

# PRODUCT DATASHEET C17414\_SPORT-2X2-S6

## SPORT-2X2-S6

Slightly asymmetric ~60° spot beam with minimum spill light

### **TECHNICAL SPECIFICATIONS:**

Dimensions	50.0 x 50.0 mm
Height	15.5 mm
Fastening	screw
ROHS compliant	yes 🛈



### **MATERIAL SPECIFICATIONS:**

ComponentTypeMaterialColourFinishSPORT-2X2-S6Multi-lensPMMAclear

### **ORDERING INFORMATION:**

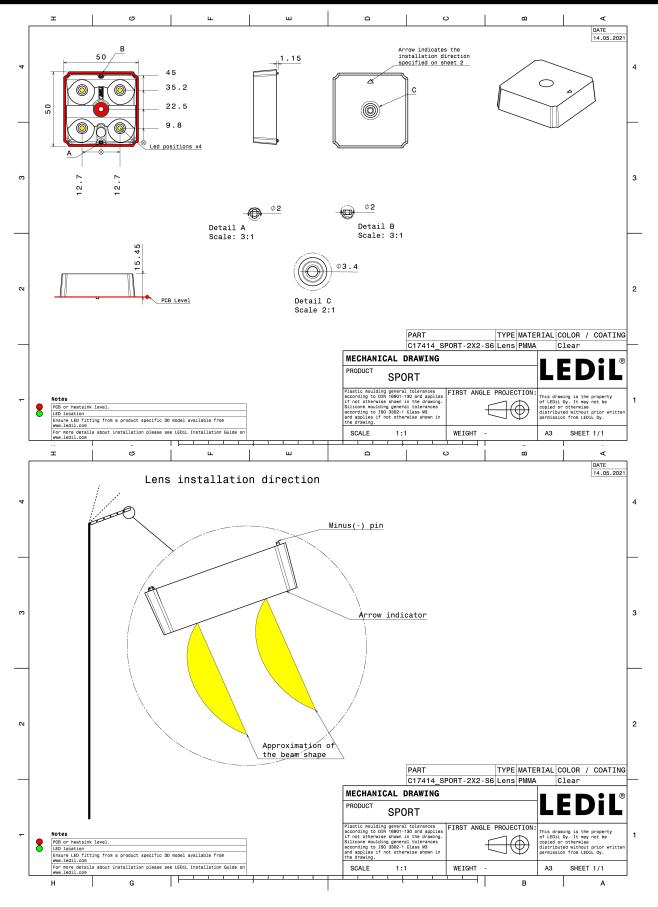
### Component C17414\_SPORT-2X2-S6

Qty in box	MOQ	MPQ	Box weight (kg)
476	140	28	11.4

C17414\_SPORT-2X2-S6 » Box size: 480 x 280 x 300 mm



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



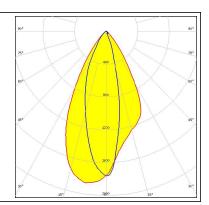
### **PHOTOMETRIC DATA (MEASURED):**

LED

FWHM / FWTMAsEfficiency97Peak intensity1.4LEDs/each optic1

Light colour Wh Required components:

PassivePAQ-R-274x51-NI0-21K-857-5 Asymmetric 97 % 1.9 cd/lm 1 White nts:





		00 <sup>+</sup>
LED	J Series 5050 Round LES	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	60°
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required components:		
Protective plate	e, glass	
		36 <sup>6</sup>
		90 <sup>4</sup> 50 <sup>+</sup>
LED	J Series 5050 Round LES	25"
FWHM / FWTM	Asymmetric	
Efficiency	97 %	60°
Peak intensity	2.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		2439
		36+ 35- 64 55- 36+
		90 <sup>4</sup> 90 <sup>4</sup>
	XM-L3	50 <sup>4</sup> 50 <sup>5</sup>
		39 <sup>4</sup> 39 <sup>4</sup> 99 <sup>4</sup> 99 <sup>4</sup>
LED FWHM / FWTM	XM-L3 Asymmetric 86 %	
LED FWHM / FWTM Efficiency	Asymmetric	99 <sup>4</sup> 99 <sup>4</sup> 25 66 <sup>4</sup> 60 <sup>4</sup>
LED FWHM / FWTM	Asymmetric 86 %	99 <sup>4</sup> 99 <sup>4</sup> 99 <sup>4</sup> 99 <sup>4</sup> 99 <sup>4</sup> 99 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 86 % 1.2 cd/lm	91 <sup>4</sup> 91 <sup>4</sup> 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 1.2 cd/lm 1	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 1.2 cd/lm 1 White	73° - 73° -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 1.2 cd/lm 1 White	73° - 73° -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 1.2 cd/lm 1 White	73° - 73° -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 1.2 cd/lm 1 White	57 57 59 59 59 59 59 59 59 59 59 59 59 59 59
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 86 % 1.2 cd/lm 1 White a, glass	57 57 59 59 59 59 59 59 59 59 59 59 59 59 59
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 86 % 1.2 cd/lm 1 White e, glass XM-L3	57 57 59 59 59 59 59 59 59 59 59 59 59 59 59
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 86 % 1.2 cd/lm 1 White a, glass	57 57 59 59 59 59 59 59 59 59 59 59 59 59 59
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 86 % 1.2 cd/lm 1 White e, glass XM-L3 Asymmetric	57 57 59 59 59 59 59 59 59 59 59 59 59 59 59
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 86 % 1.2 cd/lm 1 White e, glass XM-L3 Asymmetric 94 %	57 57 59 59 59 59 59 59 59 59 59 59 59 59 59
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 1.2 cd/lm 1 White e, glass XM-L3 Asymmetric 94 % 1.3 cd/lm	61 61 13 13 13 13 13 13 13 13 13 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate	Asymmetric 86 % 1.2 cd/lm 1 White e, glass XM-L3 Asymmetric 94 % 1.3 cd/lm 1	60 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 1.2 cd/lm 1 White e, glass XM-L3 Asymmetric 94 % 1.3 cd/lm 1	60 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 1.2 cd/lm 1 White e, glass XM-L3 Asymmetric 94 % 1.3 cd/lm 1	60 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 1.2 cd/lm 1 White e, glass XM-L3 Asymmetric 94 % 1.3 cd/lm 1	60 90 90 90 90 90 90 90 90 90 9



XP-G3   / FWTM   Asymmetric   zy   88 %   ensity   1.3 cd/lm   ach optic   1   lour   White   d components:    Protective plate, glass    Image: Second
XP-G3       YFWTM     Asymmetric       xy     88 %       ensity     1.3 cd/lm       ach optic     1       lour     White       d components:       Protective plate; glass       Image: Specific plate; glass
r FWTM     Asymmetric       cy     88 %       ensity     1.3 cd/lm       ach optic     1       lour     White       d components:   Protective plate, glass       Protective plate, glass         XP-L2       / FWTM       Asymmetric       cy       86 %
y 88% ensity 1.3 cd/lm ach optic 1 lour White d components: Protective plate, glass XP-L2 / FWTM Asymmetric sy 86%
ensity 1.3 cd/lm ach optic 1 lour White d components: Protective plate, glass XP-L2 / FWTM Asymmetric sy 86 %
ach optic 1 lour White d components: Protective plate, glass XP-L2 / FWTM Asymmetric sy 86 %
lour White d components: Protective plate, glass
d components: Protective plate, glass
Protective plate, glass
XP-L2 /FWTM Asymmetric xy 86 %
XP-L2 YFWTM Asymmetric xy 86 %
XP-L2 YFWTM Asymmetric xy 86 %
XP-L2 YFWTM Asymmetric xy 86 %
V FWTM Asymmetric
cy 86 %
60-
ach optic 1 Iour White
d components:
J components:
Protective plate, glass
30° 337
XP-L2
/ FWTM Asymmetric
cy 93 %
ensity 1.2 cd/lm
ach optic 1
lour White
d components:
30 <sup>5</sup> 
XP-P
/ FWTM Asymmetric
y 88 %
ensity 1.7 cd/lm
ach optic 1
lour White
d components:
d components:
d components: Protective plate, glass



	XP-P	30 <sup>+</sup> 30 <sup>+</sup>
FWHM / FWTM	Asymmetric	75
Efficiency	95 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	gr (
Required components:		34 X2
	DS	257 <u>366</u> 257 55*
LED	LUXEON 5050 HE	
FWHM / FWTM	Asymmetric	75'
Efficiency	87 %	
Peak intensity	1.5 cd/lm	60* × × × × × × × × × × × × × × × × × × ×
LEDs/each optic	1	
Light colour	White	45. 42.
Required components:		
Protective plat	e, glass	
	DS	90* 90* 90*
LED	LUXEON 5050 HE	75*
FWHM / FWTM	Asymmetric	- 400
Efficiency	95 %	50°
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	gr
Required components:		229 34 <sup>4</sup> 22 <sup>5</sup> 0 <sup>4</sup> 23 <sup>4</sup>
	05	90 <sup>+</sup>
LED	LUXEON 5050 Round LES	75*
FWHM / FWTM	Asymmetric	400
Efficiency	92 %	60°
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	a. e.
Required components:		1200
Protective plat	e, glass	34 100 34
		15° 0° 15°



UMILE	DS	90* 99
LED FWHM / FWTM Efficiency	LUXEON 5050 Square LES Asymmetric 92 %	75
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	527
Required components		1200
Protective pla	te, glass	2 <sup>40</sup> 1500 2
	DS	30 <sup>5</sup> 0 <sup>4</sup> 32 <sup>5</sup>
LED	LUXEON 5050 Square LES	
FWHM / FWTM	Asymmetric	757
Efficiency	95 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	5
Required components		1220
		300 200 3
	DS	25° 0° 25'
LED	LUXEON 7070	
FWHM / FWTM	Asymmetric	
Efficiency	93 %	400
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	27
Required components		
	ns	205 <sup>°</sup> 0 <sup>4</sup> 10 <sup>5</sup>
LED	LUXEON HL2X	
FWHM / FWTM	LUXEON HLZX Asymmetric	37
Efficiency	88 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	9° 800
Required components		
Protective pla	te, glass	



<b>ΜΝΙCΗΙΛ</b>		50° 50°
LED	NV4WB35AM	
FWHM / FWTM	Asymmetric	75' 75'
Efficiency	92 %	- 400
Peak intensity	1.6 cd/lm	60°
LEDs/each optic	1	
Light colour	White	gr* dr*
Required components:		1220
Protective plate	e, glass	
		36° 36° 36°
<b>MNICHIA</b>		1609 1139
LED	NVSW219F	1499
FWHM / FWTM	Asymmetric	1200 -
Efficiency	91 %	
Peak intensity	1.6 cd/lm	1000
LEDs/each optic	1	B30
Light colour	White	799
Required components:		500
		439
Protective plate	e, glass	200 -
		100 
OCDAM		-138'6, -113'8, -88'6, -86'8, -88'9, -55'8, 9'6, 55'8, 48'4, 85'8, 89'6, 113'8, 138'6,
OSRAM		90* 90*
Opto Semiconductors	Durie S8	50° 50°
Opto Semiconductors	Duris S8 Asymmetric	5°
<sup>Opto Semiconductors</sup> LED FWHM / FWTM	Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 92 %	79
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 1.6 cd/lm	79
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.6 cd/lm 1	79
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.6 cd/lm	79
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.6 cd/lm 1	79
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.6 cd/lm 1 White	79
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.6 cd/lm 1 White	30. 100 94. 22. 1530 64. 65. 23. 40. 23. 25.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 92 % 1.6 cd/lm 1 White	25 60 60 60 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: Protective plate	Asymmetric 92 % 1.6 cd/lm 1 White	20. 100 X. 22. 153 61. 60. 152 23. 25.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSCRAM Opto Semiconductors LED	Asymmetric 92 % 1.6 cd/lm 1 White 9, glass OSCONIQ P 3737 (3W version)	20. 100 X. 22. 153 61. 60. 152 23. 25.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 92 % 1.6 cd/lm 1 White 9, glass OSCONIQ P 3737 (3W version) Asymmetric	25 60 60 150 150 150 150 150 150 150 15
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 92 % 1.6 cd/lm 1 White e, glass OSCONIQ P 3737 (3W version) Asymmetric 91 %	25 60 60 150 150 150 150 150 150 150 15
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	Asymmetric 92 % 1.6 cd/lm 1 White e, glass OSCONIQ P 3737 (3W version) Asymmetric 91 % 1.6 cd/lm	25 60 60 150 150 150 150 150 150 150 15
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	Asymmetric 92 % 1.6 cd/lm 1 White p, glass OSCONIQ P 3737 (3W version) Asymmetric 91 % 1.6 cd/lm 1	25 60 60 150 150 150 150 150 150 150 15
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 92 % 1.6 cd/lm 1 White e, glass OSCONIQ P 3737 (3W version) Asymmetric 91 % 1.6 cd/lm	
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 Required components:	Asymmetric 92 % 1.6 cd/lm 1 White Asymmetric 91 % 1.6 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 92 % 1.6 cd/lm 1 White Asymmetric 91 % 1.6 cd/lm 1 White	61 61 61 61 61 61 61 61 61 61



OSRAM		90° 90°
Opto Semiconductors	OSCONIQ P 3737 Flat	
FWHM / FWTM	Asymmetric	25*
Efficiency	97 %	
Peak intensity	2 cd/lm	60° - 60°
LEDs/each optic	1	
Light colour	White	97 200
Required components:		$\left[ \times \mathbf{h} \right] \wedge \times \left[ \right]$
		1630
		Tare and the second sec
		15° 0° 15°
OSRAM Opto Semiconductors		1740 -
LED	OSCONIQ S 5050	
FWHM / FWTM	Asymmetric	1299
Efficiency	88 %	1200 -
Peak intensity	1.6 cd/im	1000
LEDs/each optic	1	500
Light colour	White	710
Required components:		500
Protective plate	e, glass	239
		100 -106.0° -106.0° -06.0° -06.0° -06.0° -06.0° -06.0° -06.0° -06.0° -06.0° -06.0° -06.0° -06.0° -06.0° -06.0° -06.0°
OSRAM		1000 T
OSRAM Opto Semiconductors		
Opto Semiconductors	OSCONIQ S 5050	
Opto Semiconductors LED FWHM / FWTM	Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 95 %	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 1.7 cd/lm	1007 - 1009 - 1099 -
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 1.7 cd/lm 1	1007 - 1009 - 1099 -
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 1.7 cd/lm	1007 - 1009 - 1099 -
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 1.7 cd/lm 1	100
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 1.7 cd/lm 1	100
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 1.7 cd/lm 1	100
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 1.7 cd/lm 1	1997
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 1.7 cd/lm 1	1997 1999 1999 1999 1999 1999 1999 1999
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components:	Asymmetric 95 % 1.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	Asymmetric 95 % 1.7 cd/lm 1 White OSLON Square CSSRM2/CSSRM3	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	Asymmetric 95 % 1.7 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 95 % 1.7 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 91 %	
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 95 % 1.7 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 1.7 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 91 % 1.9 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 95 % 1.7 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 91 % 1.9 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 1.7 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 91 % 1.9 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 95 % 1.7 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 91 % 1.9 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 1.7 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 91 % 1.9 cd/lm 1 White	



r		
OSRAM Opto Semiconductors		90° 90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75'
Efficiency	96 %	
Peak intensity	2 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	
Required components:		
		1600
		200 - 25°
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square Flat	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	60° 00°
Peak intensity	2.2 cd/lm	$\left[ \left( \right) \right] $
LEDs/each optic	1	
Light colour	White	az. az.
Required components:		1690
		36* 36*
l .		
	10	15° 360 15°
SAMSUN	IG	
SAMSUN LED	LH351B	99 <sup>4</sup> 99 <sup>7</sup>
		99 <sup>4</sup> 99 <sup>5</sup>
LED	LH351B	99 <sup>4</sup> 99 <sup>5</sup>
LED FWHM / FWTM	LH351B Asymmetric	99 <sup>4</sup> 99 <sup>5</sup>
LED FWHM / FWTM Efficiency	LH351B Asymmetric 91 %	99 <sup>4</sup> 99 <sup>5</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 91 % 1.5 cd/m	99 <sup>4</sup> 99 <sup>5</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 91 % 1.5 cd/m 1	99 <sup>4</sup> 99 <sup>5</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B Asymmetric 91 % 1.5 cd/lm 1 White	99 <sup>4</sup> 99 <sup>5</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 91 % 1.5 cd/lm 1 White	99 <sup>4</sup> 99 <sup>5</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B Asymmetric 91 % 1.5 cd/lm 1 White	99 <sup>4</sup> 99 <sup>5</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LH351B Asymmetric 91 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LH351B Asymmetric 91 % 1.5 cd/lm 1 White a, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LH351B Asymmetric 91 % 1.5 cd/lm 1 White , glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM	LH351B Asymmetric 91 % 1.5 cd/m 1 White 9, glass C LH351C Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANNSUN LED FWHM / FWTM Efficiency	LH351B Asymmetric 91 % 1.5 cd/m 1 White e, glass LH351C Asymmetric 92 %	94         95           95         100           96         96           96         96           96         96           96         96           96         96           96         96           96         96           97         100           98         96           98         96
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity	LH351B Asymmetric 91 % 1.5 cd/m 1 White e, glass LH351C Asymmetric 92 % 1.5 cd/m	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 91 % 1.5 cd/m 1 White e, glass LH351C Asymmetric 92 % 1.5 cd/m 1	10     10       10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 91 % 1.5 cd/m 1 White e, glass LH351C Asymmetric 92 % 1.5 cd/m	10     10       10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 91 % 1.5 cd/m 1 White e, glass LH351C Asymmetric 92 % 1.5 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 91 % 1.5 cd/m 1 White e, glass LH351C Asymmetric 92 % 1.5 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B Asymmetric 91 % 1.5 cd/m 1 White e, glass LH351C Asymmetric 92 % 1.5 cd/m 1 White	



SAMSUN	IG	90°
LED	LH351D	
FWHM / FWTM	Asymmetric	75'
Efficiency	93 %	
-	93 % 1.2 cd/lm	601
Peak intensity		
LEDs/each optic	1	
Light colour	White	2
Required components:		
		30° 15° 0° 15°
SAMSUN	IG	90°
		30-
LED	LH351D	75
FWHM / FWTM	Asymmetric	
Efficiency	91 %	60*
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	~ _ <u>**</u>
Required components:		
Protective plate	e, glass	
		30° 12° 0° 12°
SAMSUN	10	
3/1VI 3 U I		90*
		<u>30*</u>
LED	LH502C	
LED FWHM / FWTM	LH502C Asymmetric	
LED FWHM / FWTM Efficiency	LH502C Asymmetric 88 %	
LED FWHM / FWTM Efficiency Peak intensity	LH502C Asymmetric 88 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH502C Asymmetric 88 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C Asymmetric 88 % 1.6 cd/lm	<u>77</u> 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH502C Asymmetric 88 % 1.6 cd/lm 1	<u>77</u> 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C Asymmetric 88 % 1.6 cd/lm 1 White	<u>77</u> 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH502C Asymmetric 88 % 1.6 cd/lm 1 White	<u>77</u> 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LH502C Asymmetric 88 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH502C Asymmetric 88 % 1.6 cd/lm 1 White	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LH502C Asymmetric 88 % 1.6 cd/lm 1 White	9° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LH502C Asymmetric 88 % 1.6 cd/lm 1 White e, glass	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM	LH502C Asymmetric 88 % 1.6 cd/lm 1 White e, glass	51 51 51 52 52 52 52 52 52 52 52 52 52
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LH502C Asymmetric 88 % 1.6 cd/lm 1 White e, glass	9° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency	LH502C Asymmetric 88 % 1.6 cd/lm 1 White e, glass LH502C Asymmetric 95 %	51 51 51 52 52 52 52 52 52 52 52 52 52
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity	LH502C Asymmetric 88 % 1.6 cd/lm 1 White e, glass LH502C Asymmetric 95 % 1.7 cd/lm	51 51 51 52 52 52 52 52 52 52 52 52 52
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH502C Asymmetric 88 % 1.6 cd/lm 1 White e, glass LH502C Asymmetric 95 % 1.7 cd/lm 1	9° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C Asymmetric 88 % 1.6 cd/lm 1 White e, glass LH502C Asymmetric 95 % 1.7 cd/lm 1	51 51 51 52 52 52 52 52 52 52 52 52 52
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C Asymmetric 88 % 1.6 cd/lm 1 White e, glass LH502C Asymmetric 95 % 1.7 cd/lm 1	9° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C Asymmetric 88 % 1.6 cd/lm 1 White e, glass LH502C Asymmetric 95 % 1.7 cd/lm 1	9° 9° 9° 100 100 100 100 100 100 100 10



SEOUL SEMICONDUCTOR		99*
LED	SEOUL DC 5050 6V	75
FWHM / FWTM	Asymmetric	29
Efficiency	95 %	605
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	25×
Required component	S:	1290
		30*
		15° 0°
		A line
LED	Z5M3	100
FWHM / FWTM	Asymmetric	109
Efficiency	91 %	1100 - Internet in the second se
Peak intensity	1.7 cd/lm	100 -
LEDs/each optic	1	
Light colour	White	•••
Required component	5:	•••
		•••
Protective p	ate, glass	300
		-118.0" -112.6" -69.0" -67.6" -46.0" -22.6" 0.0"



### **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.

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#### LEDiL Oy

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