 18.0 *° fficiency 86 % eak intensity 7.2 cd/m EDs/each optic 4 equired components: ED LUXEON WMX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 17.0° / 28.0° fficiency 18.0° fficiency 91 % eak intensity 18.0° fficiency 91 % fficiency 91 % eak intensity 18.0° fficiency 91 %)S		50° 8 90°
WHM / FWTM 18.0° / 34.0° fficiency 90 % eak intensity 6.3 cd/lm EDs/each optic 1 ight colour White equired components: ED LUXEON C WHM / FWTM 18.0 + * fficiency 86 % eak intensity 7.2 cd/lm EDs/each optic 4 ight colour RGBW equired components: ED LUXEON MMX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ght colour White ED LUXEON MMX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White equired components: ED LUXEON MMX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White equired components:	LED			
fficiency 90 % eak intensity 6.3 cd/lm Ebs/each optic 1 ight colour White equired components: PLUMILEDS ED LUXEON C WHM / FVTM 18.0 +* ficiency 86 % eak intensity 7.2 cd/lm Ebs/each optic 4 ight colour RGBW equired components: PUMILEDS ED LUXEON MMX WHM / FVTM 17.0* / 28.0° ficiency 91 % eak intensity 9.3 cd/lm Ebs/each optic 1 ight colour White eak intensity 9.3 cd/lm	FWHM / FWTM			3.
eak intensity 6.3 cd/m EDs/each optic 1 ight colour White equired components:	Efficiency			1600 Sec. 1
EDs/each optic 1 ght colour White sequired components: ED LUXEON C WHM / FWTM 18.0 + * fficiency 86 % each intensity 7.2 col/m EDs/each optic 4 ght colour RGBW sequired components: ED LUXEON MMX WMM / FWTM 17.0 * /28.0* fficiency 91 % each intensity 9.3 col/m EDs/each optic 1 ght colour White equired components:	Peak intensity	6.3 cd/lm		
ight colour White equired components:	LEDs/each optic	1		
required components:	Light colour	White		gr / / / ot
CUMILEDS ED LUXEON C WHM / FVTM 18.0 + ° fildioncy 86 % eak intensity 7.2 cd/lm EDs/each optic 4 ight colour RGBW equired components: CUMILEDS ED LUXEON MMX WHM / FVTM 17.0° / 28.0° fildioncy 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White equired components:	Required components:			
LUXEON C WHM / FWTM 18.0 + ° Giology 86 % eak intensity 7.2 cd/lm EDS/each optic 4 ight colour RGBW equired components: LUXEON M/MX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDS LUXEON M/MX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm ED LUXEON M/MX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDscale choptic 1 ight colour White eak intensity 9.3 cd/lm				4000
LUXEON C White FWTM 18.0 + ° Giology 86 % Gedk intensity 7.2 cd/lm EDs/each optic 4 GBW equired components: LUXEON K/MXX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White equired components:				\times / \times /
ED LUXEON C WHM / FWTM 18.0 + * fficiency 86 % eak intensity 7.2 cd/lm EDs/each optic 4 ight colour RGBW Equired components: ED LUXEON MMX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White equired components:				30° 6450 30°
ED LUXEON C WHM / FWTM 18.0 + ° fficiency 86 % eak intensity 7.2 cd/lm EDs/each optic 4 ight colour RGBW HM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White equired components:	-			15° of 15°
ED LUXEON C WHM / FWTM 18.0 + ° fficiency 86 % eak intensity 7.2 cd/m EDs/each optic 4 ight colour RGBW iequired components: ED LUXEON MMX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/m EDs/each optic 1 ight colour 1 ight colour White iequired components:)S		90* 90*
WHM / FWTM 18.0 + ° fficiency 86 % eak intensity 7.2 cd/lm Eds/each optic 4 ight colour RGBW Equired components: ED LUXEON M/MX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm Eds/each optic 1 ight colour White equired components:	LED	LUXEON C		
light colour RGBW lequired components: RGBW better see interest see i	FWHM / FWTM	18.0 + °		1000
light colour RGBW lequired components:	Efficiency	86 %	e valu	eo:
light colour RGBW lequired components: RGBW COMPLEEDS ED LUXEON M/MX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/m EDs/each optic 1 ight colour White lequired components: Components: Components: Components	Peak intensity	7.2 cd/lm	o nat	320
tequired components:	LEDs/each optic	4	χ coo	
Becker Bage: Ithateact Becker Bage: Ithateact Image: Ithateact Ithateact Image: Image: Ithatea	Light colour	RGBW	-500.0 0 500.0	
ED LUXEON M/MX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/m EDs/each optic 1 ight colour White equired components: Image: Component State St	Required components:			
ED LUXEON M/MX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White required components:			Detector Image: 1110mnance	
ED LUXEON M/MX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White required components:				6130
ED LUXEON M/MX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White tequired components:				30* 30*
ED LUXEON M/MX WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White tequired components:		S		50° 50°
WHM / FWTM 17.0° / 28.0° fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White required components:	LED			
fficiency 91 % eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White required components:				75'
eak intensity 9.3 cd/lm EDs/each optic 1 ight colour White lequired components:		17 0º / 29 0º		
EDs/each optic 1 ight colour White lequired components:				
ight colour White lequired components:	Efficiency	91 %		er 200 er
Required components:	Efficiency Peak intensity	91 % 9.3 cd/lm		
	Efficiency Peak intensity LEDs/each optic	91 % 9.3 cd/lm 1		
	Efficiency Peak intensity LEDs/each optic Light colour	91 % 9.3 cd/lm 1		g
	Efficiency Peak intensity LEDs/each optic	91 % 9.3 cd/lm 1		g
	Efficiency Peak intensity LEDs/each optic Light colour	91 % 9.3 cd/lm 1		g
90° 9600 90° 335° 0° 35°	Efficiency Peak intensity LEDs/each optic Light colour	91 % 9.3 cd/lm 1		g



	DS	90° A 90°
LED	LUXEON Rubix	
FWHM / FWTM	12.0° / 21.0°	25.
Efficiency	92 %	610 6100 mm
Peak intensity	19.1 cd/lm	
LEDs/each optic	4	$[X / /] \land X$
Light colour	RGBW	43° 43°
Required components:		12800
		X / V X
		30° 1000 30°
		15% of 15°
MUMILEC	05	90*
LED	LUXEON Z	25*
FWHM / FWTM	11.0° / 20.0°	$\Lambda \wedge \Lambda$
Efficiency	91 %	600 600 60°
Peak intensity	21 cd/lm	$[\times / /] \land \times]$
LEDs/each optic	4	
Light colour	RGBW	43° 12800 43°
Required components:		$\wedge / / \mid \wedge \rangle$
		X X
		and the second
		30° 30°
Μ ΝΙCΗΙΛ		40 V 40
		Δ
	NN/4524 4 4 A	
	NV4x144A	75.
FWHM / FWTM	16.0° / 28.0°	77
FWHM / FWTM Efficiency	16.0° / 28.0° 89 %	64 <u>200</u> 65
FWHM / FWTM Efficiency Peak intensity	16.0° / 28.0° 89 % 10 cd/lm	64 <u>560</u> 64
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 28.0° 89 % 10 cd/lm 1	5° 500 6°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 89 % 10 cd/lm	g: 66.0 65.
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 28.0° 89 % 10 cd/lm 1	gr <u>600</u> w
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 89 % 10 cd/lm 1	51
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 89 % 10 cd/lm 1	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	16.0° / 28.0° 89 % 10 cd/lm 1	200 00 200 30.0
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	16.0° / 28.0° 89 % 10 cd/lm 1 White	25. 0. 25. 26. 20.0 65. 26. 20.0 65.
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED	16.0° / 28.0° 89 % 10 cd/lm 1 White DURIS E 5050 (GW J9LHS1.4M)	20° 12° 0° 12° 3%
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	16.0° / 28.0° 89 % 10 cd/lm 1 White DURIS E 5050 (GW J9LHS1.4M) 14.0° / 24.0 + 26.0°	20° 0° 20°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OBSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	16.0° / 28.0° 89 % 10 cd/lm 1 White DURIS E 5050 (GW J9LHS1.4M) 14.0° / 24.0 + 26.0° 93 %	20° 0° 20°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	16.0° / 28.0° 89 % 10 cd/lm 1 White DURIS E 5050 (GW J9LHS1.4M) 14.0° / 24.0 + 26.0° 93 % 13.3 cd/lm	59° 50°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 28.0° 89 % 10 cd/lm 1 White DURIS E 5050 (GW J9LHS1.4M) 14.0° / 24.0 + 26.0° 93 % 13.3 cd/lm 1	64 64 55 65 65 65 65 75 75 75 75 75 75 75 75 75 7
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 89 % 10 cd/lm 1 White DURIS E 5050 (GW J9LHS1.4M) 14.0° / 24.0 + 26.0° 93 % 13.3 cd/lm	60. 20. 20. 20. 20. 20. 20. 20. 2
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 28.0° 89 % 10 cd/lm 1 White DURIS E 5050 (GW J9LHS1.4M) 14.0° / 24.0 + 26.0° 93 % 13.3 cd/lm 1	64 64 55 65 65 65 65 75 75 75 75 75 75 75 75 75 7
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 89 % 10 cd/lm 1 White DURIS E 5050 (GW J9LHS1.4M) 14.0° / 24.0 + 26.0° 93 % 13.3 cd/lm 1	64 64 55 65 65 65 65 75 75 75 75 75 75 75 75 75 7
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 89 % 10 cd/lm 1 White DURIS E 5050 (GW J9LHS1.4M) 14.0° / 24.0 + 26.0° 93 % 13.3 cd/lm 1	61 61 62 63 64 64 66 75 75 60 75 75 75 75 75 75 75 75 75 75 75 75 75
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	16.0° / 28.0° 89 % 10 cd/lm 1 White DURIS E 5050 (GW J9LHS1.4M) 14.0° / 24.0 + 26.0° 93 % 13.3 cd/lm 1	60 60 60 60 60 70 70 70 70 70 70 70 70 70 70 70 70 70



Г		
OSRAM		50° 50°
Opto Semiconductors	Duris S8	
FWHM / FWTM	14.0° / 25.0°	75
Efficiency	92 %	X / M
Peak intensity	13.5 cd/lm	60° 60°
LEDs/each optic	1	632
Light colour	White	5°
Required components:	white	
		30° 15° 0° 15°
OSRAM Opto Semiconductors		50° 50°
LED	OSCONIQ P 3737 (2W version)	
FWHM / FWTM	10.0° / 19.0°	21.
Efficiency	94 %	
Peak intensity	25.7 cd/lm	
LEDs/each optic	1	
Light colour	White	gr et
Required components:		1900
		30* 30*
		15° 0° 15°
OCDAM		
OSRAM Opto Semiconductors		90*
OSRAM Opto Semiconductors LED	OSLON Square CSSRM2/CSSRM3	
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3 10.0° / 19.0°	35 97 97
Opto Semiconductors		
Opto Semiconductors LED FWHM / FWTM	10.0° / 19.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 19.0° 93 %	99
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 19.0° 93 % 25.3 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 19.0° 93 % 25.3 cd/lm 1	99
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 19.0° 93 % 25.3 cd/lm 1	99
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 19.0° 93 % 25.3 cd/lm 1	99
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 19.0° 93 % 25.3 cd/lm 1	2. 2. 6. 6. 1100 1000 1000 1000 1000 1000 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 19.0° 93 % 25.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 19.0° 93 % 25.3 cd/lm 1 White	2. 5. 6. 1000 100 1000 1
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 19.0° 93 % 25.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM	10.0° / 19.0° 93 % 25.3 cd/lm 1 White G LH351B 11.0° / 20.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMNSUN LED FWHM / FWTM Efficiency	10.0° / 19.0° 93 % 25.3 cd/lm 1 White C LH351B 11.0° / 20.0° 93 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMNSUN LED FWHM / FWTM Efficiency Peak intensity	10.0° / 19.0° 93 % 25.3 cd/lm 1 White LH351B 11.0° / 20.0° 93 % 21.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 19.0° 93 % 25.3 cd/lm 1 White LH351B 11.0° / 20.0° 93 % 21.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 19.0° 93 % 25.3 cd/lm 1 White LH351B 11.0° / 20.0° 93 % 21.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 19.0° 93 % 25.3 cd/lm 1 White LH351B 11.0° / 20.0° 93 % 21.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 19.0° 93 % 25.3 cd/lm 1 White LH351B 11.0° / 20.0° 93 % 21.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 19.0° 93 % 25.3 cd/lm 1 White LH351B 11.0° / 20.0° 93 % 21.7 cd/lm 1	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 19.0° 93 % 25.3 cd/lm 1 White LH351B 11.0° / 20.0° 93 % 21.7 cd/lm 1	



SAMSUN	IG	90° A 90°
LED	LH351D	
FWHM / FWTM	12.0° / 24.0°	73.
Efficiency	92 %	801 80
Peak intensity	16.1 cd/lm	6400
LEDs/each optic	1	
Light colour	White	5°
Required components:		
		12800
		30° 30° 30°
SAMSUN	IG	90° 90°
LED	LH502D	
FWHM / FWTM	14.0° / 26.0°	78'
Efficiency	92 %	50* 50*
Peak intensity	12.4 cd/lm	
LEDs/each optic	1	6433
Light colour	White	57°
Required components:		
		36* <u>13300</u> 36*
SUNSIL	IG	
SAMSUN		
LED	LM28xB Series	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM	LM28xB Series 10.0° / 20.0°	
LED FWHM / FWTM Efficiency	LM28xB Series 10.0° / 20.0° 93 %	64 640 F
LED FWHM / FWTM Efficiency Peak intensity	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm	60° 000 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM28xB Series 10.0° / 20.0° 93 %	gr 1500 gr
LED FWHM / FWTM	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1	62. 1300 64. 1300 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1	34. G.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1	34. G.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seout semiconductor LED FWHM / FWTM	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1 White Z5M1/Z5M2 10.0° / 19.0°	9°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seous semiconductor LED FWHM / FWTM Efficiency	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1 White Z5M1/Z5M2 10.0° / 19.0° 93 %	gr 1200 gr 100 gr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seour semiconductor LED FWHM / FWTM Efficiency Peak intensity	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1 White Z5M1/Z5M2 10.0° / 19.0° 93 % 25.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1 White Z5M1/Z5M2 10.0° / 19.0° 93 % 25.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stout stemconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1 White Z5M1/Z5M2 10.0° / 19.0° 93 % 25.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: secure semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1 White Z5M1/Z5M2 10.0° / 19.0° 93 % 25.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seous semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1 White Z5M1/Z5M2 10.0° / 19.0° 93 % 25.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stout staticonductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM28xB Series 10.0° / 20.0° 93 % 21.8 cd/lm 1 White Z5M1/Z5M2 10.0° / 19.0° 93 % 25.8 cd/lm 1	