

PRODUCT DATASHEET FN15189\_STELLA-DWC2

# **STELLA-DWC2**

Universal road lighting (IESNA Type II Medium) beam with excellent mixed illuminance and luminance uniformity. Compatible with up to 23 mm LES size COBs. Variant with white frame.

### **TECHNICAL SPECIFICATIONS:**

Dimensions	Ø 90.0 mm
Height	19.3 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



## **MATERIAL SPECIFICATIONS:**

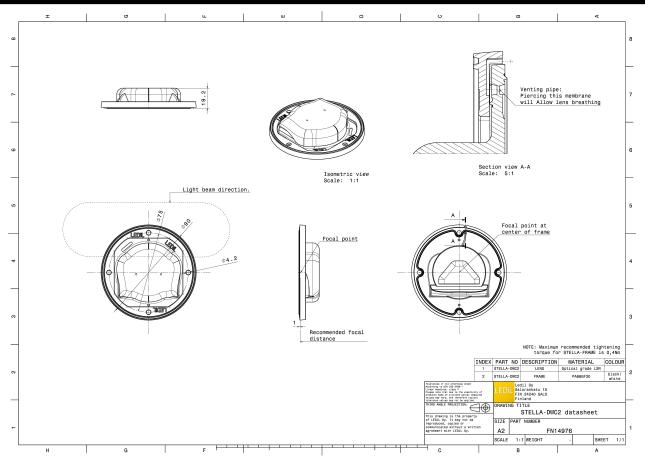
Component	Туре	Material	Colour	Finish
STELLA-DWC2	Single lens	Silicone	clear	
STELLA-FRAME-WHT	Holder	PA66	white	

### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FN15189_STELLA-DWC2	Single lens	135	135	15	7.1
» Box size: 480 x 280 x 300 mm					



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



bridgelux.		90° 90°
LED	V18 Gen7	3
FWHM / FWTM	Asymmetric	75* 100 75*
Efficiency	91 %	
Peak intensity	0.4 cd/lm	60%
LEDs/each optic	1	X / w X
Light colour	White	-6°.
Required componer		400
Bender Wirth: 43	9 TYP L3	
		200
		30° 15° 00 15° 30°
bridgelux.		90° 90°
LED	V18 Gen7	
FWHM / FWTM	Asymmetric	75* 100 78*
Efficiency	89 %	
Peak intensity	0.4 cd/lm	604 200 607
LEDs/each optic	1	
Light colour	White	
Required componer		
Required componer	lo.	$\times$
		30° 15° 0° 15° 30°
bridgelux.		NY M
LED	V22 Gen7	90° 90°
FWHM / FWTM	Asymmetric	75* 75*
Efficiency	89 %	
Peak intensity	0.4 cd/lm 1	200
LEDs/each optic	White	
Light colour Required componer		a. 300 a.
Bender Wirth: 43		$\times$ / $\times$
Dender Wirth. 43	i iyp z i	400
		$\times$ / $\times$
		30° 15° 90 15° 30°
bridgelux.		NH
	\/00 Q7	90° 90°
LED	V22 Gen7	75* 75*
FWHM / FWTM	Asymmetric	
Efficiency	92 %	an and a set
Peak intensity	0.3 cd/lm	200
LEDs/each optic	1	
Light colour	White	45' 45'
Required componer		
TE Connectivity:	2213480-1	
		30° 30°
		15 98 15



bridgelux.		
LED	Vero SE 13	95° - 95°
FWHM / FWTM	Asymmetric	75* 200 75*
Efficiency	91 %	200
Peak intensity	0.6 cd/lm	.60* 60*
LEDs/each optic	1	
Light colour	White	.40°
Required componer		· · · · · · · · · · · · · · · · · · ·
	ю.	
		600
		70
		30° 13° 30°
bridgelux.		
LED	Vero SE 18	90* 90*
ED FWHM / FWTM	Asymmetric	75* 100 75*
Efficiency	Asymmetric 92 %	
Peak intensity	92 % 0.5 cd/lm	60%
LEDs/each optic	1	
Light colour	White	20
Required componer		10°
Required component	IIO.	XIIX
		500
		210 500 100
		15 <sup>2</sup> 0 <sup>6</sup> 15 <sup>4</sup>
bridgelux		
bridgelux.	VERO18	90°
LED	VERO18	
LED FWHM / FWTM	Asymmetric	M*
LED FWHM / FWTM Efficiency	Asymmetric 90 %	M*
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.4 cd/lm	M*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.4 cd/lm 1	20 27 29 20 20 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.4 cd/lm 1 White	M*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.4 cd/lm 1 White	20 27 29 20 20 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.4 cd/lm 1 White	20 27 29 20 20 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.4 cd/lm 1 White	20 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 90 % 0.4 cd/lm 1 White hts:	20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 90 % 0.4 cd/lm 1 White hts:	20 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 90 % 0.4 cd/lm 1 White hts: N	20 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 90 % 0.4 cd/lm 1 White hts: N CLL04x/CLU04x	20 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CITTIZE LED FWHM / FWTM	Asymmetric 90 % 0.4 cd/lm 1 White hts:	20 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component CITTIZE LED FWHM / FWTM Efficiency	Asymmetric 90 % 0.4 cd/lm 1 White hts:	20 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component CITIZE LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.4 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.4 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Equired component Equired component Required component Equired co	Asymmetric 90 % 0.4 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.4 cd/m 1 White hts:	20 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Equired component Equired component Required component Equired co	Asymmetric 90 % 0.4 cd/m 1 White hts:	20 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.4 cd/m 1 White hts:	



CREE 2 LED		96* 90*
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM / FWTM	Asymmetric	75*
Efficiency	89 %	20
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required compone	ints:	
		800
		700 300
		50* 50*
LED	CXA/B 25xx	3
FWHM / FWTM	Asymmetric	200
Efficiency	91 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	(3) (3) (3)
Required compone		
Bender Wirth: 43	39 Тур L3	400
		30° 30°
		15° 0° 15°
		12 <sup>3</sup> 0 <sup>4</sup> 13 <sup>3</sup>
		80. 20, 20, 0, 72, 0, 72,
LED	СОВ Ј-Туре	25 <sup>h</sup> 6 <sup>h</sup> 25 <sup>h</sup>
LED FWHM / FWTM	COB J-Type Asymmetric	25 <sup>3</sup> 0 <sup>3</sup> 25 <sup>3</sup>
LED FWHM / FWTM Efficiency	COB J-Type Asymmetric 90 %	
LED FWHM / FWTM Efficiency Peak intensity	COB J-Type Asymmetric 90 % 0.6 cd/lm	22 <sup>3</sup> 0 <sup>3</sup> 25 <sup>3</sup> 99 <sup>4</sup> 28 <sup>4</sup> 00 <sup>4</sup> 29 300 300 60 <sup>4</sup> 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	COB J-Type Asymmetric 90 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White	22 <sup>3</sup> 0 <sup>3</sup> 23 <sup>5</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White	23 <sup>3</sup> 0 <sup>3</sup> 23 <sup>3</sup> 29 <sup>4</sup> 29 <sup>4</sup> 29 <sup>4</sup> 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White	23 <sup>3</sup> 0 <sup>3</sup> 23 <sup>5</sup> 29 <sup>4</sup> 29 <sup>4</sup> 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White	22 <sup>3</sup> 0 <sup>3</sup> 25 <sup>3</sup> 0 <sup>4</sup> 100 100 100 100 100 100 100 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White Its:	No. B30 B20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White Its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	COB J-Type Asymmetric 90 % 0.6 cd/lm 1 White Ints:	



SAMSI	ING	
		90*
LED FWHM / FWTM	LC040D / LC060D / LC080D	751
Efficiency	Asymmetric 89 %	
Peak intensity	0.3 cd/lm	
		200
LEDs/each optic Light colour	1 White	
Required compone		65.
Required compone	113.	30
		$\times$
		400
		30° 15° 0° 15°
SEOUL		MA KH
		90*
	MJT COB LES 14.5	75. 200
FWHM / FWTM	Asymmetric 91 %	
Efficiency Peak intensity	91 % 0.5 cd/lm	605
		30
LEDs/each optic Light colour	1 White	$\times \times / \setminus \times \rangle$
Required compone		45* 440
Bender Wirth: 43		540
Dender Witth. 4	55 Typ 21	
		500
		30* 155 880 15*
SEOUL		
SEOUL SEMICONDUCTOR	MJT COB LES 14.5	
FWHM / FWTM	Asymmetric	
Efficiency	89 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	' White	
Required compone		
Required compone	11.3.	
		9°
SEOUL SEMICONDUCTOR	MJT COB LES 22	 99°
seoul semiconductor	MJT COB LES 22 Asymmetric	 9°
seoul semiconductor LED FWHM / FWTM	Asymmetric	 9° 73° 210
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 91 %	 99° 73° 64°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.4 cd/lm	99 <sup>-</sup> - 200 - 200
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.4 cd/lm 1	 73° 200
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.4 cd/lm 1 White	 59° 73° 60° 60° 70° 70°
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 91 % 0.4 cd/lm 1 White ents:	73° 200
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.4 cd/lm 1 White ents:	73° 200
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 91 % 0.4 cd/lm 1 White ents:	73° 200



# PHOTOMETRIC DATA (SIMULATED):

bridgelux.		90°
LED	V10 Gen7	100
FWHM / FWTM	Asymmetric	75°
Efficiency	89 %	
Peak intensity	0.5 cd/lm	50 <sup>4</sup> 50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45'
Required components:		500
Bender Wirth: 486 Ty	p L1	60
-		
		30 <sup>4</sup> 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup> 30 <sup>4</sup>
bridgelux.		
blidgetux.		90* 90*
	V13 Gen7	750 200 750
LED		
FWHM / FWTM	Asymmetric	504 604
Efficiency	93 %	X
LEDs/each optic	1	
Light colour	White	40° 63*
Required components:		
		30° <u>700</u> 30° 30°
bridgelux.		90° 90°
LED	V13 Gen7	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	504 504
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 400 45*
Required components:		
Bender Wirth: 477 Ty	p Z1	X/TX
		X Joo X
		30* 750 30*
1		15° 0° 15°



# PRODUCT DATASHEET FN15189\_STELLA-DWC2

#### **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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

#### **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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