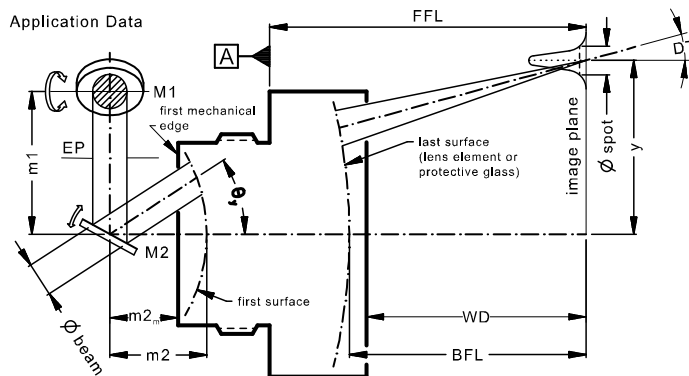


# LINOS F-Theta-Ronar Lens

**f = 340mm, 1030-1080nm, fused silica, low absorption**



Part number	4401-546-000-26			
Design wavelength	$\lambda$	(nm)	1064	
Effective focal length	EFL	(mm)	340.2	
Back focal length	BFL	(mm)	444.5	
Working distance	WD	(mm)	441.6	
Flange focal length	FFL	(mm)	515.0	
Beam diameter 1/e <sup>2</sup> truncated	$\varnothing_{\text{beam}}$	(mm)	14.0	20.0
Recommended mirror distance m1	m1	(mm)	17.0	25.6
Recommended mirror distance m2	m2	(mm)	28.5	26.3
Recommended mirror distance m2 <sub>mechanical</sub>	m2 <sub>m</sub>	(mm)	22.5	20.3
Scan angle	$\pm\theta_{x,y}$	(°)	17.7	15.1
Scan area (edge length of scan field)	2x * 2y	(mm <sup>2</sup> )	205 x 205	176 x 176
Spot diameter	$\varnothing_{\text{spot}}$	( $\mu\text{m}$ )	48	33
Telecentric error (maximum deviation)	DT	(°)	12.2	10.5
Total transmission @ 1030 - 1080nm	T	(%)	> 96	
Group delay dispersion at $\lambda$	GDD	(fs <sup>2</sup> )	1162	
LIDT coating @ 1064nm, 12ns, 100Hz		(J/cm <sup>2</sup> )	40	
LIDT coating @ 1030nm, 291fs, 5kHz		(J/cm <sup>2</sup> )	0.9	
Focused back reflex positions from first surface		(mm)	17.8; 39.0; 87.0; 87.6; 175.0	
Weight		(g)	1875	
Protective glass	PG		4401-513-006-00	

Optical parameters calculated for a 1-mirror system  
Subject to technical change

