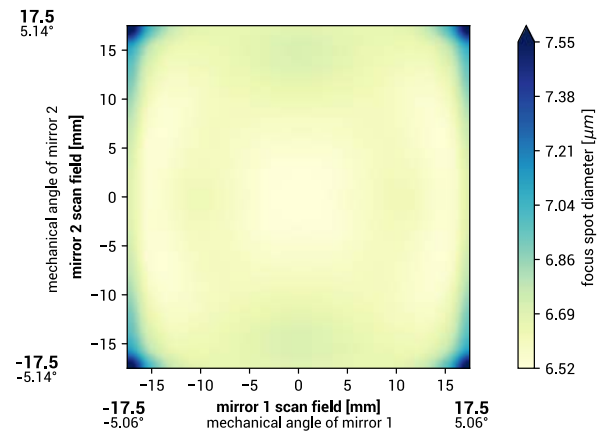


DATA SHEET

specifications

article number	S4LFT4010/075
design wavelength [nm]	355
effective focal length [mm]	100.2
working distance [mm]	132.0
max. entrance beam-Ø [mm]	10.0
aperture stop distance [mm]	34.6
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	35 x 35 26.6 / 42.6
max. telecentricity error [°]	1.2
total transmission [%]	> 97
absorption [ppm]	not specified
lens material	fused silica
LIDT (coating)	1.0 J/cm ² per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	1.2
cover glass	S4LPG2250/075
cleanliness	not specified

spot



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 10.0 mm diameter at $1/e^2$, clipped at 10.0 mm field size and mirror distances as given above for a two mirror scan system

back reflection positions

back reflections [mm] for 355	
0.31	
1.04	
2.32	
3.21	
10.67	
13.09	
88.13	
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.