Supplementary Figure 4 Subjective experience of coherence was highest for horizontal tracking with the diamond stimulus of Supplementary Figure 3. With oblique apertures, the only retinal motion signals available for the visible line segments of the diamond are those that are orthogonal to the line orientations. Because these line segments were of shallow slope, the horizontal components of their true motions were more ambiguous than the vertical components. Eye movements seem to have preferentially constrained these more ambiguous components. The main text shows results with steep line segments, where vertical eye movements resulted in higher coherence. Each individual subject data is shown with 95% confidence intervals. Bars showing the means and s.d. of individual subject means are also shown for easy visualization.