NEW!

Lightfastness test by LED light

LED Fade meter
LF-Z

Accelerated lightfastness tests can be performed using two types of white LED light sources with different color temperatures. It also supports test using white fluorescent lamp.

01

One unit for multiple light sources

Light source can be changed easily

02

Illumination 35,000 to70,000 lx

The illuminance on the specimen surface can be adjusted by illuminance controller.

03

Reproduce the indoor environment under white LED lighting

Temperature and humidity in the test chamber can be controlled

One unit for multiple light

By changing the light source, it is able to test two types of white LEDs, cool white LED and warm white LED*. Since the light source is unitized, it can be easily changed. A white fluorescent lamp unit is also available.

*We also manufacture other LEDs upon request. Please contact us separately.

Illumination 35,000 to 70,000 lx

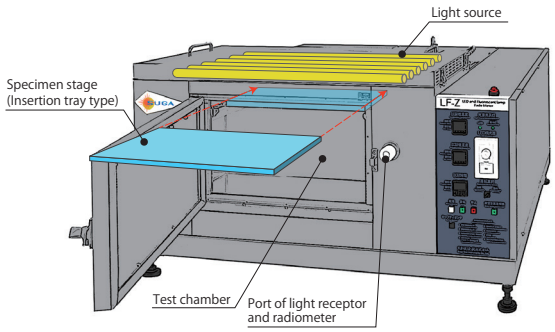
The dimming function allows you to change the illuminance of the specimen surface placed on the sample stage in the range of 35,000 to 70,000 lx.

Reproduce the indoor environment under white LED lighting

Temperature and humidity in the test chamber can be controlled.

Easy-to-use specimen stage

The specimen is placed on the specimen stage and tested. The specimen stage is an insertion tray type, which makes it easy to attach and detach from the main unit. By removing the specimen table, even thick specimens (molded products, etc.) can be placed in the test chamber and tested.



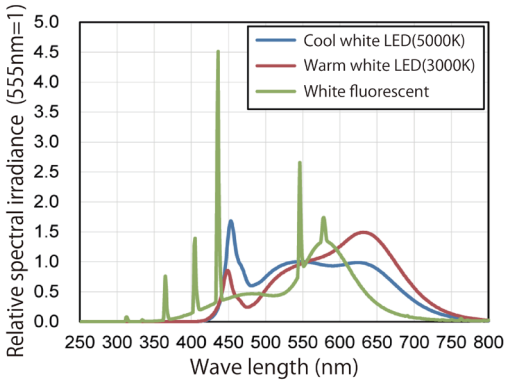
Structure

Specification

	LF-Z
Illumination **(Measured at a specimen position 50mm from the light source)**	White LED : approx. 35,000 to 70,000lx White fluorescent lamp : approx. 25,000lx (Switchable by replacing the light source)
Dimension, Specimen stage	Approx. W52×D28cm
Dimension, Test chamber	Approx. W100×D40×H40cm
Dimension, Exterior	Approx. W134×D130×H78cm
Temperature & Humidity	Temperature 15 to 32°C Humidity 50%rh (at 23°C)
Power	3phase, 200V, approx. 18A
Weight	Approx. 210kg

This product is a desktop installation type. If a stand is required, we will manufacture it separately.

Relative spectral irradiance of various light sources

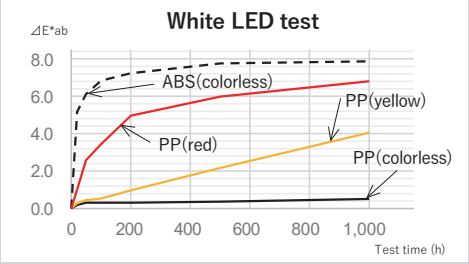


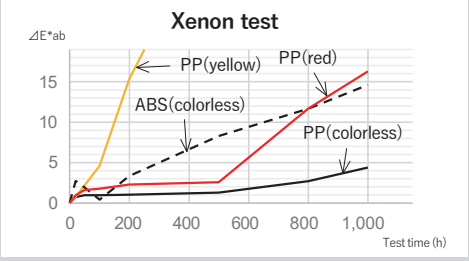
Cool white LED (Colour temperature 5,000K)

Warm white LED (Colour temperature 3,000K)

Example of white LED test and xenon test

The figure below shows an example of a white LED test and a xenon test performed on various plastics. In the white LED test, the color change of ABS (uncolored) and PP (red) is large, while in the xenon test, the color change of PP (yellow) is large, indicating that the deterioration behavior differs depending on the light source.





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