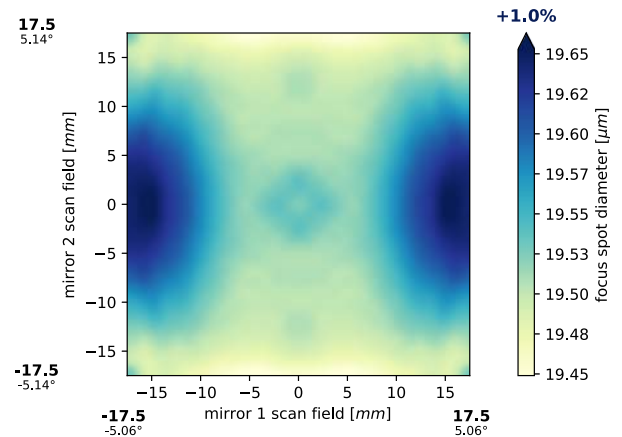


specifications

article number	S4LFT4010/328
design wavelength [nm]	1064
effective focal length [mm]	100.3
max. entrance beam- \emptyset [mm]	10.0
optical scan angle [\pm°]	14.4
scan length [mm] (1 mirror system)	49.5
aperture stop distance [mm]	32.0
working distance [mm]	129.8
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	35 x 35 24.0 / 40.0
max. telecentricity error [$^\circ$]	1.3
total transmission [%]	> 98
lens material	fused silica
LIDT (coating)	5.0 J/cm ² per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	1.1
cover glass	S4LPG2250/328
absorption [ppm]	106
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 position

back reflection [mm] for 1064	
0.54	
1.98	
10.66	
12.02	
72.63	
0.00	
0.00	
0.00	
0.00	
0.00	

notes

The values given assume a vignetting of less than 1 %

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

Absorption tolerance +/- 25 %. Absorption may degrade over time, correct cleaning is able to reset to factory condition.