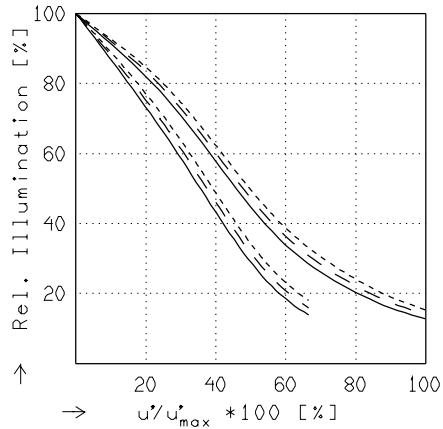
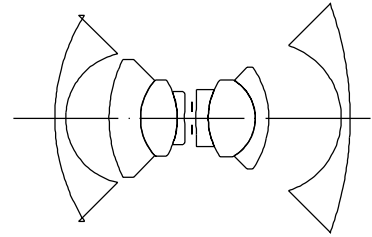


SUPER-ANGULON XL 5.6/47

$f' = 48.0 \text{ mm}$ $\beta_p = 0.995$
 $s_F = -31.2 \text{ mm}$ $s_{EP} = 17.0 \text{ mm}$
 $s_{F'} = 29.5 \text{ mm}$ $s_{A'P} = -18.2 \text{ mm}$
 $HH' = 24.8 \text{ mm}$ $\Sigma d = 60.0 \text{ mm}$

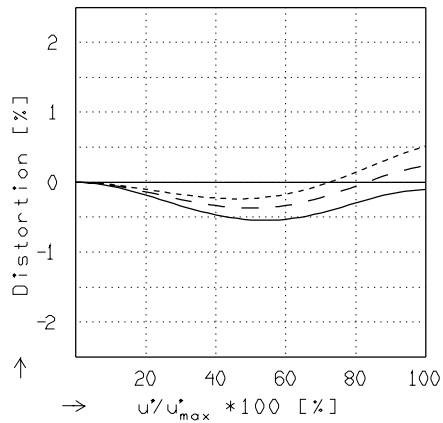


RELATIVE ILLUMINATION

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

$f / 5.6$ $f / 22.0$

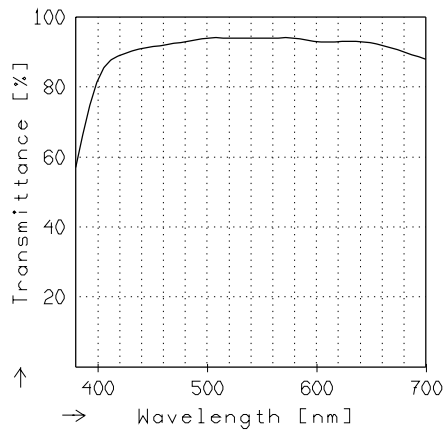
| | | | |
|---------|--------------------|-------------------|----------------|
| — | $\beta' = 0.0000$ | $u'_{max} = 82.9$ | $00' = \infty$ |
| - - | $\beta' = -0.0500$ | $u'_{max} = 83.2$ | $00' = 1082.$ |
| - · - · | $\beta' = -0.1000$ | $u'_{max} = 83.4$ | $00' = 605.$ |



DISTORTION

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

| | | | |
|---------|--------------------|-------------------|----------------|
| — | $\beta' = 0.0000$ | $u'_{max} = 82.9$ | $00' = \infty$ |
| - - | $\beta' = -0.0500$ | $u'_{max} = 83.2$ | $00' = 1082.$ |
| - · - · | $\beta' = -0.1000$ | $u'_{max} = 83.4$ | $00' = 605.$ |



TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.