

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

}

void loop()
{
  int AN0 = analogRead(A0);
  float V = AN0 *5.0/1023 ;
  float R = 5.0*10000/V - 1000;
  float lux = 12518931 *pow (R,-1.405);
  Serial.print (V);
  Serial.print (",");
  Serial.print (R) ;
  Serial.print (",") ;
  Serial.println (lux) ;

  if(lux >25.0)
    digitalWrite (13,0) ;
  if(lux<10.0)
    digitalWrite(13,1) ;
  delay(200) ;
}
```