

●Reference Data

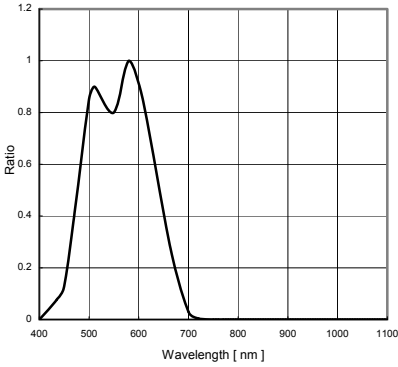


Fig.1 Spectral Response

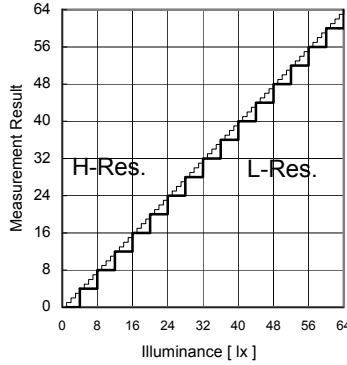


Fig.2 Illuminance - Measurement Result 1

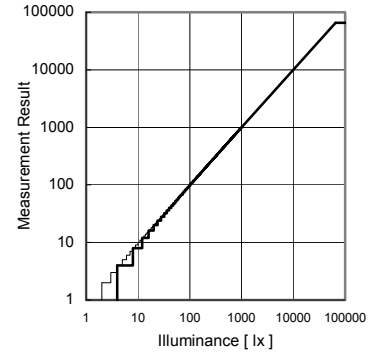


Fig.3 Illuminance - Measurement Result 2

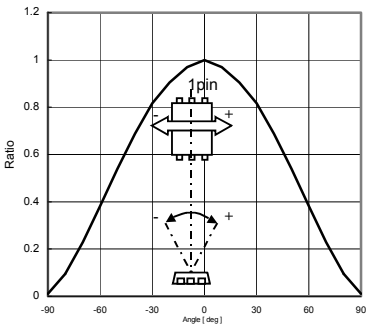


Fig.4 Directional Characteristics 1

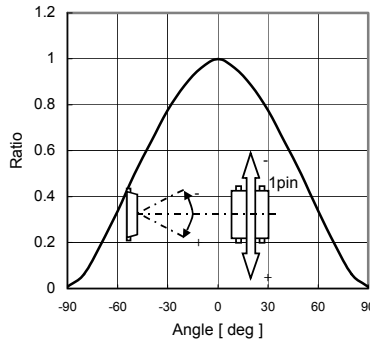


Fig.5 Directional Characteristics 2

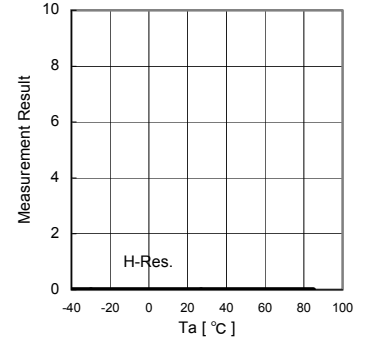


Fig.6 Dark Response

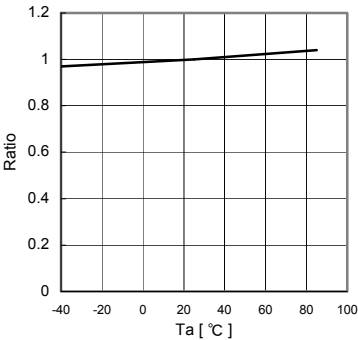


Fig.7 Measurement Accuracy Temperature Dependency

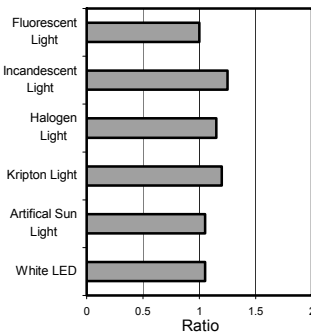


Fig.8 Light Source Dependency (Fluorescent Light is set to '1')

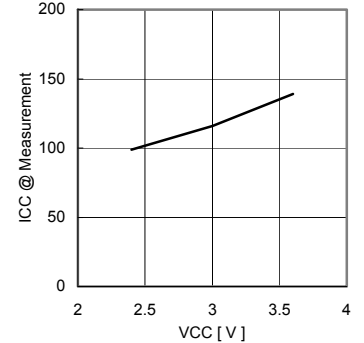


Fig.9 VCC - ICC (During Measurement)

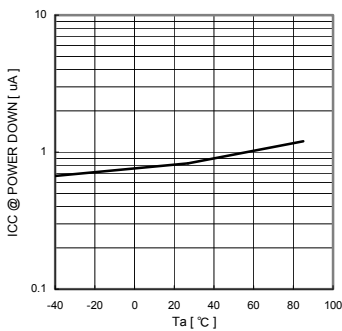


Fig.10 Vcc - ICC@0 Lx (POWER DOWN)

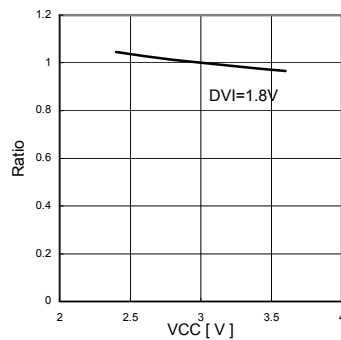


Fig.11 Measurement Result Vcc Dependency

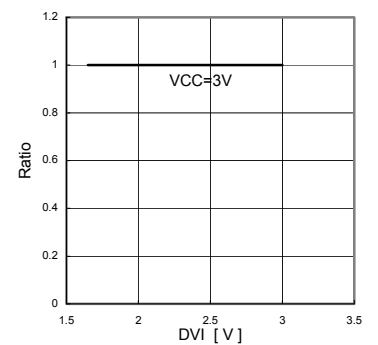
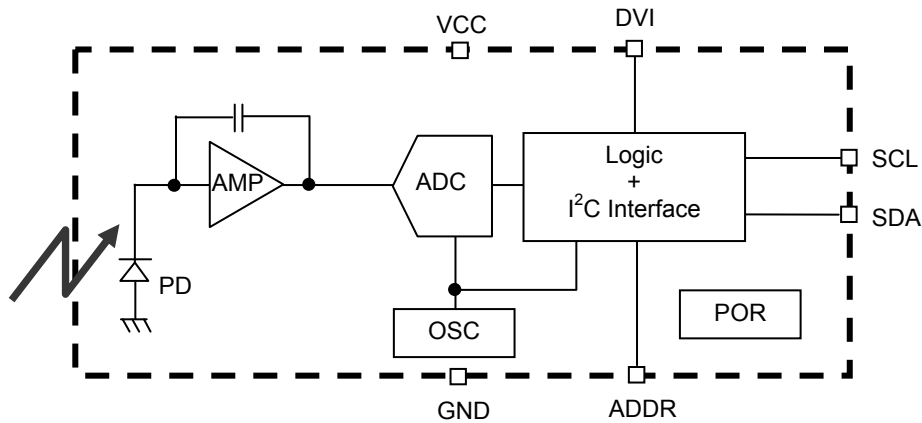


Fig.12 Measurement Result DVI Dependency

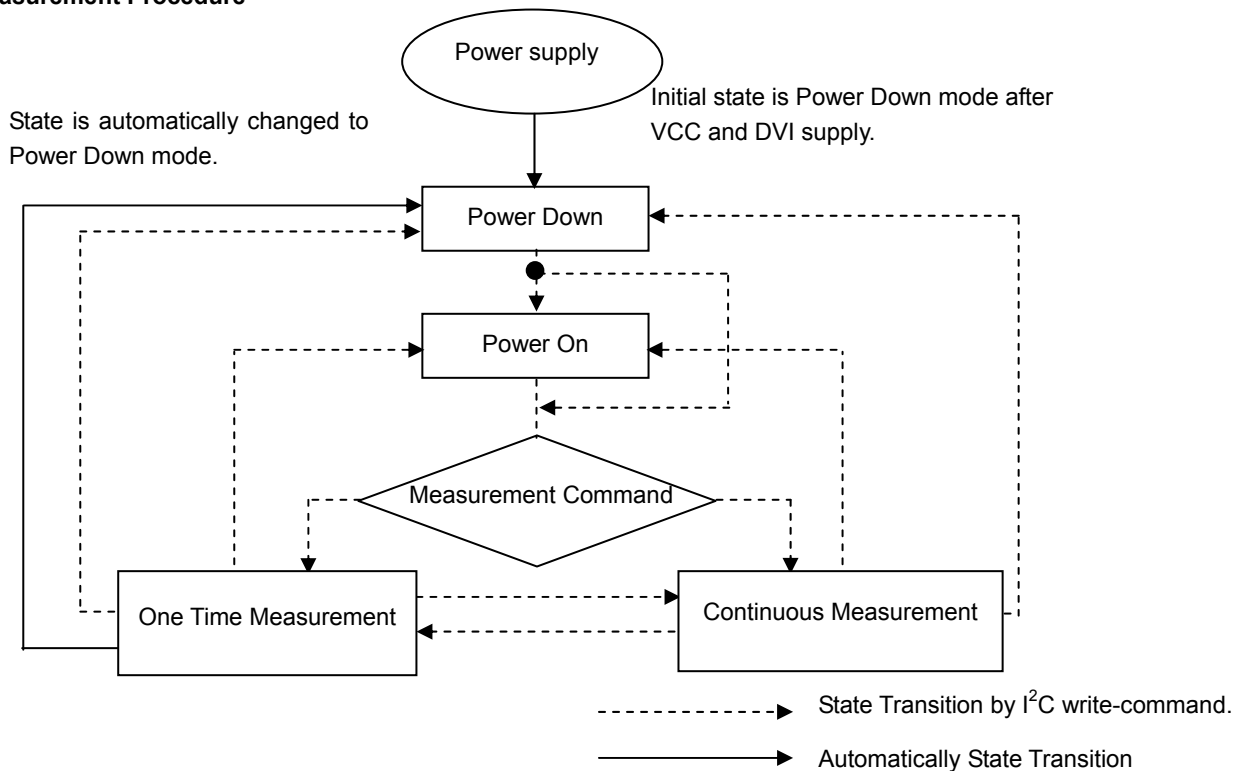
●Block Diagram



●Block Diagram Descriptions

- PD
Photo diode with approximately human eye response.
- AMP
Integration-OPAMP for converting from PD current to Voltage.
- ADC
AD converter for obtainment Digital 16bit data.
- Logic + I²C Interface
Ambient Light Calculation and I²C BUS Interface. It is including below register.
Data Register → This is for registration of Ambient Light Data. Initial Value is "0000_0000_0000_0000".
Measurement Time Register → This is for registration of measurement time. Initial Value is "0100_0101".
- OSC
Internal Oscillator (typ. 320kHz). It is CLK for internal logic.
- POR
Power on reset. All register is reset after VCC is supplied. Please refer P.8 (Caution of power on reset function).

●Measurement Procedure



* "Power On" Command is possible to omit.