

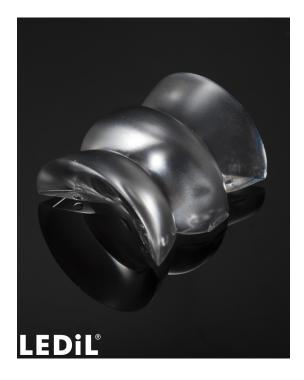
PRODUCT DATASHEET C13012_FLARE-MAXI-D

FLARE-MAXI-D

34 x 33 mm lens with ~110° x 15° diffused oval beam

TECHNICAL SPECIFICATIONS:

Dimensions	33.9 x 33.3 mm
Height	16.5 mm
Fastening	glue, pin
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

 Component
 Type
 Material
 Colour
 Finish

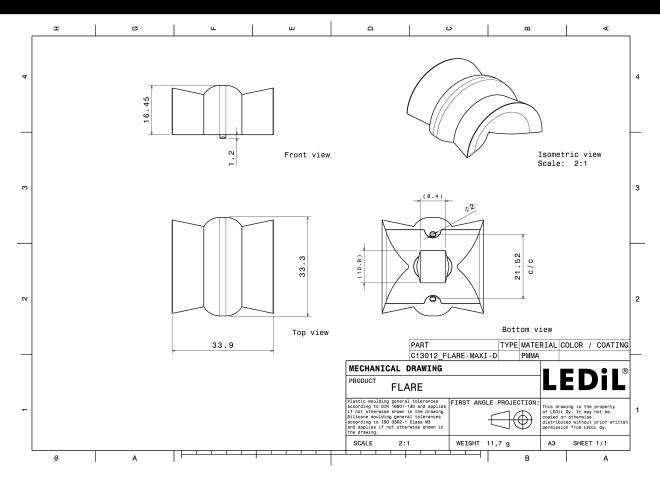
 FLARE-MAXI-D
 Single lens
 PMMA
 clear

 ORDERING INFORMATION:
 Qty in box
 MOQ
 MPQ
 Box weight (kg)

C13012_FLARE-MAXI-D » Box size: 451 x 254 x 197 mm

Qty in box	MOQ	MPQ	Box weight (kg)
840		168	9.7

PRODUCT DATASHEET C13012_FLARE-MAXI-D



R

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



	_	
		50* 30*
LED	MK-R	
FWHM / FWTM	100.0 + 23.0° / 148.0 + 36.0°	
Efficiency	92 %	ex. 400
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ints:	
		30" 100
LED	XHP50	
EED FWHM / FWTM	104.0 + 19.0° / 151.0 + 35.0°	71 75
Efficiency	92 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		30*
		99 ¹⁰ 99 ¹⁰
	ХНР70	
LED	XHP70	
LED FWHM / FWTM	XHP70 104.0 + 28.0° / 153.0 + 44.0°	
LED FWHM / FWTM Efficiency	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White	27* 27 69* 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White	27* 27 69* 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White	27* 27 69* 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White Ints:	57 57 61 400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White ints: XM-L 110.0 + 15.0° / 151.0 + 27.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White ints: XM-L 110.0 + 15.0° / 151.0 + 27.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White ints: XM-L 110.0 + 15.0° / 151.0 + 27.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White ints: XM-L 110.0 + 15.0° / 151.0 + 27.0° 94 % 1.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White mts: XM-L 110.0 + 15.0° / 151.0 + 27.0° 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White mts: XM-L 110.0 + 15.0° / 151.0 + 27.0° 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White mts: XM-L 110.0 + 15.0° / 151.0 + 27.0° 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XHP70 104.0 + 28.0° / 153.0 + 44.0° 92 % 0.9 cd/lm 1 White mts: XM-L 110.0 + 15.0° / 151.0 + 27.0° 94 % 1.7 cd/lm 1 White	



		90* 90*
LED	XM-L2	
FWHM / FWTM	101.0 + 17.0° / 146.0 + 28.0°	75* 25*
Efficiency	94 %	
Peak intensity	1.9 cd/lm	80° - 800
LEDs/each optic	1	
Light colour	White	er la
Required compone	nts:	
		1600
		36* 330
		15° 0° 15°
		90* 90*
LED	XP-G	
FWHM / FWTM	115.0 + 15.0° / 155.0 + 23.0°	75*
Efficiency	94 %	60* 60*
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	ar () ar
Required compone	nts:	
		1000
		30* 17* 0* 17* 34*
i i i i i i i i i i i i i i i i i i i		
	2	 90* 90*
	XP-G2	80°
LED	XP-G2	50° 50°
LED FWHM / FWTM		90° 90°
LED	XP-G2 106.0 + 14.0° / 150.0 + 24.0°	94° 997 75° 000 000
LED FWHM / FWTM Efficiency	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 %	64 000 26
LED FWHM / FWTM Efficiency Peak intensity	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm	8° 000 000 000 000 000 000 000 000 000 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White	71° 75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White	77° 77°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White	71° 75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White	71° 75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White hts:	77° 77°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White hts:	71° 77'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White hts: XP-L HD	71° 77'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREEE>LED LED FWHM / FWTM	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White hts: XP-L HD 119.0 + 16.0° / 154.0 + 27.0°	77° 77°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White hts: XP-L HD 119.0 + 16.0° / 154.0 + 27.0° 94 %	71° 77'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White hts: XP-L HD 119.0 + 16.0° / 154.0 + 27.0° 94 % 1.5 cd/lm	71° 77'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White hts: XP-L HD 119.0 + 16.0° / 154.0 + 27.0° 94 % 1.5 cd/lm 1	71° 72 61° 800
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White NTS: XP-L HD 119.0 + 16.0° / 154.0 + 27.0° 94 % 1.5 cd/lm 1 White	71° 77'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White NTS: XP-L HD 119.0 + 16.0° / 154.0 + 27.0° 94 % 1.5 cd/lm 1 White	27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White NTS: XP-L HD 119.0 + 16.0° / 154.0 + 27.0° 94 % 1.5 cd/lm 1 White	72 61 61 61 61 61 61 61 61 61 61
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 106.0 + 14.0° / 150.0 + 24.0° 94 % 2 cd/lm 1 White NTS: XP-L HD 119.0 + 16.0° / 154.0 + 27.0° 94 % 1.5 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20



FWHM / FWTM 107.0 + 16.0° / 159.0 + 28.0° Efficiency 94 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: CREE C LED LED XT-E FWHM / FWTM 117.0 + 14.0° / 159.0 + 26.0° Efficiency 94 % Peak intensity 1.9 cd/m LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON A FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LEDs/each optic 1			
FVH4//FVTM 107.0 + 16.0' / 159.0 + 28.0'' Efficiency 94 % Headschoptic 1 Light colour White Required components: Image: Components: Image: Components: Image: Components:		D	90° 90°
FWHM/FWTM 107.0 + 160°/150.0 + 28.0° Elfelinency 94 % Peak intensity 1.5 cd/m LEDa/each cytle 1 Light colour White Required components: Image: Components of the component of the components	LED	XP-L2	
Efficiency 9 4% Peak intensity 1.5 cdlm Light colour White Required components: CREESTED LED XT-E FWHM/FWTM 117.0 + 150.0 + 26.0° Efficiency 94 % Peak intensity 1.3 cdlm LED Second polic 1 LED LUXEON A FWHM/FWTM 104.0 + 12.0°/147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cdlm LED LUXEON A FWHM/FWTM 104.0 + 12.0°/147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cdlm LED LUXEON A FWHM/FWTM 104.0 + 12.0°/147.0 + 25.0° Efficiency 94 % Peak intensity 1.1 cdlm LED/second polic 1 Light colour White Required components: ED LUXEONA FWHM/FWTM 102.0 + 25.0°/145.0 + 30.0° Efficiency 94 % Peak intensity 1.4 cdlm LED/second polic 1 Light colour White Required components:	FWHM / FWTM	107.0 + 16.0° / 159.0 + 28.0°	 72.
Peak intensity 1.5 cddm LED2/reach optic 1 LED2/reach optic 1 LED2/reach optic 1 LED XT-E PVMM / FWTM 117.0 + 14.0º / 159.0 + 26.0º Efficiency 9 4 % Required components:			- 400
LEDSreach optic 1 Light colour White Required components: CREE CLOD LED XTE FVHM / FVTM 117.0 + 1.0° / 159.0 + 26.0° Efficiency 94 % Peak intensity 1.0 cd/m LEDVeach optic 1 Light colour White Required components: CUNILEDS Eff LUXEON A FVHM / FVTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LEDSreach optic 1 Light colour White Required components: CUNILEDS Efficiency 94 % Peak intensity 1.1 cd/m LEDSreach optic 1 Light colour White Required components: CUNILEDS LED LUXEON MMX FVHM / FVTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/m LEDSreach optic 1 Light colour White Required components:			601 601 60°
Light colour White Required components:			
Required components:			45*
CREE COMPONENTS LD XT-E FVMM / FVTM 110,0 + 14,0 ' / 150,0 + 26,0 ' Efficiency 94 % Peak intensity 1.9 edfm LDD/each optic 1 Light colour White Required components: COLUNILEDS LED LUXEON A FVMM / FVTM 104,0 + 12,0 ' / 147,0 + 25,0 ' Efficiency 94 % Peak intensity 2.1 edfm LED/each optic 1 LED/each optic 1 LED/each optic 1 LIZD/each optic			
CREE>LED LED XT-E FWHM / FWTM 117.0 + 14.0° / 159.0 + 26.0° Efficiency 94 % Peak intensity 1.9 cd/m LED LED LED LUXEON A FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LED LUXEON A FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LED LUXEON A FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LED LUXEON MMX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/m LED LUXEON MMX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/m LED/sech optic 1 LED/sech optic 1 LED/sech optic 1			1200
CREE>LED LED XT-E FWHM / FWTM 117.0 + 14.0° / 159.0 + 26.0° Efficiency 94 % Peak intensity 1.9 cd/m LED LED LED LUXEON A FWHM / FWTM 119.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LED LUXEON A FWHM / FWTM 194.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LED LUXEON A FWHM / FWTM 194.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LED LUXEON MMX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/m LED/sech optio 1 LUXEON MMX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/m LED/sech optio 1 Lipht colour Upbit colour White Required			
CREE>LED LED XT-E FWHM / FWTM 117.0 + 14.0° / 159.0 + 26.0° Efficiency 94 % Peak intensity 1.9 cd/m LED LED LED LUXEON A FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LED LUXEON A FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LED LUXEON A FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LED LUXEON MMX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/m LED LUXEON MMX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/m LED/sech optic 1 LED/sech optic 1 LED/sech optic 1			30* 30*
LED XT-E FVHM /FVTM 117.0 + 14.0° / 159.0 + 26.0° Efficiency 94% Peak intensity 1.9 collm LEDs/each optic 1 Light colour White Required components:			15° 0° 15°
FWHM / FWTM 117.0 + 14.0° / 159.0 + 26.0° Efficiency 94 % Peak intensity 1.9 cd/m LEDs/each optic 1 Light colour White Required components: ED LUXECNA FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White Required components: ED LUXECN MMX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 112.0 + 25.0° Peak intensity 112.0 + 25.0° Peak intensity 112.0 + 25.0° Pe	CREE÷ LEI		90* 90*
Efficiency 94 % Peak intensity 1.9 cd/m LEDs/each optic 1 Light colour White Required components: ED LUXEON A FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White Required components: ED LUXEON MMX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/m LEDs/each optic 1 Light colour White Required components: ED LUXEON MMX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/m LEDs/each optic 1 Light colour White Required components:	LED	XT-E	75*
Peak intensity 1.9 cd/m LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM	117.0 + 14.0° / 159.0 + 26.0°	
LEDa/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON A FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94% Peak intensity 2.1 cd/m LEDa/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON MMX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94% Peak intensity 1.4 cd/m LEDa/each optic 1 Light colour White Required components:	Efficiency	94 %	60° 60°
Light colour White Required components: CUMILEDS LED LUXEON A FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: EED LUXEON MMX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:	Peak intensity	1.9 cd/lm	
Required components:	LEDs/each optic		
Image: Construction of the second	Light colour		
Image: Constraint of the system of the sy	Required compone	ents:	
Image: Constraint of the system of the sy			1600
Image: Constraint of the system of the sy			
LED LUXEON A FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White Required components: ED LUXEON M/MX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/m LEDs/each optic 1 Light colour White Required components:			36* 36* 36*
LED LUXEON A FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White Required components: ED LUXEON M/MX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/m LEDs/each optic 1 Light colour White Required components:		EDS	90* 90*
FWHM / FWTM 104.0 + 12.0° / 147.0 + 25.0° Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: FWIM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:	LED		
Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components:			13.
LEDs/each optic 1 Light colour White Required components: EDS LUXEON M/MX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:	Efficiency	94 %	
LEDs/each optic 1 Light colour White Required components: EDS LUXEON M/MX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:	Peak intensity	2.1 cd/lm	800
Required components:	LEDs/each optic	1	
Image: Second constraints Image: Second constraints	Light colour	White	9 ⁴
LED LUXEON M/MX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:	Required compone	ents:	
LED LUXEON M/MX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:			1630
LED LUXEON M/MX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:			
LED LUXEON M/MX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:			30-
LED LUXEON M/MX FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:		EDS	90°
FWHM / FWTM 102.0 + 25.0° / 146.0 + 39.0° Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: ••••••••••••••••••••••••••••••••••••			
Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:			73
Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components:			400
LEDs/each optic 1 Light colour White Required components:			60*
Light colour White Required components:			
Required components:			45 ⁴ _ 600 _ 45 ⁴
200 200 200 200 200 200 200 200 200		ang.	
302 137 02 137 300			1200
30 ² 10 ⁴ 10 ⁴			
			30* 36*



UMIL	EDS	90° 90°
LED	LUXEON MZ	
FWHM / FWTM	101.0 + 16.0° / 146.0 + 27.0°	25* 25*
Efficiency	94 %	
Peak intensity	1.9 cd/lm	60 ⁴
LEDs/each optic	1	
Light colour	White	ar ar
Required compone		
		30° 30°
		15° 0° 35°
M LUMIL	EDS	90* 90*
LED	LUXEON Rebel ES	
FWHM / FWTM	104.0 + 13.0° / 150.0 + 25.0°	
Efficiency	94 %	60° 60°
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	424
Required compone	nts:	
		1630
		30. 30.
	EDS	90 ⁴ 90 ⁴
		394
LUMIL	EDS LUXEON T 102.0 + 13.0° / 149.0 + 25.0°	99 ⁴ 92 ⁵
LED FWHM / FWTM	LUXEON T	99°
LED FWHM / FWTM Efficiency	LUXEON T 102.0 + 13.0° / 149.0 + 25.0°	54 ⁴ 55 ⁴ 55 ⁴ 55 ⁴
LED FWHM / FWTM	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 %	95°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm	101 101 101 101 101 101 101 101
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White	55° 500 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White	99 ⁴ 98 ⁵ 99 ⁴ 90 ⁵ 90 ⁵ 00 ⁵ 90 ⁵ 00 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White	90° 90° 75° 00° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White onts:	20° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White Ints:	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White ints: EDS LUXEON TX	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White ints: EDS LUXEON TX 103.0 + 13.0° / 143.0 + 22.0°	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White mts: EDS LUXEON TX 103.0 + 13.0° / 143.0 + 22.0° 93 %	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone With compone Equired compone Equired compone	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White I White I UXEON TX 103.0 + 13.0° / 143.0 + 22.0° 93 % 2.1 cd/lm	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Multiple Equired compone Equired compone Equired compone Equired compone	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White I White I UXEON TX 103.0 + 13.0° / 143.0 + 22.0° 93 % 2.1 cd/lm 1	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Required component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White mts: EDS LUXEON TX 103.0 + 13.0° / 143.0 + 22.0° 93 % 2.1 cd/lm 1 White	60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Multiple Equired compone Equired compone Equired compone Equired compone	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White mts: EDS LUXEON TX 103.0 + 13.0° / 143.0 + 22.0° 93 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Required component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White mts: EDS LUXEON TX 103.0 + 13.0° / 143.0 + 22.0° 93 % 2.1 cd/lm 1 White	60 60 60 60 60 60 60 60 60 60
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 102.0 + 13.0° / 149.0 + 25.0° 92 % 1.8 cd/lm 1 White mts: EDS LUXEON TX 103.0 + 13.0° / 143.0 + 22.0° 93 % 2.1 cd/lm 1 White	60 60 60 60 60 60 60 60 60 60



Ø NICHI∧		C1 3112_FLAF-4UXT-R_198C109198)	
LED	NCSxx19B	2'	
FWHM / FWTM	107.0 + 13.0° / 156.0 + 23.0°		
Efficiency	94 %	690	800
Peak intensity	2.1 cd/lm		
LEDs/each optic	1		
Light colour	White	7	
Required compone	15.		160
		\geq	
		2	129 0° 137
ØNICHI		90*	90*
LED	NS9x383	78	
FWHM / FWTM	110.0 + 16.0° / 152.0 + 30.0°		400
Efficiency	93 % 1.5 cd/lm	.514	604
Peak intensity LEDs/each optic			
LEDS/each optic	1 White	are a	500 Store
Required component		. 40.	
			1200
			1000
		/30*	1600 30°
ØNICHI		90°	W'
	NV4x144A	90"	87
LED FWHM / FWTM	NV4x144A 111.0 + 20.0° / 145.0 + 144.0°		9°
LED FWHM / FWTM Efficiency	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 %	99* 728- 60*	97 400
LED FWHM / FWTM Efficiency Peak intensity	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm	99° 73-	99° 400 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1	99 791 807	997 997 997 997 997 997
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White	99 73 60*	90° 400 600 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White	99 728 69 7	99* 400 - 00 - 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White	99 72 60*	99° 400 600 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White	99 79 69	90° 400 600 (12)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White its:	99 73- 69 -	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White tts:	97 79 79 79 79 79 79	90 40 40 40 40 40 40 40 40 40 4
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White tts:	99 73 65 67 87 97 90	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MICHIM LED FWHM / FWTM	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White ts: NVSW219F 109.0 + 14.0° / 146.0 + 24.0°	99 23 65 79 79 79 79	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MICHIM LED FWHM / FWTM Efficiency	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White hts: NVSW219F 109.0 + 14.0° / 146.0 + 24.0° 94 %	99 99 99 99 99 99 99 99 99 99	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White ts: NVSW219F 109.0 + 14.0° / 146.0 + 24.0° 94 % 1.9 cd/lm	90 20 40 20 20 20 20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White ts: NVSW219F 109.0 + 14.0° / 146.0 + 24.0° 94 % 1.9 cd/lm 1	97 79 69 79 79 79 79 79	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component EQ FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White tts: NVSW219F 109.0 + 14.0° / 146.0 + 24.0° 94 % 1.9 cd/lm 1 White	90 70 70 70 70 70 70 70 70 70 70 70	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White tts: NVSW219F 109.0 + 14.0° / 146.0 + 24.0° 94 % 1.9 cd/lm 1 White	97 194 195 196 197 197 197 197 197 197	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component EQ FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White tts: NVSW219F 109.0 + 14.0° / 146.0 + 24.0° 94 % 1.9 cd/lm 1 White	92 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 component Required component Efficiency Peak intensity LEDs/each optic Light colour	NV4x144A 111.0 + 20.0° / 145.0 + 144.0° 89 % 0.6 cd/lm 1 White tts: NVSW219F 109.0 + 14.0° / 146.0 + 24.0° 94 % 1.9 cd/lm 1 White		



'Sxx19B/NVSxx19C 6.0 + 13.0° / 154.0 + 25.0° % ' cd/lm hite VSx229A 7.0 + 15.0° / 151.0 + 26.0°		
% 6 cd/lm hite		
ris S10 .0 + 20.0° / 144.0 + 36.0° % 6 cd/lm hite		200 - 20 ¹
SLON Square EC .0 + 14.0° / 149.0 + 27.0° % d/lm		29- 29- 29- 29- 29- 29- 29- 29- 29- 29-
	ris S10 0 + 20.0° / 144.0 + 36.0° % cd/lm ite LON Square EC 0 + 14.0° / 149.0 + 27.0° % d/lm	ris \$10 0 + 20.0° / 144.0 + 36.0° % cd/lm ite



OSRAM Opto Semiconductors			90*	90
LED	OSLON Square PC			
FWHM / FWTM	104.0 + 12.0° / 150.0 + 25.0°		75*	75"
Efficiency	94 %			
Peak intensity	2 cd/lm		60.5	8990
LEDs/each optic	1			
Light colour	White		45*	45
Required compone				
				1630
			-	
			30 15°	0° 15°
OSRAM Opto Semiconductors			90*	90*
LED	OSLON SSL 150		1	
FWHM / FWTM	128.0 + 13.0° / 152.0 + 23.0°		73*	78
Efficiency	94 %			
Peak intensity	2 cd/lm		-60*	60*
LEDs/each optic	1			
Light colour	White		45*	65'
Required compone	nts:			1630
				2400
			15	0° 15°
<u> </u> S M S I 	JNG		30 15 90*	0 ⁴ 15 ⁴
	JNG LH351Z			- 0° 25°
			50° <u>55</u> °	- 0 ² 25 ⁵
LED	LH351Z		20° - 12'	0° 25°
LED FWHM / FWTM	LH351Z 98.0 + 13.0° / 128.0 + 22.0°		. 60 ⁴	00 25 ⁵
LED FWHM / FWTM Efficiency	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 %		20 <u>15</u> <u>99</u> 735 60 ⁴	000 000 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm		90°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White		50 <u>50</u> 50 ⁴	000 001 001 001 001 001 001 001 001 001
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White		20 <u>19</u> <u>99</u> * .05 .05	00 1 92 10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White		50° 50°	0 ⁴ 25 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White		20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White		20° 150 00°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White		20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White		20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White nts:		20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White nts: Z5M1/Z5M2		20	0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White nts: Z5M1/Z5M2 104.0 + 14.0° / 144.0 + 25.0°		20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White nts: Z5M1/Z5M2 104.0 + 14.0° / 144.0 + 25.0° 94 %		20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stour semiconductor LED FWHM / FWTM Efficiency Peak intensity	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White nts: Z5M1/Z5M2 104.0 + 14.0° / 144.0 + 25.0° 94 % 2.1 cd/lm		20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone secul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White nts: Z5M1/Z5M2 104.0 + 14.0° / 144.0 + 25.0° 94 % 2.1 cd/lm 1 White		20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White nts: Z5M1/Z5M2 104.0 + 14.0° / 144.0 + 25.0° 94 % 2.1 cd/lm 1 White		20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White nts: Z5M1/Z5M2 104.0 + 14.0° / 144.0 + 25.0° 94 % 2.1 cd/lm 1 White		20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z 98.0 + 13.0° / 128.0 + 22.0° 94 % 2.2 cd/lm 1 White nts: Z5M1/Z5M2 104.0 + 14.0° / 144.0 + 25.0° 94 % 2.1 cd/lm 1 White		20	



SEOUL SEOUL SEMICONDUCTOR			50° 30°
LED	Z8Y22P		
FWHM / FWTM	117.0 + 13.0° / 158.0 + 25.0°	and the second se	75° 75°
Efficiency	94 %	The second s	
Peak intensity	1.6 cd/lm	and the second se	6°*
LEDs/each optic	1		800
Light colour	White		-65 ⁴
Required compone	nts:		20
			30° 15° 0° 15° 30°



PHOTOMETRIC DATA (SIMULATED):

LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP50.2 92.0 + 20.0° / 144.0 + 34.0° 94 % 1.5 cd/lm 1 White	30° 30° 50° 50° 50° 50° 50° 50° 50° 5
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP50.3 HD 88.0 + 18.0° / 139.0 + 30.0° 95 % 1.7 cd/lm 1 White	201 201 201 201 201 201 201 201
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 HE 84.0 + 13.0° / 140.0 + 21.0° 95 % 2.3 cd/lm 1 White	94 ⁴ 95 ⁴ 9
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G3 82.0 + 12.0° / 145.0 + 20.0° 95 % 2.4 cd/lm 1 White	



PHOTOMETRIC DATA (SIMULATED):

	DS		90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 89.0 + 22.0° / 144.0 + 38.0° 95 % 1.4 cd/lm 1 White		25 64 67 80 80 80 80 80 80 80 80 80 80 80 80 80
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 10.0 + 65.0° / 18.0 + 126.0° 92 % 3.3 cd/lm 1 White		
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ P 7070 86.0 + 18.0° / 142.0 + 28.0° 92 % 1.7 cd/lm 1 White	1.503 1.503 1.513 1.	59°



PRODUCT DATASHEET C13012_FLARE-MAXI-D

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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