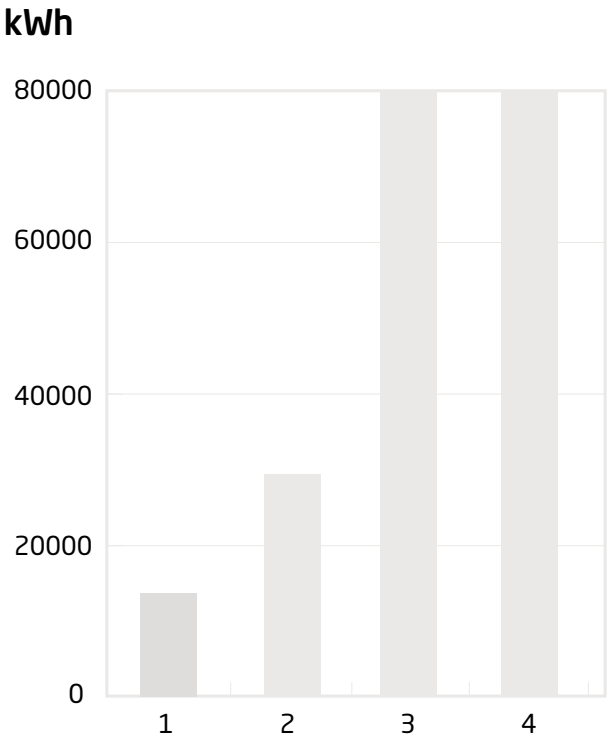
Energy savings

Potential energy savings

The potential energy savings are not small, and in many cases the light installation is repaid in less than three years. Energy efficient lighting makes good business sense. In this paper we have listed some examples on the potential energy savings by using NS46 instead of traditional metal halide lighting. Below you find an example of a typically 12 hour supermarket installation with different light sources. Response daylight harvesting sensors can provide further 30-35 % energy savings in window adjacent locations - helping to reduce operating expenses and comply with new energy codes.

Light source incl.ballast	Lifetime	System Efficacy	Energy Saving	Energy Density
1) Downlight NS46 LED 38W (40W)	13 years	114 LPW	-	7,32W / m^2
2) Downlight metal halide 70W (77W)	3 years	85 LPW	55 %	10,51W / m^2
3) Downlight halogen 500W (500W)	7 month	29 LPW	92 %	41,05W / m^2
4) Downlight QT HO 200W (200W)	9 month	35 LPW	86 %	34,01W / m^2

The calculation on the right proves that 80 pcs NS46 provides a high profit for the user. With energy savings upfront and in operation, choosing the NS46 instead of comparable architectural fluorescent options can deliver an estimated return on investment of less than one year in a typical supermarket installation with 12 hour operation.



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