

## HASSELBLAD HC Macro 4/120

### GENERAL LENS DATA:

Focal length	118.7 mm
Aperture range	4 - 45
Angle of view diag/hor/vert	33°/26°/21°
Length/diameter	166 mm/96 mm
Weight	1410 g
Filter diameter	67 mm

### CLOSE FOCUS RANGE DATA:

Minimum distance object to film	0.39 m
Maximum image scale	1:1
Corresponding area of coverage	56 x 41.5 mm
Corresponding exposure reduction	1.3 f-stop



### LENS DESIGN

9 elements in 9 groups

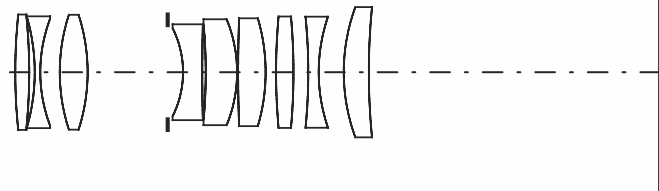
### FOCUS TYPE

Front focusing

### ENTRANCE PUPIL POSITION

148 mm in front of the film plane  
(at infinite focus setting)

The entrance pupil position is the correct position of the axis of rotation when making a panorama image by combining individual images of a scene.

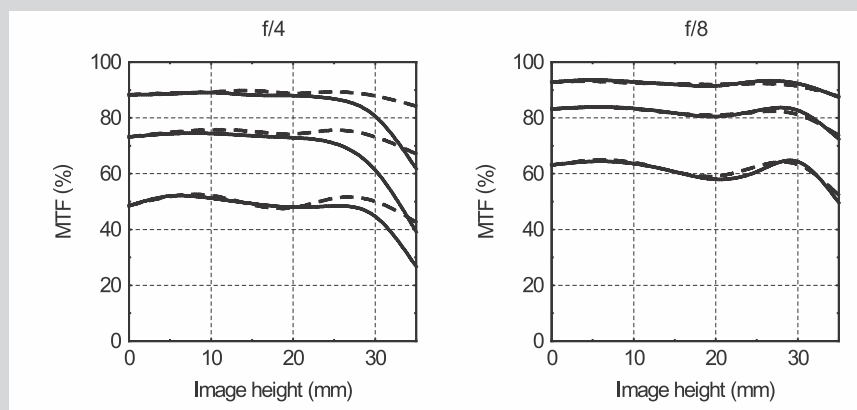


### MTF

@ infinity setting

Modulation Transfer as a function of image height at infinite focus setting.

Sagittal slit orientation drawn with continuous line and tangential with dashed. White light. Spatial frequencies 10, 20 and 40 lp/mm



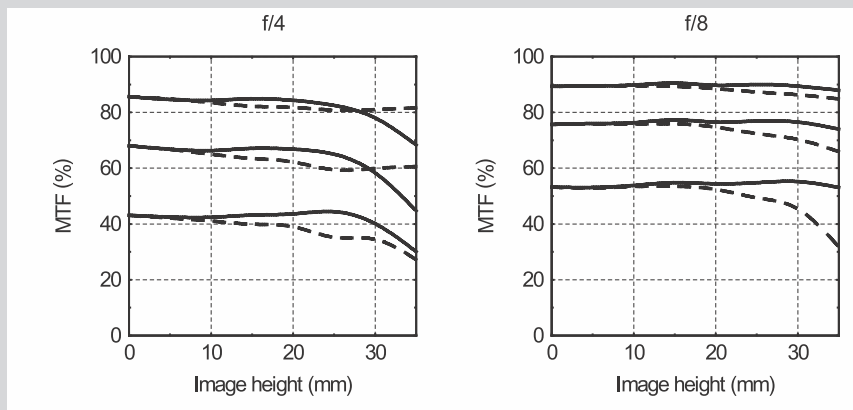
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### MTF

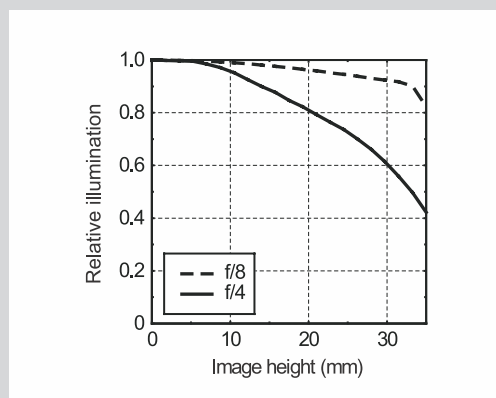
@ image scale 1:2

Modulation Transfer as a function of image height at infinite focus setting.

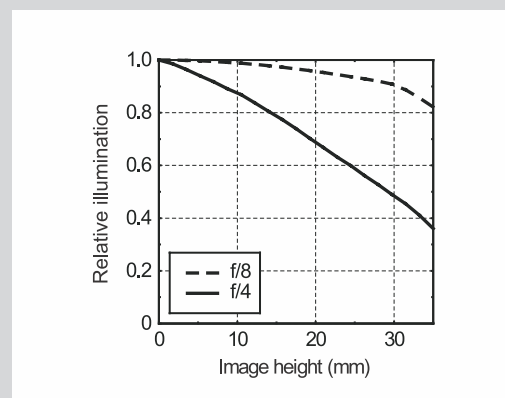
Sagittal slit orientation drawn with continuous line and tangential with dashed. White light. Spatial frequencies 10, 20 and 40 lp/mm



### RELATIVE ILLUMINATION

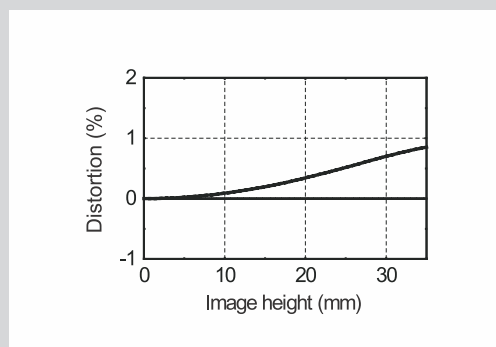


1:2

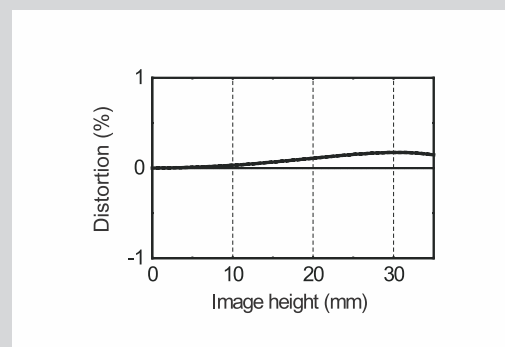


Infinity setting

### DISTORTION



1:2



Infinity setting