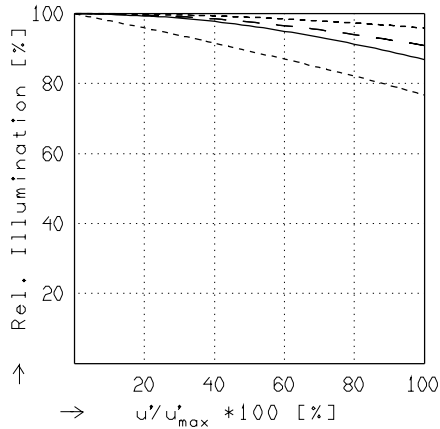
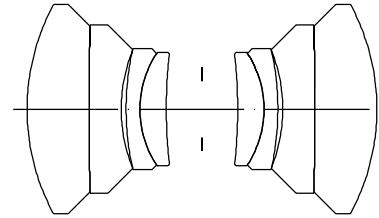


AP0-DIGITAR 5.6/120 M

$$\begin{aligned}
 f' &= 119.9 \text{ mm} & \beta_p &= 1.000 \\
 s_F &= -93.9 \text{ mm} & s_{EP} &= 26.0 \text{ mm} \\
 s_{F'} &= 93.9 \text{ mm} & s_{A'P} &= -26.0 \text{ mm} \\
 HH' &= -1.5 \text{ mm} & \Sigma d &= 50.5 \text{ mm}
 \end{aligned}$$

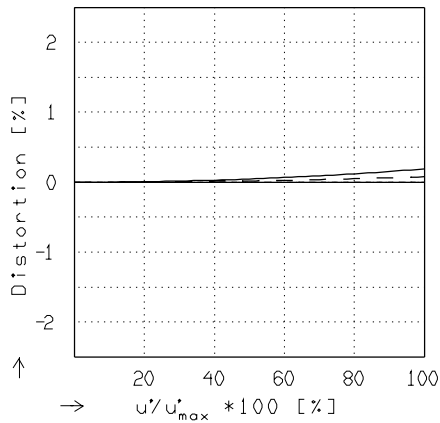


RELATIVE ILLUMINATION

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

$$f / 11.0$$

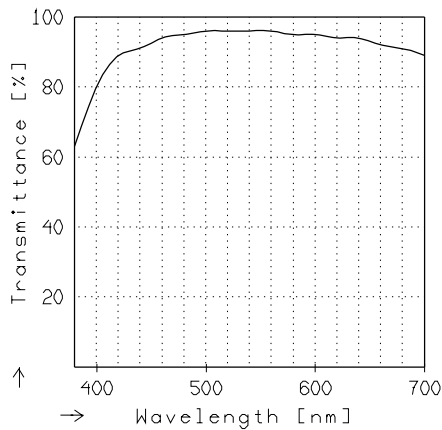
—	$\beta' = -0.1000$	$u'_{\max} = 35.1$	$00' = 1449.$
- -	$\beta' = -0.3333$	$u'_{\max} = 35.0$	$00' = 638.$
.....	$\beta' = -1.0000$	$u'_{\max} = 35.0$	$00' = 478.$



DISTORTION

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

—	$\beta' = -0.1000$	$u'_{\max} = 35.0$	$00' = 1449.$
- -	$\beta' = -0.3333$	$u'_{\max} = 35.0$	$00' = 638.$
.....	$\beta' = -1.0000$	$u'_{\max} = 35.0$	$00' = 478.$



TRANSMITTANCE

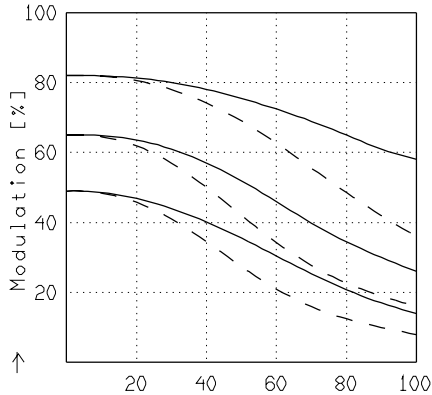
Relative spectral transmittance is shown with reference to wavelength.

APO-DIGITAR 5.6/120 M

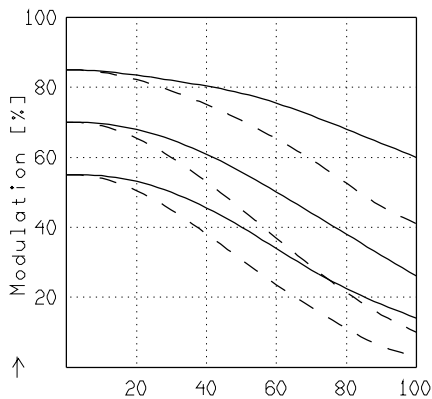
MODULATION with reference to the relative image height

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]	49.5	X	49.5			
Diagonal $2u'$	[mm]	70.0					

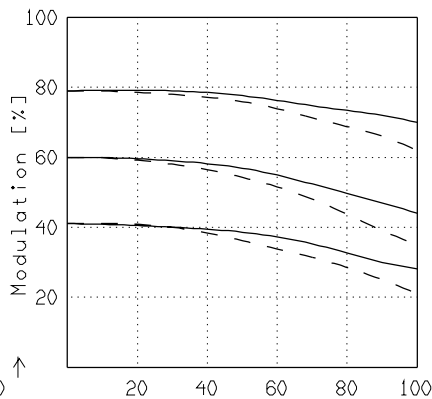
radial —
 tangential - -



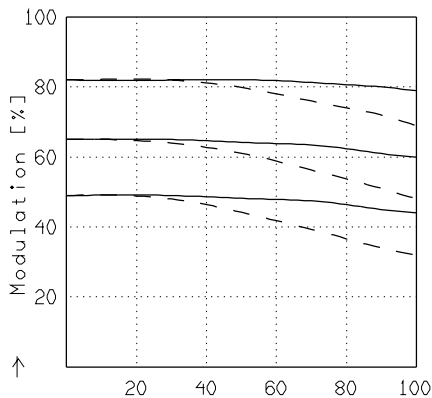
→ $u'/u'_{max} * 100$ [%] $u'_{max} = 35.0$
 $f' = 119.9$ $f/11.0$ $1/\beta' = -10.00$ $00' = 1449$.



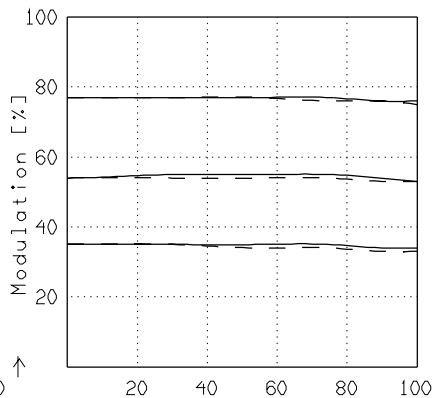
→ $u'/u'_{max} * 100$ [%] $u'_{max} = 35.0$
 $f' = 119.9$ $f/8.0$ $1/\beta' = -3.00$ $00' = 638$.



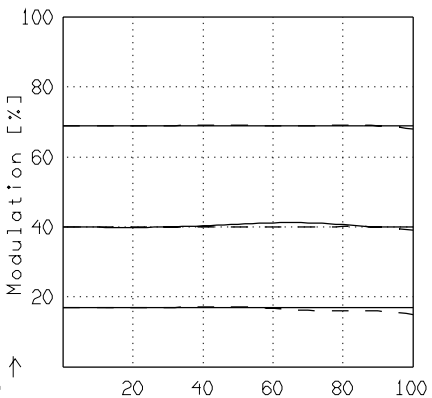
→ $u'/u'_{max} * 100$ [%] $u'_{max} = 35.0$
 $f' = 119.9$ $f/11.0$ $1/\beta' = -3.00$ $00' = 638$.



→ $u'/u'_{max} * 100$ [%] $u'_{max} = 35.0$
 $f' = 119.9$ $f/5.6$ $1/\beta' = -1.00$ $00' = 478$.



→ $u'/u'_{max} * 100$ [%] $u'_{max} = 35.0$
 $f' = 119.9$ $f/8.0$ $1/\beta' = -1.00$ $00' = 478$.



→ $u'/u'_{max} * 100$ [%] $u'_{max} = 35.0$
 $f' = 119.9$ $f/11.0$ $1/\beta' = -1.00$ $00' = 478$.

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

0.180

0.180

0.180

0.015

0.015

0.070

0.070

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