

Even at full aperture the Tele-Tessar T\* f/4-250 mm lens for the 2000 FC Hasselblad camera provides an excellent image quality. This lens is a true tele lens and hence very compact and relatively light. Applications of the Tele-Tessar T\* f/4-250 mm lens are many. It is suitable not only for long-range photography and portraiture but also, owing to its relatively high initial aperture, for press, sports and stage photography.



Number of lens elements: 5 Number of components: f-number: Focal length: Negative size: Angular field 2 w: Spectral range: f-stop scale: Mount:

Filter mount: Weight:

5 4 246.3 mm 56.5 x 56.5 mm diagonal 18°, side 13° visible spectrum 4-5.6-8-11-16-22-32 focusing mount with bayonet; coupling system for automatic diaphragm function bayonet, size B 77 approx. 920 g

Distance range: Smallest object field: Position of entrance pupil: Diameter of entrance pupil: Position of exit pupil: Diameter of exit pupil: Distance between first and last lens vertex:

∞ to 2.5 m (8.5') 433x433 mm (17"x17") 12.5 mm behind the first lens vertex 61.5 mm 32.9 mm in front of the last lens vertex 29.4 mm Position of principal plane H: 115.6 mm in front of the first lens vertex Position of principal plane H': 17.6 mm in front of the first lens vertex

144.6 mm

## Performance data:

# Tele-Tessar T\* f/4–250 mm Cat. No. 104529

Modulation transfer T as a function of image height u Slit orientation tangential — — — sagittal — — —



White light Spatial frequencies R = 10, 20 and 40 cycles/mm



E Relative illuminance



V Distortion in % of image height u



Subject to technical amendment

### 1. MTF Diagrams

The image height u – reckoned from the image center – is entered in mm on the horizontal axis of the graph. The modulation transfer T (MTF = Modulation Transfer Factor) is entered on the vertical axis. Parameters of the graph are the spatial frequencies R in cycles (line pairs) per mm given at the top right hand above the diagrams. The lowest spatial frequency corresponds to the upper pair of curves, the highest spatial frequency to the lower pair. Above each graph the f-number k is given for which the measurement was made. "White" light means that the measurement was made with a subject illumination having the approximate spectral distribution of daylight.

Unless otherwise indicated, the performance data refer to large object distances, for which normal photographic lenses are primarily used.

### 2. Relative illuminance

In this diagram the horizontal axis gives the image height u in mm and the vertical axis the relative illuminance E, both for full aperture and a moderately stopped-down lens. The values for E are determined taking into account vignetting and natural light decrease.

#### 3. Distortion

Here again the image height u is entered on the horizontal axis in mm. The vertical axis gives the distortion V in % of the relevant image height. A positive value for V means that the actual image point is further from the image center than with perfectly distortion-free imaging (pincushion distortion); a negative V indicates barrel distortion.