



Golders Green Train Care Centre

Project:

An Energy Saving Install to increase light levels, reduce electrical power consumption and carbon footprint within the Train Care Centre.

Location: London



The principal objective of the project was to improve lighting levels within the five sheds including stores areas on site whilst achieving a significant reduction in electrical power consumption. This in turn offered a proportional reduction in electrical lighting costs and impact favourably on Alstom Transport carbon reduction targets.

The original lighting was replaced by new energy saving light fittings, primarily on a "like for like" basis. This concept has two advantages over complete redesign - the electrical loading on the existing circuits was reduced eliminating the requirement to replace, which in turn reduced installation time, material and man power cost. The new lighting itself is more efficient and offers higher lux levels than the original lighting manifesting in either similar or improved lighting levels.

The ultimate measurement of how successful the project has been was reflected by - the amount of electricity consumed by lighting in a given time period compared with an equitable time period when the original lighting was operational, and the amount of light (lux) emitting from the new fittings as compared to the amount of light that was emitted from the original fittings.

The light fittings selected for the project were from the TamLite range, these include fittings which have an optional integral microwave sensor presence detector together with a daylight control allowing "dim back" or switch off in a vacated area and "dim back" in natural light. Each individual fitting is programmable and is designed to meet the client's lighting requirement.

All lighting design meets CIBSE lighting requirements.

All electrical work undertaken on the project complies with the requirements of BS 7671:2008

