

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.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 90.0 mm
Height	19.3 mm
Fastening	screw
Colour	black
Box size	480 x 280 x 300 mm
Box weight	7.1 kg
Quantity in Box	135 pcs
ROHS compliant	yes 🛈

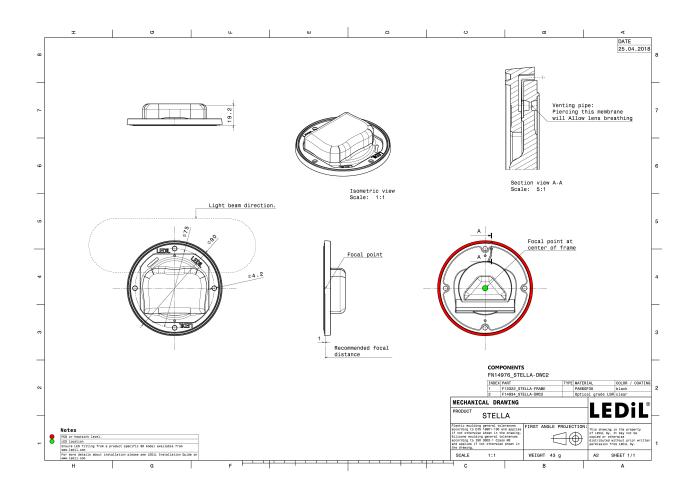


PRODUCT DATASHEET

FN14976_STELLA-DWC2

MATERIAL SPECIFICATIONS:

Component STELLA-DWC2 STELLA-FRAME **Type** Lens Holder Material Silicone PA66 **Colour** clear black 





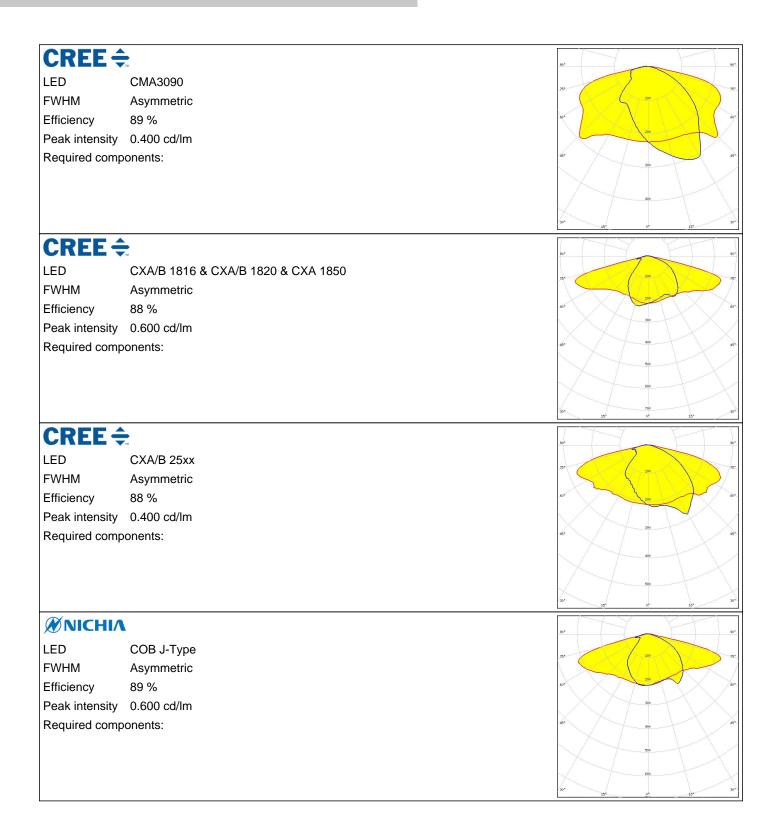
bridgelux.		50°
LED	V18 Gen7	73*
FWHM	Asymmetric	
Efficiency	89 %	60° 60°
Peak intensity	0.410 cd/lm	20
Required comp	onents:	6° 6°
		200
		10° 60 30°
		129 00 139
bridgelux.		90* 90*
LED	V22 Gen7	78- 78-
FWHM	Asymmetric	
Efficiency	91 %	en la contraction de la contra
Peak intensity		
Required comp		-6°
TE: 2213480-	1	\times / \setminus \times
		40
		30° 30° 30°
bridgelus		
bridgelux.		90° 90°
LED	V22 Gen7	50° 50°
		97 97 73
LED FWHM	V22 Gen7 Asymmetric 88 %	50° 50° 75° - 500 60° - 60°
LED FWHM Efficiency	Asymmetric 88 %	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM Efficiency Peak intensity	Asymmetric 88 % 0.360 cd/lm	5°
LED FWHM Efficiency	Asymmetric 88 % 0.360 cd/lm	51° 50° 50° 60° 60° 60° 60° 60° 60° 60° 60° 60° 6
LED FWHM Efficiency Peak intensity	Asymmetric 88 % 0.360 cd/lm	5° 50 50 6° 6° 50 50 6°
LED FWHM Efficiency Peak intensity	Asymmetric 88 % 0.360 cd/lm	97 97 39 00 00 00 00 00 00 00 00 00 0
LED FWHM Efficiency Peak intensity Required comp	Asymmetric 88 % 0.360 cd/lm	5°
LED FWHM Efficiency Peak intensity	Asymmetric 88 % 0.360 cd/lm	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM Efficiency Peak intensity Required comp	Asymmetric 88 % 0.360 cd/lm	
LED FWHM Efficiency Peak intensity Required comp	Asymmetric 88 % 0.360 cd/lm onents:	
LED FWHM Efficiency Peak intensity Required comp	Asymmetric 88 % 0.360 cd/lm onents: Vero SE 13	
LED FWHM Efficiency Peak intensity Required comp bridgetux. LED FWHM	Asymmetric 88 % 0.360 cd/lm onents: Vero SE 13 Asymmetric 91 %	
LED FWHM Efficiency Peak intensity Required comp bridgetux. LED FWHM Efficiency	Asymmetric 88 % 0.360 cd/lm onents: Vero SE 13 Asymmetric 91 % 0.630 cd/lm	
LED FWHM Efficiency Peak intensity Required comp bridgetux LED FWHM Efficiency Peak intensity	Asymmetric 88 % 0.360 cd/lm onents: Vero SE 13 Asymmetric 91 % 0.630 cd/lm	
LED FWHM Efficiency Peak intensity Required comp bridgetux LED FWHM Efficiency Peak intensity	Asymmetric 88 % 0.360 cd/lm onents: Vero SE 13 Asymmetric 91 % 0.630 cd/lm	
LED FWHM Efficiency Peak intensity Required comp bridgelux LED FWHM Efficiency Peak intensity	Asymmetric 88 % 0.360 cd/lm onents: Vero SE 13 Asymmetric 91 % 0.630 cd/lm	



bridgelux.		90° 80°
LED	Vero SE 18	75
FWHM	Asymmetric	
Efficiency	91 %	.60* 200 60*.
Peak intensity	0.450 cd/lm	
Required comp	onents:	67
		400
		20
		30° 15° 0° 15° 30°
bridgelux.		
LED	VERO13	
FWHM	Asymmetric	75*
Efficiency	89 %	60 ⁴ 80 ⁴
Peak intensity		30
Required comp		45* 400 45*
		20
		60
		X No
		130° 152 00 151 30°
bridgelux.		90° 10° 10° 10° 10°
bridgelux. LED	VERO18	
	VERO18 Asymmetric	32 10 32 33 10 32
LED		
LED FWHM	Asymmetric 90 %	
LED FWHM Efficiency	Asymmetric 90 % 0.430 cd/lm	
LED FWHM Efficiency Peak intensity	Asymmetric 90 % 0.430 cd/lm	
LED FWHM Efficiency Peak intensity	Asymmetric 90 % 0.430 cd/lm	
LED FWHM Efficiency Peak intensity	Asymmetric 90 % 0.430 cd/lm	
LED FWHM Efficiency Peak intensity Required comp	Asymmetric 90 % 0.430 cd/lm onents:	
LED FWHM Efficiency Peak intensity Required compo	Asymmetric 90 % 0.430 cd/lm onents:	
LED FWHM Efficiency Peak intensity Required composition CREE LED	Asymmetric 90 % 0.430 cd/lm onents: CMA2550	
LED FWHM Efficiency Peak intensity Required composition Required Required Composition Required Required Requ	Asymmetric 90 % 0.430 cd/lm onents: CMA2550 Asymmetric	
LED FWHM Efficiency Peak intensity Required composite Required composite CREE LED FWHM Efficiency	Asymmetric 90 % 0.430 cd/lm onents: CMA2550 Asymmetric 89 %	
LED FWHM Efficiency Peak intensity Required composite Required composi	Asymmetric 90 % 0.430 cd/lm onents: CMA2550 Asymmetric 89 % 0.400 cd/lm	
LED FWHM Efficiency Peak intensity Required composite Required composite CREE LED FWHM Efficiency	Asymmetric 90 % 0.430 cd/lm onents: CMA2550 Asymmetric 89 % 0.400 cd/lm	
LED FWHM Efficiency Peak intensity Required composite Required composi	Asymmetric 90 % 0.430 cd/lm onents: CMA2550 Asymmetric 89 % 0.400 cd/lm	
LED FWHM Efficiency Peak intensity Required composite Required composite CREE LED FWHM Efficiency Peak intensity	Asymmetric 90 % 0.430 cd/lm onents: CMA2550 Asymmetric 89 % 0.400 cd/lm	



PHOTOMETRIC DATA (MEASURED):



PRODUCT DATASHEET

FN14976_STELLA-DWC2



OSRAM		
Opto Semiconductors		90* 90
LED	Soleriq S19	251 200 75
FWHM	Asymmetric	200
Efficiency	90 %	
Peak intensity		5
Required comp	onents.	
		30° 15° 30
SAMSU	NG	90* 90
LED	COB D Series LES 14.5 mm	
FWHM	Asymmetric	
Efficiency	88 %	60* 209 60
Peak intensity	0.520 cd/lm	
Required comp	pnents:	457 460 45
		30* 30
<u>SAMSU</u>	NG	
LED	COB D Series LES 22 mm	»·····································
FWHM	Asymmetric	75* 75
		60*
Efficiency	88 %	605
Efficiency Peak intensity	88 % 0.340 cd/lm	e ^r o
Efficiency	88 % 0.340 cd/lm	6 ¹⁵ 6 ¹⁵ 8 ¹⁶ 200
Efficiency Peak intensity	88 % 0.340 cd/lm	e ¹
Efficiency Peak intensity	88 % 0.340 cd/lm	
Efficiency Peak intensity Required comp	88 % 0.340 cd/lm	
Efficiency Peak intensity Required composition seoul semiconouctor	88 % 0.340 cd/lm onents:	
Efficiency Peak intensity Required compo sequired compo sequired compo LED	88 % 0.340 cd/lm onents: MJT COB LES 14.5	20 100 25 00 100 20 00 100 100 100 100 100 100 100 100 100
Efficiency Peak intensity Required compo second sendonoucror LED FWHM	88 % 0.340 cd/lm onents: MJT COB LES 14.5 Asymmetric	
Efficiency Peak intensity Required composition scour searconductor LED FWHM Efficiency	88 % 0.340 cd/lm onents: MJT COB LES 14.5 Asymmetric 88 %	
Efficiency Peak intensity Required compo- secoul semiconductor LED FWHM Efficiency Peak intensity	88 % 0.340 cd/lm onents: MJT COB LES 14.5 Asymmetric 88 % 0.500 cd/lm	
Efficiency Peak intensity Required composition scour searconductor LED FWHM Efficiency	88 % 0.340 cd/lm onents: MJT COB LES 14.5 Asymmetric 88 % 0.500 cd/lm	
Efficiency Peak intensity Required compo- secoul semiconductor LED FWHM Efficiency Peak intensity	88 % 0.340 cd/lm onents: MJT COB LES 14.5 Asymmetric 88 % 0.500 cd/lm	
Efficiency Peak intensity Required compo- seoul semiconductor LED FWHM Efficiency Peak intensity	88 % 0.340 cd/lm onents: MJT COB LES 14.5 Asymmetric 88 % 0.500 cd/lm	



SEOUL		
SEQUL SEMICONDUCTOR	MJT COB LES 14.5	90* 95* 79* 200 75*
FWHM	Asymmetric	
Efficiency	90 %	.60° 60°
Peak intensity	0.500 cd/lm	
Required comp	onents:	45* 400 45*.
Bender Wirth	: 433 Typ Z1	50
		60
		30° 30° 30°
		90°
	MJT COB LES 22	100
SEOUL SEMICONDUCTOR	MJT COB LES 22 Asymmetric	99° 73° 500
seoul semiconductor		50° 50° 50° 50°
seoul semiconductor LED FWHM	Asymmetric 90 %	500 500 500 500 500 500 500 500 500 500
seoul semiconductor LED FWHM Efficiency	Asymmetric 90 % 0.370 cd/lm	
seoul semiconductor LED FWHM Efficiency Peak intensity	Asymmetric 90 % 0.370 cd/lm onents:	50 50 50 50 50 50 50 50 50 50 50 50 50 5
seoul semiconductor LED FWHM Efficiency Peak intensity Required comp	Asymmetric 90 % 0.370 cd/lm onents:	
seoul semiconductor LED FWHM Efficiency Peak intensity Required comp	Asymmetric 90 % 0.370 cd/lm onents:	



PHOTOMETRIC DATA (SIMULATED):

bridgelux.		90° 90°
LED	V10 Gen7	200. 75*
FWHM	Asymmetric	
Efficiency	89 %	.61 ⁴ 60 ⁴ .
Peak intensity	0.530 cd/lm	400
Required compon	ents:	45° (500
Bender Wirth: 4	86 Typ L1	50
		30 ⁺ 30 ⁺
		153 67 154
bridgelux.		90* 90*
LED	V13 Gen7	70
FWHM	Asymmetric	210
Efficiency	91 %	50 ¹⁶ 60*.
Peak intensity	0.000 cd/lm	\times \times $/$ \times \times \times
Required compon	ents:	-6°
		800
		30* 700 30*
1		15° 0° 15°
bridgelux.		99° 99°
bridgelux. LED	V13 Gen7	12 ³ 0 ⁴ 12 ⁵
LED	V13 Gen7 Asymmetric	25 ² 0 ⁴ 13 ⁹
LED FWHM	Asymmetric	23 ⁴ 4 ⁴ 13 ⁴
LED FWHM Efficiency		25 ⁴ c ² 13 ⁵
LED FWHM Efficiency Peak intensity	Asymmetric 93 % 40.494 cd/lm	12 ³ e ⁴ 12 ⁴
LED FWHM Efficiency	Asymmetric 93 % 40.494 cd/lm ents:	20 20 20 20 20 20 20 20 20 20
LED FWHM Efficiency Peak intensity Required compon	Asymmetric 93 % 40.494 cd/lm ents:	
LED FWHM Efficiency Peak intensity Required compon	Asymmetric 93 % 40.494 cd/lm ents:	
LED FWHM Efficiency Peak intensity Required compon Bender Wirth: 4	Asymmetric 93 % 40.494 cd/lm ents:	
LED FWHM Efficiency Peak intensity Required compon	Asymmetric 93 % 40.494 cd/lm ents:	13° 4° 13° 90° 90° 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90° 100 90°
LED FWHM Efficiency Peak intensity Required compon Bender Wirth: 4	Asymmetric 93 % 40.494 cd/lm ents:	
LED FWHM Efficiency Peak intensity Required compon Bender Wirth: 4	Asymmetric 93 % 40.494 cd/lm ents: 77 Typ Z1 V22 Gen7 Asymmetric	
LED FWHM Efficiency Peak intensity Required compon Bender Wirth: 4	Asymmetric 93 % 40.494 cd/lm ents: 77 Typ Z1 V22 Gen7 Asymmetric 94 %	
LED FWHM Efficiency Peak intensity Required compon Bender Wirth: 4	Asymmetric 93 % 40.494 cd/lm ents: 77 Typ Z1 V22 Gen7 Asymmetric	
LED FWHM Efficiency Peak intensity Required compon Bender Wirth: 4 bridgetux. LED FWHM Efficiency Peak intensity Required compon	Asymmetric 93 % 40.494 cd/lm ents: 77 Typ Z1 V22 Gen7 Asymmetric 94 % 0.397 cd/lm ents:	
LED FWHM Efficiency Peak intensity Required compon Bender Wirth: 4	Asymmetric 93 % 40.494 cd/lm ents: 77 Typ Z1 V22 Gen7 Asymmetric 94 % 0.397 cd/lm ents:	
LED FWHM Efficiency Peak intensity Required compon Bender Wirth: 4 bridgetux. LED FWHM Efficiency Peak intensity Required compon	Asymmetric 93 % 40.494 cd/lm ents: 77 Typ Z1 V22 Gen7 Asymmetric 94 % 0.397 cd/lm ents:	
LED FWHM Efficiency Peak intensity Required compon Bender Wirth: 4 bridgelux. LED FWHM Efficiency Peak intensity Required compon	Asymmetric 93 % 40.494 cd/lm ents: 77 Typ Z1 V22 Gen7 Asymmetric 94 % 0.397 cd/lm ents:	

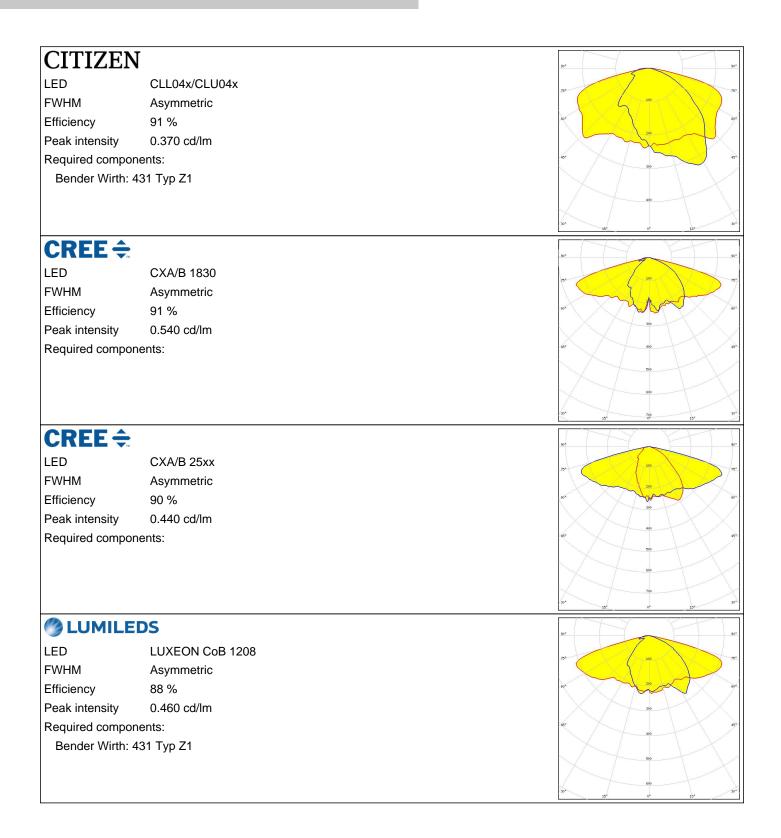


PHOTOMETRIC DATA (SIMULATED):

bridgelux.		90* 90*
LED	V22 Gen7	73* 7* 7*
FWHM	Asymmetric	
Efficiency	94 %	60° 200 60*
Peak intensity	0.397 cd/lm	
Required compone	ents:	45° 65°
Bender Wirth: 43	31 Тур Z1	40
		500
		30* 600 30*
		13 ⁵ 0 ⁶ 15 ⁵
bridgelux.		90* 90*
LED	VERO10	73%
FWHM	Asymmetric	
Efficiency	89 %	60* <u>200</u> 60*.
Peak intensity	0.560 cd/lm	40
Required compone	ents:	45* 500 45*.
		60
		710
		30° <u>500</u> 15° 0° 15° 30°
CITIZEN		
		9°
LED	CLL02x/CLU02x (LES10)	90°
LED FWHM	CLL02x/CLU02x (LES10) Asymmetric	
LED FWHM Efficiency	CLL02x/CLU02x (LES10) Asymmetric 92 %	
LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm	
LED FWHM Efficiency	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm	
LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm	20 6° 6° 90 60 70 70
LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm	
LED FWHM Efficiency Peak intensity Required compone	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm	
LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm	20 20 20 20 20 20 20 20 20 20
LED FWHM Efficiency Peak intensity Required compone	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm	
LED FWHM Efficiency Peak intensity Required compone CITTIZEN LED FWHM	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm ents: CLL03x/CLU03x Asymmetric	94. 25, 26 15.
LED FWHM Efficiency Peak intensity Required compone CITTIZEN LED FWHM Efficiency	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm ents: CLL03x/CLU03x Asymmetric 91 %	50° 50° 50° 50°
LED FWHM Efficiency Peak intensity Required compone CITTIZEN LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm ents: CLL03x/CLU03x Asymmetric 91 % 0.520 cd/lm	84. 25, <u>66</u> 13,
LED FWHM Efficiency Peak intensity Required compone CITTIZEN LED FWHM Efficiency	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm ents: CLL03x/CLU03x Asymmetric 91 % 0.520 cd/lm	84. 25, <u>66</u> 13,
LED FWHM Efficiency Peak intensity Required compone CITTIZEN LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm ents: CLL03x/CLU03x Asymmetric 91 % 0.520 cd/lm	84. 25, <u>66</u> 13,
LED FWHM Efficiency Peak intensity Required compone CITTIZEN LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm ents: CLL03x/CLU03x Asymmetric 91 % 0.520 cd/lm	84. 25, <u>66</u> 13,
LED FWHM Efficiency Peak intensity Required compone CITIZEN LED FWHM Efficiency Peak intensity	CLL02x/CLU02x (LES10) Asymmetric 92 % 0.600 cd/lm ents: CLL03x/CLU03x Asymmetric 91 % 0.520 cd/lm	84. 27. 27. 28. 27. 26. 27.



PHOTOMETRIC DATA (SIMULATED):



Last update: 25/05/2018Subject to change without prior noticePublished: 13/09/2018LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.10/13



PHOTOMETRIC DATA (SIMULATED):

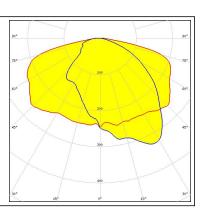
UMILE	DS	90*
LED	LUXEON CoB 1211	754
FWHM	Asymmetric	
Efficiency	89 %	60* 60
Peak intensity	0.400 cd/lm	20
Required compor	ients:	45*
Bender Wirth:	I31 Typ Z1	40
		20
		20 ⁴ 25 ⁴ 2 ⁵ ₂ 30
UMILE	DS	90°
LED	LUXEON CoB 1216/1812	
FWHM	Asymmetric	100
Efficiency	88 %	60 ⁴
Peak intensity	0.330 cd/lm	200
Required compor	ients:	40°
Bender Wirth:	l31 Τyp Z1	30
		\times / \times
		30* 400 30'
	IUS	
LED	CXM-22	90* 90
FWHM	Asymmetric	75'
Efficiency	91 %	. 60 ⁴
Peak intensity	0.360 cd/lm	
Required compor		
Bender Wirth: 4		30
	- 71	\times
		460
0000444		130° 135° 30°
OSRAM Opto Semiconductors		90 ⁴ 90
LED	Soleriq S13	75%
FWHM	Asymmetric	200
	Asymmetric 91 %	A14
FWHM		50°
FWHM Efficiency	91 % 0.550 cd/lm	63 ⁴
FWHM Efficiency Peak intensity	91 % 0.550 cd/lm nents:	61 ⁴
FWHM Efficiency Peak intensity Required compor	91 % 0.550 cd/lm nents:	61 ^x



PHOTOMETRIC DATA (SIMULATED):

PHILIPS

LEDFortimo SLM L23 + SLM holder (PI)FWHMAsymmetricEfficiency91 %Peak intensity0.330 cd/lmRequired components:



PRODUCT DATASHEET

FN14976_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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LEDiL Oy

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