

PRODUCT DATASHEET C17409_SPORT-2X2-FT6W

SPORT-2X2-FT6W

Wide forward throw beam with optimized cut-off for high masts

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	12.3 mm
Fastening	screw
ROHS compliant	yes 🛈



MATERIALS:

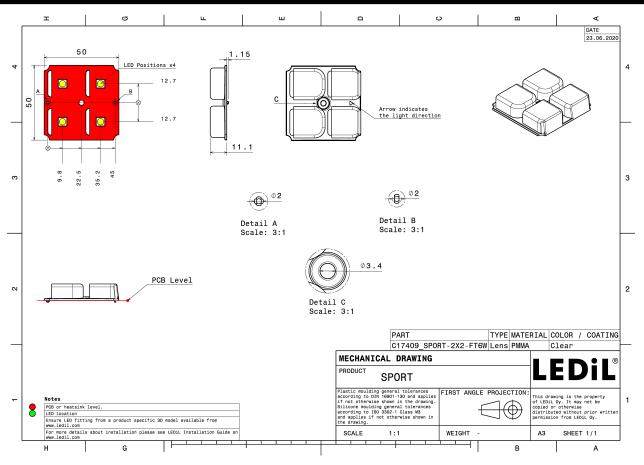
Component	Туре	Material	Colour	Finish
SPORT-2X2-FT6W	Multi-lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C17409_SPORT-2X2-FT6W	640	128	128	9.9
» Box size: 480 x 280 x 300 mm				



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



OPTICAL RESULTS (MEASURED):

		5°.
LED	PassivePAQ-R-222x50.OS1.9.7K-750-5 V1.0	
FWHM / FWTM	Asymmetric	131 77
Efficiency	97 %	400
Peak intensity	1.2 cd/lm	60° 000 00°.
LEDs/each optic	1	30
Light colour	White	45° 1000 65°
Required compone	nts:	1200
		3430
		30* 155 0* 15* 30*
	P	50 ¹
	PassivePAQ-R-274x51-NI0-21K-857-5	90 ⁴ 95.
		90 ⁴ 70 70 70 70 70
LED	PassivePAQ-R-274x51-NI0-21K-857-5	200
LED FWHM / FWTM	PassivePAQ-R-274x51-NI0-21K-857-5 Asymmetric	90 ⁻ 75 ⁻ 60 ⁻ 60 ⁻ 60 ⁻
LED FWHM / FWTM Efficiency	PassivePAQ-R-274x51-NI0-21K-857-5 Asymmetric 96 %	200
LED FWHM / FWTM Efficiency Peak intensity	PassivePAQ-R-274x51-NI0-21K-857-5 Asymmetric 96 % 1 cd/lm	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PassivePAQ-R-274x51-NI0-21K-857-5 Asymmetric 96 % 1 cd/lm 1 White	60 ⁴ 60 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PassivePAQ-R-274x51-NI0-21K-857-5 Asymmetric 96 % 1 cd/lm 1 White	60 ⁴ 60 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PassivePAQ-R-274x51-NI0-21K-857-5 Asymmetric 96 % 1 cd/lm 1 White	60 ⁴ 60 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PassivePAQ-R-274x51-NI0-21K-857-5 Asymmetric 96 % 1 cd/lm 1 White	60 ⁴ 60 ⁵



CREE LED ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	J Series 5050 Round LES Asymmetric 93 % 0.8 cd/lm 1 White	97 73 64 60 60 60 60 60 60 60 60 60 60
		30* 15 ⁵ 16 ²⁰ 15* 30*
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	J Series 5050 Round LES Asymmetric 82 % 0.7 cd/lm 1 White	92 [*] 92
Protective plate	e, glass	80
		130° 125 0 ¹ 0 127 30°
CREE LED	J Series 5050 Square LES 6V Asymmetric 91 % 0.8 cd/lm 1 White	90° 73° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP35.2 HD Asymmetric 90 % 0.8 cd/lm 1 White	



LED	XHP35.2 HD		
FWHM / FWTM	Asymmetric	774	
Efficiency	76 %	20	
Peak intensity	0.6 cd/lm	50%	
-			
LEDs/each optic	1 White	40	
Light colour Required components:	vvnite	4. 20	
Required components.		60	
Protective plate	e, glass	70	
		80	
		20° 12° 0° 13°	/
		8*	
LED	XHP35.2 HI		
FWHM / FWTM	Asymmetric		
Efficiency	94 %		\rightarrow
Peak intensity	0.8 cd/lm	505 40	
LEDs/each optic	1		
Light colour	White	5*	
Required components:		00	
		\times \top \cdot	
		2000	
		20° 120 20° ¢* 127	
LED	XHP35.2 HI		
FWHM / FWTM	Asymmetric		
Efficiency	79 %		
Peak intensity	0.7 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
Protective plate	e, glass		
			T
LED	XP-G2 HE		
FWHM / FWTM	Asymmetric	20	L
Efficiency	89 %	40	0
Peak intensity	1.1 cd/lm	504	
LEDs/each optic	1.1 00/111		
Light colour	White	5° 80	
Required components:	. WINC	*** 	
required components.			
		129	
		3490	



LED	XP-G3	
FWHM / FWTM	Asymmetric	72° 70° 70°
Efficiency	76 %	
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required components:	White	45*
Required components.		
Protective plate	e, glass	\times / \top / \times
		1000
		30° 15° 0° 15°
		90* 90*
LED	XP-L HD	
FWHM / FWTM	Asymmetric	200 70
Efficiency	78 %	
Peak intensity	0.7 cd/lm	.50 ⁴ 50 ⁴
LEDs/each optic	1	
Light colour	White	45* 640 45
Required components:		\times
Protective plate	e, glass	X X
		30* 1000
		15' 0' 15'
		10 ⁻¹⁰
	XP-L HD	90°
	XP-L HD Asymmetric	
LED		
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.9 cd/lm 1 White	
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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.9 cd/lm 1 White XP-L HI Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.9 cd/lm 1 White XP-L HI Asymmetric 79 %	
LED 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 93 % 0.9 cd/lm 1 White XP-L HI Asymmetric 79 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.9 cd/lm 1 White XP-L HI Asymmetric 79 % 0.7 cd/lm 1	
LED 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 93 % 0.9 cd/lm 1 White XP-L HI Asymmetric 79 % 0.7 cd/lm 1 White	
LED 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 93 % 0.9 cd/lm 1 White XP-L HI Asymmetric 79 % 0.7 cd/lm 1 White	
LED 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 93 % 0.9 cd/lm 1 White XP-L HI Asymmetric 79 % 0.7 cd/lm 1 White	



LED	XP-L HI	90* 90*
FWHM / FWTM		75° 200 77°
	Asymmetric 93 %	400
Efficiency Peak intensity	95 % 1 cd/lm	60* 60*
LEDs/each optic		60
Light colour	1 White	
Required components:	White	45° 45°
Required components.		
		1200
		1400
		30° 13 ⁵ 0° 10° 30°
		90°
LED	XP-L2	
FWHM / FWTM	Asymmetric	75° 200 75°
Efficiency	88 %	
Peak intensity	0.8 cd/lm	.60 ⁴ 60 ⁴ .
LEDs/each optic	1	
Light colour	White	45* 640 45*
Required components:		
		000
		1000
		30° 30°
		90*
LED	XP-L2	
FWHM / FWTM	Asymmetric	73* 200 75*
Efficiency	75 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 5% 45*
Required components:		600
Desta stires elett		710
Protective plate	, glass	00
		30° 15° 0° 15° 31°
LED	XP-P	90" p**
FWHM / FWTM	Asymmetric	730 200 700
Efficiency	94 %	40
Peak intensity	1.2 cd/im	áð* <u>60</u> 60*.
LEDs/each optic	1	800
		45* 1000
Light colour	White	
		45* 45*
Light colour		-6° - 6°
Light colour		6° 6° 6° 6°



		90° - 90°
LED	XP-P	- Mars
FWHM / FWTM	Asymmetric	730 200 752
Efficiency	80 %	400
Peak intensity	0.9 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	45* 800 45*
Required components:		
Protective plate	e, glass	1200
		1400
		(30* 15 ⁵ 0 ⁶ 15* 30*)
	DS S	90* 90*
LED	LUXEON 5050 HE	
FWHM / FWTM	Asymmetric	75° 200 77°
Efficiency	78 %	
Peak intensity	0.6 cd/lm	60*.
LEDs/each optic	1	
Light colour	White	5° 5°
Required components:		600
Protective plate	e, glass	800
		10 ³⁰ 10 ³⁰ 15 ⁵ 30 ⁶
		10 0 10
)S	
	LUXEON 5050 HE	
		201 0 11 201 0 11 201 0 11 201 0 11
LED	LUXEON 5050 HE	
LED FWHM / FWTM	LUXEON 5050 HE Asymmetric	
LED FWHM / FWTM Efficiency	LUXEON 5050 HE Asymmetric 91 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1	
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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1 White S LUXEON 5050 Round LES Asymmetric 81 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1 White S LUXEON 5050 Round LES Asymmetric 81 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1 White S LUXEON 5050 Round LES Asymmetric 81 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COUNT Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1 White S LUXEON 5050 Round LES Asymmetric 81 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1 White S LUXEON 5050 Round LES Asymmetric 81 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / EVTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: With Components LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 HE Asymmetric 91 % 0.8 cd/lm 1 White	



FWHM / FWTM Asymmetric Efficiency 9 1% Peak intensity 0.6 cdlm LED% each optic 1 Light colour Nitice Required components: Image: Components: Image: Compone		DS	80
Efficiency 91 % Peak intensity 0.8 cd/m LEb/each optic 1 Light calour White Required components:	LED	LUXEON 5050 Square LES	
Peak intensity 0.8 addm LEDG/each optio 1 LEDG/each optio 1 UNILEDS Required components:	FWHM / FWTM	Asymmetric	73* 200
LEDsleach optic 1 Light colour White Required components: EVUMI /EVITI Asymmetric Efficiency 38 % Peak intensity 06 colon LEDsleach optic 1 Light colour White Required components: Fortective ptate: glass EVUMI /EVIT Asymmetric Efficiency 88 % Peak intensity 08 colon Light colour White Required components:	Efficiency	91 %	
Light colour White Required components: ELD LUXIEON 5050 Square LES FWHM /FWTM Asymmetric EDD LUXEON 14 LEDWeach optic 1 LEDWeach optic 1 LEDWeach optic 1 LEDWeach optic 1 Light colour White Required components: EVENTIAL EDWEACH HL2X FWHM /FWTM Asymmetric Edition 20 80 % Peak intensity 0.8 dollm LEDWeach optic 1 Light colour White Required components: ELD LUXEON HL2X FWHM /FWTM Asymmetric Edition 20 80 % Peak intensity 0.8 dollm LEDWeach optic 1 Light colour White Required components: LED LUXEON TX FWHM /FWTM Asymmetric Edition 20 80 % Peak intensity 0.8 dollm LEDWeach optic 1 Light colour White Required components:	Peak intensity	0.8 cd/lm	60° 400
Required components:	LEDs/each optic	1	
Image: Constraint of the series of the se	Light colour	White	45* 600
LED LUXEON 5050 Square LES FWH / FWTM Asymmetric Efficiency 05 of dr/m LEDS/each optic 1 Light colour White Required components: Protective plate; glass CUNILEDS LED LUXEON HL2X FWH / FWTM Asymmetric Efficiency 88 % Peak intensity 0.8 dr/m LEDS/each optic 1 Light colour White Required components: ED LUXEON TX FWH / FWTM Asymmetric Efficiency 88 % Peak intensity 1.8 dr/m LEDS/each optic 1 Light colour White Required components: ED LUXEON TX FWH / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: ED LUXEON TX FWH / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 80 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 80 % Peak intensity 80 % Peak i	Required components:		
LED LUXEON 5050 Square LES FWH / FWTM Asymmetric Efficiency 05 of dr/m LEDS/each optic 1 Light colour White Required components: Protective plate; glass CUNILEDS LED LUXEON HL2X FWH / FWTM Asymmetric Efficiency 88 % Peak intensity 0.8 dr/m LEDS/each optic 1 Light colour White Required components: ED LUXEON TX FWH / FWTM Asymmetric Efficiency 88 % Peak intensity 1.8 dr/m LEDS/each optic 1 Light colour White Required components: ED LUXEON TX FWH / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: ED LUXEON TX FWH / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 80 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 80 % Peak intensity 80 % Peak i			\times \wedge \times
LED LUXEON 5050 Square LES FWH / FWTM Asymmetric Efficiency 05 of dr/m LEDS/each optic 1 Light colour White Required components: Protective plate; glass CUNILEDS LED LUXEON HL2X FWH / FWTM Asymmetric Efficiency 88 % Peak intensity 0.8 dr/m LEDS/each optic 1 Light colour White Required components: ED LUXEON TX FWH / FWTM Asymmetric Efficiency 88 % Peak intensity 1.8 dr/m LEDS/each optic 1 Light colour White Required components: ED LUXEON TX FWH / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: ED LUXEON TX FWH / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 80 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 80 % Peak intensity 80 % Peak i			1000
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LED LUXEON 5050 Square LES FWH / FWTM Asymmetric Efficiency 05 of dr/m LEDS/each optic 1 Light colour White Required components: Protective plate; glass CUNILEDS LED LUXEON HL2X FWH / FWTM Asymmetric Efficiency 88 % Peak intensity 0.8 dr/m LEDS/each optic 1 Light colour White Required components: ED LUXEON TX FWH / FWTM Asymmetric Efficiency 88 % Peak intensity 1.8 dr/m LEDS/each optic 1 Light colour White Required components: ED LUXEON TX FWH / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: ED LUXEON TX FWH / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 89 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 80 % Peak intensity 1.1 dr/m LEDS/each optic 1 Light colour White Required components: Efficiency 80 % Peak intensity 80 % Peak i		DS	37 ²
FWHM / FWTM Asymmetric Efficiency 83 % Peak intensity 0.6 od/m LEDs/each optic 1 Light colour White Required components: Image: Component (Component			90*
Efficiency 83 % Peak intensity 0.6 cd/m LED/each optic 1 Light colour White Required components: LED LUXEON HL2X FWHM / FWTM Asymmetric Efficiency 88 % Peak intensity 0.8 cd/m LED/each optic 1 Light colour White Required components: LED LUXEON TX FWHM / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 cd/m LED/each optic 1 Light colour White Required components:			230
Peak intensity 0.6 cd/m LEDS/each optic 1 Light colour White Required components: Protective plate, glass			200
LEDs/each optic 1 Light colour White Required components: Protective plate, glass CUNILEDS LED LUXEON HL2X FWHM Asymmetric Efficiency 88% Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components: CUNILEDS LED LUXEON TX FWHM Asymmetric Efficiency 89% Peak intensity 1.1 cd/m LEDs LUXEON TX FWHM Asymmetric Efficiency 89% Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components:	-		50
Light colour White Required components: Protective plate, glass CUMILEDS LED LUXEON HL2X FWHM / FWTM Asymmetric Efficiency 88 % Peak intensity 0.8 cd/im LEDs/each optic 1 Light colour White Required components: ED LUXEON TX FWHM / FWTM Asymmetric Efficiency 89 % Peak intensity 0.1 cd/im LEDs/each optic 1 Light colour White Required components: ED LUXEON TX FWHM / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 cd/im LEDs/each optic 1 Light colour White Required components:			400
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Protective plate, glass CUMILEDS LED LUXEON HL2X FWHM / FWTM Asymmetric Efficiency 88 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON TX FWHM / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components:			45* 6%0
Image: Constraint of the second se	Required components.		\times
Image: Constraint of the second se	Protective pla	te, glass	
LUMILEDS LED LUXEON HL2X FWHM / FWTM Asymmetric Efficiency 88 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Component State St			\times
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FWHM / FWTM Asymmetric Efficiency 88 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components:		DS	MY VH
Efficiency 88 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: EUMILEDS LED LUXEON TX FWHM / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components:	-		90* 9
Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components:	LED		90° 9
LEDs/each optic 1 Light colour White Required components: Image: Component State Sta		LUXEON HL2X	5°
Light colour White Required components: Image: Component State Stat	LED	LUXEON HL2X Asymmetric	
Required components: Image: components image: component image: compone	LED FWHM / FWTM	LUXEON HL2X Asymmetric 88 %	5°
Image: Second	LED FWHM / FWTM Efficiency	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm	5° 50 60 60 60 60 60 60 60 60 60 60 60 60 60
Image: Constraint of the symmetric of the s	LED FWHM / FWTM Efficiency Peak intensity	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1	20
LUMILEDS LED LUXEON TX FWHM / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White	
LUMILEDS LED LUXEON TX FWHM / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White	- 2 0 - 2 0
LUMILEDS LED LUXEON TX FWHM / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White	- 2 0 - 2 0
LED LUXEON TX FWHM / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White	67 00
FWHM / FWTM Asymmetric Efficiency 89 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: 1	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White	67 00
Efficiency 89 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White	67 00
Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White	67 00
LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White	67 57 100 120
Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White DS LUXEON TX Asymmetric	67 00
Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White DS LUXEON TX Asymmetric 89 %	67 00
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White DS LUXEON TX Asymmetric 89 % 1.1 cd/lm	67 00
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White DS LUXEON TX Asymmetric 89 % 1.1 cd/lm 1	
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White DS LUXEON TX Asymmetric 89 % 1.1 cd/lm 1 White	
3400	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White DS LUXEON TX Asymmetric 89 % 1.1 cd/lm 1 White	
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X Asymmetric 88 % 0.8 cd/lm 1 White DS LUXEON TX Asymmetric 89 % 1.1 cd/lm 1 White	



UMILEI)S	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 78 % 0.6 cd/lm 1 White	20 60 60 60 60
Protective plat	, glass	
		10000 100 0° 15*
)S	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 93 % 0.8 cd/lm 1 White	
Required components:		1000 1000 1000 1000
MICHIΛ		50*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NF2x757G Asymmetric 80 % 0.9 cd/lm 1 White	73 20 60 67 80
Protective plat	e, glass	1000
Μ ΝΙCΗΙΛ		12 ³ 0 ⁴ 12 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NFSx757G Asymmetric 79 % 0.9 cd/lm 1 White	2° 73 13 10 10 10 10 10 10 10 10 10 10 10 10 10
Required components: Protective plat		200
		1220 30* 12 ³ 0* 13*



ΜΝΙCΗΙΛ		
LED	NV4WB35AM	
FWHM / FWTM	Asymmetric	730 772
Efficiency	91 %	
Peak intensity	0.9 cd/lm	.50 ⁴ 60 ⁴
		X / eee X)
LEDs/each optic	1 White	
Light colour	White	45° 000 65°
Required components:		1000
		1200
		30* 1450 25 ⁵ 0 ⁶ 15* 30*
ΜΝΙCΗΙΛ		0°*
LED	NV4WB35AM	
FWHM / FWTM	Asymmetric	730 770
Efficiency	83 %	
Peak intensity	0.8 cd/lm	504 604
LEDs/each optic	1	
Light colour	White	45° 600 45°
Required components:		
		90
Protective plate	, glass	\times
		1000
		30° 15° 30°
ΜΝΙCΗΙΛ		90* 90*
LED	NVSW219F	
FWHM / FWTM	Asymmetric	75° 200 75°
Efficiency	78 %	
Peak intensity	0.8 cd/lm	60 ⁴ 600 604.
LEDs/each optic	1	
Light colour	White	45* 640 45*
Required components:		
		\times
Protective plate	, glass	1000
		30* 30*
OSRAM		
Opto Semiconductors	Duris S8	90*
FWHM / FWTM	Asymmetric	730 200 75°
Efficiency	91 %	
Peak intensity	0.7 cd/lm	60° 400 60°
LEDs/each optic	1	$ \vee \times \times \vee$
Light colour	White	
Required components:	mile -	42.
required components:		X/T/X
		1000
		1200
		000



OSRAM Opto Semiconductors		9/* 9/
LED	Duris S8	
FWHM / FWTM	Asymmetric	73*
Efficiency	84 %	
Peak intensity	0.6 cd/lm	50 ⁴ 60 ⁴
LEDs/each optic	1	460
Light colour	White	
Required components:		
· · · · · · · · · · · · · · · · · · ·		
Protective plate	, glass	200
		30* 1000 10* 30*
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ C 2424	
FWHM / FWTM	Asymmetric	75° 200 75'
Efficiency	92 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	4	60
Light colour	White	47°
Required components:		200
		1000
		X T X
		120
		139 ⁵ 0 ⁶ 15 ⁶
OSRAM Opto Semiconductors		90*90
LED	OSCONIQ P 3737 (2W version)	h
FWHM / FWTM	Asymmetric	73* 200 75
Efficiency	79 %	
Peak intensity	0.8 cd/lm	50°
LEDs/each optic	1	
Light colour	White	45* 55*
Required components:		000
		1000
Protective plate	, glass	
		30 ⁴ 320
OSRAM		
Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (3W version)	73% 200 75%
FWHM / FWTM	Asymmetric	200
Efficiency	79 %	807 400 80
Peak intensity		
LEDs/each optic		
Light colour	White	457 800 45
Required components:		X X
		1000
Drotoctivo ploto		
Protective plate	, 9000	1200
Ds/each optic ght colour equired components:	0.7 cd/lm 1 White	67 <u>60</u> 67 <u>60</u> <u>100</u>



OSRAM		
Opto Semiconductors	OSCONIQ P 3737 Flat	90* 90*
LED FWHM / FWTM		73 6 200 75 6
	Asymmetric	
Efficiency	94 %	.604 604
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required components:		1000
		100
		1430 30*
OSRAM		
Opto Semiconductors		90* 90*
	OSCONIQ S 5050	70
FWHM / FWTM Efficiency	Asymmetric	
	94 %	. 60* 60*
Peak intensity	0.8 cd/lm	X/M X
LEDs/each optic	1	
Light colour	White	-6°*
Required components:		800
		\times / \times
		1000
		30 ⁴ 30 ⁴
OSRAM		
OSRAM Opto Semiconductors		
Opto Semiconductors	OSCONIQ S 5050	
Opto Semiconductors LED FWHM / FWTM	Asymmetric	10 ¹ 10 ¹ 1
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 81 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 81 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 81 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 81 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 81 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 81 % 0.6 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 81 % 0.6 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 81 % 0.6 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 81 % 0.6 cd/lm 1 White	60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors	Asymmetric 81 % 0.6 cd/lm 1 White e, glass	60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED	Asymmetric 81 % 0.6 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3	00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 81 % 0.6 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric	00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 81 % 0.6 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 85 %	90 90 90 15 ¹ 15 ¹ 15 ¹ 30 ²
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 81 % 0.6 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % 0.8 cd/lm	90 90 90 15 ¹ 15 ¹ 15 ¹ 30 ²
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 81 % 0.6 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % 0.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 81 % 0.6 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % 0.8 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 81 % 0.6 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % 0.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 81 % 0.6 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 81 % 0.6 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 81 % 0.6 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % 0.8 cd/lm 1 White	



		
OSRAM		
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	90* 90*
LED FWHM / FWTM		73° 200 73°
	Asymmetric	400
Efficiency	90 %	. 60 ⁴ 600 60 ^m
Peak intensity	1 cd/lm	$X \times I \times X$
LEDs/each optic	1	XXXX
Light colour	White	45* 1000 45*
Required components:		1220
		1430
		30* 30* 30*
OSRAM		
Opto Semiconductors		90* 90*
LED	OSLON Square Flat	200
FWHM / FWTM	Asymmetric	400
Efficiency	94 %	80%
Peak intensity	1.1 cd/lm	600
LEDs/each optic	1	000
Light colour	White	45+ <u>1000</u> 45+
Required components:		1220
		1490
		30* 1500 30*
OSDAM		
OSRAM Opto Semiconductors		90 ¹
OSRAM Opto Semiconductors LED	OSTAR Projection Compact (Kx.CSLNM1.xx)	99° 99°
Opto Semiconductors	OSTAR Projection Compact (Kx.CSLNM1.xx) Asymmetric	25 ² d ² 25 ²
Opto Semiconductors		90 ⁻ 10 ² 10
^{Opto Semiconductors} LED FWHM / FWTM	Asymmetric	25 [°] 6 [°] 25 [°] 99 [°] 19 [°] 19 [°] 19 [°] 19 [°] 19 [°] 19 [°] 19 [°] 19 [°] 10 [°]
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 %	20 [°] 20 [°] 20 [°] 20 [°] 20 [°] 20 [°]
^{opto semiconductors} LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/lm	00 00 00 00 00 00 00 00 00 00 00 00 00
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1	. et
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1	6° 60 6°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1	6
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White	60 60 60 157 100 67 1570 100
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White	6
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	6
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White	6
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White	60 60 60 60 60 60 60 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White G LH351B Asymmetric	60 60 67 60 67 100 67 1200 1200 1200 100 10 ⁴ 100 100 100 100 100 100 100 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency	Asymmetric 94 % 1.1 cd/lm 1 White	
orto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/lm 1 White LH351B Asymmetric 77 % 0.7 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	Asymmetric 94 % 1.1 cd/lm 1 White LH351B Asymmetric 77 % 0.7 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 Required components:	Asymmetric 94 % 1.1 cd/lm 1 White LH351B Asymmetric 77 % 0.7 cd/lm 1 White	
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	Asymmetric 94 % 1.1 cd/lm 1 White LH351B Asymmetric 77 % 0.7 cd/lm 1 White	
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 Required components:	Asymmetric 94 % 1.1 cd/lm 1 White LH351B Asymmetric 77 % 0.7 cd/lm 1 White	



SAMSUN	IG			KHT
LED	LH351C		90*	
FWHM / FWTM			750 20	" Charles and the second secon
Efficiency	Asymmetric 88 %		40	
•	88 % 0.8 cd/lm		604	
Peak intensity				
LEDs/each optic	1 White			•
Light colour Required components:	white		45*	»
Required components:				20
Protective plate	e, glass			n
			30* 15 ³	
SAMSUN	IG			FT
LED	LH351D			
FWHM / FWTM	Asymmetric		750 20	
Efficiency	77 %			1/20
Peak intensity	0.6 cd/lm		504 40	·
LEDs/each optic	1		\sim	
Light colour	White		× / ~ ~	•
Required components:	Winte		9	
required compension				•
Protective plate	e, glass			
			10	00
			/30° <u>15</u> 5 0	• 15*
SAMSUN	IG			FT
LED	LH351D			
FWHM / FWTM	Asymmetric		750 20	\sim
Efficiency	88 %		\times	INX-
Peak intensity	0.7 cd/lm		604 40	e + / /
LEDs/each optic	1		\times	
Light colour	White		45*	•
Required components:				
				•
			1	>0
			\times / \neg	
			/30° 15°	15*
SAMSUN	IG		30+	FT
LED	LH502C			
FWHM / FWTM	Asymmetric		750 20	
Efficiency	91 %		$\times \times 11$	
Peak intensity	0.8 cd/lm		504 40	\cdot
LEDs/each optic	1		$\langle \mathcal{N} \rangle$	
Light colour	White		45*	•
Required components:				
1			$\bigvee \uparrow$	•
			10	N



SAMSUN	IG	
LED	LH502C	
FWHM / FWTM	Asymmetric	75° 75'
Efficiency	79 %	200
Peak intensity	0.6 cd/lm	604
LEDs/each optic	1	460
Light colour	White	
Required components:		
· · •		
Protective plate	e, glass	010
		30* <u>1000</u> 30* 30*
SEOUL		
	MJT 5050	90* 90*
LED FWHM / FWTM		750 750
Efficiency	Asymmetric 80 %	200
Peak intensity	0.7 cd/lm	60*
LEDs/each optic	1	400
Light colour	White	$Z \times I \setminus X \setminus$
Required components:	White	
rtequired components.		\times
Protective plate	e, glass	200
		30* 1000 30* 30*
		10 V 10
SECUL		
SEOUL SEMICONDUCTOR	SEQUE DC 5050 6V	
SEOUL SEMICONDUCTOR	SEOUL DC 5050 6V Asymmetric	20 V V V V V V V V V V V V V V V V V V V
seoul semiconductor LED FWHM / FWTM	SEOUL DC 5050 6V Asymmetric 91 %	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 91 %	20 20 20 20 20 20 20 20
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.8 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 91 % 0.8 cd/lm 1	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.8 cd/lm 1	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.8 cd/lm 1	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.8 cd/lm 1	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.8 cd/lm 1	
stour semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.8 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.8 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED	Asymmetric 91 % 0.8 cd/lm 1 White SEOUL DC 5050 6V	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED Assembly	Asymmetric 91 % 0.8 cd/lm 1 White SEOUL DC 5050 6V NULL	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED Assembly FWHM / FWTM	Asymmetric 91 % 0.8 cd/lm 1 White SEOUL DC 5050 6V NULL Asymmetric	
seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul SEMICONDUCTOR LED Assembly FWHM / FWTM Efficiency	Asymmetric 91 % 0.8 cd/lm 1 White SEOUL DC 5050 6V NULL Asymmetric 80 %	
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED Assembly FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.8 cd/lm 1 White SEOUL DC 5050 6V NULL Asymmetric	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED Assembly FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.8 cd/lm 1 White SEOUL DC 5050 6V NULL Asymmetric 80 % 0.6 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seous semiconductor LED Assembly FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.8 cd/lm 1 White SEOUL DC 5050 6V NULL Asymmetric 80 % 0.6 cd/lm 1	
stout semconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stout semconouctor LED Assembly FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.8 cd/lm 1 White SEOUL DC 5050 6V NULL Asymmetric 80 % 0.6 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seous semiconductor LED Assembly FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.8 cd/lm 1 White SEOUL DC 5050 6V NULL Asymmetric 80 % 0.6 cd/lm 1 White	



SECUL) SECUL SEMICONDUCTOR	Z5M3
FWHM / FWTM	Asymmetric
Efficiency Roak intensity	80 % 0.8 cd/lm
Peak intensity LEDs/each optic	0.8 cd/im 1
Light colour	White
Required components	s:
Protective p	late, glass
SEQUE	
SEOUL SEMICONDUCTOR	
LED	Z5M4
FWHM / FWTM Efficiency	Asymmetric 79 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components	S:
Protective p	late, glass
	, 0



PRODUCT DATASHEET C17409_SPORT-2X2-FT6W

GENERAL INFORMATION:

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

MATERIALS:

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

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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LEDiL Oy

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