

**Table S1:** Total activity counts per light cycle, and the % activity compared to the control cycle

<b>Cycle</b>	<b>Activity <math>\pm</math> SE</b>	<b>% act compared to control</b>
Control	25.96 $\pm$ 0.50	
0.5 lux	5.03 $\pm$ 0.14	19.37%
1 lux	3.66 $\pm$ 0.11	14.10%
2 lux	3.06 $\pm$ 0.11	11.79%

**Table S2:** Activity counts ( $\pm$  SE) for males and females during the dark, twilight and light phases of each experimental cycle. The activity during the experimental LAN cycles is depicted as a percentage of the control cycle counts.

Cycle	Light phase	Sex	Activity $\pm$ SE	% act from control
Control	Dark	M	65.79 $\pm$ 0.98	
		F	54.63 $\pm$ 1.45	
	Twilight	M	1.67 $\pm$ 0.12	
		F	2.95 $\pm$ 0.52	
	Light	M	0.15 $\pm$ 0.06	
		F	0.15 $\pm$ 0.04	
0.5 lux	Dark	M	10.19 $\pm$ 0.31	15.49%
		F	13.87 $\pm$ 0.56	25.39%
	Twilight	M	0.91 $\pm$ 0.17	54.49%
		F	1.05 $\pm$ 0.14	35.59%
	Light	M	0.01 $\pm$ 0.003	6.67%
		F	0.02 $\pm$ 0.01	13.33%
1 lux	Dark	M	7.38 $\pm$ 0.25	11.22%
		F	8.09 $\pm$ 0.44	14.81%
	Twilight	M	2.21 $\pm$ 0.26	132.34%
		F	2.05 $\pm$ 0.26	64.49%
	Light	M	0.24 $\pm$ 0.08	160%
		F	0.24 $\pm$ 0.06	160%
2 lux	Dark	M	4.89 $\pm$ 0.23	7.43%
		F	8.01 $\pm$ 0.37	14.66%
	Twilight	M	1.22 $\pm$ 0.18	73.05%
		F	2.87 $\pm$ 0.50	97.97%
	Light	M	0.16 $\pm$ 0.03	106.67%
		F	0.46 $\pm$ 0.08	306.67%