

# PRODUCT DATASHEET C17413\_SPORT-2X2-S4

## SPORT-2X2-S4

Slightly asymmetric ~40° s minimum spill light	oot beam with			
SPECIFICATION:				
Dimensions	50.0 x 50.0 mm 14.4 mm			
Height	screw			
Fastening ROHS compliant	yes (i)			
MATERIALS:		LEDiĽ		
Component	Туре	Material	Colour	Finish
SPORT-2X2-S4	Multi-lens	PMMA	clear	
ORDERING INFORMATION:				
Component		Qty in box	MOQ MPQ	Box weight (kg)

C17413\_SPORT-2X2-S4 » Box size: 480 x 280 x 300 mm

476

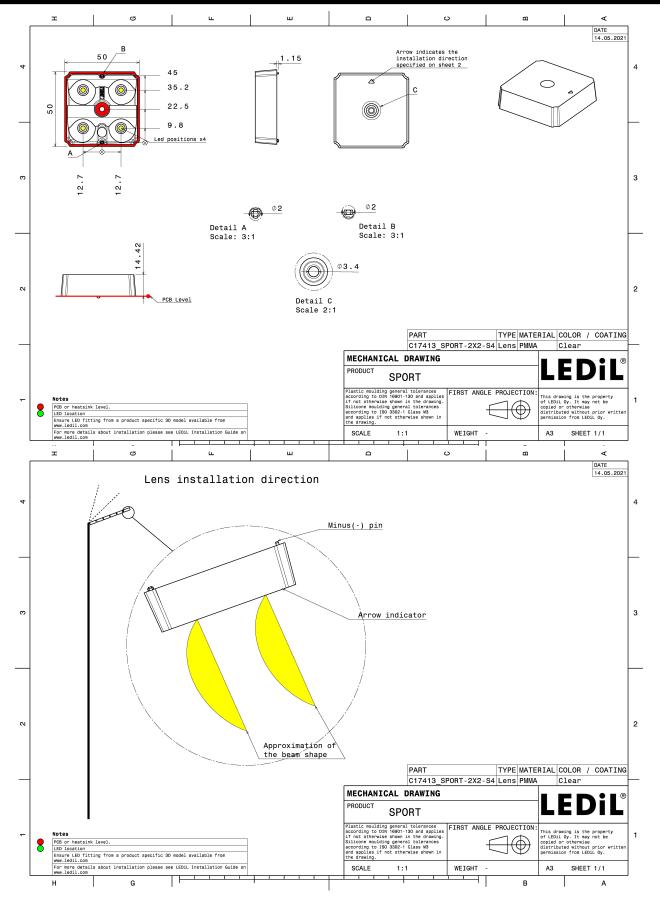
140

28

10.2



## PRODUCT DATASHEET C17413\_SPORT-2X2-S4



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

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### **OPTICAL RESULTS (MEASURED):**

<b></b>		
		90° 90°
LED	XP-G4	
FWHM / FWTM	Asymmetric	75'
Efficiency	97 %	
Peak intensity	4.1 cd/lm	60°
LEDs/each optic	1	
Light colour	White	95
Required compone		
		30° 30°
		15° 3690 15°
ØNICHI∕		90°
LED	NV4WB35AM	75
FWHM / FWTM	Asymmetric	
Efficiency	88 %	60°
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	1500
Light colour	White	45*
Required compone	nts:	
Drotostiva		
Protective	plate, glass	
		30° <u>3230</u> 30° 15° 0° 15°
ØNICHI/		90 <sup>4</sup> 99 <sup>4</sup>
LED	NV4WB35AM	
FWHM / FWTM	Asymmetric	23*
Efficiency	96 %	60 <sup>4</sup>
Peak intensity	3.4 cd/lm	
LEDs/each optic	1	
Light colour	White	95° 43°
Required compone	nts:	
		3300
		-30° - 30°
		125 <sup>°</sup> 0 <sup>6</sup> 32 <sup>5</sup>
		90° 90°
LED	PassivePAQ-R-274x51-NI0-21K-857-5	755
FWHM / FWTM	Asymmetric	
Efficiency	97 %	60°
Peak intensity	3.3 cd/lm	
LEDs/each optic	1	
Light colour	White	ar ar
Required compone	nto	
	nis.	
	nis:	
	ns.	
	ns.	



		90* <b>9</b> 0*
LED	J Series 5050 Round LES	
FWHM / FWTM	Asymmetric	23.
Efficiency	97 %	
Peak intensity	2.8 cd/lm	60"
LEDs/each optic	1	
Light colour	White	45* 450
Required components:		
		30°
		90° 90°
LED	J Series 5050 Round LES	74.
FWHM / FWTM	Asymmetric	$\wedge \wedge \uparrow$
Efficiency	92 %	60°
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	
Light colour	White	95° d2°
Required components:		
Drotostivo plate		
Protective plate	a, glass	246
		30° 32° 32°
		90° 90°
	XHP35.2 HD	50* 55*
LED	XHP35.2 HD Asymmetric	<u>3</u> . <u>5.</u> <u>5.</u> <u>5.</u>
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 88 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 88 % 1.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 88 % 1.7 cd/lm 1	60 25 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 88 % 1.7 cd/lm	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 88 % 1.7 cd/lm 1	60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 88 % 1.7 cd/lm 1 White	60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 88 % 1.7 cd/lm 1 White	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 88 % 1.7 cd/lm 1 White	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 88 % 1.7 cd/lm 1 White a, glass	60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 88 % 1.7 cd/lm 1 White a, glass XHP35.2 HD	60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 88 % 1.7 cd/lm 1 White e, glass XHP35.2 HD Asymmetric	30.         30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 88 % 1.7 cd/lm 1 White a, glass XHP35.2 HD Asymmetric 96 %	30.         30.         30.         30.           30.         12.0         30.         30.           60.         60.         65.         65.           52.         60.         65.         55.           53.         60.         65.         55.           53.         60.         65.         55.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREE LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 88 % 1.7 cd/lm 1 White e, glass XHP35.2 HD Asymmetric 96 % 1.9 cd/lm	30.         30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 88 % 1.7 cd/lm 1 White e, glass XHP35.2 HD Asymmetric 96 % 1.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 88 % 1.7 cd/lm 1 White e, glass XHP35.2 HD Asymmetric 96 % 1.9 cd/lm	30.         30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 88 % 1.7 cd/lm 1 White e, glass XHP35.2 HD Asymmetric 96 % 1.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 88 % 1.7 cd/lm 1 White e, glass XHP35.2 HD Asymmetric 96 % 1.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 88 % 1.7 cd/lm 1 White e, glass XHP35.2 HD Asymmetric 96 % 1.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 88 % 1.7 cd/lm 1 White e, glass XHP35.2 HD Asymmetric 96 % 1.9 cd/lm 1	



		90* 90
LED	XHP35.2 HI	
FWHM / FWTM	Asymmetric	75
Efficiency	96 %	
Peak intensity	2.5 cd/lm	60° 60° 60° 60° 60° 60° 60° 60° 60° 60°
LEDs/each optic	1	
Light colour	White	gr (
Required components:	Wine	
		1530
		30°
		30° 30° 30° 30°
		90* 90
LED	XHP35.2 HI	
FWHM / FWTM	Asymmetric	
Efficiency	88 %	601 60
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	454 433
Required components:		
		1630
Protective plate	e, glass	
		30°
		90* 90*
	XM-L3	59°
LED	XM-L3 Asymmetric	31.         32           90.         30
LED FWHM / FWTM	XM-L3 Asymmetric 96 %	31 32 99
LED FWHM / FWTM Efficiency	Asymmetric 96 %	94 90 75 72 96 90
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric	94* 99 95 96* 99 90 - 100 - 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 96 % 2.4 cd/lm	90° 90 72° 90 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 96 % 2.4 cd/lm 1	94 94 96 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 2.4 cd/lm 1	91 <sup>4</sup> 90 91 <sup>4</sup> 90 91 <sup>4</sup> 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 2.4 cd/lm 1	91 91 92 92 92 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 2.4 cd/lm 1	94 95 95 96 96 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 96 % 2.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 96 % 2.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 96 % 2.4 cd/lm 1 White XM-L3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 96 % 2.4 cd/lm 1 White XM-L3 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 96 % 2.4 cd/lm 1 White XM-L3 Asymmetric 89 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 96 % 2.4 cd/lm 1 White XM-L3 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 96 % 2.4 cd/lm 1 White XM-L3 Asymmetric 89 % 2.1 cd/lm 1	
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	Asymmetric 96 % 2.4 cd/lm 1 White XM-L3 Asymmetric 89 % 2.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 96 % 2.4 cd/lm 1 White XM-L3 Asymmetric 89 % 2.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 96 % 2.4 cd/lm 1 White XM-L3 Asymmetric 89 % 2.1 cd/lm 1 White	
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	Asymmetric 96 % 2.4 cd/lm 1 White XM-L3 Asymmetric 89 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 96 % 2.4 cd/lm 1 White XM-L3 Asymmetric 89 % 2.1 cd/lm 1 White	



		50° 50°
LED	XP-G2 HE	
FWHM / FWTM	Asymmetric	75.
Efficiency	97 %	
Peak intensity	4.1 cd/lm	60°
LEDs/each optic	1	
Light colour	' White	45*
Required components:	White	
ricquired components.		
		30-
		30° 3250 30° 35°
		90° 90°
LED	XP-G3	
FWHM / FWTM	Asymmetric	75* 75*
Efficiency	91 %	
Peak intensity	2.8 cd/lm	69* 69*
LEDs/each optic	1	
Light colour	White	g*
Required components:		4600
Protective plate	e, glass	
		30*
1		15° 2880 15°
Ļ		10 10
		90* <b>A</b> 90*
	XP-L HD	90 <sup>3</sup>
LED	XP-L HD Asymmetric	Bi         Bi           Bi         Bi           Bi         Bi
LED FWHM / FWTM	Asymmetric	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
LED FWHM / FWTM Efficiency	Asymmetric 97 %	Dimension         Dimension <thdimatch =="" dimension<="" th="">         Dimension</thdimatch>
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric	20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 2.7 cd/lm	g, g, g, g, g, g, g, g, g, g, g, g, g, g
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.7 cd/lm 1	99° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 2.7 cd/lm 1	99° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.7 cd/lm 1	99° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.7 cd/lm 1	99° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 97 % 2.7 cd/lm 1	99 <sup>4</sup> 99 <sup>2</sup> 73 <sup>4</sup> 90 <sup>6</sup> 90 <sup>7</sup> 91 <sup>7</sup> 90 <sup>7</sup> 90 <sup>8</sup> 90 <sup>8</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.7 cd/lm 1 White	90° 90° 90° 91° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 97 % 2.7 cd/lm 1	30.         30.         30.         30.           30.         30.         30.         30.           40.         000         60.         60.           50.         30.         30.         30.           30.         30.         30.         30.           31.         36.         30.         30.           32.         36.         30.         30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 97 % 2.7 cd/lm 1 White XP-L HD Asymmetric	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 97 % 2.7 cd/lm 1 White XP-L HD Asymmetric 92 %	30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 97 % 2.7 cd/lm 1 White XP-L HD Asymmetric	30.         30.         30.         30.           30.         30.         30.         30.           40.         000         60.         60.           50.         30.         30.         30.           30.         30.         30.         30.           31.         36.         30.         30.           32.         36.         30.         30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 2.7 cd/lm 1 White XP-L HD Asymmetric 92 % 2.5 cd/lm 1	30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.7 cd/lm 1 White XP-L HD Asymmetric 92 % 2.5 cd/lm	30,         32,         360         32,           30,         32,         360         32,           40,         1000         65,         35,           30,         000         65,         35,           30,         000         65,         35,           30,         000         65,         35,           30,         000         65,         35,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 2.7 cd/lm 1 White XP-L HD Asymmetric 92 % 2.5 cd/lm 1	30,         32,         360         32,           30,         32,         360         32,           40,         1000         65,         35,           30,         000         65,         35,           30,         000         65,         35,           30,         000         65,         35,           30,         000         65,         35,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 97 % 2.7 cd/lm 1 White XP-L HD Asymmetric 92 % 2.5 cd/lm 1 White	30,         32,         360         32,           30,         32,         360         32,           40,         1000         65,         35,           30,         000         65,         35,           30,         000         65,         35,           30,         000         65,         35,           30,         000         65,         35,
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	Asymmetric 97 % 2.7 cd/lm 1 White XP-L HD Asymmetric 92 % 2.5 cd/lm 1 White	30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.           30.         30.         30.         30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 97 % 2.7 cd/lm 1 White XP-L HD Asymmetric 92 % 2.5 cd/lm 1 White	No.         No.         No.



		90° 90°
LED	XP-L HI	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	3.6 cd/lm	60°
LEDs/each optic	1	
Light colour	White	47.º
Required components:		
Protective plate		
FIDIECTIVE plate	z, ylass	202
		30° 30° 35°
		90 <sup>4</sup> A 90 <sup>*</sup>
LED	XP-L HI	
FWHM / FWTM	Asymmetric	75
Efficiency	97 %	
Peak intensity	3.8 cd/im	60°
LEDs/each optic	1	
Light colour	White	95° 1630 - 85°
Required components:		
		30° 15° 0° 15°
		90* 90*
LED	XP-L2	
FWHM / FWTM		
	Asymmetric	73'
	Asymmetric 96 %	7
Efficiency	96 %	64 000 F
Efficiency Peak intensity	96 % 2.3 cd/lm	60 - 60 - 60 - 77 - 77 - 77 - 77 - 77 -
Efficiency Peak intensity LEDs/each optic	96 % 2.3 cd/lm 1	77 77 60 <sup>4</sup> 60 <sup>4</sup>
Efficiency Peak intensity LEDs/each optic Light colour	96 % 2.3 cd/lm	000 000 000 000 000
Efficiency Peak intensity LEDs/each optic	96 % 2.3 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	96 % 2.3 cd/lm 1	90 - 00 - 00 97 - 00 - 00 97 - 00
Efficiency Peak intensity LEDs/each optic Light colour	96 % 2.3 cd/lm 1	97 97 97 97 97 97 97 97 97 97 97 97 97 9
Efficiency Peak intensity LEDs/each optic Light colour	96 % 2.3 cd/lm 1	20- 20- 20- 20- 20- 20- 20- 20-
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 2.3 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 2.3 cd/lm 1 White	201 201 201 201 0 0 0 0 0 0 0 0 0 0 0 0 0
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 2.3 cd/lm 1 White XP-L2	25 25 25 25 25 25 25 25 25 25
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 2.3 cd/lm 1 White XP-L2 Asymmetric	25 26 27 27 28 29 29 29 29 29 29 29 29 29 29
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 2.3 cd/lm 1 White XP-L2 Asymmetric 88 %	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 2.3 cd/lm 1 White XP-L2 Asymmetric 88 % 2.1 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 2.3 cd/lm 1 White XP-L2 Asymmetric 88 % 2.1 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 2.3 cd/lm 1 White XP-L2 Asymmetric 88 % 2.1 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 2.3 cd/lm 1 White XP-L2 Asymmetric 88 % 2.1 cd/lm 1	500
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 2.3 cd/lm 1 White XP-L2 Asymmetric 88 % 2.1 cd/lm 1 White	500
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 2.3 cd/lm 1 White XP-L2 Asymmetric 88 % 2.1 cd/lm 1 White	500
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 2.3 cd/lm 1 White XP-L2 Asymmetric 88 % 2.1 cd/lm 1 White	400 607 637 630 630



UMILE	IS	90* 90*
LED	LUXEON 3030 2D (Round LES)	75
FWHM / FWTM	Asymmetric	
Efficiency	92 %	60° 60°
Peak intensity	4 cd/lm	
LEDs/each optic	1	160
Light colour	White	
Required components:		000
Protective plate	, glass	
	<u> </u>	30° 300 300
		90*
LED	LUXEON 5050 HE	75
FWHM / FWTM	Asymmetric	
Efficiency	97 %	60° / 60°
Peak intensity	2.7 cd/lm	
LEDs/each optic Light colour	1 White	47° 1600 47°
Required components:	Wille	$K \neq ( 1 \neq 1 > 2$
Required components.		
		15° 0° 15°
	IS	90°
LED	LUXEON 5050 HE	
FWHM / FWTM	Asymmetric	
Efficiency	89 %	60° 800 60°
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45° - 1690 - 65'
Required components:		$\mathbf{k} \neq \mathbf{N} \neq \mathbf{N} \neq \mathbf{N}$
Protective plate	, glass	
	, , , , , , , , , , , , , , , , , , , ,	2400
		36° 30° 30° 30°
	IS	20 <sup>6</sup> 22 <sup>7</sup> 0 <sup>6</sup> 22 <sup>7</sup> 30 <sup>6</sup>
	LUXEON 5050 Round LES	
LUMILEE LED FWHM / FWTM		 20 <sup>-</sup> 20 <sup>-</sup>
LED	LUXEON 5050 Round LES	20 <sup>°</sup> 20 <sup>°</sup> 20 <sup>°</sup> 20 <sup>°</sup> 20 <sup>°</sup>
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES Asymmetric	00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 92 % 2.7 cd/lm 1	Bay         200         200           State         200         200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 92 % 2.7 cd/lm	2 <sup>1</sup> 2 <sup>1</sup> 2 <sup>1</sup> 2 <sup>1</sup> 2 <sup>1</sup> 2 <sup>1</sup> 2 <sup>1</sup> 2 <sup>1</sup>
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES Asymmetric 92 % 2.7 cd/lm 1	20 <sup>°</sup> 20 <sup>°</sup> 10 <sup>°</sup> 20 <sup>°</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES Asymmetric 92 % 2.7 cd/lm 1 White	20 <sup>°</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 92 % 2.7 cd/lm 1 White	21 <sup>1</sup>



UMILE	DS	900 ****
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LUXEON 5050 Square LES Asymmetric 97 % 2.8 cd/lm 1 White	25 60 50 50 50 50 50 50 50 50 50 50 50 50 50
	DS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LUXEON 5050 Square LES Asymmetric 92 % 2.7 cd/lm 1 White	73 - 27 64 - 60 74 - 100 - 60
Protective pla	ate, glass	30° 10° 10° 10°
	DS	90° 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LUXEON 7070 Asymmetric 96 % 1.7 cd/lm 1 White	27° 0° 12° 37
	DS	50° 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 97 % 2.8 cd/lm 1 White	



UMILE	)S	90*
LED	LUXEON XR-HL2X (L2H2-xxxxxMLU010)	75
FWHM / FWTM	Asymmetric	
Efficiency	89 %	60%
Peak intensity	2.5 cd/lm	
LEDs/each optic	1 White	
Light colour Required components:	White	
Protective plat	a dass	
	, 9/00	30" 25" 24 25"
	US	80°
LED	SST-70X-WCS	
FWHM / FWTM	Asymmetric	400
Efficiency	89 %	ey <sup>t</sup>
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	9 <sup>57</sup> 1200
Required components:		
Protective plat	e, glass	
		200 200 200 200
	US	90°
LED	SST-70X-WCS	75°
FWHM / FWTM	Asymmetric	
Efficiency	97 %	60.0
Peak intensity	2.2 cd/lm	
LEDs/each optic	1	
	White	at.
Light colour Required components:	White	o,
	White	97 
	White	97 3050
	White	<b>3</b> <sup>0</sup> <b>1</b> 5 <sup>7</sup> <b>0</b> <sup>1</sup> <b>1</b> 5 <sup>7</sup>
Required components:	White	200 30 <sup>4</sup> 55 <sup>4</sup> 55 <sup>4</sup> 55 <sup>4</sup>
Required components:	White NVSW219F	200 200 200 200 200 200 200 200 200 200
Required components:		9 <sup>4</sup>
Required components:	NVSW219F	94 30 15 0 0 15 0 0 15 0 0 15 0 0 15 0 0 15 0 0 15 0 0 15 0 0 15 0 15 15 15 15 15 15 15 15 15 15
Required components:	NVSW219F Asymmetric	90°
Required components:	NVSW219F Asymmetric 92 % 3.1 cd/lm 1	9° 9° 9° 9° 9° 90° 90°
Required components:	NVSW219F Asymmetric 92 % 3.1 cd/lm	
Required components:	NVSW219F Asymmetric 92 % 3.1 cd/lm 1	5° 200 30° 5° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6
Required components:	NVSW219F Asymmetric 92 % 3.1 cd/lm 1 White	



<b>ΜΝΙCΗΙΛ</b>		50*	
LED	NVSW3x9A		$\wedge$
FWHM / FWTM	Asymmetric	75	
Efficiency	91 %		
Peak intensity	2.7 cd/lm		
LEDs/each optic	1		
Light colour	White	g	
Required components:			160
			$\mathcal{A}$
Protective plat	e, glass		7
		314	2890
MICHIΛ		50 <sup>4</sup>	٨
LED	NVSxE21A		
FWHM / FWTM	Asymmetric	75	0
Efficiency	89 %		
Peak intensity	4.1 cd/lm		16
LEDs/each optic	1		
Light colour	White	er /	
Required components:			249
Protective plat	o doce		3231
Protective plat	e, yiass		V
		94 <sup>6</sup>	40,90
OSRAM Opto Semiconductors		99 <sup>4</sup>	Δ
LED	Duris S8		
FWHM / FWTM	Asymmetric		
Efficiency	92 %	Ex.	800
Peak intensity	2.6 cd/lm	$\sim 1$	
LEDs/each optic	1		
Light colour	White	¢.	1600
Required components:			
Protective plat	e alses		$\bigvee$
Frotective plat	e, yiass		200
		90 <sup>4</sup>	00
OSRAM Opto Semiconductors		99 <sup>4</sup>	$\wedge$
LED	Duris S8	81	
FWHM / FWTM	Asymmetric		
Efficiency	97 %	en	800
Peak intensity	2.8 cd/lm	$\sim 10^{-1}$	
LEDs/each optic	1		
Light colour	White	¢ <sup>r</sup>	1630
Required components:			
			and
			V



OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ C 2424	
FWHM / FWTM	Asymmetric	75. 75.
Efficiency	97 %	
Peak intensity	2.9 cd/lm	69* 60°
LEDs/each optic	4	
Light colour	White	45° 45°
Required components:	THE STREET	
		30°
OSRAM Opto Semiconductors		50° 50°
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	Asymmetric	75*
Efficiency	92 %	
Peak intensity	2.8 cd/lm	
LEDs/each optic	1	
Light colour	White	gr et
Required components:		1500
Protective plate	e, glass	
		30* 36*
		10 0 10
OSRAM		
OSRAM Opto Semiconductors		90° 90°
Opto Semiconductors LED	OSCONIQ P 3737 Flat	50°
Opto Semiconductors LED FWHM / FWTM	Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 97 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 3.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 3.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 3.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 3.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 3.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 3.6 cd/lm 1	27. 64. 65. 100 100 100 100 100 100
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 3.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 97 % 3.6 cd/lm 1	27. 64. 65. 100 100 100 100 100 100
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 97 % 3.6 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 97 % 3.6 cd/lm 1 White OSCONIQ S 5050	27. 64. 65. 100 100 100 100 100 100
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	Asymmetric 97 % 3.6 cd/lm 1 White OSCONIQ S 5050 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 97 % 3.6 cd/lm 1 White OSCONIQ S 5050 Asymmetric 97 %	22 60 60 60 100 100 100 100 100 1
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 3.6 cd/lm 1 White OSCONIQ S 5050 Asymmetric 97 % 2.8 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 3.6 cd/lm 1 White OSCONIQ S 5050 Asymmetric 97 % 2.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 3.6 cd/lm 1 White OSCONIQ S 5050 Asymmetric 97 % 2.8 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 3.6 cd/lm 1 White OSCONIQ S 5050 Asymmetric 97 % 2.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 3.6 cd/lm 1 White OSCONIQ S 5050 Asymmetric 97 % 2.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 3.6 cd/lm 1 White OSCONIQ S 5050 Asymmetric 97 % 2.8 cd/lm 1	



OSRAM Opto Semiconductors		90° 90°
	OSCONIQ S 5050	
FWHM / FWTM	Asymmetric	73.
Efficiency	89 %	
Peak intensity	2.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	1500 date
Required components:		
Protective plate	e, glass	
		30*
000444		15 <sup>9</sup> 0 <sup>6</sup> 35 <sup>9</sup>
OSRAM Opto Semiconductors		90° 90°
LED	OSLON Square CSSRM2/CSSRM3	75'
FWHM / FWTM	Asymmetric	
Efficiency	91 %	60 <sup>4</sup> 60 <sup>4</sup>
Peak intensity	3.7 cd/lm	
LEDs/each optic	1	1600
Light colour	White	45 AS
Required components:		
Protective plate		2430
FIDIECTIVE Plate	a, glass	
		30° 15° 36° 36°
OSRAM Opto Semiconductors		90° 90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75.
Efficiency	96 %	
Peak intensity	4 cd/lm	
LEDs/each optic	1	1600
Light colour	White	
Required components:		
		200
		36* 200 365
сласия		( 13° 0° 15°
SVWSUN		90 <sup>+</sup> 90 <sup>+</sup>
LED	LH351B	75*
FWHM / FWTM	Asymmetric	
Efficiency	92 %	50 <sup>3</sup> 50 <sup>9</sup>
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	
Light colour	White	45
Required components:		
Protective plate	e. glass	$\times$ $\wedge$ $\times$
		304



SAMSUN	IG –	99°
LED	LH351C	
FWHM / FWTM	Asymmetric	75
Efficiency	92 %	
Peak intensity	3 cd/lm	<sup>60</sup>
LEDs/each optic	1	
Light colour	White	ar A
Required components:		
Protective plate	e, glass	
		30*
SAMSUN	IG	20) W 10
LED FWHM / FWTM	LH351D	75:
Efficiency	Asymmetric 96 %	
Peak intensity	96 % 2.3 cd/lm	ev
LEDs/each optic	2.3 co/im 1	
Light colour	ı White	
Required components:	Winte	
Required components.		
		30° 127 0° 15
SAMSUN	I G	50°
LED	LH351D	
FWHM / FWTM	Asymmetric	75
Efficiency	91 %	
Peak intensity	2.2 cd/lm	
LEDs/each optic	1	
Light colour	White	Ø.
Required components:		
Protective plate	e, glass	
SAMSUN	IG	20 V 13
LED	LH502C	
FWHM / FWTM	Asymmetric	25
Efficiency	97 %	
Peak intensity	97 ‰ 2.8 cd/lm	90
LEDs/each optic	2.8 ca/im 1	
Light colour	ı White	e- 100 -
Required components:	**11110	
rioquirou componente.		$  \times \Lambda / \Lambda $



SAMSUN	IG	90°*90
LED	LH502C	
FWHM / FWTM	Asymmetric	25*
Efficiency	90 %	
Peak intensity	2.6 cd/lm	60° 60
LEDs/each optic	1	
Light colour	White	97* (50) (51)
Required components:	WING .	
Protective plate	alass	
	, 9445	30*
SEOUL		
SEOUL SEMICONDUCTOR		90
LED	SEOUL DC 5050 6V	73*
FWHM / FWTM	Asymmetric	
Efficiency	97 %	60° 60
Peak intensity	2.8 cd/lm	
LEDs/each optic	1	100
Light colour	White	
Required components:		
		240
		36° 110° 0° 110° 36
SEOUL		90* 90
SEOUL SEMICONDUCTOR	SEOUL DC 5050 6V	
FWHM / FWTM	Asymmetric	75'
Efficiency	92 %	
Peak intensity	2.6 cd/lm	60 <sup>s</sup> 60
LEDs/each optic	1	
Light colour	White	gr <sup>a</sup> 1600 es
Required components:		
· · · · · · · · · · · · · · · · · · ·		
Protective plate	, glass	
		30*
SEOUL		( <u>13<sup>5</sup></u> <u>0<sup>6</sup></u> <u>13<sup>5</sup></u>
	75140	$\land$
LED FWHM / FWTM	Z5M3	75
	Asymmetric 91 %	
Efficiency Peak intensity		60 <sup>4</sup> 60
LEDs/each optic	3.1 cd/lm 1	$  \times / / /   \wedge \times$
LEDs/each optic	1 White	er l
	WING .	1500
Required componente:		
Required components:		
	, glass	
Required components: Protective plate	, glass	



SEOUL		90'	
SEOUL SEMICONDUCTOR	Z5M4		
FWHM / FWTM	Asymmetric	75*	
Efficiency	93 %		
Peak intensity	3.2 cd/lm	90 <sup>5</sup>	v ////
LEDs/each optic	1		
Light colour	White	e <sup>5</sup>	r 19
Required components:			
Protective pla			
i iotective pla	ite, glass		
		70	5° 15° 0°
SEOUL			
SEOUL SEMICONDUCTOR		<u>30*</u>	
LED	Z5M5	767	
FWHM / FWTM	Asymmetric		
Efficiency	92 %	90	v ///
Peak intensity	3 cd/lm		
LEDs/each optic	1		<b>1630</b>
Light colour	White	9°	× / /
Required components:			X
Protective pla	te. glass		207
	, , ,		$\times$ / $\vee$
		24	e 15° 380
SEOUL			36
	75145	20	$\land$
	Z5M5	75	
FWHM / FWTM	Asymmetric		× / /
Efficiency	97 %	εφ <sup>*</sup>	v × ///
Peak intensity	3.2 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			0005
		<sup>yd</sup>	0 <u>3200</u> 15° 0°



## PRODUCT DATASHEET C17413\_SPORT-2X2-S4

#### **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.

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