

## OUR R & D DEPARTMENT - TEST EQUIPMENT



### INTERGRATING SPHERE

Integrating sphere is mainly used for the testing of luminaires such as spectrum distribution, correlated colour temperature, luminous lux, power consumption, power factor efficiency, colour rendering index, chromaticity



### GONIOMETER

Goniometer is highly automated photometric performance test system which is mainly used for lighting distribution and total lumen output test, including : luminous intensity distribution and data zonal luminous flux, luminaires efficiency, coefficient of utilization, Luminance limitation curves, glare maximum ratio of distance, voltage, current Power consumption and power factor etc



### HIGH TEMPERATURE OVEN

High temperature oven is mainly used to test the luminaire under a dry heat condition at a specific temperature. Maximum temperature of the oven can be adjusted up to 200 degrees celcius



### SALT TESTER

Salt spread tester is mainly used for corrosion resistance testing on the luminaire that will be used in outdoor applications. To ensure the luminaire or its coating can withstand the corrosion from outdoor environments



### VIBRATION TESTER

Vibration tester is to test impact of the vibration in the transportation or any vibration occurring from the environment. The vibration tester can perform horizontal vibration (x, y) as well as vertical vibration (z)



### PROGRAMMABLE TEMPERATURE HUMIDITY TEST CHAMBER

Programmable temperature/ humidity test chamber is used to simulate the outdoor test on the luminaire under certain temperature/ humidity and temperature conditions.



### RAIN TESTER

Rainy Tester is to simulate various rainy conditions to perform a water spreading test on the luminaire. IP rating or ingress rating is to be defined by this test