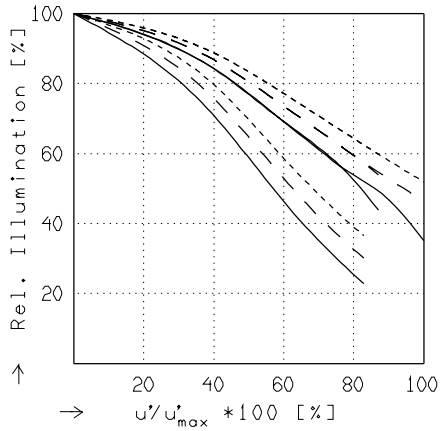
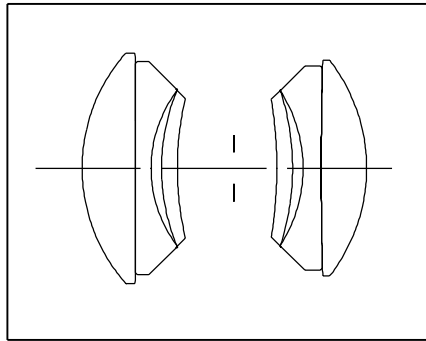


AP0-SYMMAR 5.6/100

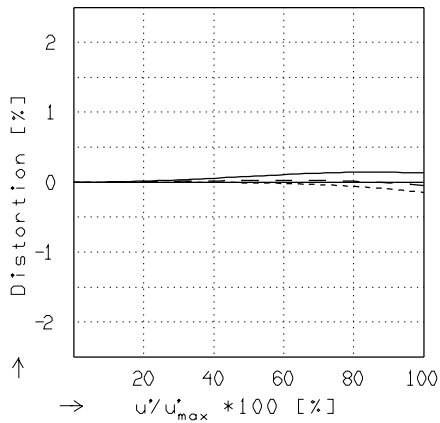
$f' = 99.8 \text{ mm}$ $\beta_p = 0.988$
 $s_F = -82.0 \text{ mm}$ $s_{EP} = 19.0 \text{ mm}$
 $s_{F'} = 82.9 \text{ mm}$ $s_{A'P} = -15.8 \text{ mm}$
 $HH' = -2.2 \text{ mm}$ $\Sigma d = 32.5 \text{ mm}$



RELATIVE ILLUMINATION

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

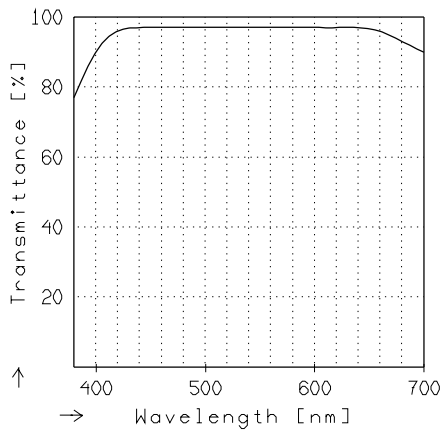
	$f / 5.6$	$f / 11.0$	$f / 22.0$
—	$\beta' = 0.0000$	$u'_{max} = 72.6$	$00' = \infty$
- -	$\beta' = -0.1000$	$u'_{max} = 72.5$	$00' = 1206.$
- · - ·	$\beta' = -0.2000$	$u'_{max} = 72.4$	$00' = 717.$



DISTORTION

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

—	$\beta' = 0.0000$	$u'_{max} = 72.6$	$00' = \infty$
- -	$\beta' = -0.1000$	$u'_{max} = 72.5$	$00' = 1206.$
- · - ·	$\beta' = -0.2000$	$u'_{max} = 72.4$	$00' = 717.$



TRANSMITTANCE

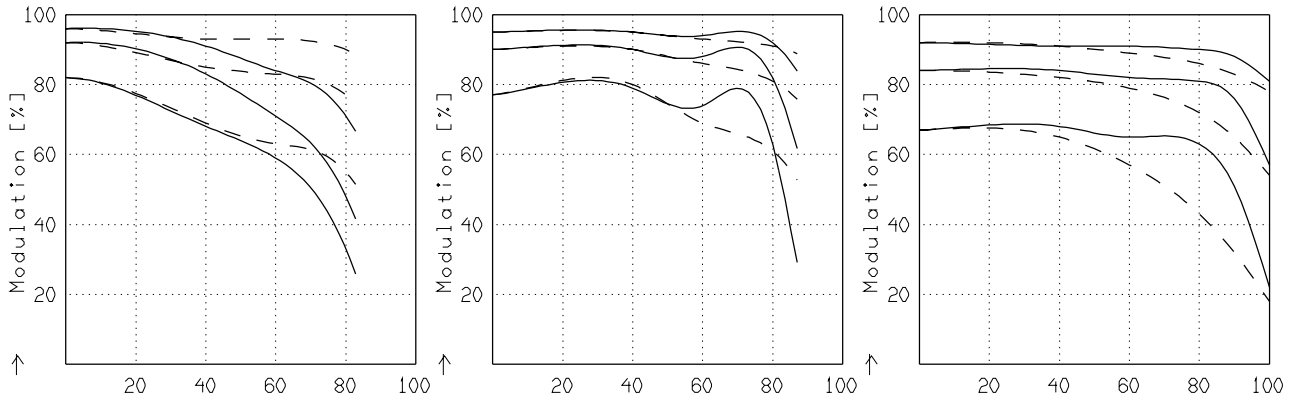
Relative spectral transmittance is shown with reference to wavelength.

APO-SYMMAR 5.6/100

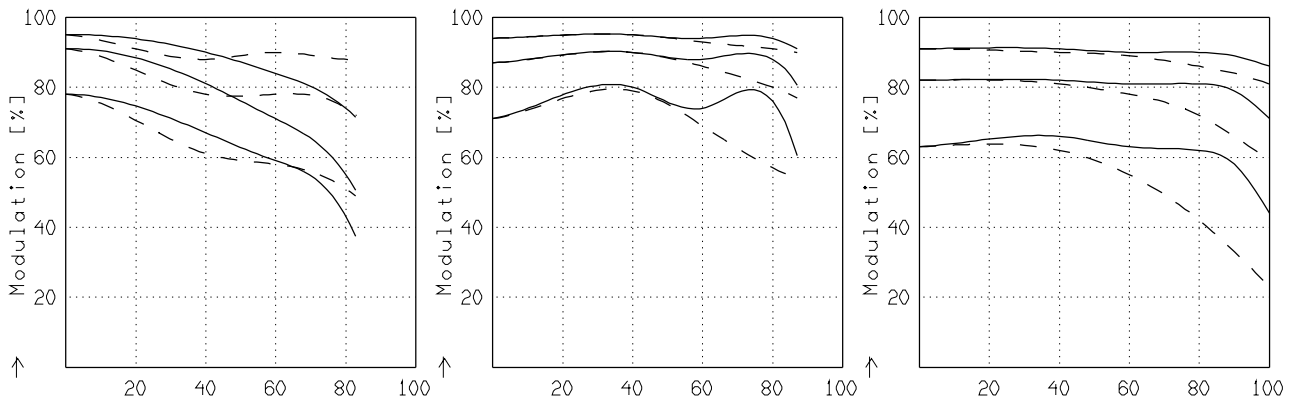
MODULATION with reference to the relative image height

Wavelength λ	[nm] :	546	644	588	480	436	405
Spectral weighting	[%] :	24.6	18.6	22.1	12.4	15.2	7.1
Spatial frequency R [1/mm]	:	5	10	20			
Image- \emptyset f / 5.6	[mm] :	120.1					
Image- \emptyset f / 22.0	[mm] :	145.0					

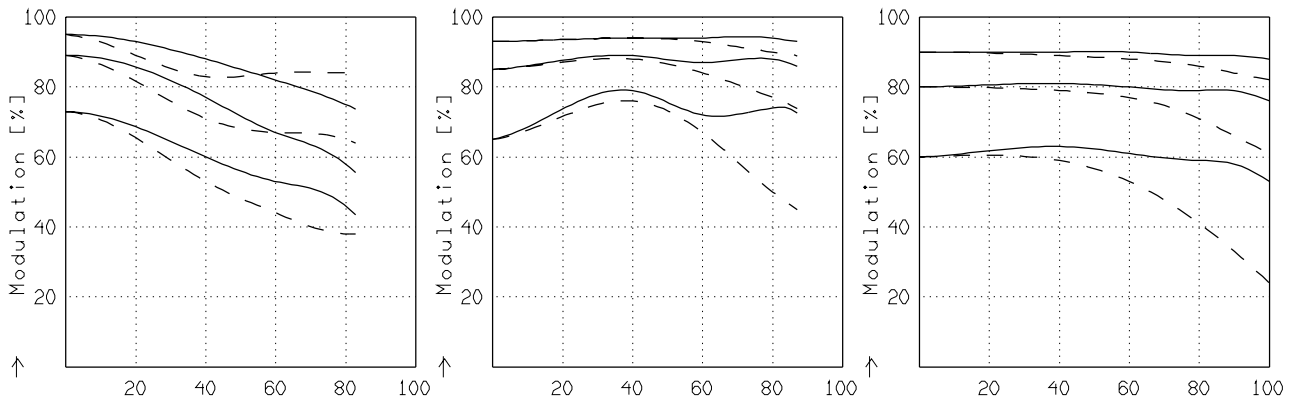
radial —
tangential - -



↑
→ $u'/u'_{max} * 100$ [%] $u'_{max} = 72.5$ → $u'/u'_{max} * 100$ [%] $u'_{max} = 72.5$ → $u'/u'_{max} * 100$ [%] $u'_{max} = 72.5$
 $f' = 99.8$ $f / 5.6$ $1/\beta^* = \infty$ $00^* = \infty$ $f' = 99.8$ $f / 11.0$ $1/\beta^* = \infty$ $00^* = \infty$ $f' = 99.8$ $f / 22.0$ $1/\beta^* = \infty$ $00^* = \infty$



↑
→ $u'/u'_{max} * 100$ [%] $u'_{max} = 72.5$ → $u'/u'_{max} * 100$ [%] $u'_{max} = 72.5$ → $u'/u'_{max} * 100$ [%] $u'_{max} = 72.5$
 $f' = 99.8$ $f / 5.6$ $1/\beta^* = -10.00$ $00^* = 1206.$ $f' = 99.8$ $f / 11.0$ $1/\beta^* = -10.00$ $00^* = 1206.$ $f' = 99.8$ $f / 22.0$ $1/\beta^* = -10.00$ $00^* = 1206.$



↑
→ $u'/u'_{max} * 100$ [%] $u'_{max} = 72.5$ → $u'/u'_{max} * 100$ [%] $u'_{max} = 72.5$ → $u'/u'_{max} * 100$ [%] $u'_{max} = 72.5$
 $f' = 99.8$ $f / 5.6$ $1/\beta^* = -5.00$ $00^* = 717.$ $f' = 99.8$ $f / 11.0$ $1/\beta^* = -5.00$ $00^* = 717.$ $f' = 99.8$ $f / 22.0$ $1/\beta^* = -5.00$ $00^* = 717.$

Focusing : MTF_{max} at $f / 5.6$, $R = 20$ 1/mm, $u'/u'_{max} = 0$

