

PRODUCT DATASHEET FCA15451_FLORENTINA-1-M

FLORENTINA-1-M

~30°	medium	beam
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SPECIFICATION:

Dimensions	39.7 x 39.7 mm
Height	13 mm
Fastening	tape
ROHS compliant	yes 🛈



MATERIALS:

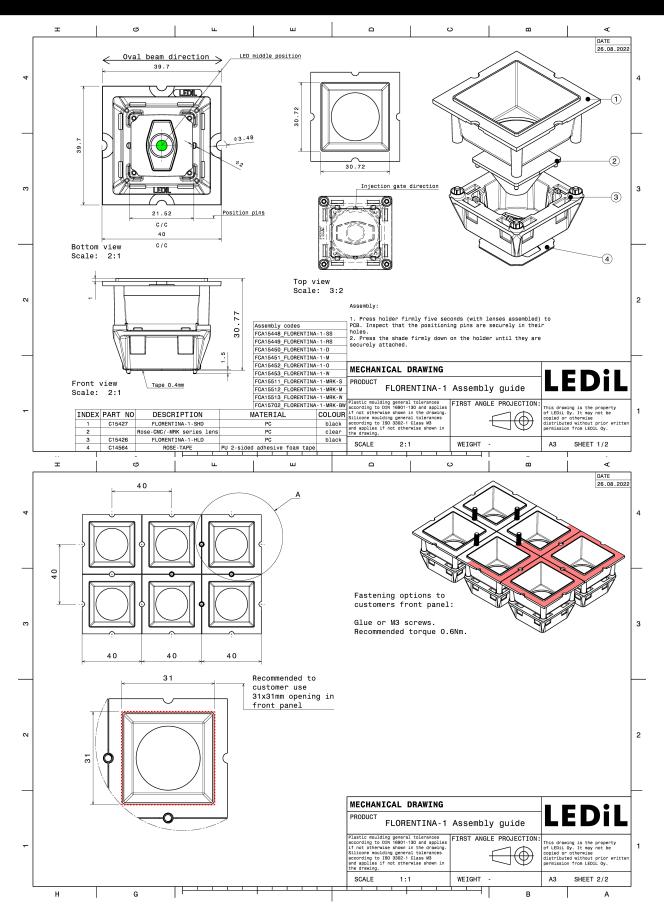
Component ROSE-CMC-M FLORENTINA-1-HLD ROSE-TAPE **Type** Single lens Holder Tape

Material	Colour	Finish
PC	clear	
PC	black	
Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FCA15451_FLORENTINA-1-M	Single lens	840		60	7.9
» Box size: 480 x 280 x 300 mm					

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



bridgelux.			90°	90*
LED	Bridgelux SMD 5050			
FWHM / FWTM	32.0° / 57.0°			
Efficiency	76 %		60°	60*
Peak intensity	2.2 cd/lm			
LEDs/each optic	1			
Light colour	White		954	45°
Required compone	ents:			1630
C15427_FLORE	ENTINA-1-SHD-60			
			300	36.
			15°	2080 35°
			90*	90*
LED	XHP35 HD		75°	
FWHM / FWTM	32.0° / 58.0°			
Efficiency	76 %		605	800 60°
Peak intensity	2.2 cd/lm		$\mathbb{E} = \{ X \mid X$	
LEDs/each optic	1			$ \land \land $
Light colour	White		954	45*
Required compone				1630
C15427_FLORE	ENTINA-1-SHD-60			
			30° 155	3640
			90*	90*
			90*	90*
LED	XHP35 HI 31.0° / 54.0°		29×	99°
LED FWHM / FWTM	31.0° / 54.0°		25	50
LED FWHM / FWTM Efficiency	31.0° / 54.0° 77 %		60 - 32 - 24 -	800
LED FWHM / FWTM Efficiency Peak intensity	31.0° / 54.0° 77 % 2.5 cd/lm		80. 32. 25.	200 20 20 20*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	31.0° / 54.0° 77 % 2.5 cd/lm 1		84 84 32 84	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	31.0° / 54.0° 77 % 2.5 cd/lm 1 White		gr 92 94	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	31.0° / 54.0° 77 % 2.5 cd/lm 1 White		0, 0, 32. 32.	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	31.0° / 54.0° 77 % 2.5 cd/lm 1 White		82. 83. 33.	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	31.0° / 54.0° 77 % 2.5 cd/lm 1 White		30 ⁵	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 54.0° 77 % 2.5 cd/lm 1 White		gr gr gr	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 54.0° 77 % 2.5 cd/lm 1 White ents:		54 54 54 55 55 55 55 55 55 55	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 54.0° 77 % 2.5 cd/lm 1 White ents:		25° 25° 25° 25°	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREECS LED FWHM / FWTM	31.0° / 54.0° 77 % 2.5 cd/lm 1 White ents: XP-G2 31.0° / 53.0°		25 25 25 25 25 25 25 25 25 25 25 25 25 2	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREECS LED FWHM / FWTM Efficiency	31.0° / 54.0° 77 % 2.5 cd/lm 1 White ents: XP-G2 31.0° / 53.0° 78 %		81 22 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Eccess LED FWHM / FWTM Efficiency Peak intensity	31.0° / 54.0° 77 % 2.5 cd/lm 1 White ents: XP-G2 31.0° / 53.0° 78 % 2.6 cd/lm			100 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone CREECS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	31.0° / 54.0° 77 % 2.5 cd/lm 1 White ents: XP-G2 31.0° / 53.0° 78 % 2.6 cd/lm 1			100 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	31.0° / 54.0° 77 % 2.5 cd/lm 1 White ents: XP-G2 31.0° / 53.0° 78 % 2.6 cd/lm 1 White			2630 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 compone EEE EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 54.0° 77 % 2.5 cd/lm 1 White ents: XP-G2 31.0° / 53.0° 78 % 2.6 cd/lm 1 White ents:			2000 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone EEE EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 54.0° 77 % 2.5 cd/lm 1 White ents: XP-G2 31.0° / 53.0° 78 % 2.6 cd/lm 1 White			2000 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone EEE EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 54.0° 77 % 2.5 cd/lm 1 White ents: XP-G2 31.0° / 53.0° 78 % 2.6 cd/lm 1 White ents:			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone EEE EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 54.0° 77 % 2.5 cd/lm 1 White ents: XP-G2 31.0° / 53.0° 78 % 2.6 cd/lm 1 White ents:			



		50°
LED	XP-L HD	
FWHM / FWTM	31.0° / 56.0°	
Efficiency	76 %	60 ⁴ 60 ⁴
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	gr gr
Required compone	ents:	
C15427_FLORE	ENTINA-1-SHD-60	
		30° 2000 30°
		20° 20°
LED	XP-L2	
FWHM / FWTM	32.0° / 57.0°	
Efficiency	74 %	$ = 1 \times 1$
Peak intensity	2.2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr or
Required compone	ents:	
	ENTINA-1-SHD-60	
		34 ⁴
		12°
LED	XT-E	
FWHM / FWTM	×1-⊑ 31.0° / 52.0°	25
Efficiency	76 %	
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
	ENTINA-1-SHD-60	
		30" 30
	FDC	**************************************
		<u>90*</u>
LED	LUXEON 3030 2D (Round LES)	27
FWHM / FWTM	31.0° / 51.0°	
Efficiency	80 %	50
Peak intensity	2.8 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required compone		
	ants.	
	ans.	200
	nis.	210
	nits.	30° 100 00 100 30°



🕐 LUMIL	EDS	90 ⁴ 90 ⁴
LED	LUXEON 5050 Round LES	
FWHM / FWTM	31.0° / 56.0°	75
Efficiency	77 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	ar ar
Required compone		100
	NTINA-1-SHD-60	
_		
		304 2430 314
		137 0 157
UMIL	EDS	90 ⁴ 90 ⁴
LED	LUXEON TX	
FWHM / FWTM	31.0° / 53.0°	
Efficiency	77 %	500
Peak intensity	2.6 cd/lm	
LEDs/each optic	1	
Light colour	White	a. 100 a.
Required compone	nts:	
C15427_FLORE	NTINA-1-SHD-60	
		2410
		30"
LED	NF2x757G	
FWHM / FWTM	31.0° / 52.0°	77
Efficiency	81 %	
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	
Light colour	White	e* <u>- 1600</u> e*
Required compone	nts:	
	NTINA-1-SHD-60	
		- 24/0
		30"
		157 ⁴ 4 ⁴ 155
ØNICHI/		90 ⁴
LED	NF2x757G	70
FWHM / FWTM	31.0° / 52.0°	
Efficiency	82 %	
Peak intensity		
	2.8 cd/lm	
LEDs/each optic	1	
LEDs/each optic Light colour	1 White	er 100 er
LEDs/each optic Light colour Required compone	1 White nts:	er. 100 er.
LEDs/each optic Light colour Required compone	1 White	er 200 er
LEDs/each optic Light colour Required compone	1 White nts:	
LEDs/each optic Light colour Required compone	1 White nts:	



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ØNICHI/	k i i i i i i i i i i i i i i i i i i i	90° 90°
LED	NVSW319B	
FWHM / FWTM	31.0° / 56.0°	
Efficiency	79 %	
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
C15427_FLORE	ENTINA-1-SHD-60	
		300
ØNICHI/		137 of 137
		50 ⁴
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	31.0° / 53.0°	
Efficiency	78 %	60
Peak intensity	2.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
C15427_FLORE	ENTINA-1-SHD-60	
		202
		20 ⁴ 15 ⁵ 0 ⁴ 15 ⁷
OSRAM Opto Semiconductors		90 ⁴
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	31.0° / 53.0°	
Efficiency	79 %	
Peak intensity	2.6 cd/lm	
LEDs/each optic	1	
Light colour	White	g* /
Required compone	ents:	
C15427_FLORE	ENTINA-1-SHD-60	$\times \wedge \times$
		200
		30° / 30
OSRAM		15" o ⁴ 15"
Opto Semiconductors		
	OSLON Square EC	
FWHM / FWTM	31.0° / 53.0°	
Efficiency Book intensity	78 %	600 (C C C C C C C C C C C C C C C C C C
Peak intensity	2.6 cd/lm	
LEDs/each optic	1 W/bite	
Light colour	White	
Required compone		
C15427_FLORE	ENTINA-1-SHD-60	
		30 ² 200 30 ² 200



OSRAM Opto Semiconductors			90* 90*
LED	OSLON SSL 150		
FWHM / FWTM	31.0° / 52.0°		73
Efficiency	78 %		
Peak intensity	2.7 cd/lm		
LEDs/each optic	1		
Light colour	White		47" 4500 43°
Required compone	nts:		
C15427_FLORE	NTINA-1-SHD-60		
			2430
			305
<u></u> SΛΜ SI 			13% 0% 15%
			90*
LED	LM561B		
FWHM / FWTM	31.0° / 53.0°		
Efficiency	80 %		60° 60°
Peak intensity	2.7 cd/lm		
LEDs/each optic	1		
Light colour	White		43° 43°
Required compone			
C15427_FLORE	NTINA-1-SHD-60		
			2430
			30° 30° 30° 30°
			90*
SEOUL SEMICONDUCTOR	SEOUL 5630		94
SEOUL SEMICONDUCTOR	SEOUL 5630 31.0° / 52.0°		30- 20- 20-
seoul semiconductor LED FWHM / FWTM			90°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	31.0° / 52.0°		90°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	31.0° / 52.0° 83 %		60° 60°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	31.0° / 52.0° 83 % 2.8 cd/lm		90° 90° 73° 000 60° 60° 40° 60°
seoul semconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	31.0° / 52.0° 83 % 2.8 cd/lm 1 White		90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 52.0° 83 % 2.8 cd/lm 1 White		99° 99° 99° 99° 99° 99° 99° 99° 99° 99°
seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts:		99* 92* 99* 92* 90* 90* 90* 90* 90* 90* 90* 90* 90* 90*
seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts:		99* 92* 75° 90° 92* 90° 90° 92* 90° 90° 92* 90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15427_FLORE	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts:		
stout SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15427_FLORE	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts:		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15427_FLORE	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts: NTINA-1-SHD-60		
stout SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15427_FLORE	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts: NTINA-1-SHD-60 Z8Y22P		
stout SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15427_FLORE SEOUL SEMICONDUCTOR LED FWHM / FWTM	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts: NTINA-1-SHD-60		
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15427_FLORE SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts: INTINA-1-SHD-60 Z8Y22P 30.0° / 52.0° 74 %		200 200 200 200 200 200 200 200
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15427_FLORE SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts: NTINA-1-SHD-60 Z8Y22P 30.0° / 52.0°		200 200 200 200 200 200 200 200
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15427_FLORE SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts: INTINA-1-SHD-60 Z8Y22P 30.0° / 52.0° 74 % 2.4 cd/lm 1		
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15427_FLORE SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts: INTINA-1-SHD-60 Z8Y22P 30.0° / 52.0° 74 % 2.4 cd/lm 1 White		200 200 200 200 200 200 200 200
stour, JEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15427_FLORE stour, JEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts: INTINA-1-SHD-60 Z8Y22P 30.0° / 52.0° 74 % 2.4 cd/lm 1 White nts:		
stour, JEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15427_FLORE stour, JEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts: INTINA-1-SHD-60 Z8Y22P 30.0° / 52.0° 74 % 2.4 cd/lm 1 White		
seou semonourron LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15427_FLORE SEOU SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	31.0° / 52.0° 83 % 2.8 cd/lm 1 White nts: INTINA-1-SHD-60 Z8Y22P 30.0° / 52.0° 74 % 2.4 cd/lm 1 White nts:		



OPTICAL RESULTS (SIMULATED):

		80° 80°
LEDS FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components C15427_FLORENT		
SAMSU LED FWHM / FWTM	NG LH351B 31.0° / 55.0°	90°
Efficiency Peak intensity LEDs/each optic Light colour	81 % 2.6 cd/lm 1 White	
Required components C15427_FLOREN	5:	200
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	Z5M3 30.0° / 54.0° 84 % 2.7 cd/lm 1 White S:	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	Z5M4 31.0° / 53.0° 85 % 2.8 cd/lm 1 White S:	90 90 97 97 90 90 90 90 90 90 90 90 90 90 90 90 90



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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