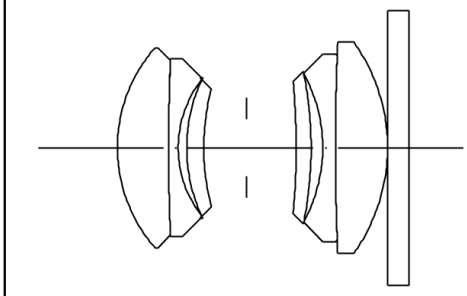
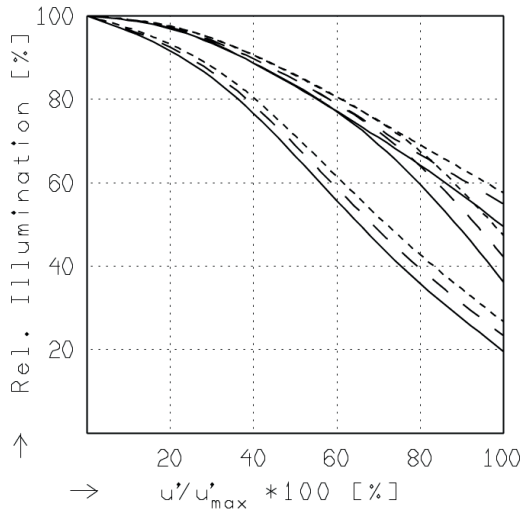
Schneider ALPA Apo-Helvetar 5.6/75 mm
Schneider Apo-Digitar 5.6/72 mm

f'	=	74.8 mm	β'_P	=	0.987
s_F	=	-62.8 mm	s_{EP}	=	13.0 mm
s'_F	=	58.5 mm	s'_{AP}	=	-15.3 mm
HH'	=	-0.9 mm	Σd	=	27.3 mm

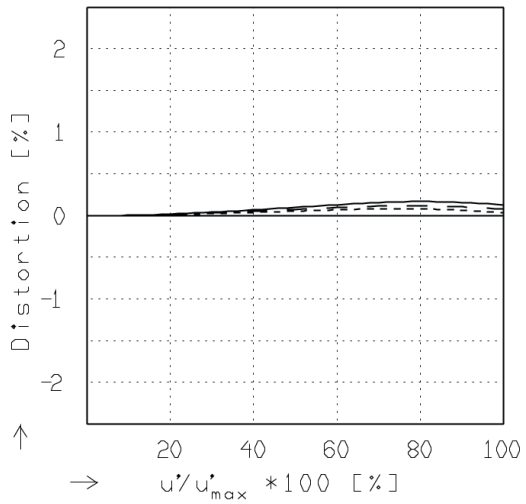




RELATIVE ILLUMINATION

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

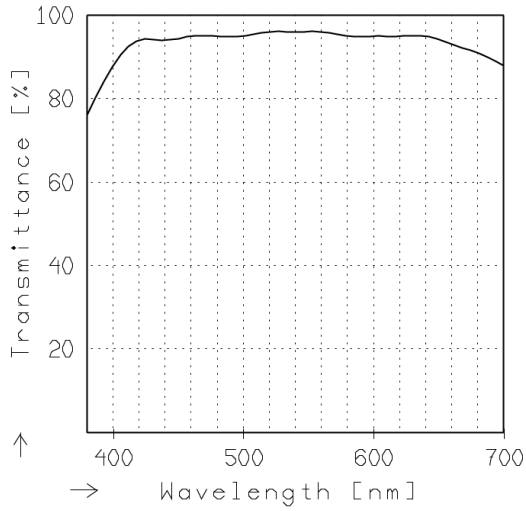
	f / 5.6	f / 8.0	f / 11.0
——	$\beta' = 0.0000$	$u'_{max} = 45.1$	$OO' = \infty$
— —	$\beta' = -0.0500$	$u'_{max} = 45.0$	$OO' = 1648.$
-----	$\beta' = -0.1000$	$u'_{max} = 45.0$	$OO' = 904.$



DISTORTION

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

——	$\beta' = 0.0000$	$u'_{max} = 45.0$	$OO' = \infty$
— —	$\beta' = -0.0500$	$u'_{max} = 45.0$	$OO' = 1648.$
-----	$\beta' = -0.1000$	$u'_{max} = 45.0$	$OO' = 904.$



TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.

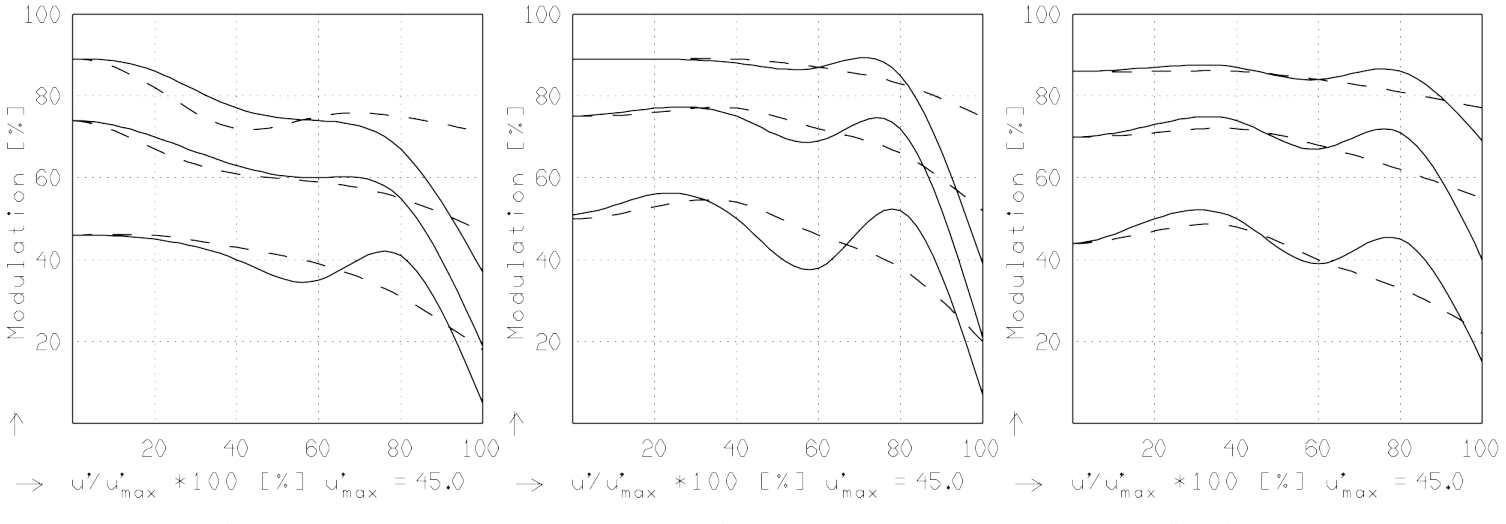
Jos. Schneider Optische Werke GmbH
Ringstrasse 132 55543 Bad Kreuznach Germany

Schneider ALPA Apo-Helvetar 5.6/75 mm
Schneider Apo-Digitar 5.6/72 mm

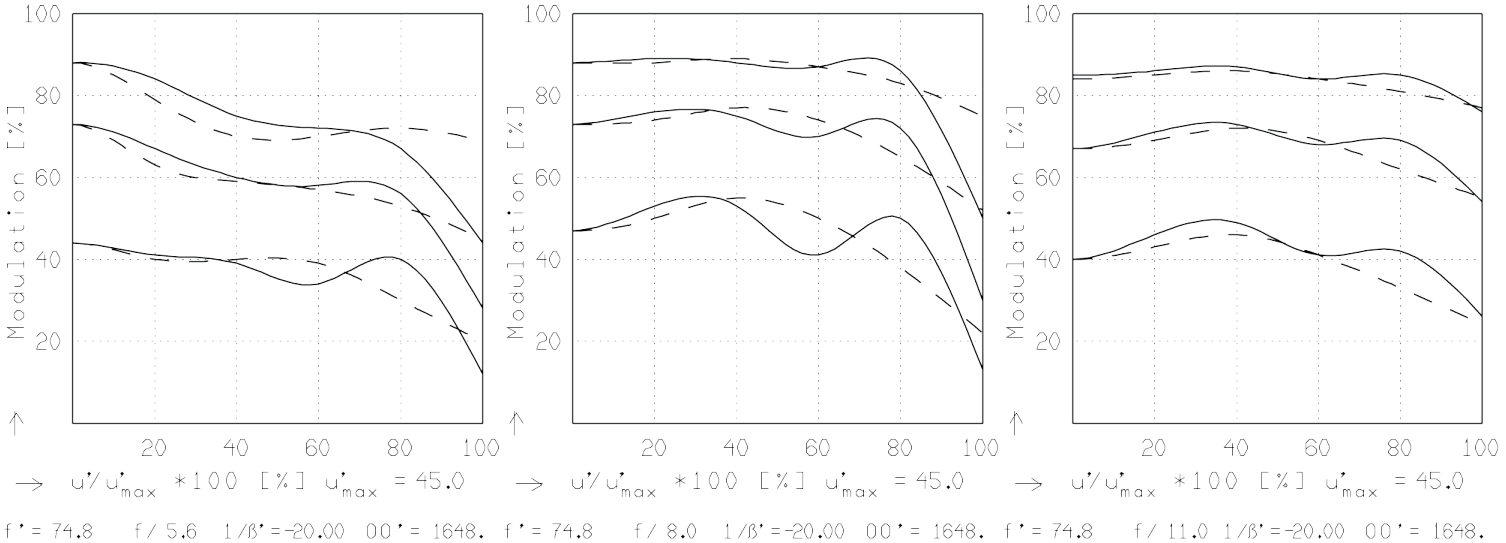
MODULATION with reference to the relative image height

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] :	15	30	60			
Image-Ø f / 5.6		[mm] :	90.0					
Image-Ø f / 11.0		[mm] :	90.0					

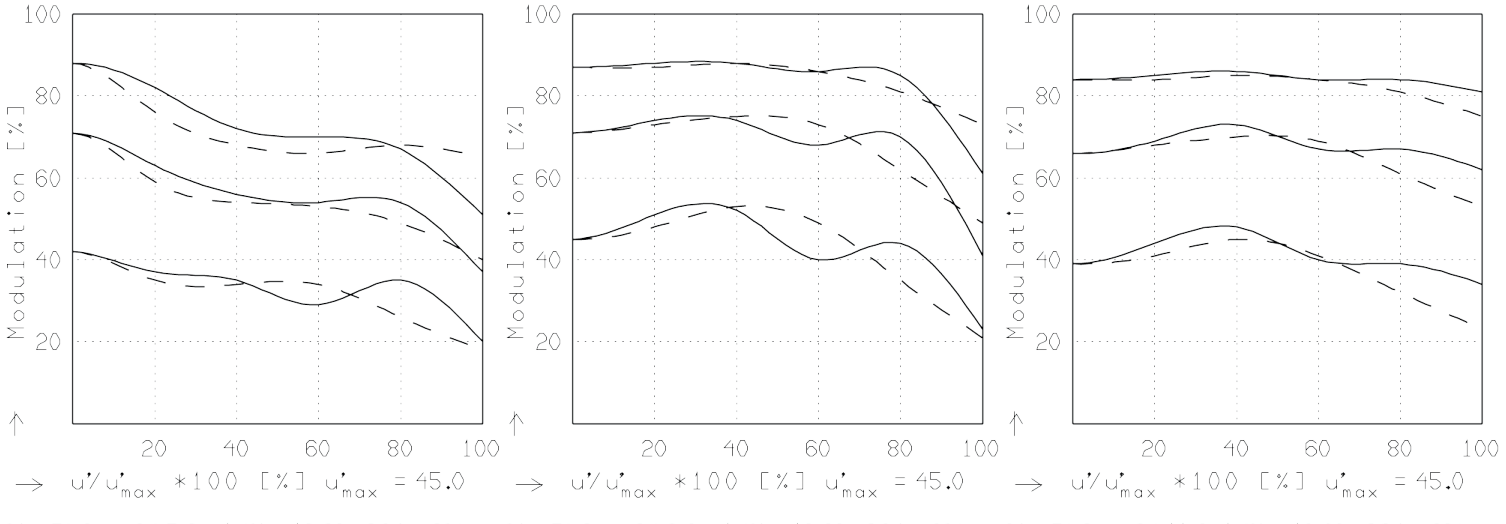
radial ——
tangential — —



f' = 74.8 f/ 5.6 1/ß' = ∞ 00' = ∞ | f' = 74.8 f/ 8.0 1/ß' = ∞ 00' = ∞ | f' = 74.8 f/ 11.0 1/ß' = ∞ 00' = ∞



f' = 74.8 f/ 5.6 1/ß' = -20.00 00' = 1648. | f' = 74.8 f/ 8.0 1/ß' = -20.00 00' = 1648. | f' = 74.8 f/ 11.0 1/ß' = -20.00 00' = 1648.



f' = 74.8 f/ 5.6 1/ß' = -10.00 00' = 904. | f' = 74.8 f/ 8.0 1/ß' = -10.00 00' = 904. | f' = 74.8 f/ 11.0 1/ß' = -10.00 00' = 904.

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

Printed in the Federal Republic of Germany
48750 7020e