

Power Reduction calculation for CT-01/P. Southern Europe

Conditions:

CT-01/P is built in in a Strata 70/50 W lightfitting.

A 70 W lightfitting consumes 85 W.

Between 21.00 - 05.00 the effekt of the lightfitting will be reduced.

The lightfittings burns with a reduced effect for an estimated 2920 hrs/year.

The lightfitting burns 4 380 hrs/year.

Energy price 0,11 euro/kwh.

Calculations:

Power consumption without timer: $85 \text{ W} \times 4\,380 \text{ hrs.} \times 0,11 = 41 \text{ euro}$

Power consumption with timer: $85 \text{ W} \times 1\,460 \text{ hrs.} \times 0,11 = 13,7 \text{ euro}$ and

$60 \text{ W} \times 2\,920 \text{ hrs.} \times 0,11 = 19,3 \text{ euro}$

Savings: $41 - (13,7 + 19,3) = 8 \text{ euro}$

Conclusion:

The timer in the lightfitting saves up to 8 euro/year.

The costs of the timer in the lightfitting is estimated at 33 euro.

The extra costs for the lightfitting will be paid off in 4 years.

Please observe that future rises in the electriciryates are not accounted for.

Your savings will be 20%.

