

FLORENTINA-HLD-D

~18° diffused spot beam

SPECIFICATION:

Dimensions	285.6 x 19.5 mm
Height	9.5 mm
Fastening	screw
ROHS compliant	yes 🛈



MATERIALS:

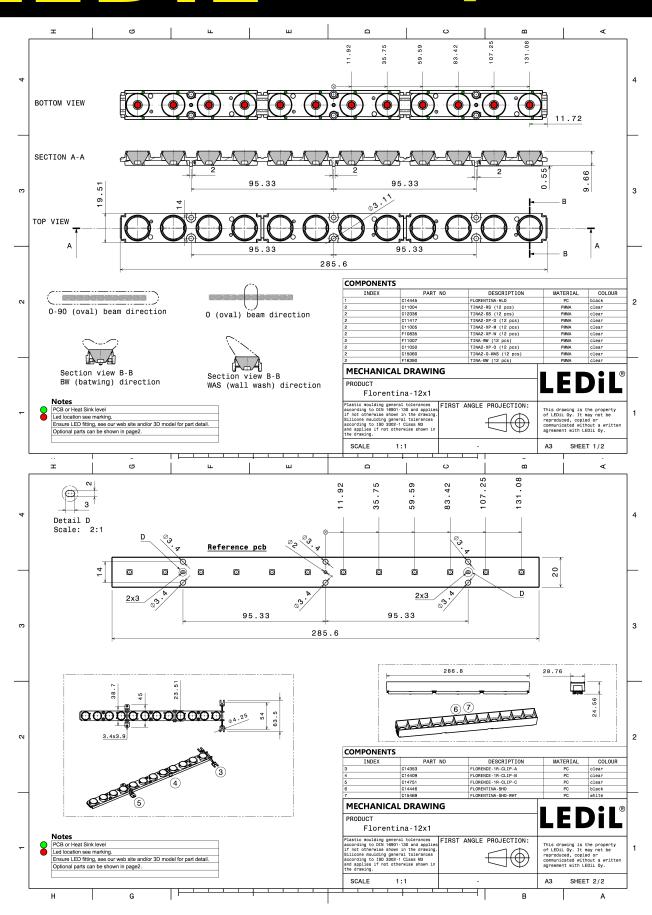
Component TINA2-XP-D FLORENTINA-HLD

Type Single lens Holder

Material	Colour	Finish
PMMA	clear	
PC	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP14996_FLORENTINA-HLD-D	Single lens	160	32	16	5.2
» Box size: 398 x 298 x 140 mm					



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



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE		500 500 60* 500 500 60* 60* 60* 60* 60* 60* 60* 60* 60* 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	XP-E2 13.0° / 30.0° 84 % 9.6 cd/lm 1 White nts:	30°
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	XP-G2 17.0° / 37.0° 82 % 6.2 cd/lm 1 White nts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	XP-G3 19.0° / 42.0° 81 % 4.7 cd/lm 1 White nts:	20 20 20 20 20 20 20 20 20 20



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LED	LUXEON Rebel ES	
FWHM / FWTM	18.0° / 39.0°	75
Efficiency	81 %	
Peak intensity	5.5 cd/lm	
LEDs/each optic	1	
Light colour	White	97 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300 - 300
Required compone		
C14446_FLORE		
		400
		20 ¹ 0 ¹ 23 ²
UMIL	.EDS	***
LED	LUXEON Rebel Plus	
FWHM / FWTM	15.0° / 33.0°	
Efficiency	82 %	94
Peak intensity	7.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C14446_FLORE	ENTINA-SHD	600
		\times / \setminus λ
		30 ⁴ 30 ³ 0 50 ⁴
	.EDS	
LED	LUXEON TX	
	17.0° / 37.0°	
FWHM / FWTM	17.0° / 37.0° 82 %	
FWHM / FWTM Efficiency		
FWHM / FWTM Efficiency Peak intensity	82 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	82 % 6 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	82 % 6 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	82 % 6 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	82 % 6 cd/lm 1 White ents:	91- 91- 91- 91- 91- 91- 91- 91- 91- 91-
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	82 % 6 cd/lm 1 White ents:	91- 91- 91- 91- 91- 91- 91- 91- 91- 91-
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	82 % 6 cd/lm 1 White ents: ENTINA-SHD	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	82 % 6 cd/lm 1 White ents: ENTINA-SHD	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	82 % 6 cd/lm 1 White ents: ENTINA-SHD	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	82 % 6 cd/lm 1 White ents: ENTINA-SHD LUXEON Z ES 15.0° / 31.0°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	82 % 6 cd/lm 1 White ents: ENTINA-SHD LUXEON Z ES 15.0° / 31.0° 82 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	82 % 6 cd/lm 1 White ents: ENTINA-SHD LUXEON Z ES 15.0° / 31.0° 82 % 8.5 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	82 % 6 cd/lm 1 White ents: ENTINA-SHD LUXEON Z ES 15.0° / 31.0° 82 % 8.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	82 % 6 cd/lm 1 White ents: ENTINA-SHD LUXEON Z ES 15.0° / 31.0° 82 % 8.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	82 % 6 cd/lm 1 White ents: ENTINA-SHD LUXEON Z ES 15.0° / 31.0° 82 % 8.5 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	82 % 6 cd/lm 1 White ents: ENTINA-SHD LUXEON Z ES 15.0° / 31.0° 82 % 8.5 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	82 % 6 cd/lm 1 White ents: ENTINA-SHD LUXEON Z ES 15.0° / 31.0° 82 % 8.5 cd/lm 1 White ents:	



			90¢	90'
LED	NCSxx19B		75*	
FWHM / FWTM	15.0° / 34.0°		X/	1600
Efficiency	79 %		60.8	
Peak intensity	6.9 cd/lm			3200
LEDs/each optic	1			
Light colour	White			
Required compone				
C14446_FLORE	INTINA-SHD			
			30° 15°	0° 35° 36
ØNICHI			90°	90'
LED	NVSxx19B/NVSxx19C			
FWHM / FWTM	19.0° / 40.0°		75*	
Efficiency	78 %			1600
Peak intensity	4.9 cd/lm		60°	
LEDs/each optic	1			
Light colour	White		43°	
Required compone	nts:			
C14446_FLORE				
			300	4830
000044			15%	0° 45°
OSRAM Opto Semiconductors			90°	90
				Δ
LED	OSLON Square EC		11	
	OSLON Square EC 17.0° / 37.0°		78'	
LED			73	2000
LED FWHM / FWTM	17.0° / 37.0°		35 Gr	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 37.0° 80 %		77. Gr	200 ex
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 37.0° 80 % 6.1 cd/lm 1 White		73 63 67	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts:		77	() () () () () () () () () ()
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts:		735 601 07	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts:		33 64 5	() () () () () () () () () ()
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts:		33 Gr 92 34 34 33	() () () () () () () () () ()
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts:		31 92 94 94	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts: :NTINA-SHD		33 64 57 34 34 35 35	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts: :NTINA-SHD		33 61 92 34 35 39 39 39 39	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts: :NTINA-SHD OSLON SSL 150 14.0° / 31.0°		33 Gr 33 34 35 35 35 35 35 35 35 35 35 35 35 35 35	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts: :NTINA-SHD OSLON SSL 150 14.0° / 31.0° 84 %		32 60 67 54 33 33 33 33 33 33 33 33 33 33 33 33 33	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts: INTINA-SHD OSLON SSL 150 14.0° / 31.0° 84 % 8.2 cd/lm		31 61 91 92 92 93 93 94 94	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE C14446_FLORE OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts: INTINA-SHD OSLON SSL 150 14.0° / 31.0° 84 % 8.2 cd/lm 1		37 68 94 39 54 55 68 68 68 68 68 68 68 68 68 68 68 68 68	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts: INTINA-SHD OSLON SSL 150 14.0° / 31.0° 84 % 8.2 cd/lm 1 White		37 68 97 94 94 95 95 95	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts: INTINA-SHD OSLON SSL 150 14.0° / 31.0° 84 % 8.2 cd/lm 1 White		31 94 95 94	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts: INTINA-SHD OSLON SSL 150 14.0° / 31.0° 84 % 8.2 cd/lm 1 White		31 91 92 92 93 93 93 93 93 93 93 93 93 93 93 93 93	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C14446_FLORE Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 37.0° 80 % 6.1 cd/lm 1 White nts: INTINA-SHD OSLON SSL 150 14.0° / 31.0° 84 % 8.2 cd/lm 1 White		31 97 97 97 97 97 97 97 97 97 97 97 97	



OSRAM Opto Semiconductors		90 ⁺ A 90 ⁺
LED	OSLON SSL 150	
FWHM / FWTM	14.0° / 30.0°	78
Efficiency	80 %	605
Peak intensity	8.6 cd/lm	
LEDs/each optic	1	
Light colour	White	87°
Required compone	nts:	6400
C14446_FLORI	NTINA-SHD	
		300 300
OSRAM Opto Semiconductors		235 of 157
		90*
LED	OSLON SSL 80	75 75
FWHM / FWTM	15.0° / 34.0°	
Efficiency	82 %	60
Peak intensity	7.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C14446_FLORI	NTINA-SHD	5430
		\times / \vee \times
		30° 35° 35°
SAMS		90°
LED	LH351B	
FWHM / FWTM	20.0° / 41.0°	75
Efficiency	82 %	
Peak intensity	5 cd/lm	69 ⁴
LEDs/each optic	1	
Light colour	White	g (2)
Required compone	nts:	
C14446_FLORI		
		30 ⁴
TOCHIDA		20 ⁴ 20 ⁷ 20 ⁷ 20 ⁷
TOSHIBA Leading Innovation >>>		20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴
	TL1L4	
Leading Innovation >>>	TL1L4 18.0° / 39.0°	20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴
Leading Innovation »» LED		
Leading Innovation »» LED FWHM / FWTM Efficiency Peak intensity	18.0° / 39.0°	
Leading Innovation »» LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	18.0° / 39.0° 80 %	
Leading Innovation »» LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	18.0° / 39.0° 80 % 5.4 cd/lm 1 White	
Leading Innovation LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	18.0° / 39.0° 80 % 5.4 cd/lm 1 White nts:	
Leading Innovation »» LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	18.0° / 39.0° 80 % 5.4 cd/lm 1 White nts:	
Leading Innovation LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	18.0° / 39.0° 80 % 5.4 cd/lm 1 White nts:	
Leading Innovation LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	18.0° / 39.0° 80 % 5.4 cd/lm 1 White nts:	



OPTICAL RESULTS (SIMULATED):

		90 ⁴
LED	J Series 3030	75
FWHM / FWTM	16.0° / 34.0°	100
Efficiency	91 %	60 ²
Peak intensity	7.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45. 4500
Required components:		
		600
		$\mathbb{K} / \mathbb{V} \times \mathbb{X}$
		30° 8000 30 13° 0° 15°
		90* A 90'
LED	J Series 3030	
FWHM / FWTM	16.0° / 34.0°	25* 25
Efficiency	88 %	
Peak intensity	7.5 cd/lm	
LEDs/each optic	1	
Light colour	White	457 4530
Required components:		
C14446_FLORENTI	NA-SHD	6000
		30° 30' 30'
Μ ΝΙCΗΙΛ		90°
LED	NCSxE17A	
FWHM / FWTM	15.0° / 29.0°	75
	15.0 / 29.0	
	82 %	300
Efficiency		an 300 ki
Efficiency Peak intensity	82 %	60
Efficiency	82 % 12 cd/lm	er 330 60
Efficiency Peak intensity LEDs/each optic	82 % 12 cd/lm 1	5° 600 50
Efficiency Peak intensity LEDs/each optic Light colour	82 % 12 cd/lm 1 White	an 1300 ar 600 ar 600
Efficiency Peak intensity LEDs/each optic Light colour Required components:	82 % 12 cd/lm 1 White	er 330 er 650
Efficiency Peak intensity LEDs/each optic Light colour Required components:	82 % 12 cd/lm 1 White	20 300 40 40 40 40 40 40 40 40 40
Efficiency Peak intensity LEDs/each optic Light colour Required components: C14446_FLORENTI	82 % 12 cd/lm 1 White	500 00 00 00 00 00 00 00 00 00 00 00 00
Efficiency Peak intensity LEDs/each optic Light colour Required components: C14446_FLORENTI	82 % 12 cd/lm 1 White NA-SHD	24 ⁴ 25 ⁴ X
Efficiency Peak intensity LEDs/each optic Light colour Required components: C14446_FLORENTI	82 % 12 cd/lm 1 White NA-SHD	
Efficiency Peak intensity LEDs/each optic Light colour Required components: C14446_FLORENTI	82 % 12 cd/lm 1 White NA-SHD	24 ⁴ 25 ⁴ X
Efficiency Peak intensity LEDs/each optic Light colour Required components: C14446_FLORENTI	82 % 12 cd/lm 1 White NA-SHD NVSxE21A 16.0° / 32.0°	34 ⁴ 35 ⁴ 35 ⁴ 3
Efficiency Peak intensity LEDs/each optic Light colour Required components: C14446_FLORENTI	82 % 12 cd/lm 1 White NA-SHD NVSxE21A 16.0° / 32.0° 82 %	
Efficiency Peak intensity LEDs/each optic Light colour Required components: C14446_FLORENTI	82 % 12 cd/lm 1 White NA-SHD NVSxE21A 16.0° / 32.0° 82 % 10 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required components: C14446_FLORENTI	82 % 12 cd/lm 1 White NA-SHD NVSxE21A 16.0° / 32.0° 82 % 10 cd/lm 1	800 800 30 ⁴ 30 ⁴
Efficiency Peak intensity LEDs/each optic Light colour Required components: C14446_FLORENTI	82 % 12 cd/lm 1 White NA-SHD NVSxE21A 16.0° / 32.0° 82 % 10 cd/lm 1 White	800 800 30 ⁴ 30 ⁴
Efficiency Peak intensity LEDs/each optic Light colour Required components: C14446_FLORENTI	82 % 12 cd/lm 1 White NA-SHD NVSxE21A 16.0° / 32.0° 82 % 10 cd/lm 1 White	800 800 30 ⁴ 30 ⁴
Efficiency Peak intensity LEDs/each optic Light colour Required components: C14446_FLORENTI	82 % 12 cd/lm 1 White NA-SHD NVSxE21A 16.0° / 32.0° 82 % 10 cd/lm 1 White	500 500 500 500 500 500 500 500



OPTICAL RESULTS (SIMULATED):

Μ ΝΙCΗΙΛ		50 ⁴ 50 ³
LED	NWSx229A	
FWHM / FWTM	24.0° / 44.0°	
Efficiency	86 %	
Peak intensity	3.9 cd/lm	
LEDs/each optic	1	
Light colour	White	gr. gr.
Required components	s:	
C14446_FLOREN	ITINA-SHD	200
		107 - 07 - 1



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.

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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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