**Adaptive Internal Lighting System: Algorithm**

1. Read *override* input
2. If *override ==* 1*,* jump to: 6
3. Read analogue input
4. Output PWM wave, with duty cycle corresponding to the analogue input value
5. Jump to: 1
6. Read *toggle* input
7. If *toggle* == 0, output = 0 and jump to: 1
8. Else output = 1 and jump to:1