# State of the art

Smart-Eco Lamp

Smart Lighting: A Very Brief History of Light

<https://www.smartenlight.com/introduction-to-smart-lighting-a-very-brief-history-of-light/>

We use Arduino as development card, because we already have one.

We use AC-S901 Bright LED.

Because this one can change the brightness of the LED.

And it is easy to control.

<https://www.aliexpress.com/item/Free-Shipping-1pc-S901-LED-light-module-electronic-building-block-pink-white-red-blue-yellow-green/1987195830.html>

a bout the sensor

1. SparkFun RGB and Gesture Sensor - APDS-9960

<https://www.sparkfun.com/products/12787>

when people move pass this sensor, it may give a action message to the receiver.

2. Luminosity Sensor- TSL2561

<https://www.hotmcu.com/luminosity-sensor-tsl2561-p-187.html>

when the brightness change, this sensor may change the voltage.