

## INTRODUCTION

This is a BH1750 light intensity sensor breakout board with a 16 bit AD converter built-in which can directly output a digital signal, there is no need for complicated calculations. This is a more accurate and easier to use version of the simple photo resistor which only outputs a voltage that needs to be calculated in order to obtain meaningful data. With the BH1750 Light Sensor intensity can be directly measured by the luxmeter, without needing to make calculations. The data which is output by this sensor is directly output in Lux (Lx). When objects which are lighted in homogeneous get the 1 lx luminous flux in one square meter, their light intensity is 1lx. Sometimes to take good advantage of the illuminant, you can add a reflector to the illuminant. So that there will be more luminous flux in some directions and it can increase the illumination of the target surface.

### For example

- Night: 0.001--0.02;
- moonlight: 0.02--0.3;
- cloudy indoor: 5--50;
- cloudy outdoor: 50--500;
- Sunny indoor: 100--1000;
- under the sunlight in summer afternoon: about 10\*6 power;
- reading books for intensity of illumination: 50--60;
- home video standard intensity of illumination: 1400.

## SPECIFICATION

- [WIKI \(BH1750 light sensor\)](#)
- [Schematics](#)
- [BH1750FVI chip datasheet](#)
- [Arduino Sample code](#)

## SHIPPING LIST

- BH1750 Light Sensor x1
- 5 pin male header x1