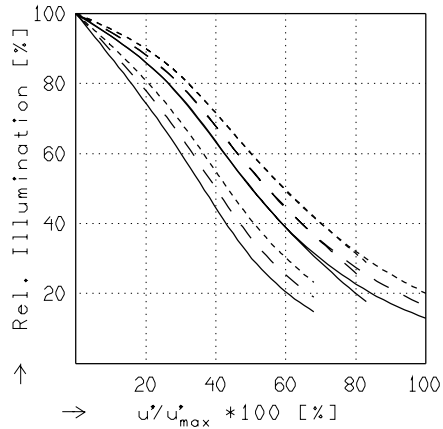
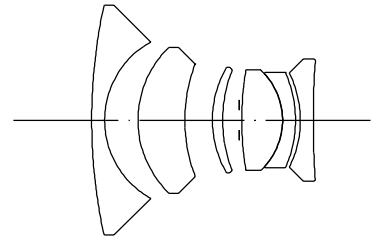


**SUPER-SYMMAR XL 4.5/80 ASPH.**

$f' = 81.0 \text{ mm}$      $\beta_p = 1.013$   
 $s_F = -59.9 \text{ mm}$      $s_{EP} = 20.0 \text{ mm}$   
 $s_{F'} = 72.9 \text{ mm}$      $s_{AP} = -9.1 \text{ mm}$   
 $HH' = 13.9 \text{ mm}$      $\Sigma d = 43.0 \text{ mm}$

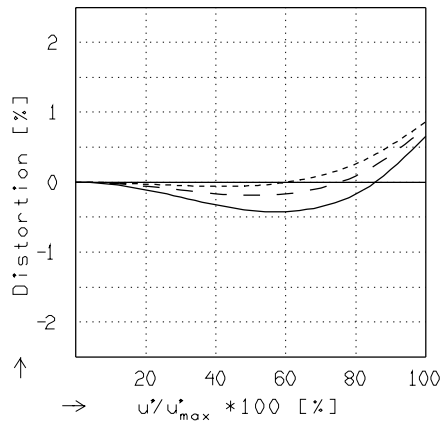


**RELATIVE ILLUMINATION**

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

$f / 4.5$      $f / 8.0$      $f / 22.0$

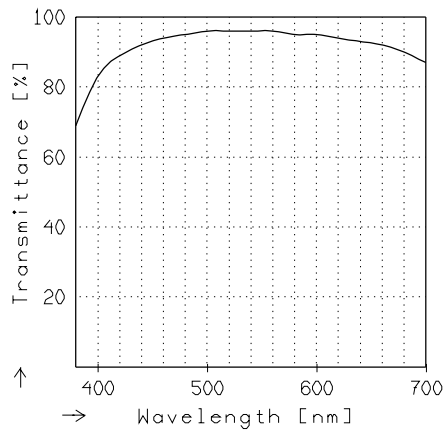
—  $\beta' = 0.0000$      $u'_{max} = 106.7$      $00' = \infty$   
 - -  $\beta' = -0.1000$      $u'_{max} = 106.8$      $00' = 994.$   
 - · -  $\beta' = -0.2000$      $u'_{max} = 106.9$      $00' = 597.$



**DISTORTION**

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

—  $\beta' = 0.0000$      $u'_{max} = 106.7$      $00' = \infty$   
 - -  $\beta' = -0.1000$      $u'_{max} = 106.8$      $00' = 994.$   
 - · -  $\beta' = -0.2000$      $u'_{max} = 106.9$      $00' = 597.$



**TRANSMITTANCE**

Relative spectral transmittance is shown with reference to wavelength.

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