

The proposed diffused oscillator can be used for calibrating photometric devices. The oscillator contains a main spherical chamber with an internal reflecting surface, a radiation source, which is installed in the chamber or is coupled with the chamber, and an additional spherical chamber, which is coupled with the main chamber and the photometric device. Between the chambers, a replaceable diaphragm with a calibrated orifice is installed. The surface of the membrane is coated with radiation-absorbing material. The proposed oscillator provides a possibility to decrease errors in calibrating photometric devices.