



Figure S1. Illumination was set to 30 Lux, ($XX \times 1.487$ cLux) measured at the height of the hens' eyes. The spectrum that was used was generated with 3000K White LEDs plus 630 nm peak-wavelength red LEDs, resulting in the spectral density graph shown. For the daily photophase segment, sunrise transitions from dark to light were set to 30 minutes, as were sunset transitions from light to dark. For transitions to the mid-scotophase light pulses, transition times were set to 5 minutes.