## Visual cortex activity when viewing the Craik-O'Brian-Cornsweet Illusion

Perna, A., Tosetti, M., Montanaro, D., and Morrone, M. C. (2005). Neuronal mechanisms for Illusory brightness perception in humans *Neuron* **47**, 645-651.

http://www.cell.com/neuron/retrieve/pii/S0896627305006069

- What two stimuli were used to measure responses in visual cortex (see figure
  How do they differ perceptually?
- 2. The authors claim that there is an absence of "edge-specific responses in primary visual cortex". How do you interpret such a result?
- 3. The authors also used a second comparison stimuli (see figure 4). How does this differ from the test stimulus (both physically and perceptually)?
- 4. What is the main conclusion of the paper in terms of the generation of the COC illusion?
- 5. Can you think of how this work might be extended to examine illusions of brightness described in this chapter?

