

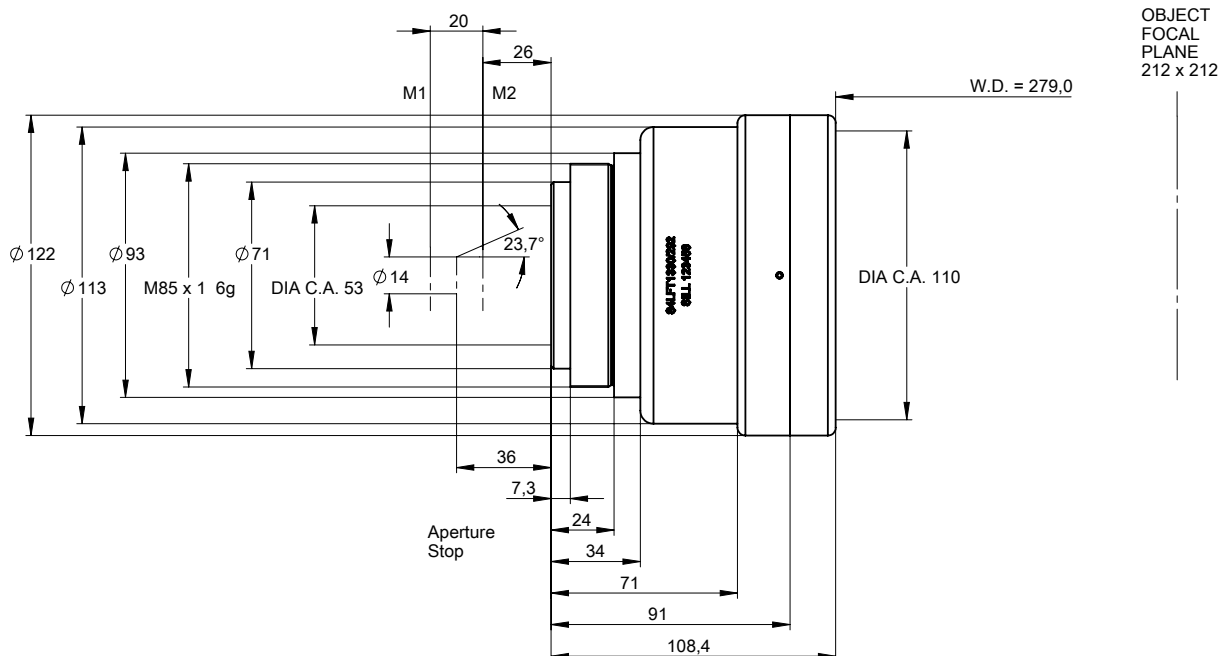
DATA SHEET

S4LFT1330/292

F-Theta
standard - fused silica
515 - 545 nm



outline drawing

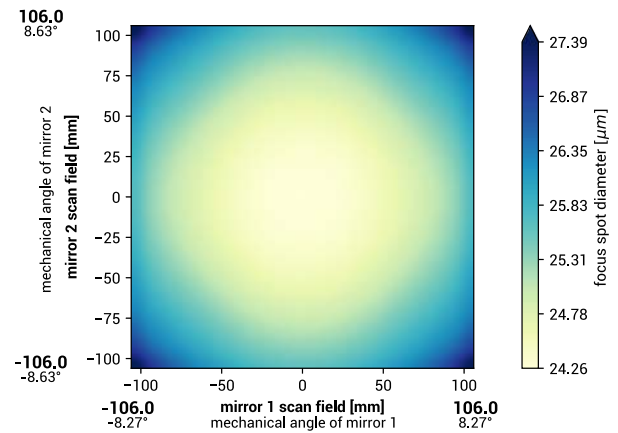


DATA SHEET

specifications

article number	S4LFT1330/292
design wavelength [nm]	532
effective focal length [mm]	347.9
working distance [mm]	279.0
max. entrance beam-Ø [mm]	14.0
aperture stop distance [mm]	36.0
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	212 x 212 26.0 / 46.0
max. telecentricity error [°]	20.3
total transmission [%]	> 97
absorption [ppm]	not specified
lens material	fused silica
LIDT (coating)	2.5 J/cm ² per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	1.5
cover glass	S4LPG4160/292
cleanliness	not specified

spot



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 14.0 mm diameter at $1/e^2$, clipped at 14.0 mm field size and mirror distances as given above for a two mirror scan system

back reflection positions

back reflections [mm] for 532	
4.37	
37.08	
117.81	
119.36	
186.35	
28320.00	
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.