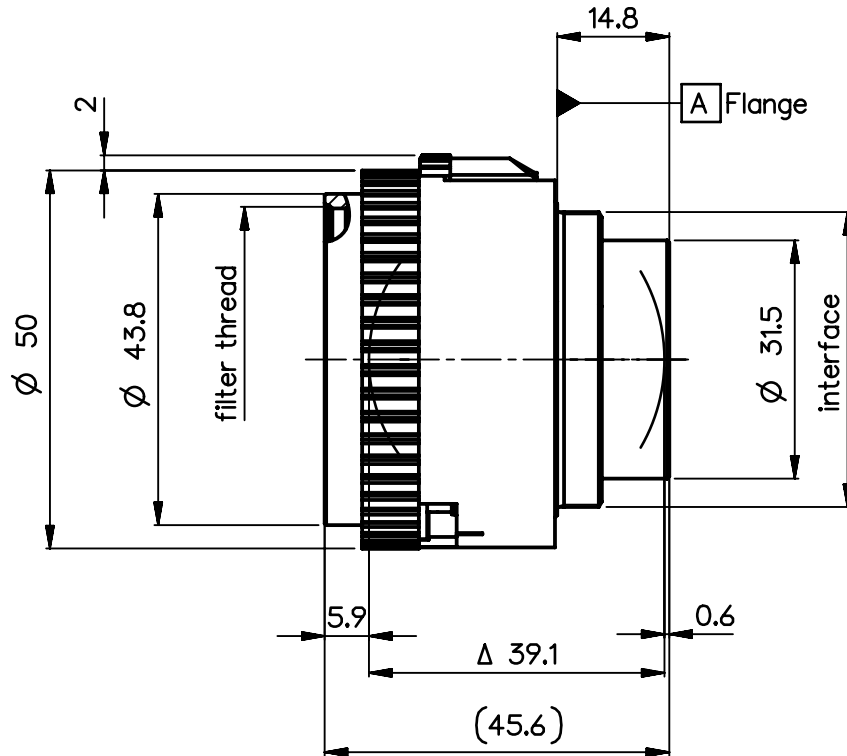
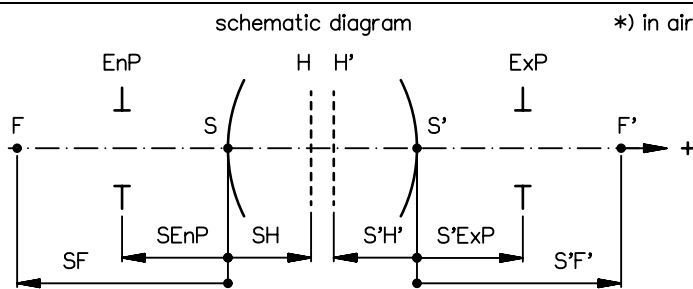


order number	lens name
0701-349-000-40	Apo-Rodagon-N 2.8/50



Specification		ON	7509-9021
image circle max. (mm)	44	working distance (mm)	122 - 1025
focal length f' (mm) *	50.2	interface	M39 x1/26" (Leica)
magnification β' [range]	-0.1 [-0.5 ... -0.05]	filter thread	M40.5 x0.5
spectral range λ (nm)	400 - 750	weight (g)	125

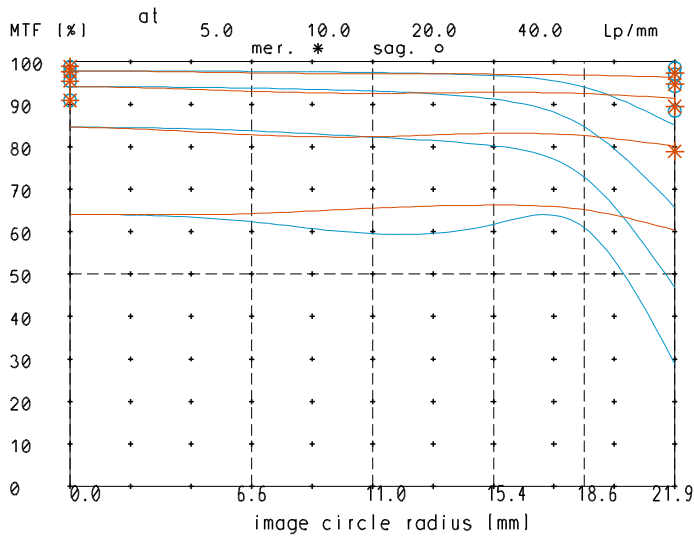


design includes CCD cover glass:		no					
SF (mm)	-27.2	f-stop	2.8	∅ EnP	17.1	∅ Exp	18.0
S'F' (mm) *	31.8						
HH' (mm) *	-2.3						
SH (mm)	23.0						
S'H' (mm) *	-18.4						
SEnP (mm)	20.6						
S'Exp (mm) *	-21.0						

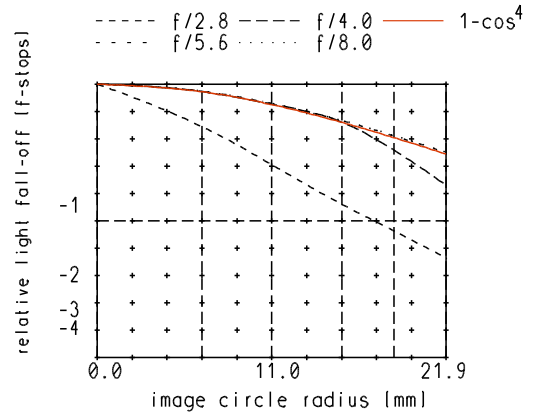
NX PROTECTIVE NOTE "DIN ISO 16016" TO BE OBSERVED	EU-D	AL-T1A	US-D	US-ML	not export controlled	
	REV	ECC	DATE	APPROVED	PDM Status	Freigabe
	b	Neue Urz.			SCALE	1:1
	c	+AP+EP	08.05.98	Roesl	MATERIAL	
	d	08-281	30.09.08	Strozew		
e	14-0184	18.08.14	Schiffle			
				TITLE Apo-Rodagon-N 2.8/50		
				DRAWING NO. 0701-349-100-40-0001e		
				SHEET 1 OF 1		
				REPLACES		
DIN A 4 ALL DIMENSIONS ARE IN MM AND INCLUDE SURFACE TREATMENT						

Apo-Rodagon-N₂.8/50

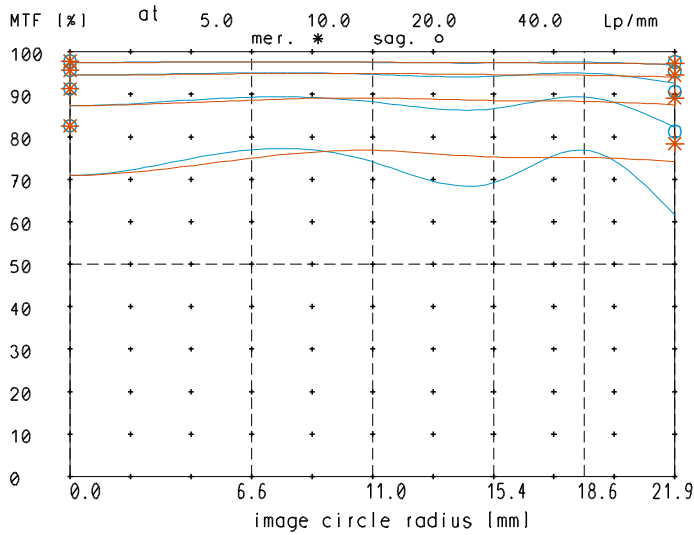
MTF at ratio 0.1x f/ 2.8



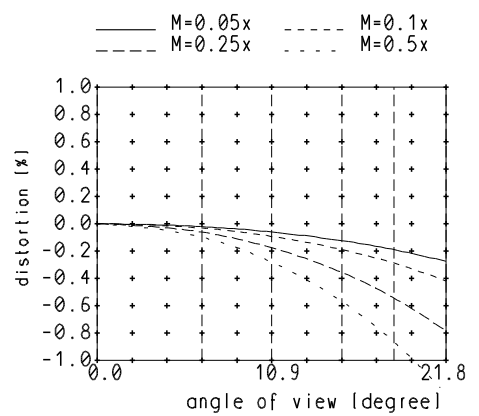
relative light fall-off at ratio 0.1x



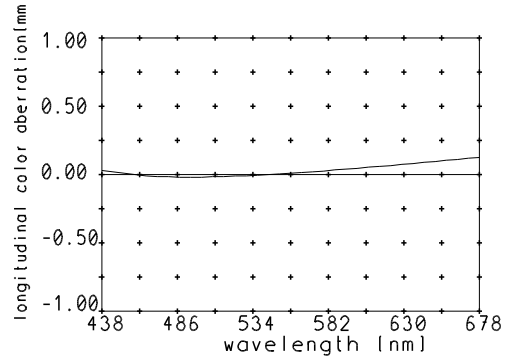
MTF at ratio 0.1x f/ 5.6



Distortion at ratio 0.05x to 0.5x



Longitudinal color aberration at ratio 0.1x



— sagittal. o Diffraction limited value
— meridional * Diffraction limited value

Named frequencies (line pairs/mm) in modular transfer function (MTF) as well as diagrams of relative light fall-off, distortion and longitudinal color aberration refer to film plane.