

Application example

Office corridors



THE APPLICATION:

Corridors are often unoccupied for long periods, but are required to offer sufficient light levels when somebody enters.

In this example, a typical 10m corridor was previously lit by 10 50W Halogen fittings. Despite being vacant for a majority of the day, the 10 Halogen downlights were on constantly for approximately 10 hours; using 5Kwh of energy per day.

The fittings had narrow 30 degree beam angles, causing pools of light and resulting in insufficiently lit areas throughout the corridor.

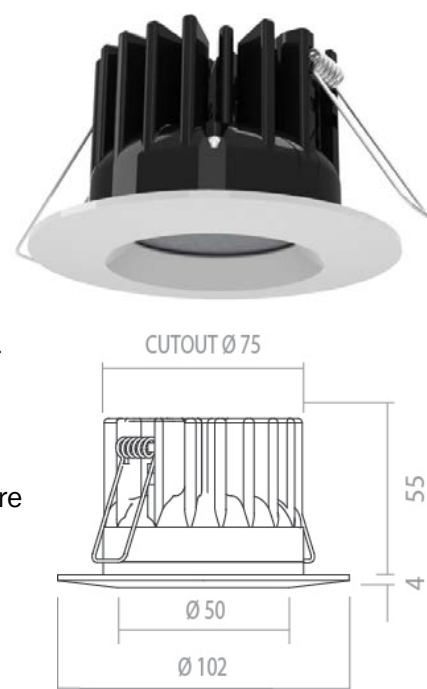
A Halogen solution would require maintenance due to bulb failure, inevitably costing money in both man hours and replacement bulbs.

THE SOLUTION:

The EcoStar 600 Downlights from the [EcoStar LED range](#) are 6.6w, using almost 90% less energy than a typical 50w Halogen bulb. The EcoStar fittings are compatible with various types of sensors and controls.

Unlike Halogens and also low cost LED fittings, the EcoStar downlights have a 70 degree beam angle; twice as few fittings are required for the corridor because of the wide light spread. The wide beam angle also allows for wall washing in the corridor, delivering evenly illuminated walls.

Once installed, EcoStar LED downlights require zero bulb replacements and minimal maintenance, whilst offering a lifetime of 50,000 hours (25 times more than a Halogens 2000 hour life).





PhotonStar™



Designed & Produced in the UK

tel/fax: 02381 230 381

email: info@photonstarlighting.com

THE PAYBACK (1 YEAR):

	COST
5 x EcoStar 600 6.6w	£175
10 x Halogen 50w	£40 + £60 replacement cost per year



ENERGY COSTS:

	EcoStar 600 (5 hours per day on sensors*)	Halogen (10 hours per day*)	SAVING (%)
COST P/A	£10	£195	95
Co2 P/A	25KG	709KG	95

Over 5 years - £900 saving*

*based on energy costs of 15p per Kwh and 5 days per week for 52 weeks.