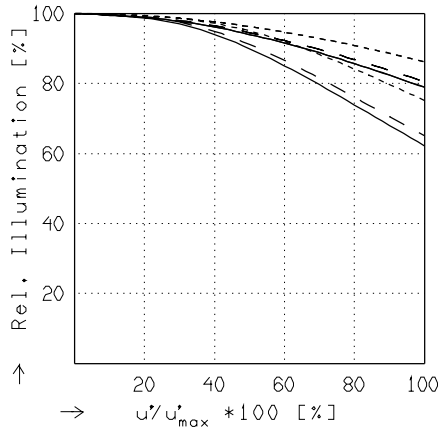
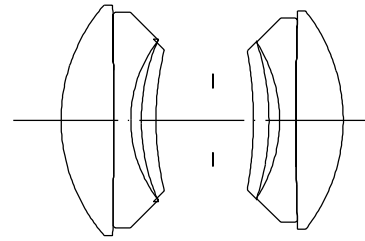


AP0-DIGITAR 5.6/120

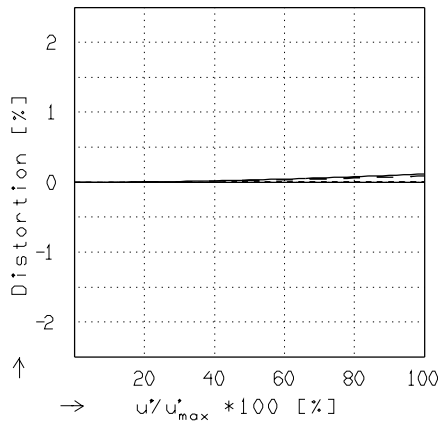
$$\begin{aligned}
 f' &= 124.9 \text{ mm} & \beta_p &= 0.984 \\
 s_F &= -103.7 \text{ mm} & s_{EP} &= 23.3 \text{ mm} \\
 s_{F'} &= 104.0 \text{ mm} & s_{A'P} &= -18.9 \text{ mm} \\
 HH' &= -2.4 \text{ mm} & \Sigma d &= 39.7 \text{ mm}
 \end{aligned}$$



RELATIVE ILLUMINATION

The relative illumination is shown for the given focal distances or magnifications.

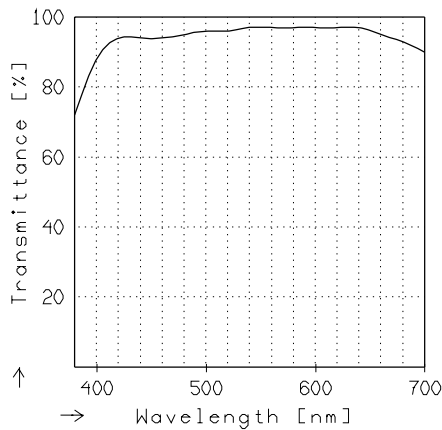
	f / 5.6	f / 8.0	f / 11.0
—	$\beta' = -0.0500$	$u'_{max} = 45.1$	$00' = 2751.$
- -	$\beta' = -0.1000$	$u'_{max} = 45.0$	$00' = 1509.$
----	$\beta' = -0.3333$	$u'_{max} = 45.0$	$00' = 664.$



DISTORTION

Distortion is shown for the given focal distances or magnifications. Positive values indicate pincushion distortion and negative values barrel distortion.

—	$\beta' = -0.0500$	$u'_{max} = 45.0$	$00' = 2751.$
- -	$\beta' = -0.1000$	$u'_{max} = 45.0$	$00' = 1509.$
----	$\beta' = -0.3333$	$u'_{max} = 45.0$	$00' = 664.$



TRANSMITTANCE

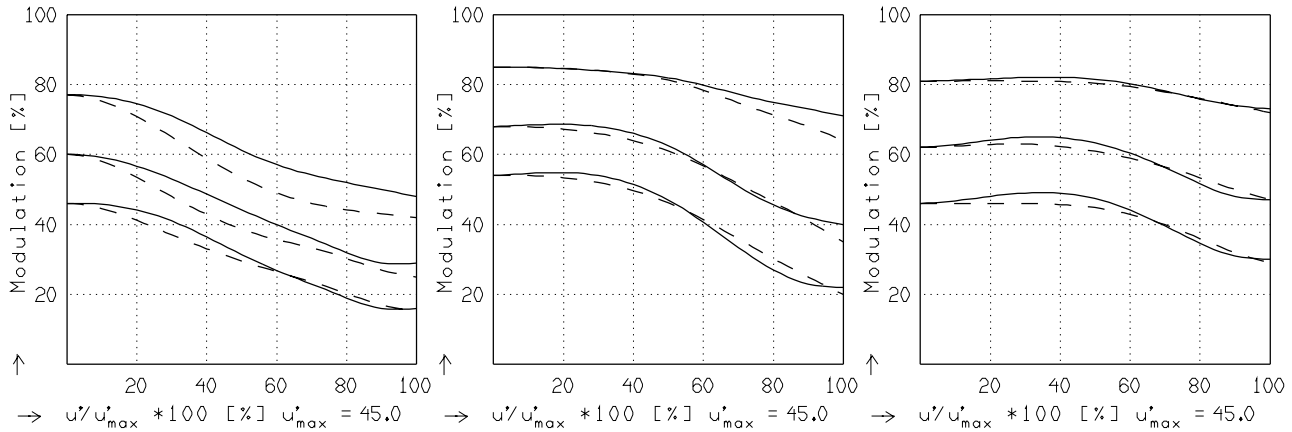
Relative spectral transmittance is shown with reference to wavelength.

APO-DIGITAR 5.6/120

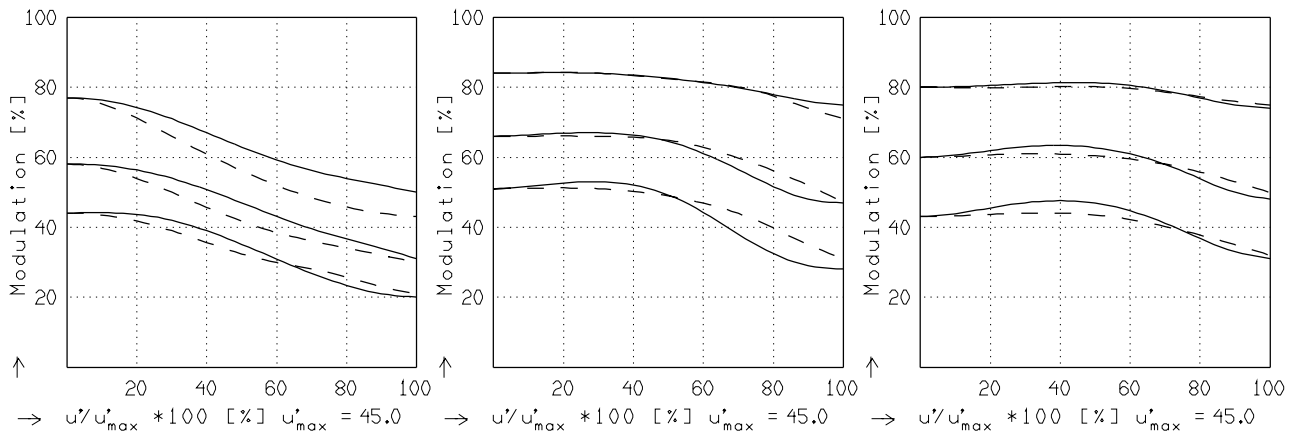
MODULATION with reference to the relative image height

Wavelength λ	[nm]	520	670	620	570	470	420
Spectral weighting	[%]	19.0	10.0	19.0	19.0	19.0	14.0
Spatial frequency R	[1/mm]	20	40	60			
Format	[mm X mm]	63.5	X	63.5			
Diagonal $2u'$	[mm]	90.0					

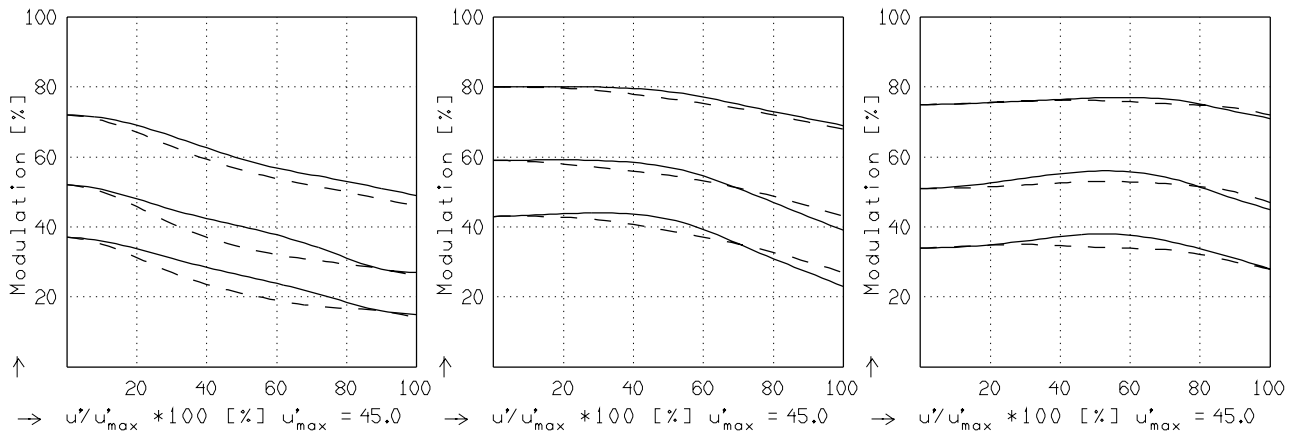
radial —
tangential - -



$f' = 124.9$ $f / 5.6$ $1/\beta' = -20.00$ $00' = 2751.$ $f' = 124.9$ $f / 8.0$ $1/\beta' = -20.00$ $00' = 2751.$ $f' = 124.9$ $f / 11.0$ $1/\beta' = -20.00$ $00' = 2751.$



$f' = 124.9$ $f / 5.6$ $1/\beta' = -10.00$ $00' = 1509.$ $f' = 124.9$ $f / 8.0$ $1/\beta' = -10.00$ $00' = 1509.$ $f' = 124.9$ $f / 11.0$ $1/\beta' = -10.00$ $00' = 1509.$



$f' = 124.9$ $f / 5.6$ $1/\beta' = -3.00$ $00' = 664.$ $f' = 124.9$ $f / 8.0$ $1/\beta' = -3.00$ $00' = 664.$ $f' = 124.9$ $f / 11.0$ $1/\beta' = -3.00$ $00' = 664.$

Focusing : MTF_{max} at $f / 5.6$, $R = 60$ 1/mm, $u'/u'_{max} = 0$