

DATA SHEET

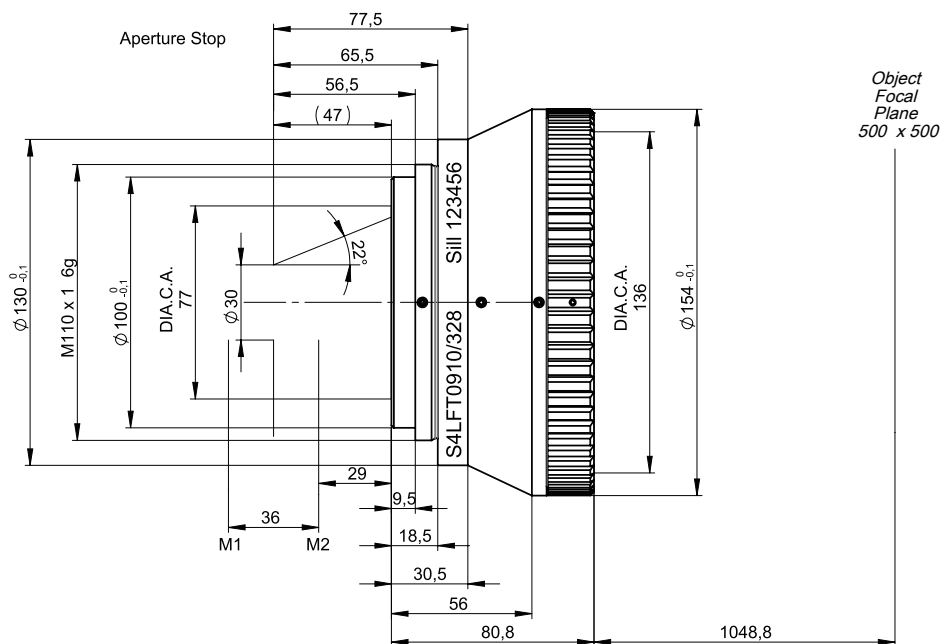
S4LFT0910/328

F-Theta
standard - fused silica
1030 - 1090 nm



illustration only

outline drawing

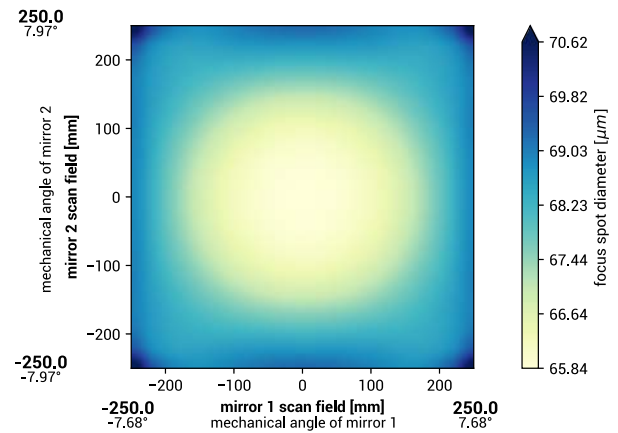


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specifications

article number	S4LFT0910/328
design wavelength [nm]	1064
effective focal length [mm]	910.0
working distance [mm]	1048.8
max. entrance beam-Ø [mm]	30.0
aperture stop distance [mm]	47.0
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	500 x 500 29.0 / 65.0
max. telecentricity error [°]	16.2
total transmission [%]	> 97
absorption [ppm]	83
lens material	fused silica
LIDT (coating)	5.0 J/cm ²
SP and USP usable	yes
weight [kg]	1.8
cover glass	S4LPG2175/328
cleanliness	not specified

spot



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 20.0 mm diameter at $1/e^2$, clipped at 30.0 mm field size and mirror distances as given above for a two mirror scan system

back reflection positions

back reflections [mm] for 1064	
1.98	
11.27	
11.56	
295.76	
338.95	
339.98	
0.00	
0.00	
0.00	
0.00	

remarks

The stated values are based on a vignetting of less than 1 %.

Effective focal length and working distance have a tolerance of +/- 1.5 %.

Absorption tolerance +/- 25 %. Absorption may increase. Correct cleaning establishes original condition.