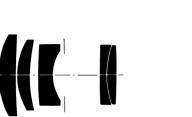
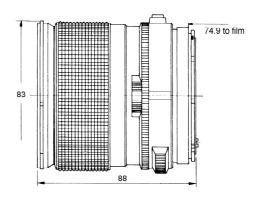
Sonnar[®] T* 2.8/150 FE





HASSELBLAD

The **Sonnar®** T* 2.8/150 FE lens offers the same basic creative possibilities as the Sonnar® T* 4/150 CFi lens, which means it is a very good choice for people and portrait photography, especially on location. It is twice as fast, which speeds up focusing and adds creative possibilities for blurring out unwanted background detail. It can be flash-synchronised up to 1/90 s with the focal plane shutter in the 200 series Hasselblad SLRs.

Compared with the Planar® T* 2/110 FE lens it offers a visibly longer focal length in the same size package, thus catching up significantly less background area. This benefits subjects in the area of travel, landscape, theatrical, and sports (e.g. golf) photography.

Preferred use: candid portraits on location, travel, landscape, sports, theatrical and stage photography

Cat. No. of lens	10 11 24
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Number of elements Number of groups Max. aperture f/2.8 Focal length 151.3 mm Negative size 55 x 55 mm

width 21°, height 21°, Angular field

diagonal 29°

Min. aperture Camera mount

Filter connection bayonett, B 77 Focusing range infinity to 1.4 m Working distance (between mechanical front end of

lens and subject) 1.2 m Close limit field size 390 mm x 390 mm

Max. scale 1:7.1

Entrance pupil

Position 58.9 mm behind the first lens vertex

Diameter

Exit pupil

Position 37.1 mm in front of the last lens vertex

Diameter 38.2 mm Position of principal planes

Н 0.7 mm in front of the first lens vertex H' 79.9 mm in front of the last lens vertex 71.5 mm

Back focal distance

Distance between first

and last lens vertex 80.1 mm Weight 680 g



Performance data:

Sonnar[®] T* 2.8/150 FE Cat. No. 10 11 24

1. MTF Diagrams

The image height u - calculated from the image center - is entered in mm on the horizontal axis of the graph. The modulation transfer T (MTF = M odulation 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 of this page.

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.

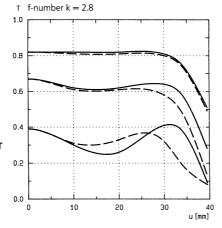
2. Relative illuminance

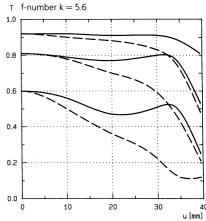
In this diagram the horizontal axis gives the image height u in mm and the vertical axis the relative illuminance E, both for full aperture and a moderately stopped-down lens. The values for E are determined taking into account vignetting and natural light decrease.

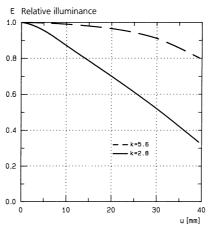
3. Distortion

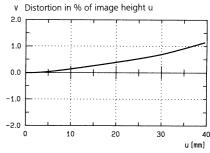
Here again the image height u is entered on the horizontal axis in mm. The vertical axis gives the distortion V in % of the relevant image height. A positive value for V means that the actual image point is further from the image center than with perfectly distortion-free imaging (pincushion distortion);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

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









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