



LEICA **SUMMICRON-TL** 23 mm f/2 ASPH.

Technical data.



Illustration 1:1

Lens	Leica Summicron-TL 23 mm f/2 ASPH.
Order no.	11 081
Compatible cameras	All Leica cameras with Leica L bayonet
Field angle (diagonal, horizontal, vertical)	Approx. 64°, 53°, 35°, corresponding to around 35 mm focal length in 35 mm format
Optical design	Number of lenses/groups: 9 / 6 Aspherical surfaces: 2 Position of entrance pupil at infinity: -22.7 mm
Distance setting	Setting/Function: Electronically controlled Mode selectable using camera menu: Automatic (AF) or manual (M), in AF mode manual override possible at any times with setting dial Focusing range: 0.35 m to ∞ Smallest object field/largest scale: approx. 295 x 196 mm/1:12.6
Aperture	Setting/Function: Electronically controlled, adjustment using dial on camera, third values also available Lowest value: 16
Bayonet fitting	Leica L bayonet
Filter mount/ Lens hood	External bayonet fitting for lens hood (included), internal thread for E52 filters, filter mount does not rotate
Finish	Black anodized
Dimensions and Weight	Length to bayonet mount: approx. 37/69 mm (without/with lens hood) Largest diameter: approx. 63/73 mm (without/with lens hood) Weight: approx. 154/186 g (without/with lens hood)



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ENGINEERING DRAWING

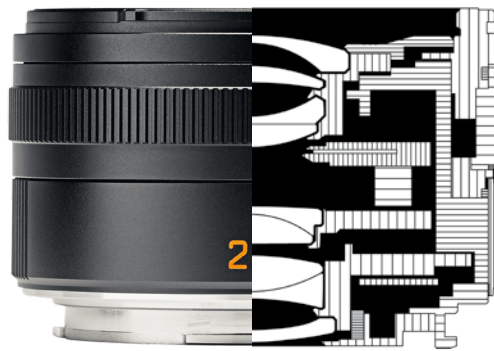
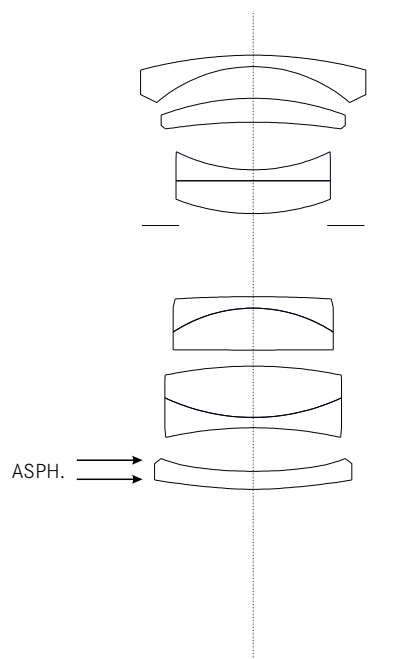


Illustration 1:1

LENS SHAPE



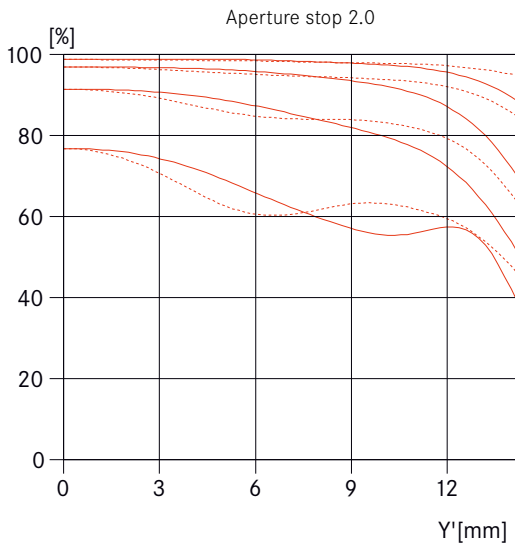


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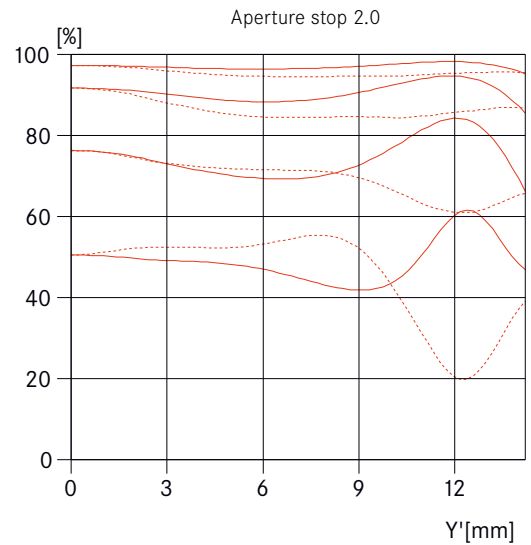
MTF DIAGRAMS

Focal length 23 mm

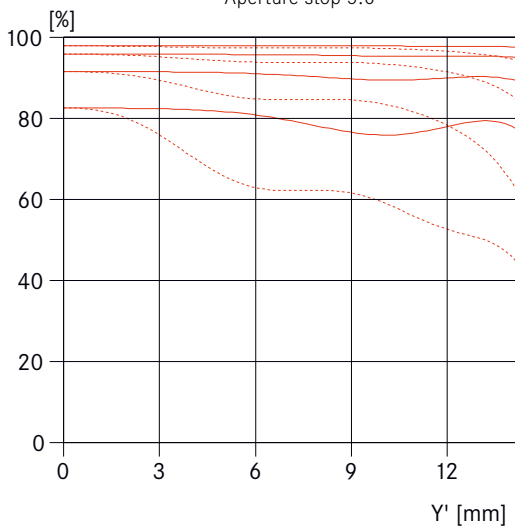
Infinity



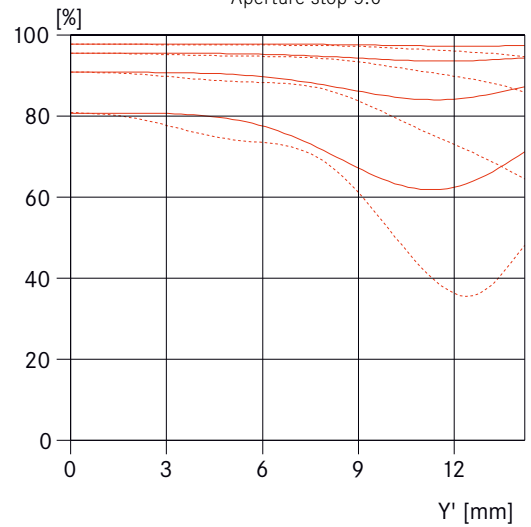
Close focus distance



Aperture stop 5.6



Aperture stop 5.6



— Sagittal structures
- - - Tangential structures

MTF GRAPHS

The MTF is indicated both at full aperture and at f/5.6 for long distances (infinity) and close focussing distance. Shown is the contrast in percentage for 5, 10, 20 and 40 lp/mm across the height of the 35 mm film format, for tangential (dotted line) and sagittal (solid line) structures, in white light. The 5 and 10 lp/mm will give an indication regarding the contrast ratio for large object structures. The 20 and 40 lp/mm records the resolution of finer and finest object structures.