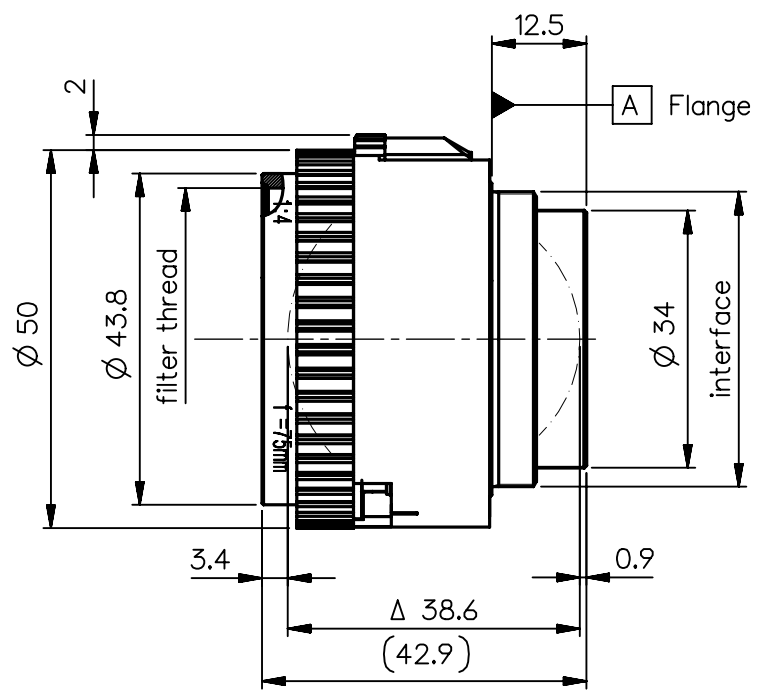
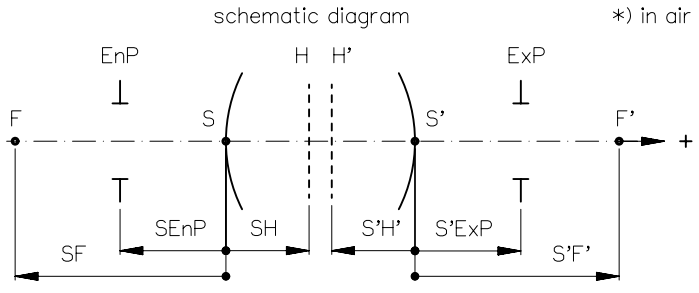


order number	lens name	azimuth
0703-101-000-40	Apo-Rodagon-D 2x 4.0/75	-



Specification		ON	7604-9341
image circle max. (mm)	86.2	working distance (mm)	138 - 232
focal length f' (mm)	74.7	interface	M39 x1/26" (Leica)
magnification β' [range]	-0.5 [-0.8 ... -0.4]	filter thread	M40.5 x0.5
spectral range λ (nm)	400 - 750	weight (g)	120



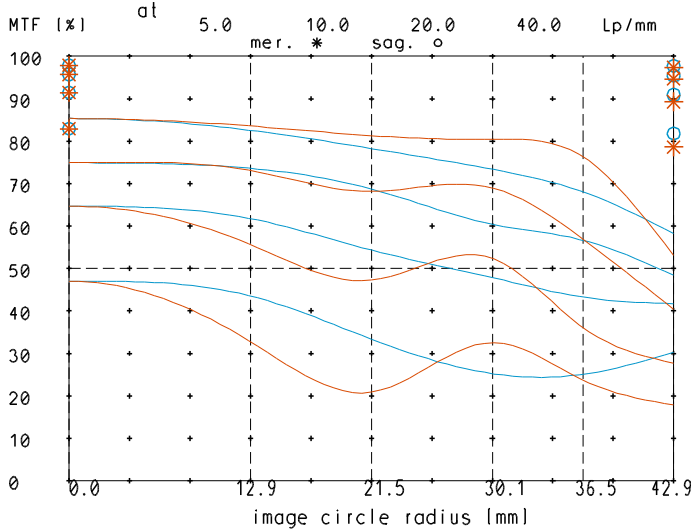
design includes CCD cover glass:		no		
SF (mm)	-48.0	f-stop	Ø EnP	Ø Exp
S'F' (mm) *	60.7	4.0	18.3	19.4
HH' (mm) *	-2.1	5.6	13.1	13.9
SH (mm)	26.7	8	9.2	9.7
S'H' (mm) *	-14.0	11	6.7	7.1
SEnP (mm)	22.4	16	4.6	4.9
S'Exp (mm) *	-18.6	22	3.3	3.5

NX PROTECTIVE NOTE "DIN ISO 16016" TO BE OBSERVED	EU-D	AL-T1A	US-D	US-ML	not export controlled		
	REV	ECC	DATE	APPROVED	GENERAL TOLERANCE OF DIMENSION, FORM, POS.	SURF. TREATMT	SCALE 1:1
	a	Neuausg	01.10.18	Riegg			MATERIAL
	BASIC TOLERANCING PRINCIPLE				TITLE		
				Apo-Rodagon-D 2x 4.0/75			
				FIRST ISSUE	DATE	NAME	
				CHKD	04.10.18	Stauder	
				DRAWING NO.			SHEET 1
DIN A 4				0703-101-100-00-0001a			OF 1
ALL DIMENSIONS ARE IN MM AND INCLUDE SURFACE TREATMENT				REPLACES 0703-028-100-00			

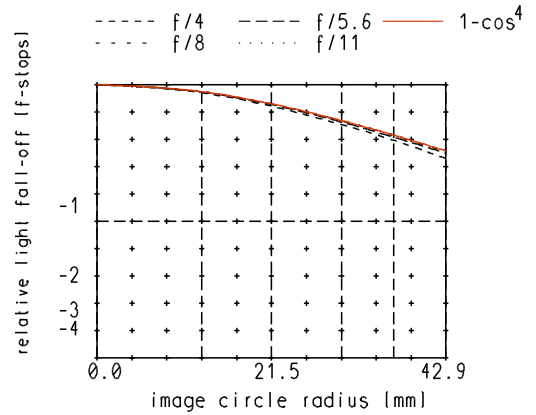


Apo-Rodagon-D_4/75_2x

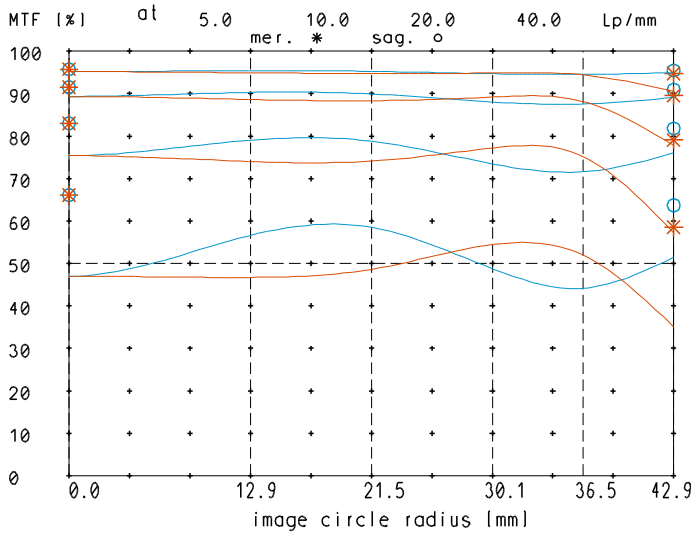
MTF at ratio -0.5 f/4



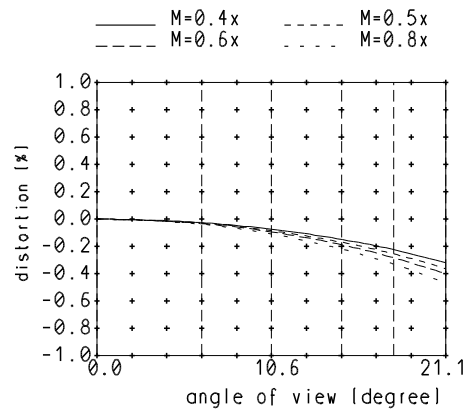
relative light fall-off at ratio -0.5



MTF at ratio -0.5 f/8

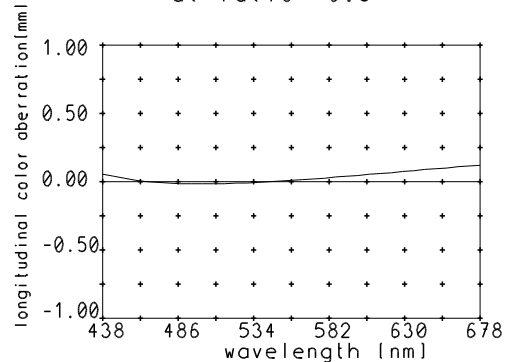


Distortion at ratio 0.4x to 0.8x



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

Longitudinal color aberration at ratio -0.5



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.