

Supplementary figures

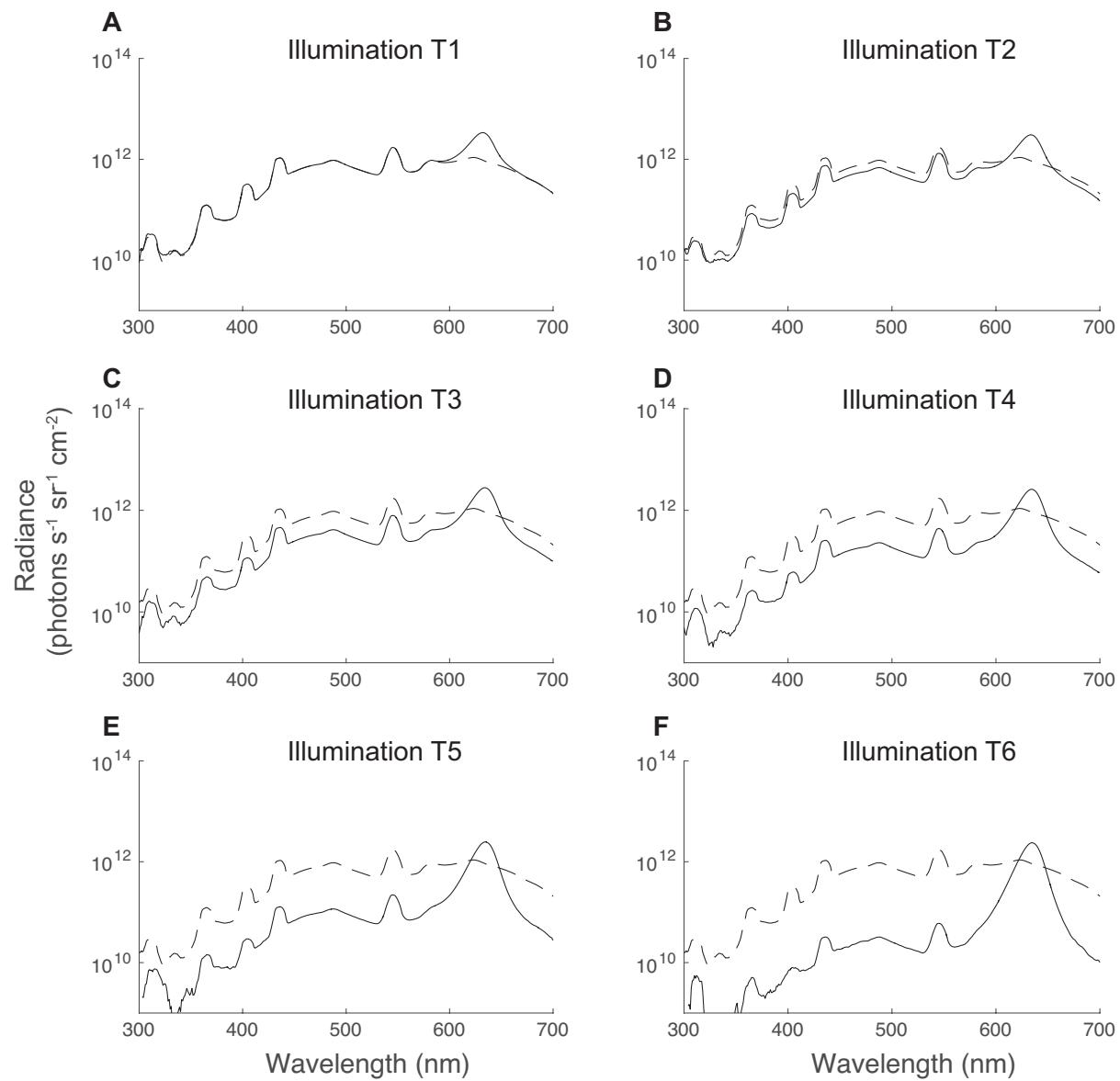


Fig. S1. Spectral radiance of all illuminations. The radiance of the illuminations as measured from a white standard placed on the floor of the experimental arena. The white control illumination is plotted as a dashed line in all panels.

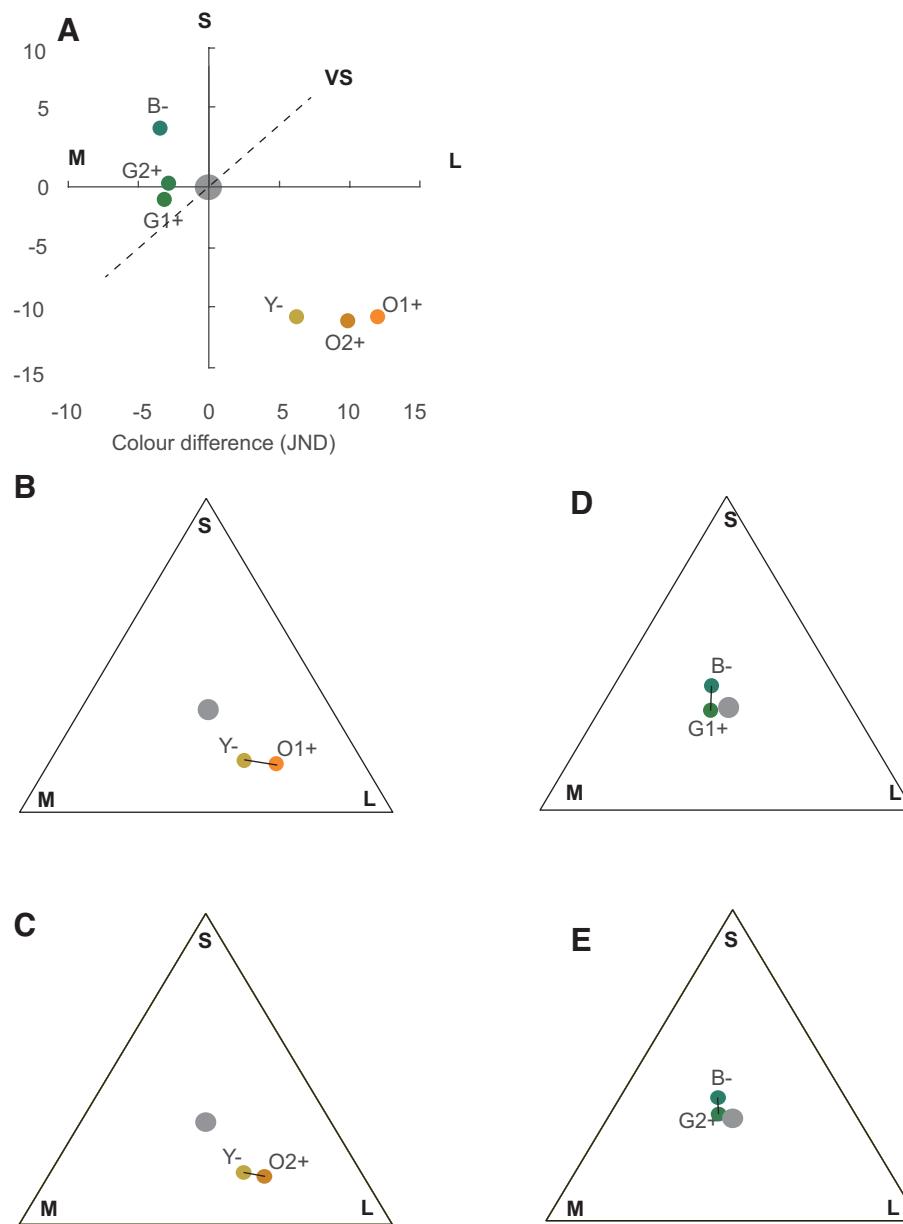


Fig. S2. Chromaticity diagram of the stimuli from experiment 2. **(A)** Chromaticity diagram of illuminations calculated using the receptor noise limited model (Renoult et al., 2015; Vorobyev and Osorio, 1998). **(B)** Chromaticity diagram of the large colour difference of the orange-yellow stimuli in experiment, adapted to the grey background in the white illumination. **(C)** Chromaticity diagram of the small colour difference of the orange-yellow stimuli in experiment, adapted to the grey background in the white illumination. **(D)** Chromaticity diagram of the large colour difference of the green-blue stimuli in experiment, adapted to the grey background in the white illumination. **(E)** Chromaticity diagram of the large colour difference of the green-blue stimuli in experiment, adapted to the grey background in the white illumination.

References

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- Renoult, J. P., Kelber, A. and Schaefer, M. H.** (2015). Colour spaces in ecology and evolutionary biology. *Biol. Rev.* n/a–n/a.
- Vorobyev, M. and Osorio, D. C.** (1998). Receptor noise as a determinant of colour thresholds. *Proc. R. Soc. B* **265**, 351–358.