● Reference Data

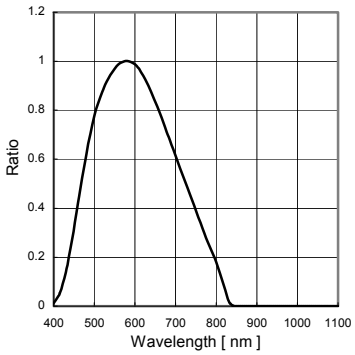


Fig.1 Spectral Response

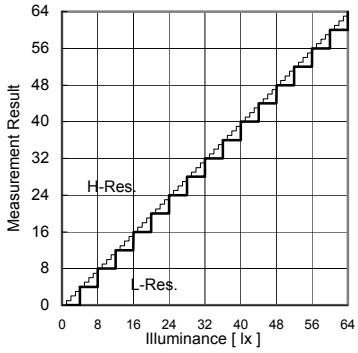


Fig.2 Illuminance – Measurement Result 1

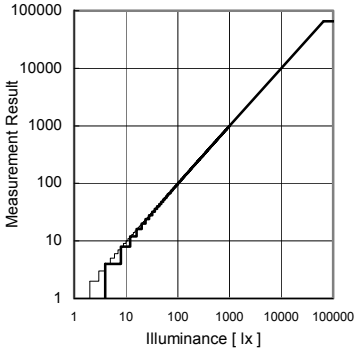


Fig.3 Illuminance – Measurement Result 2

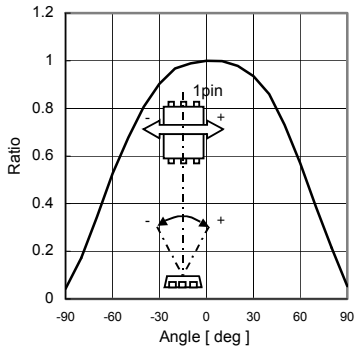


Fig.4 Directional Characteristics 1

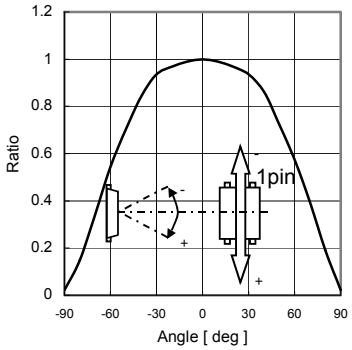


Fig.5 Directional Characteristics 2

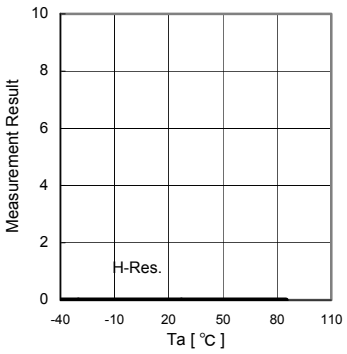


Fig.6 Dark Response

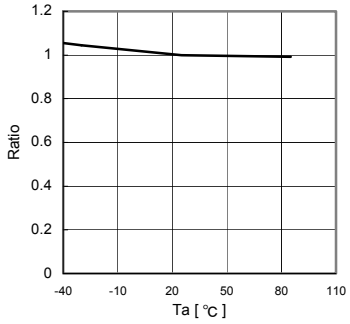


Fig.7 Measurement Result Temperature Dependency

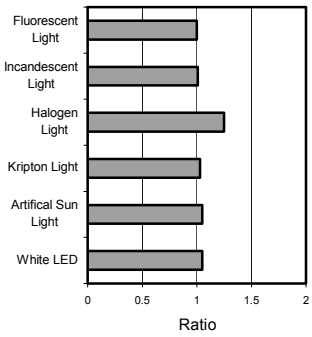


Fig.8 Light Source Dependency (Fluorescent Light is set to '1')

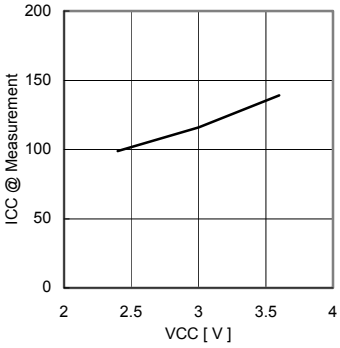


Fig.9 VCC – ICC (During measurement)

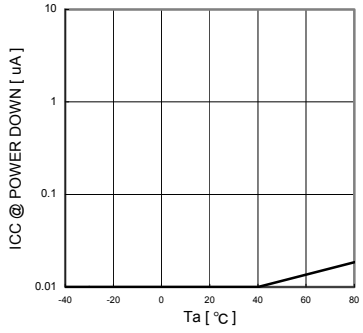


Fig.10 VCC – ICC@0 Lx (POWER DOWN)

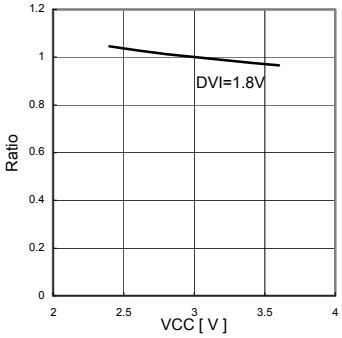


Fig.11 Measurement Result VCC Dependency

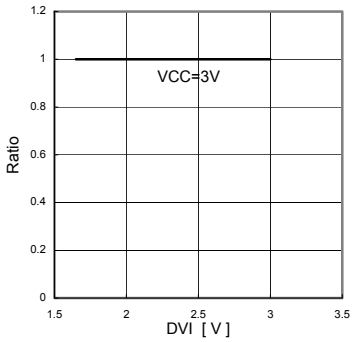
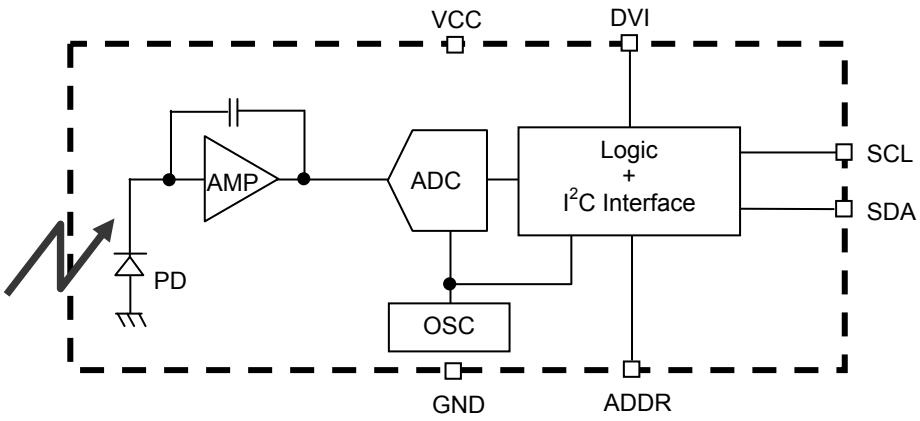


Fig.12 Measurement Result DVI Dependency

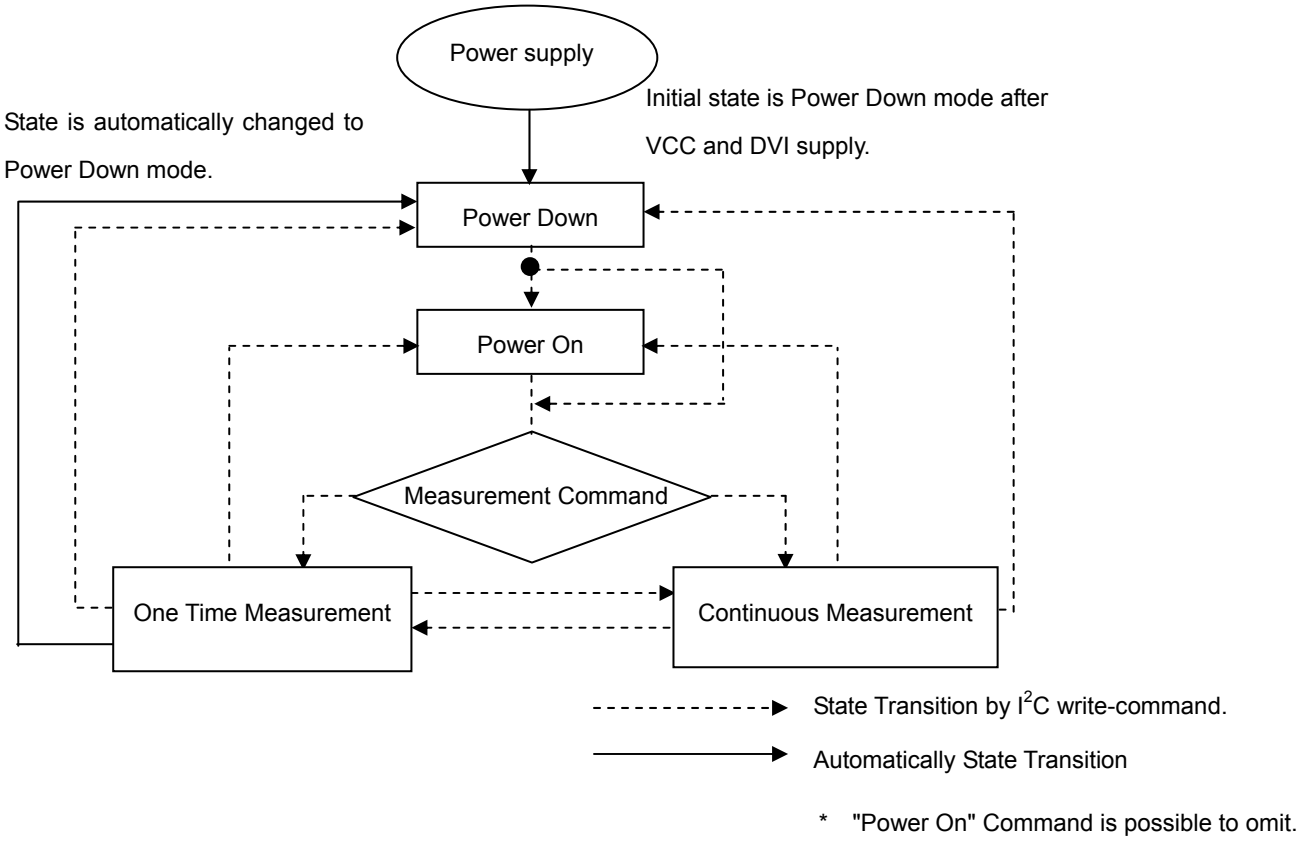
● Block Diagram



● 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 + I^2C Interface
  Ambient Light Calculation and I^2C 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.

● Measurement Procedure



* "Power On" Command is possible to omit.