

```
1  from pybricks.ev3devices import ColorSensor
2
3  # Wrapper class for colorsensor
4  # Allows for calibration of lightsensor
5  class LightSensor:
6      def __init__(self, port):
7          self.sensor = ColorSensor(port)
8          self.min = 0
9          self.max = 100
10
11     # Used to set each object's calibration values
12     def setCalValues(self, min, max):
13         self.min = min
14         self.max = max
15         #print(self.port, self.min, self.max)
16
17     # Calibrated version of colorsensor reflection()
18     def readLight(self):
19         raw_value = self.sensor.reflection()
20         if raw_value <= self.min:
21             return 0
22         elif raw_value >= self.max:
23             return 100
24         output = ((raw_value - self.min) / (self.max - self.min)) * 100
25         return round(output)
26
27     def color(self):
28         return self.sensor.color()
29
```