

PRODUCT DATASHEET CS16330_STRADELLA-IP-28-HB-W-PC

STRADELLA-IP-28-HB-W-PC

~90° wide beam. Variant made from PC.

TECHNICAL SPECIFICATIONS:

Dimensions	100.0 x 100.0 mm
Height	9.5 mm
Fastening	pin, screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

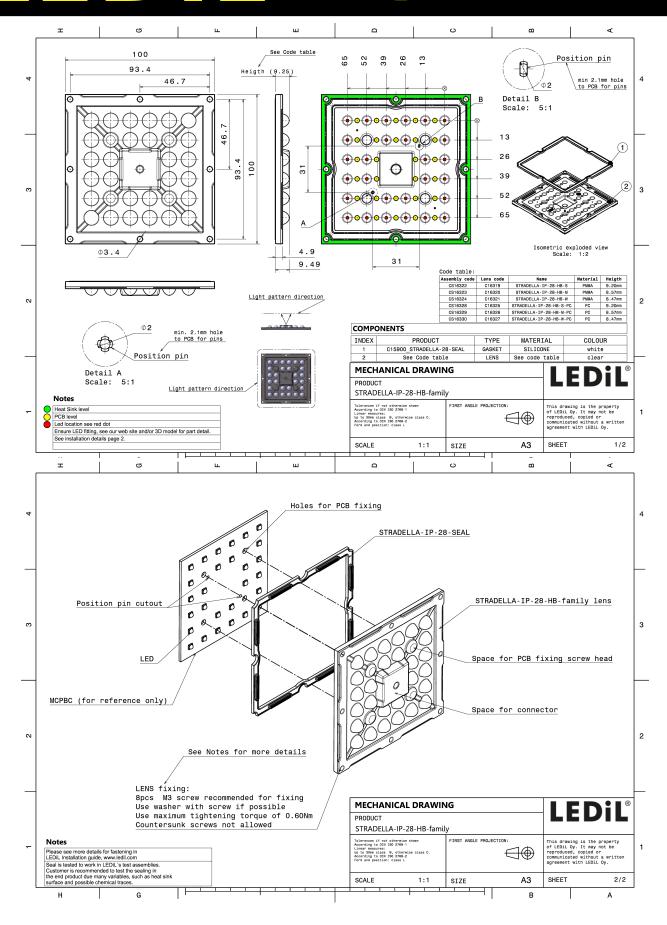
Component	Туре	Material	Colour	Finish
STRADELLA-IP-28-HB-W-PC	Multi-lens	PC	clear	
STRADELLA-28-SEAL	Seal	Silicone	white	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS16330_STRADELLA-IP-28-HB-W-PC	Multi-lens	156	78	78	5.9
» Box size: 476 x 273 x 247 mm					

Last update: 20/12/2018Subject to change without prior noticePublished: 06/11/2018LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.1/10

PRODUCT DATASHEET CS16330_STRADELLA-IP-28-HB-W-PC



R

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



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	HiQLED STR28 CR JE2835 4x7 xxx 72.0° / 115.0° 90 % 0.6 cd/lm 1 White hts:	20° 20° 20° 20° 20° 20° 20° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	HiQLED STR28 CR JĐš3030 4x7 xxx 73.0° / 113.0° 89 % 0.6 cd/lm 1 White hts:	20° 0° 0° 0° 0° 0° 0° 0° 0° 0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	QUICK FLUX STR28 XD2x14 xxx G8 82.0° / 126.0° 88 % 0.5 cd/m 1 White hts:	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	QUICK FLUX STR28 XT2x14 xxx G5 78.0° / 128.0° 92 % 0.5 cd/m 1 White hts:	



EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX STR28 XT2x14 xxx G5 83.0° / 126.0° 90 % 0.5 cd/lm 1 White nts:	20° 20° 6° 6° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50
CREE 4 LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 2835 72.0° / 115.0° 90 % 0.6 cd/lm 1 White	20 ¹⁰ 200 60 ²
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 3030 73.0° / 113.0° 89 % 0.6 cd/lm 1 White	20 ¹⁰ 20 20 20 20 20 20 20 20 20 20
CREE 4 LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 3030 73.0° / 119.0° 93 % 0.6 cd/lm 1 White	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°



CREE C LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XD16 82.0° / 126.0° 88 % 0.5 cd/lm 1 White	
CREE 4 LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 83.0° / 126.0° 90 % 0.5 cd/lm 1 White	
CREE 4 LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E 86.0° / 128.0° 92 % 0.5 cd/lm 1 White	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSCONIQ S 3030 73.0° / 119.0° 92 % 0.6 cd/lm 1 White ents:	



OSRAM Opto Ser

LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:

OSLON Square CSSRM2/CSSRM3 73.0° / 121.0° 91 % 0.6 cd/lm 1 White



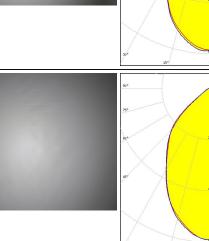
SAMSUNG

LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:

HiLOM SC28 (LH181B) 74.0° / 113.0° 88 % 0.6 cd/lm 1 White

SAMSUNG LED HiLOM SM28 (LM301B) FWHM / FWTM Efficiency Peak intensity LEDs/each optic 1 Light colour

73.0° / 115.0° 90 % 0.6 cd/lm White Required components:





PHOTOMETRIC DATA (SIMULATED):

CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 HE 92.0° / 126.0° 91 % 0.5 cd/lm 1 White	90 ⁴ 90
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 76.0° / 118.0° 89 % 0.6 cd/lm 1 White	91 ⁴ 92 ⁵ 95 ⁶ 95 ⁶ 96 ⁶ 200 60 ⁶ 60 ⁶
Μ ΝΙCΗΙΛ		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NF2x757G 82.0° / 122.0° 94 % 0.5 cd/lm 1 White	97 79 79 60 60 60 70 70 70 70 70 70 70 70 70 7
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxE21A 83.0° / 118.0° 89 % 0.5 cd/lm 1 White	200 50 60 50 50 50 50 50 50 50 50 50 5



PHOTOMETRIC DATA (SIMULATED):

Μ ΝΙCΗΙΛ		90° 90°
LED	NVSxx19B/NVSxx19C	75' 75
FWHM / FWTM	90.0° / 122.0°	100
Efficiency	91 %	en 60
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	2" () S () () () () () () () () () () () () ()
Required components:		
		36* 15" 560 15" 36*
OSRAM Opto Semiconductors		90° 90°
LED	Duris S8	
FWHM / FWTM	74.0° / 118.0°	75'
Efficiency	92 %	200
Peak intensity	0.6 cd/lm	60°
LEDs/each optic	1	
Light colour	White	gr ² ar
Required components:		
		30° 500
0000414		(15° 0° 15°
OSRAM Opto Semiconductors		90° 90°
OSRAM Opto Semiconductors	OSCONIQ C 2424	
Opto Semiconductors	OSCONIQ C 2424 86.0° / 120.0°	35. 25. 26.
Opto Semiconductors		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	86.0° / 120.0°	
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	86.0° / 120.0° 92 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86.0° / 120.0° 92 % 0.5 cd/lm	
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	86.0° / 120.0° 92 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86.0° / 120.0° 92 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86.0° / 120.0° 92 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86.0° / 120.0° 92 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	86.0° / 120.0° 92 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	86.0° / 120.0° 92 % 0.5 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED	86.0° / 120.0° 92 % 0.5 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	86.0° / 120.0° 92 % 0.5 cd/lm 1 White OSCONIQ P 3030 76.0° / 120.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	86.0° / 120.0° 92 % 0.5 cd/lm 1 White OSCONIQ P 3030 76.0° / 120.0° 95 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	86.0° / 120.0° 92 % 0.5 cd/lm 1 White OSCONIQ P 3030 76.0° / 120.0° 95 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	86.0° / 120.0° 92 % 0.5 cd/lm 1 White OSCONIQ P 3030 76.0° / 120.0° 95 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	86.0° / 120.0° 92 % 0.5 cd/lm 1 White OSCONIQ P 3030 76.0° / 120.0° 95 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	86.0° / 120.0° 92 % 0.5 cd/lm 1 White OSCONIQ P 3030 76.0° / 120.0° 95 % 0.6 cd/lm 1	25 26 20 20 20 20 20 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	86.0° / 120.0° 92 % 0.5 cd/lm 1 White OSCONIQ P 3030 76.0° / 120.0° 95 % 0.6 cd/lm 1	25 26 20 20 20 20 20 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	86.0° / 120.0° 92 % 0.5 cd/lm 1 White OSCONIQ P 3030 76.0° / 120.0° 95 % 0.6 cd/lm 1	



PHOTOMETRIC DATA (SIMULATED):

SEOUL		90° 90°
	SEOUL 3030	73. 25.
FWHM / FWTM	85.0° / 121.0°	
Efficiency	92 %	63° 01°
Peak intensity	0.5 cd/lm	200
LEDs/each optic	1	
Light colour	White	a
Required components:		
		300 360
SEOUL		
SEOUL SEMICONDUCTOR		90° 90°
LED	SEOUL DC 3030C	73*
FWHM / FWTM	86.0° / 122.0°	$ \lambda $
Efficiency	93 %	60°
Peak intensity	0.5 cd/lm	200
LEDs/each optic	1	
Light colour	White	45*
Required components:		
		400
		30. 32.
		15° 0° 15°
		90* 90*
SEOUL SEMICONDUCTOR	Z5M1/Z5M2	\$0°
seoul semiconductor LED	Z5M1/Z5M2 88.0° / 121.0°	27. 26. 26.
seoul semiconductor LED FWHM / FWTM	88.0° / 121.0°	27. 26. 26.
seoul semiconductor LED FWHM / FWTM Efficiency	88.0° / 121.0° 92 %	94* 97* 73* 72* 63* 84*
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity	88.0° / 121.0° 92 % 0.5 cd/lm	94° - 92° -
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	88.0° / 121.0° 92 % 0.5 cd/lm 1	90°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	88.0° / 121.0° 92 % 0.5 cd/lm	90* 90* 75 90* 90* 700 90* 90* 90* 90* 90*
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	88.0° / 121.0° 92 % 0.5 cd/lm 1	90* 97 25 60* 60* 5* 60*
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	88.0° / 121.0° 92 % 0.5 cd/lm 1	90" 90" 35 - 200 - 00" 97" - 200 - 00" 97"
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	88.0° / 121.0° 92 % 0.5 cd/lm 1	99* 99* 99* 99* 99* 99* 99* 99* 99* 99*
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	88.0° / 121.0° 92 % 0.5 cd/lm 1	94 94 94 94 94 95 95 96 96 96 96 96 96 96 96 96 96
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	88.0° / 121.0° 92 % 0.5 cd/lm 1	75
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	88.0° / 121.0° 92 % 0.5 cd/lm 1 White	75
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED	88.0° / 121.0° 92 % 0.5 cd/lm 1 White Z8Y22	75
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM	88.0° / 121.0° 92 % 0.5 cd/lm 1 White Z8Y22 95.0° / 128.0°	bit bit bit
seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency	88.0° / 121.0° 92 % 0.5 cd/m 1 White Z8Y22 95.0° / 128.0° 89 %	bit bit bit
seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	88.0° / 121.0° 92 % 0.5 cd/lm 1 White Z8Y22 95.0° / 128.0° 89 % 0.5 cd/lm	bit bit bit
sEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	88.0° / 121.0° 92 % 0.5 cd/lm 1 White Z8Y22 95.0° / 128.0° 89 % 0.5 cd/lm 1	201 201 201 201 201 201 201 201
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	88.0° / 121.0° 92 % 0.5 cd/lm 1 White Z8Y22 95.0° / 128.0° 89 % 0.5 cd/lm	bit bit bit
sEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	88.0° / 121.0° 92 % 0.5 cd/lm 1 White Z8Y22 95.0° / 128.0° 89 % 0.5 cd/lm 1	30. 20. 20. 20. 20. 20.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	88.0° / 121.0° 92 % 0.5 cd/lm 1 White Z8Y22 95.0° / 128.0° 89 % 0.5 cd/lm 1	30. 20. 20. 20. 20. 20.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	88.0° / 121.0° 92 % 0.5 cd/lm 1 White Z8Y22 95.0° / 128.0° 89 % 0.5 cd/lm 1	30. 20. 20. 20. 20. 20.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	88.0° / 121.0° 92 % 0.5 cd/lm 1 White Z8Y22 95.0° / 128.0° 89 % 0.5 cd/lm 1	30. 20. 20. 20. 20. 20.



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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc. 228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

Local sales and technical support www.ledil.com/ where_to_buy

Shipping locations Salo, Finland Hong Kong, China

Distribution Partners www.ledil.com/ where_to_buy