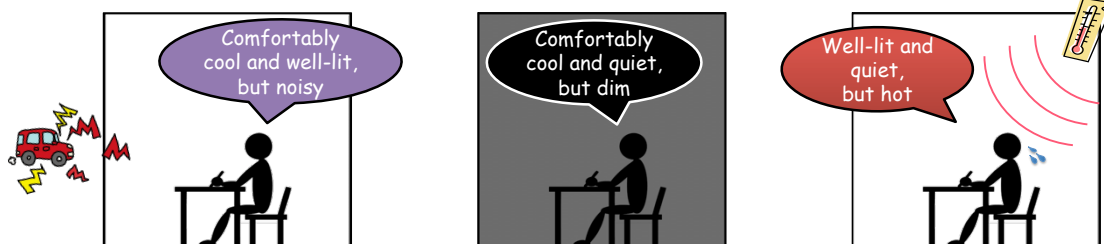


# DEVELOPMENT OF EQUI-COMFORT CHARTS CONSTITUTED WITH TEMPERATURE AND NOISE AT 150 AND 3 LX

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## PURPOSE

To know how much occupants feel comfortable during different combined conditions of temperature, noise, and illuminance levels

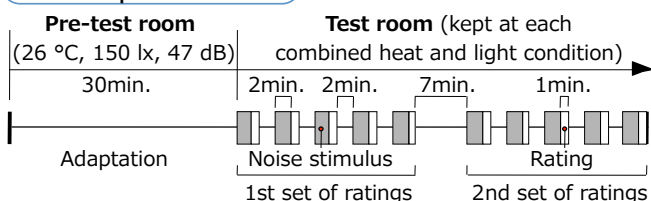


## EXPERIMENTS

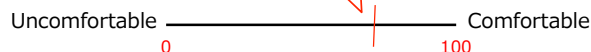
### Outline

	Exp. I	Exp. II
Subject	Number	23 young females
	Age	22.0±1.6 years
	BMI	20.5±2.4 kg/cm <sup>2</sup>
Exp. condition	Illuminance	150 lx
	Air temp.	26, 30, 34, 38 °C
	Noise (L <sub>Aeq</sub> )	46, 57, 68, 79, 90 dB

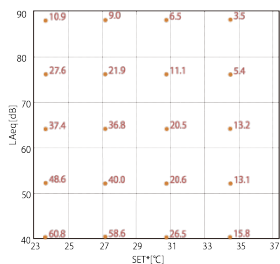
### Time procedure



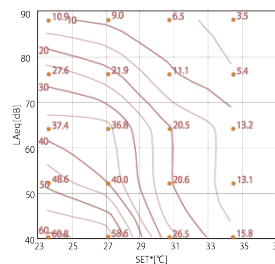
### Rating scale



### Drawing contour lines



1. Plot the mean values of comfort sensation
2. Choose interval of 5 which divide the values into 20 (i.e., 5, 10, 15, 20, ..., 85, 90, 95, 100)



3. Estimate the place where the nodes are located between any two close points
4. Interpolate the nodes which have same value of comfort sensation

## EQUI-COMFORT CHARTS

