

```
int ADC1;
float V,R,Lux;

void setup()
{
    Serial.begin(115200);
    pinMode(13,OUTPUT);
}

void loop()
{
    ADC1 = analogRead(A0);
    V = 5.0*ADC/1023;
    R = 10000.0*5.0/V - 10000.0;
    Lux = 12518931 * pow(R,-1.4);
    Serial.print(ADC1);
    Serial.print(",");
    Serial.print(V);
    Serial.print(",");
    Serial.print(R);
    Serial.print(",");
    Serial.println(Lux);
    delay(500);

    if(Lux < 20.0)
        digitalWrite(13,1);
    if(Lux > 25.0)
        digitalWrite(13,0);
}
```