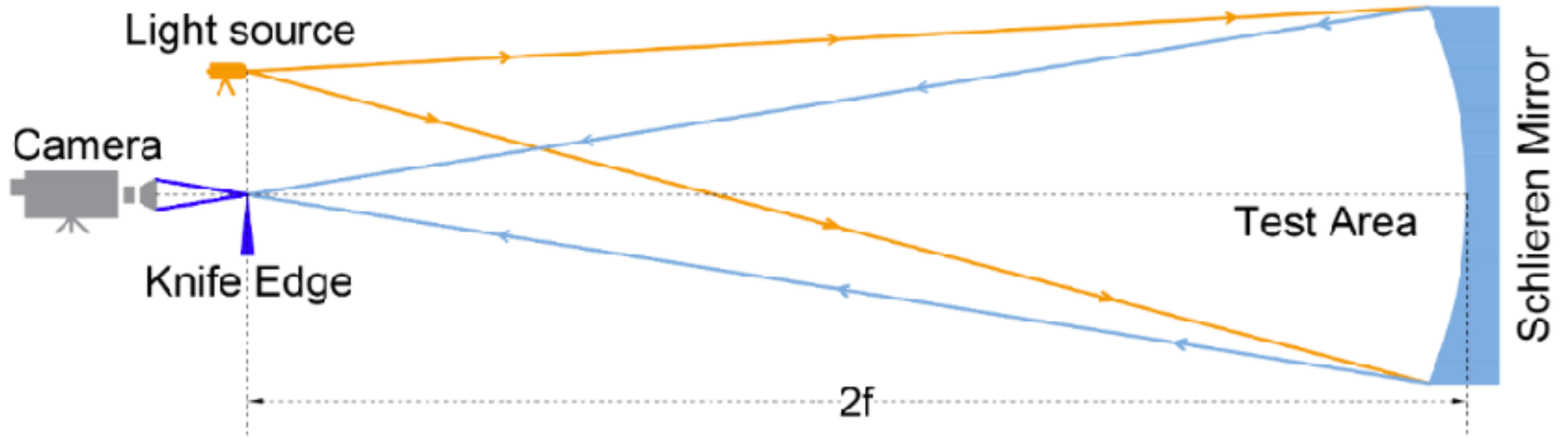


Schlieren

- With an empty test field: (1) the first mirror creates a collimated beam that passes through the test field, (2) the second mirror and lens images light from the test area (a collimated beam) onto the viewing plane.
- A uniform gradient will uniformly shift the color on screen
- *A change in the gradient* will create color shadows because light from the test field no longer focuses to a point.
- With a subject in the test field, a true image is no longer formed because the rays are no longer collimated and on-axis. However, since the light changes direction ever so slightly, we may assume that the image of the test area is still very good.

Single-Mirror Configurations



In the single mirror configuration, we treat light from a point source as collimated at the test area. The mirror and camera lens serves the same purpose as the second mirror and lens in the previous configuration (i.e. to image the test area).