# LEICA **SUMMILUX-TL** 35 mm f / 1.4 ASPH.

## Technical Data.



Illustrations 1:1

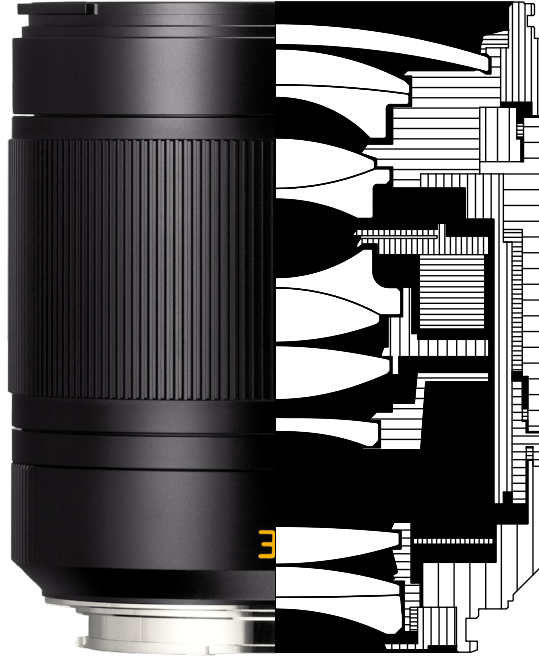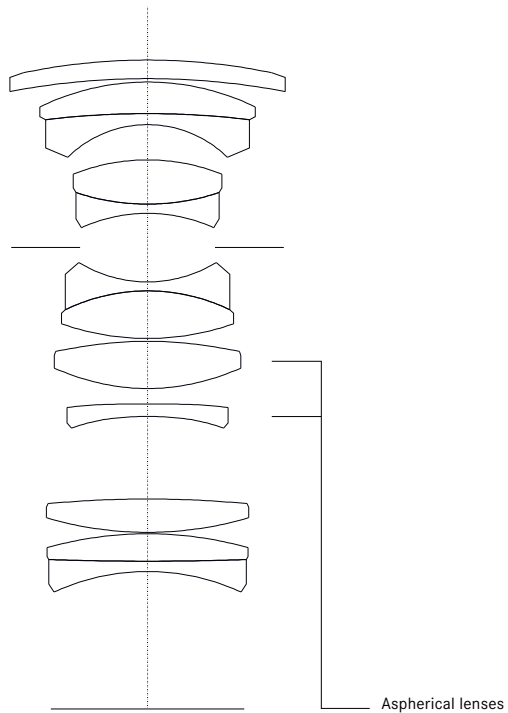| | |
|---|---|
| Lens | Leica Summilux-TL 35 mm f / 1.4 ASPH. |
| Order number | Black anodized: 11 084<br>Silver anodized: 11 085 |
| Compatible cameras | All Leica cameras with Leica L bayonet |
| Field angle<br>(diagonal, horizontal, vertical) | 45°/38°/26°, corresponding to approx. 50 mm focal length in 35 mm format |
| Optical design | Number of lenses / groups: 12 / 8<br>Aspherical surfaces: 4<br>Position of entrance pupil at infinity: −49.1 mm |
| Distance setting | Setting/Function: Electronically controlled<br>Mode selectable using camera menu: Automatic (AF) or manual (M), in AF mode manual override possible<br>at any times with setting dial<br>Focusing range: 0.4 m to ∞<br>Smallest object field/largest scale: 220 x 147 mm / 1:9.4 |
| Aperture | Setting/Function:<br>Electronically controlled, adjustment using dial on camera, third values also available<br>Lowest value: 16 |
| Bayonet fitting | Leica L bayonet |
| Filter mount /<br>Lens hood | Internal thread for E60 filters, filter mount does not rotate,<br>external bayonet mount for lens hood (included) |
| Finish | Black / silver anodized |
| Dimensions and Weight<br>(without/with lens hood) | Length to bayonet mount: approx. 77 / 123 mm<br>Largest diameter: approx. 70 / 81 mm<br>Weight: approx. 428 / 498 g |

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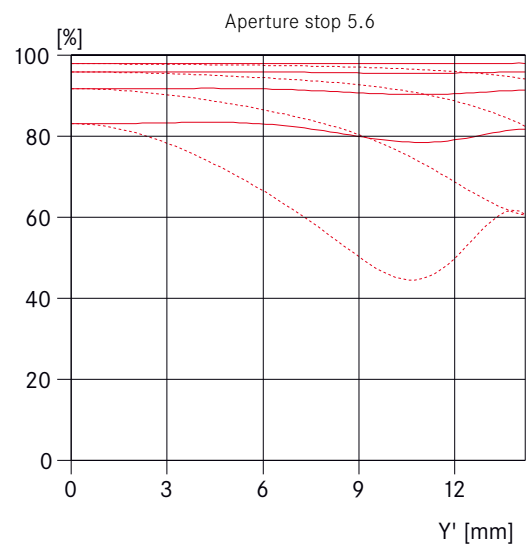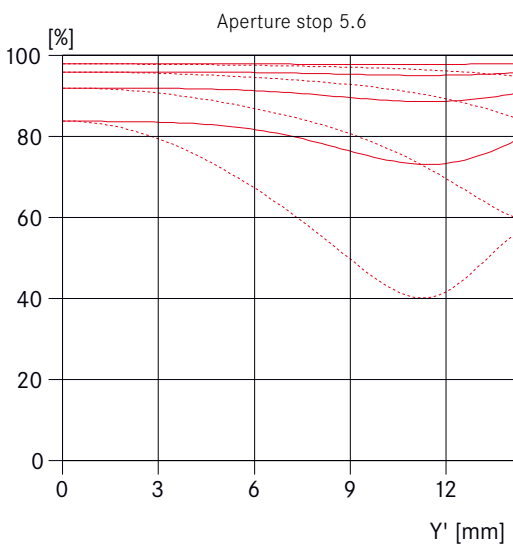
ENGINEERING DRAWING



Illustration 1:1

LENS SHAPE



Aspherical lenses

MTF DIAGRAMS

**Focal length 35 mm**



**Infinity**

Aperture stop 1.4

Aperture stop 5.6

**Close focus distance**

Aperture stop 1.4
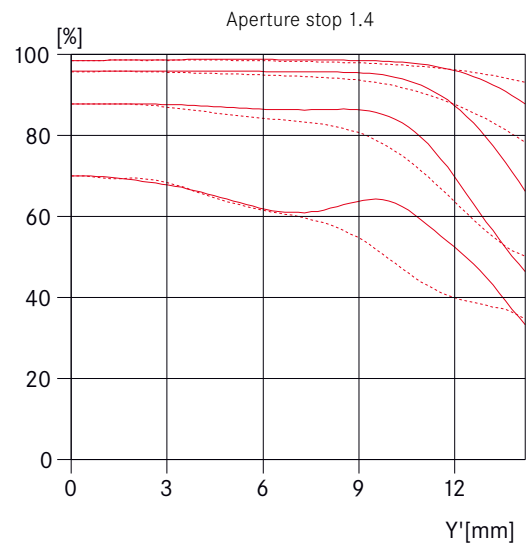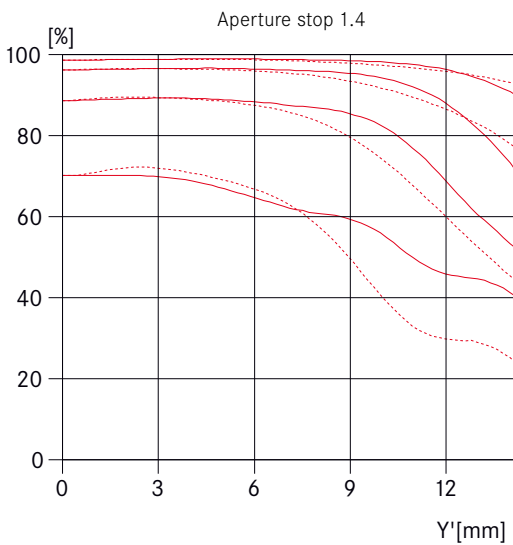
Aperture stop 5.6

——————— 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.