

```
def calculate_brightness(raw):  
  
    # Observed calibration values from testing  
  
    LDR_BRIGHT = 26000    # brightest environment  
  
    LDR_DARK = 39000      # darkest environment  
  
  
    # Clamp raw value  
  
    raw = max(min(raw, LDR_DARK), LDR_BRIGHT)  
  
  
    # Invert so bright = high value  
  
    inverted = LDR_DARK - raw  
  
  
    # Normalize to 0-100  
  
    brightness = (inverted * 100) / (LDR_DARK - LDR_BRIGHT)  
  
  
    return int(brightness)
```