



Lionheart Educational Trust

Leicestershire - LED Lighting Upgrade



"We are really pleased with the service and the quality of the fittings provided by Avanti Lighting. The assistance provided from the start of the project to roll out has been great. We are already seeing the benefits across our sites of improved lighting levels with reduced electricity consumption."

Mr Oliver Willis, Head of Estates

AVANTI

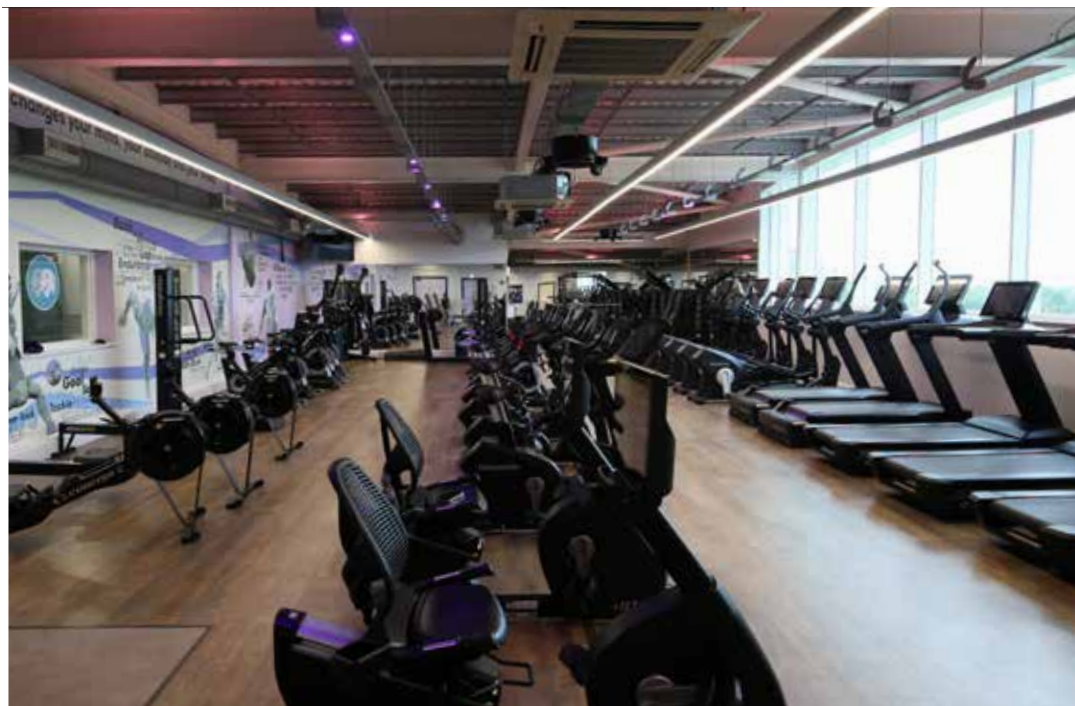
We were contacted by the Lionheart Educational Trust in Leicestershire, to look at putting together a scheme to upgrade all of their schools to energy efficient LED lighting along with the addition of PIR sensors in communal areas which would automatically turn lights on and off depending if the area was occupied. This would further increase the energy savings.

The aim of the project was to improve energy efficiency i.e. save the trust money on their running costs as well as to improve lighting levels throughout their buildings.

We started off by conducting surveys on all the schools within the trust to see the extent of existing LED lighting. Drawings were then made for each site detailing what fittings were required and where.

This then allowed for the creation of a list of materials for each site which could then be further drilled down by block/building, meaning that once the project started delivery could be made on a call off basis block by block making it easier for the electricians that were to carry out the installations.

We standardised on a range of fittings across the sites that will make life easier for the trust in the future as there is now uniformity across all sites meaning if they need to replace anything it will be easily identified.



EXTERNAL



All the lighting supplied conforms to the latest relevant standards and any design work undertaken by ourselves is done to the most current CIBSE guidelines.

STAIRCASES



CLASSROOMS



AVERAGE CLASSROOM

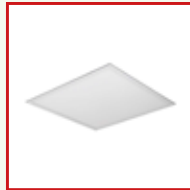
ENERGY COST (£/KWH) = 0.44 | BURNING HOURS OF LAMP (PA) = 1950

EXISTING

PROPOSED



Vs



4 x 18W T8
Recessed Modular

LED Modular

	EXISTING	PROPOSED
NUMBER OF FITTINGS	12	12
ENERGY USED	1684.8 KWH/PA	702 KWH/PA
ENERGY COST PA	£741.31	£308.88
ENERGY SAVED		982.8 KWH/PA
CARBON SAVED		0.35 TONNES
TREES SAVED		0.47



SAVINGS
£432.43 PA

CORRIDORS





OPEN AREAS

AVERAGE SPORTSHALL

ENERGY COST (£/KWH) = 0.44 | BURNING HOURS OF LAMP (PA) = 1170

EXISTING

PROPOSED



Vs



250W LOWBAY

LEDBAY
LED LOWBAY

	EXISTING	PROPOSED
NUMBER OF FITTINGS	12	12
ENERGY USED	3832.9 KWH/PA	1389 KWH/PA
CIRCUIT WATTS PER FITTING	279	99
ENERGY COST PA	£1686.48	£311.58
ENERGY SAVED		2442 KWH/PA
CARBON SAVED		0.86 TONNES
TREES SAVED		1.18



SAVINGS
£1074.00
Per Year



HALLS



STORES/PLANT ROOM



Installation carried out by
GTE Electrical Services Ltd
Tel: 07973 341 826
www.gteelectrical.co.uk

AVANTI
— LIGHTING —

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