

# PRODUCT DATASHEET C17413\_SPORT-2X2-S4

# SPORT-2X2-S4

Slightly asymmetric ~40° s ninimum spill light	spot beam with			
SPECIFICATION:			8	
Dimensions	50.0 x 50.0 mm			
Height	14.4 mm			
Fastening	screw			
MATERIALS:		LEDiĽ		
Component	Туре	Material	Colour	Finis
SPORT-2X2-S4	Multi-lens	PMMA	clear	
ORDERING INFORMATION:				
Component		Qty in box	MOQ MPQ	Box weight

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

476

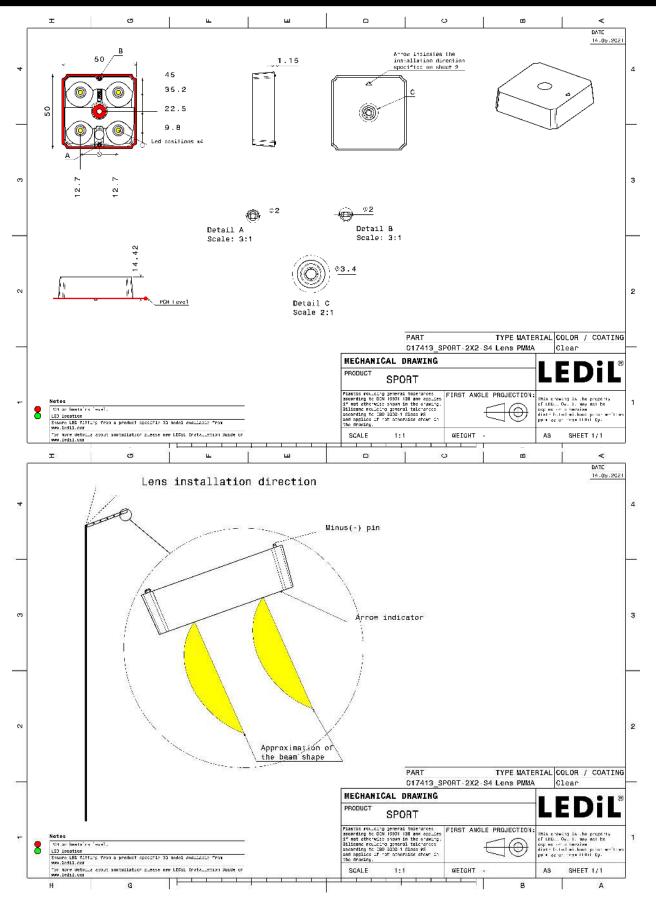
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28

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):**

			10 M
LED	XP-G4		
FWHM / FWTM	Asymmetric		# ~ _ ~ _ ~ _ ~ ~ _ ~ ~ _ ~ ~ _ ~
Efficiency	97 %		
Peak intensity	4.1 cd/lm		$ \times / / $ $ \times$ $ 1$
LEDs/each optic	1		
Light colour	White		e /////
Required componer	its:		
<b>ØNICHIA</b>			
LED	NV4WB35AM		
FWHM / FWTM	Asymmetric		#
Efficiency	88 %		
Peak intensity	3.1 cd/lm		
LEDs/each optic	1	and the second	
Light colour	White		
Required componer			$  \times N / X  $
Protective	plate, glass		XALX
<b>ØNICHIA</b>			K.
LED	NV4WB35AM		
FWHM / FWTM	Asymmetric		
Efficiency	96 %		
Peak intensity	3.4 cd/lm	and the second	
LEDs/each optic	1		
Light colour	White		
Required componer	ıts:		
	2		
diceb			
LED	PassivePAQ-R-274x51-NI0-21K-857-5		m A A A
FWHM / FWTM	Asymmetric		
Efficiency	97 %		er X /
Peak intensity	3.3 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required componer	its:		XXX



LED	J Series 5050 Round LES	
FWHM / FWTM	Asymmetric	H. A A
Efficiency	97 %	
Peak intensity	2.8 cd/lm	
LEDs/each optic	1	
Light colour	u White	
Required components:	Wille	$\sim$
Required components.		$\times$ $($ $) \times$
LED	J Series 5050 Round LES	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	
Light colour	White	of Alexandread and
Required components:		
		$\sim \sqrt{1}$
Protective plat	e, glass	
		8.V
LED	XHP35.2 HD	
FWHM / FWTM	Asymmetric	35
Efficiency	88 %	
Peak intensity	1.7 cd/lm	(
LEDs/each optic	1	
Light colour	White	er 🖉 🖉
Required components:		
Protective plat	e, glass	
LED	XHP35.2 HD	n A A A
FWHM / FWTM	Asymmetric	
Efficiency	96 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	the second s
Required components:		
		34



		c.*
LED	XHP35.2 HI	n
FWHM / FWTM	Asymmetric	
Efficiency	96 %	FT W
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	X /  /    A    X
Light colour	White	•
Required components:		
		6."
LED	XHP35.2 HI	
FWHM / FWTM	Asymmetric	
Efficiency	88 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		Man /
Protective plate	e, glass	
		8°
LED	XM-L3	
FWHM / FWTM	Asymmetric	
Efficiency	96 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		1 V At 1
LED	XM-L3	
FWHM / FWTM	Asymmetric	27 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1
Efficiency	89 %	
Peak intensity	2.1 cd/lm	57 <b>1</b>
LEDs/each optic	1	
Light colour	White	
Light colour Required components:	White	
		5" AF
Required components:		



	XP-G2 HE	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	5° / w
Peak intensity	4.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		*
LED	XP-G3	
FWHM / FWTM	Asymmetric	
Efficiency	91 %	52 100
Peak intensity	2.8 cd/lm	
LEDs/each optic	1	X / A   X
Light colour	White	
Required components:		1 And 1
Protective plate	e, glass	
		۰. ۲۰
LED	XP-L HD	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
Desta stires elett		
Protective plate	e, glass	
		a.v
LED	XP-L HD	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	$ \times ///$
Light colour	White	
Required components:		
		3° - 10'



LED	XP-L HI	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	3.6 cd/lm	
LEDs/each optic	1	
Light colour	White	er Alena -
Required components:		
Protective plate	e, glass	
		e
LED	XP-L HI	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	er / /
Peak intensity	3.8 cd/lm	$\sim \times / / $
LEDs/each optic	1	
Light colour	White	
Required components:		
LED	XP-L2	
FWHM / FWTM	Asymmetric	
Efficiency	96 %	
Peak intensity	2.3 cd/lm	· / / · · · · ·
LEDs/each optic	1	
Light colour	White	
Required components:		
		And
LED	XP-L2	* A A A
FWHM / FWTM	Asymmetric	
Efficiency	88 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
Protective plate		
Frotective plate	z, ylass	



<b>COLUMILEI</b>	DS	6.7 A
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	<b>F</b>
Peak intensity	4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
Protective plat	e, glass	
	DS .	£
LED	LUXEON 5050 HE	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	e"
Peak intensity	2.7 cd/lm	$\sim ///$
LEDs/each optic	1	
Light colour	White	9 <sup>2</sup>
Required components:		
		1 To at a
	)5	
LED	LUXEON 5050 HE	
FWHM / FWTM	Asymmetric	
Efficiency	89 %	
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	- $        -$
Light colour	White	
Required components:		
Required components:		
Required components: Protective plat	e, glass	
	e, glass	
Protective plat		
Protective plat		
Protective plat	DS	
Protective plat	DS LUXEON 5050 Round LES	
Protective plat	DS LUXEON 5050 Round LES Asymmetric	
Protective plat	DS LUXEON 5050 Round LES Asymmetric 92 %	
Protective plat	LUXEON 5050 Round LES Asymmetric 92 % 2.7 cd/lm	
Protective plat	LUXEON 5050 Round LES Asymmetric 92 % 2.7 cd/lm 1	
Protective plat	DS LUXEON 5050 Round LES Asymmetric 92 % 2.7 cd/lm 1 White	
Protective plat	DS LUXEON 5050 Round LES Asymmetric 92 % 2.7 cd/lm 1 White	



	DS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 97 % 2.8 cd/lm 1 White	
Required components:		
C LUMILE	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	91 <sup>-</sup> 91 <sup>-</sup> 9
Protective pla	e, glass	
	DS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 Asymmetric 96 % 1.7 cd/lm 1 White	
CONTRACTOR OF CO	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 97 % 2.8 cd/lm 1 White	



LUMILE	)S	6. A
LED FWHM / FWTM	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric	n
Efficiency	89 %	
Peak intensity	2.5 cd/lm	The second secon
LEDs/each optic	1	
Light colour	White	
Required components:		
Protective plate	e, glass	
	JS	
LED	SST-70X-WCS	
FWHM / FWTM	Asymmetric	
Efficiency	89 %	
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
Protective plate	e, glass	
		10
	JS	
LED	SST-70X-WCS	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	
Peak intensity	2.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		1
<b>WNICHIA</b>		£."
	NVSW219F	
LED	NVSW219F Asymmetric	
LED FWHM / FWTM		
LED FWHM / FWTM Efficiency	Asymmetric	95 95 97 98
<b>NICHIA</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 %	5.°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 3.1 cd/lm	5.7 75 74 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 3.1 cd/lm 1	5. 77. 79. 79. 79. 79. 79. 79. 79. 79. 79
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 3.1 cd/lm 1 White	5. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.



<b>ØNICHIA</b>			
		6.7	1.00
LED	NVSW3x9A		
FWHM / FWTM	Asymmetric	25-	
Efficiency	91 %		
Peak intensity	2.7 cd/lm	r	
LEDs/each optic	1		
Light colour	White	9	
Required components:	VIIIto		The m
Protective plat	e, glass		
		¢	
<b>ØNICHI</b> Λ			1 1000
LED	NVSxE21A		
FWHM / FWTM	Asymmetric	25-	
Efficiency	89 %		
Peak intensity	4.1 cd/lm	57	
LEDs/each optic	1		$\times / /$
Light colour	White	e.	
Required components:			
Dests stilles a lat			MI
Protective plat	e, glass		
		¢.	
OSRAM Opto Semiconductors		2.5	A
LED	Duris S8	19	
FWHM / FWTM	Asymmetric	35.	
Efficiency	92 %		$\times$ $/ \eta \sim *$
Peak intensity	2.6 cd/lm		
LEDa/aaab aatia	1		
	1		
Light colour	White		
Light colour			
Light colour Required components:	White		
Light colour	White		
Light colour Required components:	White		
Light colour Required components: Protective plat	White		$\land$
Light colour Required components: Protective plat	White		
Light colour Required components: Protective plat OSRAM Opto Semiconductors LED	White e, glass	2	
Light colour Required components: Protective plat OSRAM Opto Semiconductors LED FWHM / FWTM	White e, glass Duris S8	2	
Light colour Required components: Protective plat OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	White e, glass Duris S8 Asymmetric	2 	
Light colour Required components: Protective plat OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	White e, glass Duris S8 Asymmetric 97 %	2 	
LEDs/each optic Light colour Required components: Protective plat Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White e, glass Duris S8 Asymmetric 97 % 2.8 cd/lm	2 	
Light colour Required components: Protective plat OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White e, glass Duris S8 Asymmetric 97 % 2.8 cd/lm 1	2 	
Light colour Required components: Protective plat Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White e, glass Duris S8 Asymmetric 97 % 2.8 cd/lm 1	2 	
Light colour Required components: Protective plat Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White e, glass Duris S8 Asymmetric 97 % 2.8 cd/lm 1	2 	
Light colour Required components: Protective plat Protective plat OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White e, glass Duris S8 Asymmetric 97 % 2.8 cd/lm 1	2	



OSRAM Opto Semiconductors		
LED	OSCONIQ C 2424	
FWHM / FWTM	Asymmetric	# #
Efficiency	97 %	
Peak intensity	2.9 cd/lm	•** //////////w/
LEDs/each optic	4	
Light colour	4 White	45°
Required components:	Wilde	N / N / N / N / N / N / N / N / N / N /
Required components.		$\times$ $($ $\times$ $) \times$ $($
		/
OSRAM Opto Semiconductors		62 W
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	Asymmetric	n: A A A A A A A A A A A A A A A A A A A
Efficiency	92 %	
Peak intensity	2.8 cd/lm	
LEDs/each optic	1	$\times / / \times \times$
Light colour	White	
Required components:		
riequired compension		
Protective plate	e, glass	
OSRAM Opto Semiconductors		6.7
LED	OSCONIQ P 3737 Flat	
FWHM / FWTM	Asymmetric	at the second se
Efficiency	97 %	500 W
Peak intensity	3.6 cd/lm	$ \times / / $
LEDs/each optic	1	
Light colour	White	
Required components:		$\rightarrow \mu \rightarrow \chi$
OSRAM		
Opto Semiconductors		** **
LED	OSCONIQ S 5050	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	er / / / we
Peak intensity	2.8 cd/lm	$\times / / \wedge \times 1$
LEDs/each optic	1	
Light colour	White	
Required components:		
		X/Y



OSRAM		1.7 × ***
Opto Semiconductors LED	OSCONIQ S 5050	
FWHM / FWTM	Asymmetric	n:
Efficiency	89 %	
Peak intensity	2.6 cd/lm	57 / X6*
LEDs/each optic	1	$\times / / \wedge \times$
Light colour	White	
Required components:		
Protective plate	e, glass	
OCDAM		
OSRAM Opto Semiconductors		A
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	
Efficiency	91 %	
Peak intensity	3.7 cd/lm	X / X
LEDs/each optic	1	
Light colour	White	
Required components:		$\times$ $\vee$ $\times$ $\vee$ $\times$
Protective plate	e, glass	
OSRAM Opto Semiconductors		ст ж <sup>.</sup>
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	31
Efficiency	96 %	
Peak intensity	4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		X X X X
CARACIIR		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SVWSNN		×.
LED	LH351B	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	er / w
Peak intensity	3.1 cd/lm	$\sim$
LEDs/each optic	1	
Light colour	White	ar have a second
Required components:		
Protective plat		
Frotective plat	c, yiass	
		15 0 10



SAMSU	VG
LED	LH351C
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	· · · · · ·
Protective plat	e, glass
SAMSU	N G
LED	LH351D
ED FWHM / FWTM	
Efficiency	Asymmetric 91 %
Peak intensity	91 % 2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Protective plat	e, glass
SAMSU	NG
	LH351D
LED FWHM / FWTM	LH351D Asymmetric
LED FWHM / FWTM Efficiency	LH351D Asymmetric 96 %
LED FWHM / FWTM Efficiency Peak intensity	LH351D Asymmetric 96 % 2.3 cd/lm
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 96 % 2.3 cd/lm 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 96 % 2.3 cd/lm
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 96 % 2.3 cd/lm 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 96 % 2.3 cd/lm 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 96 % 2.3 cd/lm 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 96 % 2.3 cd/lm 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351D Asymmetric 96 % 2.3 cd/lm 1 White
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351D Asymmetric 96 % 2.3 cd/lm 1 White
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351D Asymmetric 96 % 2.3 cd/lm 1 White
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUT</b> LED FWHM / FWTM	LH351D Asymmetric 96 % 2.3 cd/lm 1 White
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUT</b> LED FWHM / FWTM Efficiency	LH351D Asymmetric 96 % 2.3 cd/lm 1 White Vhite LH502C Asymmetric
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUT</b> LED FWHM / FWTM Efficiency Peak intensity	LH351D Asymmetric 96 % 2.3 cd/lm 1 White Vhite LH502C Asymmetric 97 %
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 96 % 2.3 cd/lm 1 White VIC LH502C Asymmetric 97 % 2.8 cd/lm
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANN SUT</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 96 % 2.3 cd/lm 1 White VIC LH502C Asymmetric 97 % 2.8 cd/lm 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUS</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 96 % 2.3 cd/lm 1 White VIC LH502C Asymmetric 97 % 2.8 cd/lm 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMS SUT</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 96 % 2.3 cd/lm 1 White VIC LH502C Asymmetric 97 % 2.8 cd/lm 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSSUS</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 96 % 2.3 cd/lm 1 White VIC LH502C Asymmetric 97 % 2.8 cd/lm 1



		• • • • • • • • • • • • • • • • • • •
	Asymmetric	
	90 %	
-	2.6 cd/lm	
	1	$\times / \mathbb{R} \to \times$
	, White	
Required components:		
Protective plate,	glass	
SECUL SEMICONDUCTOR		$\wedge$
	SEOUL DC 5050 6V	
	Asymmetric	
	97 %	
-	2.8 cd/lm 1	
	ı White	
Light colour Required components:	White	$\mathbb{N} \times \mathbb{N} / \mathbb{N} \times \mathbb{N}$
Required components:		$X \wedge D \wedge X$
	SEOUL DC 5050 6V	
	Asymmetric	
	02 %	
,	2.6 cd/lm	
LEUS/each optic		
Light colour	White	er late
		5
Light colour	White	5°
Light colour N Required components:	White	
Light colour Required components: Protective plate,	White	
Light colour Required components:	White	
Light colour Required components: Protective plate,	White	
Light colour Required components: Protective plate, stout semiconductor LED 2	White glass	
Light colour Required components: Protective plate, scoul semiconductor LED 2 FWHM / FWTM /	Z5M3	
Light colour Required components: Protective plate, Stous structure LED 2 FWHM / FWTM 2 Efficiency 9 Peak intensity 3	White glass Z5M3 Asymmetric	
Light colour Required components: Protective plate, Stous senconductor LED 2 FWHM / FWTM 2 Efficiency 9 Peak intensity 2 LEDs/each optic	White glass Z5M3 Asymmetric 91 %	
Light colour Required components: Protective plate, Stout semechanication LED 2 FWHM / FWTM 2 Efficiency 9 Peak intensity 2 LEDs/each optic 2 Light colour 9	White glass Z5M3 Asymmetric 91 % 3.1 cd/lm	
Light colour Required components: Protective plate, Stout semiconductor LED 2 FWHM / FWTM 2 Efficiency 9 Peak intensity 2 LEDs/each optic	White glass Z5M3 Asymmetric 91 % 3.1 cd/lm 1	
Light colour Required components: Protective plate, Protective plate, Construction LED 2 FWHM / FWTM 2 Efficiency 9 Peak intensity 2 LEDs/each optic 2 Light colour 2 Required components:	White glass Z5M3 Asymmetric 91 % 3.1 cd/lm 1 Mhite	
Light colour Required components: Protective plate, Stout semechanication LED 2 FWHM / FWTM 2 Efficiency 9 Peak intensity 2 LEDs/each optic 2 Light colour 9	White glass Z5M3 Asymmetric 91 % 3.1 cd/lm 1 Mhite	



ROL			
SECUL SEMICONDUCTOR			
LED	Z5M4		
FWHM / FWTM	Asymmetric		
Efficiency	93 %		r X / / - "
Peak intensity	3.2 cd/lm		$1 \times / /                                  $
LEDs/each optic	1		
Light colour	White		41"
Required components:			
Protective pla	te, glass		
SEOUL SEMICONDUCTOR			1.7
LED	Z5M5		$\Lambda$
FWHM / FWTM	Asymmetric		
Efficiency	97 %		
Peak intensity	3.2 cd/lm		$r \times / $
LEDs/each optic	1		
Light colour	White		•× /
Required components:			
			XXXX
			1.55 <sup>1</sup> 0
			1.7 A
LED	Z5M5		
FWHM / FWTM	Asymmetric		
Efficiency	92 %		
Peak intensity	3 cd/lm		$^{\circ} \times / $
LEDs/each optic	1		
Light colour	White		
Required components:			
			ANA
Protective pla	te, glass		
			165 <sup>°</sup> •••• •



#### **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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