

# PRODUCT DATASHEET C16181\_STRADA-2X2-ME-N

# STRADA-2X2-ME-N

Beam designed for high poles and fulfilling EN13201 M-class requirements where road width is less than the pole height

## **TECHNICAL SPECIFICATIONS:**

Dimensions Height Fastening ROHS compliant 50.0 x 50.0 mm 9.7 mm pin, screw yes (i)



### MATERIAL SPECIFICATIONS:

Component STRADA-2X2-ME-N

Туре
Multi-lens

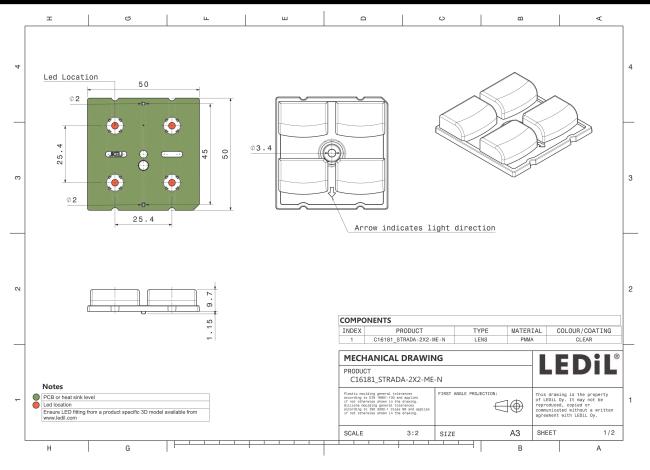
	Material	Colour	Finish
6	PMMA	clear	

### **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16181_STRADA-2X2-ME-N	800	160	160	10.0
» Box size: 476 x 273 x 292 mm				



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



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

LED   QUICK FLUX XTP 2x4 xxx LS G5     FWHM / FWTM   Asymmetric     Efficiency   94 %     Peak intensity   0.8 cd/lm     LEDs/each optic   1     Light colour   White     Required components:   Image: Component State Stat	9)* 52 69* 53* 53* 53*
LED QUICK FLUX XTP 2x6 xxx LS G5   FWHM / FWTM Asymmetric   Efficiency 94 %   Peak intensity 0.7 cd/lm	-10 <sup>4</sup> - 30 <sup>4</sup>
LED QUICK FLUX XTP 2x6 xxx LS G5   FWHM / FWTM Asymmetric   Efficiency 94 %   Peak intensity 0.7 cd/lm	90*
FWHM / FWTM Asymmetric   Efficiency 94 %   Peak intensity 0.7 cd/lm	2 75
Efficiency 94 % Peak intensity 0.7 cd/lm	
	X
LEDs/each optic 1	60*
Light colour White	65*
Required components:	X
50* 1000 15* 0*	15° 30*
	90*
LED XP-G2	
FWHM / FWTM Asymmetric	735
Efficiency 94 %	6.
Peak intensity 0.8 cd/lm	
LEDs/each optic 1 Light colour White	$\sum$
Required components:	
50° 150 1600	19° 30°
LED XP-G3	90
FWHM / FWTM Asymmetric	75'
Efficiency 94 %	
Peak intensity 0.7 cd/lm	
LEDs/each optic 1	
Light colour White required components:	45,
30,* 15' 100	



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

		XY YX
MST Your solut	ions	90* 90
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	200 200 200
Efficiency	96 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	15° 660 45
Required compone	nts:	
		$\times$ / $\top$ / $\times$
		30° 30
OSRAM		15 1800 15.
Opto Semiconductors		90* 90
LED	Duris S8	7
FWHM / FWTM	Asymmetric	752 75
Efficiency	95 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	451 43
Required compone	nts:	600
		80
		30° 15° 0° 15° 30
OSRAM		90° 900
Opto Semiconductors	OSLON Square PC	9° 99
Opto Semiconductors	OSLON Square PC Asymmetric	50° 50 70° 70° 70° 70° 70° 70° 70° 70° 70° 70°
Opto Semiconductors LED FWHM / FWTM	OSLON Square PC Asymmetric 94 %	50°
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 %	50° 50 72° 72 60° 200 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric	50° 50 75° 200 60
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 % 0.8 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1 White	59° 729 60° 60° 600 600
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.8 cd/lm 1 White nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.8 cd/lm 1 White nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.8 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G4+	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.8 cd/lm 1 White nts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.8 cd/lm 1 White nts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 96 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.8 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 96 % 0.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.8 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 96 % 0.7 cd/lm 1	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 96 % 0.7 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 96 % 0.7 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.8 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 96 % 0.7 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 96 % 0.7 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
pto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 96 % 0.7 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°



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

PHILII	DS	80
LED	Fortimo FastFlex LED 2x8 DA G5	*
FWHM / FWTM	Asymmetric	72 70
Efficiency	95 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ints:	
		600
		$\times$
		50° 300
de inde		12 <sup>6</sup> 0 <sup>4</sup> 12 <sup>4</sup>
Elektronik GmbH		»·
LED	LED-Pa-L15c2W11c2-xxx-C050-01	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	(5) (5)
Required compone	ints:	00
		30* 300
TRIDO		
LED	RLE 2x4 2000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1 White	
Light colour	VVnite	
Dequired component		
Required compone		
Required compone		
	nts:	84
TRIDO	nts: NIC	95*90
	IIC RLE 2x8 4000lm HP EXC2 OTD	2° 20
TRIDO	IIC RLE 2x8 4000lm HP EXC2 OTD Asymmetric	94 <sup>3</sup>
TRIDON LED FWHM / FWTM Efficiency	NIC RLE 2x8 4000Im HP EXC2 OTD Asymmetric 94 %	98* 293 68* 200 69 60 60
<b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity	IIC RLE 2x8 4000lm HP EXC2 OTD Asymmetric	
<b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	nts: NIC RLE 2x8 4000lm HP EXC2 OTD Asymmetric 94 % 0.9 cd/lm 1	
<b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: NIC RLE 2x8 4000lm HP EXC2 OTD Asymmetric 94 % 0.9 cd/lm 1 White	
<b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	nts: NIC RLE 2x8 4000lm HP EXC2 OTD Asymmetric 94 % 0.9 cd/lm 1 White	
<b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: NIC RLE 2x8 4000lm HP EXC2 OTD Asymmetric 94 % 0.9 cd/lm 1 White	
<b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: NIC RLE 2x8 4000lm HP EXC2 OTD Asymmetric 94 % 0.9 cd/lm 1 White	



LED	J Series 5050 Round LES	30*
FWHM / FWTM	Asymmetric	730
Efficiency	93 %	200
	95 % 0.6 cd/lm	
Peak intensity		
LEDs/each optic	1	
Light colour	White	45.4
Required components:		
		000
		$\times$ (T)
		30* 13*
LED	J Series 5050 Round LES	~ 7
FWHM / FWTM	Asymmetric	758
Efficiency	82 %	200
Peak intensity	0.5 cd/lm	504
LEDs/each optic	1	
Light colour	White	400
Required components:		
r toquiroù componenter		600
Protective plate	e, glass	
		30* 15 <sup>5</sup> % 15*
		90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	75*
Efficiency	86 %	200
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	400
Light colour	White	45*
Required components:		$\times$
		600
Protective plate	e, glass	X /   X
		800
		130* 15 <sup>5</sup> 0° 15*
		90*
LED	XP-L2	and the second s
FWHM / FWTM	Asymmetric	750
Efficiency	82 %	200
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		$\times$
Dectastica		600
Protective plate	e, glass	
		30*
		152 380 154



LED	XT-E	
FWHM / FWTM	Asymmetric	73° 75°
Efficiency	92 %	
Peak intensity	92 /o 0.7 cd/lm	50* 60*
LEDs/each optic	1	
Light colour	White	-65* 000 65*
Required components:		
		30* 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>*</sup> 30*
	5	
		90* 90*
LED	LUXEON 5050 Round LES	73°
FWHM / FWTM	Asymmetric	
Efficiency	87 %	604 604
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	400
Light colour	White	45*
Required components:		010
Protective plate	e, glass	$\times$ / $\setminus$ $\times$
		30* 15 <sup>5</sup> 0 <sup>6</sup> 15* 30*
	)S	
LED	LUXEON 5050 Round LES	90* 90* 7
FWHM / FWTM	Asymmetric	73° 75°
Efficiency	93 %	
	0.6 cd/lm	60° ( 60°
Peak intensity LEDs/each optic	1	400
Light colour	' White	
Required components:	Wilde	45* 45*
Required components.		
		200
		$\times$ / $\setminus$ $\times$
		30* 15 <sup>5</sup> 18 <sup>5</sup> <sub>20</sub> 15 <sup>4</sup> 30*
	)S	
LED	LUXEON 5050 Square LES	
FWHM / FWTM	Asymmetric	73°
Efficiency	82 %	200
		60 <sup>4</sup>
Peak intensity	0.5 cd/lm	6 <sup>14</sup> 6 <sup>14</sup>
Peak intensity LEDs/each optic	0.5 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.5 cd/lm	6° 60 6°
Peak intensity LEDs/each optic	0.5 cd/lm 1	60° (64°
Peak intensity LEDs/each optic Light colour	0.5 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.5 cd/lm 1 White	6° 67



MST Your solutions		90° 00°
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	~
FWHM / FWTM	Asymmetric	75°
Efficiency	86 %	200
Peak intensity	0.6 cd/lm	60%
LEDs/each optic	1	
Light colour	u White	
Required components:	White	
Required components.		640
Protective plate	e, glass	
		30* 300 30* 30*
<b>Μ</b> ΝΙCΗΙΛ		90°
LED	NV4WB35AM	7
FWHM / FWTM	Asymmetric	75° 200 75°
Efficiency	93 %	
Peak intensity	0.6 cd/lm	60° 60*
LEDs/each optic	1	$\perp \times / / \land \times$
Light colour	White	45* 45+
Required components:		000
		000
		30° 135 1890 15° 30°
MICHIΛ		30* 90*
LED	NVSW219F	
FWHM / FWTM	Asymmetric	75°
Efficiency	93 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		600
		$\times$ / $\setminus$ $\times$
		800
		30*
Maure		15 <sup>5</sup> 0 <sup>4</sup> 13 <sup>5</sup>
<b>ΜΝΙCΗΙΛ</b>		90* 5
LED	NVSW519A	
FWHM / FWTM	Asymmetric	79*- 200
Efficiency	92 %	50° 50°
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	$\times$ / $\longrightarrow$ $\times$
Light colour	White	6°
Required components:		60
		X     X
		800



<b>ΜΝΙCΗΙΛ</b>		
LED	NVSW519A	<sup>2</sup> <sup>2</sup> <sup>1</sup>
FWHM / FWTM	Asymmetric	750
Efficiency	86 %	200_200_200_200_200_200_200_200_200_200
Peak intensity	0.5 cd/lm	504
LEDs/each optic	1	
Light colour	' White	400
Required components:	White	45
rtequired components.		20
Protective plate	e, glass	
		30* 35' 899 15*
<b>Μ</b> ΝΙCΗΙΛ		
LED	NVSxE21A	7
FWHM / FWTM	Asymmetric	32.
Efficiency	82 %	
Peak intensity	0.6 cd/lm	60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45*
Required components:		600
Protective plate	e, glass	200
		30*
ØΝΙCΗΙΛ		132 <sup>3</sup> 0 <sup>6</sup> 13 <sup>3</sup>
LED	NVSxx19B/NVSxx19C	90* <b>2</b> 7
FWHM / FWTM	Asymmetric	75%
Efficiency	92 %	
Peak intensity	0.6 cd/lm	ed.
LEDs/each optic	1	400
Light colour	White	
Required components:		000
		200
		20
OSRAM		00 10 10 10 10 10 10 10
Opto Semiconductors		20°
Opto Semiconductors	Duris S8	900 900 107 107 107 107 107 107 107 1
Opto Semiconductors LED FWHM / FWTM	Asymmetric	90°
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 84 %	90 90 90 90 90 90 90 90 90 90 90 90 90 9
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.5 cd/lm	000 30° 50° 50° 50° 50° 50° 50° 50° 50° 50° 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.5 cd/lm 1	6) <sup>4</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.5 cd/lm	
Opto Semiconductors	Asymmetric 84 % 0.5 cd/lm 1	6) <sup>4</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.5 cd/lm 1 White	6) <sup>4</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.5 cd/lm 1 White	6) <sup>4</sup>



OSRAM		
Opto Semiconductors		90° 90'
LED	OSCONIQ P 3737 (2W version)	75%
FWHM / FWTM	Asymmetric	
Efficiency	93 %	54 <sup>5</sup>
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45
Required components:		
		800
		30* 30
OSRAM		13 <sup>2</sup>
Opto Semiconductors		90* 90'
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	Asymmetric	75%
Efficiency	93 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45
Required components:		
		$\times$
		300
		30* 30'
		30° 15 <sup>4</sup> 30°
OSRAM Opto Semiconductors		
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	73%
Efficiency	93 %	
Peak intensity	0.7 cd/lm	- 60 <sup>+</sup>
LEDs/each optic	1	400
Light colour	White	
Required components:		
rioquirou componente.		
		800
		$\times$ / $\setminus$ $\lambda$
		30* 15° 30'
OSRAM		
Opto Semiconductors	OCI ON Square CSSBM2/CSSBM2	90° 90'
LED FWHM / FWTM	OSLON Square CSSRM2/CSSRM3	75°
	Asymmetric 83 %	200
Efficiency		504 60
Peak intensity	0.6 cd/lm	
LEDs/each optic	1 White	
Light colour	White	·6* 6
Required components:		640
Protective plate	glass	
stoott o plate		
		30° 25° 0° 15° 30'
		15° 0° 15°



SAMSUI	NG	20*	
LED	LH351B		7
FWHM / FWTM	Asymmetric	70	
Efficiency	82 %		200
Peak intensity	0.6 cd/lm	est 🔍	
LEDs/each optic	1		400
Light colour	White	45	
Required components:			
			600
Protective pla	ite, glass		
		30*	800
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0
SAMSUI	N G	80*	5
LED	LH351C		
FWHM / FWTM	Asymmetric	75	
Efficiency	83 %		200
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		400
Light colour	White	-5'	
Required components:			
Protective pla	te, glass		elo
	, g		
		30*	800 0 <sup>9</sup>
SEOUL			
		90*	9
	MJT 5050	70	$1 \times$
FWHM / FWTM	Asymmetric 92 %		200
Efficiency Peak intensity	92 % 0.6 cd/lm	and the second	L
LEDs/each optic	1		400
Light colour	White	57	
Required components:		e. /	600
rioquirou components.			
			800
		30* 125	00



#### **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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