

Supplementary table 2a: values on 1-way ANOVA.

Test/Assay	Photoperiod	Spectrum
Plasma melatonin (LD group)	$F_{5,24} = 62.20, P < 0.0001$	
Plasma melatonin (dLAN group)	$F_{5,24} = 82.26, P < 0.0001$	
Plasma melatonin (LL group)	$F_{5,24} = 1.888, P = 0.1339$	
Velocity	$F_{2,56} = 13.94, P < 0.0001$	$F_{2,56} = 2.792, P = 0.0743$
Y Maze	$F_{2,14} = 20.11, P < 0.0001$	$F_{2,14} = 11.73, P = 0.0091$
Nobel object recognition	$F_{2,14} = 16.04, P = 0.0002$	$F_{2,14} = 12.15, P = 0.0007$
Hole board test	$F_{2,14} = 9.852, P = 0.0019$	$F_{2,14} = 8.976, P = 0.0059$
Morris ware maze	$F_{2,14} = 27.24, P < 0.0001$	$F_{2,14} = 14.04, P = 0.0009$
Elevated Plus maze	$F_{2,14} = 18.19, P < 0.0001$	$F_{2,14} = 4.124, P = 0.0342$
Passive avoidance test	$F_{2,14} = 78.56, P < 0.0001$	$F_{2,14} = 4.820, P = 0.0378$
Radial arm (time required)	$F_{2,14} = 13.60, P = 0.0004$	$F_{2,14} = 5.839, P = 0.0155$
Radial arm (unvisited arm)	$F_{2,14} = 14.43, P = 0.0003$	$F_{2,14} = 4.415, P = 0.0366$

Supplementary table 2b. Values of 2-way ANOVA

Treatment	Time	Interaction
$F_{2,72} = 168.8, P < 0.0001$	$F_{2,72} = 113.0, P < 0.0001$	$F_{2,72} = 34.27, P < 0.0001$