

## **RB-Phi-243**

### **Phidgets Light Sensor 70,000 lux**



The 1143 Light sensor can measure ambient light up to 70 kilolux (roughly equivalent to the brightness of direct sunlight). Each sensor has been individually calibrated, and a label has been applied to the back of the board with a calibration value which can be used in your calculations to increase measurement accuracy. The sensor's output is logarithmic, so it will be more accurate at low light levels.

#### **Specifications**

##### **Sensor Properties**

- Sensor Type: Light
- Sensor Output Type: Non-Ratiometric
- Response Time Max: 0.5 ms
- Peak Sensitivity Wavelength: 560 nm
- Light Level Min: 3 lx
- Light Level Max (5V): 70 klx
- Light Current Ratio: 1.2

##### **Electrical Properties**

- Current Consumption Max: 500  $\mu$ A
- Output Impedance: 0  $\Omega$
- Supply Voltage Min: 4 V DC
- Supply Voltage Max: 5.5 V DC

##### **Physical Properties**

- Operating Temperature Min: -40  $^{\circ}$ C
- Operating Temperature Max: 85  $^{\circ}$ C