

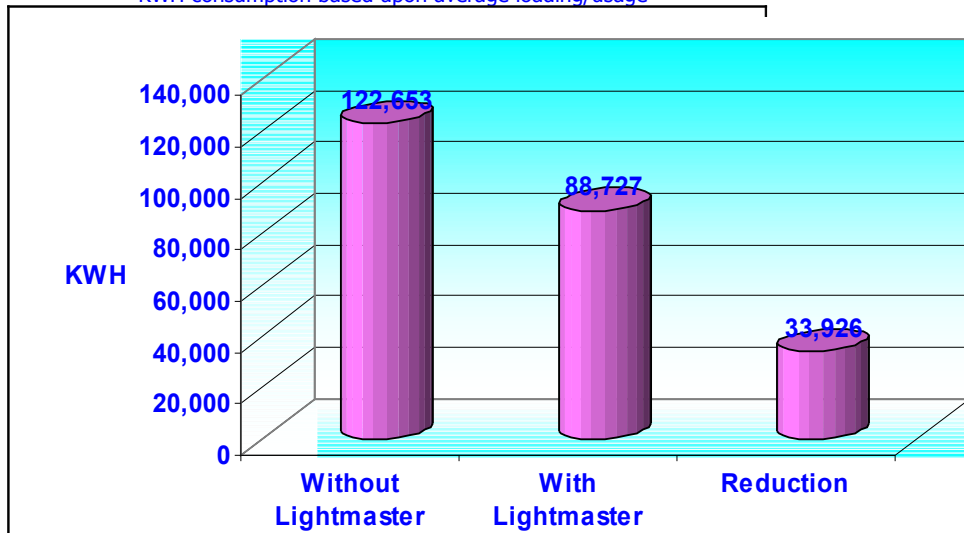
MULTI STOREY CAR PARK – GROUND FLOOR

BACKGROUND

To ascertain the rating of equipment required by the customer, SDC Industries Ltd initially carried out a survey of all areas of the multi-storey car park - including the current distribution system and lighting load. The car park has four floors, and it was decided that a **15KVA, 3 Phase, 415V, 50Hz Varmatic Lightmaster c/w integral kilowatt hour (kwh) meter** would be installed on each floor, to ensure maximum savings to our client. Illustrated below are the results from the ground floor area of the car park.

| | |
|---|---|
| No. and Type of Lights | : Fluorescent – 220 Single 58W fittings per floor |
| Total Lighting Load | : 14.04KW (incl. losses) |
| Lights in Operation (hrs/days/week) | : 24 hrs/day, 7 days/week, 52 weeks/year |
| Connected to | : Lighting Distribution Board |
| Reduction in Lighting Load (KW) with Lightmaster installed | : 3.88KW (28% REDUCTION) |
| Price per unit of Electricity (incl. CCL) | : 4.98p |

*KWH consumption based upon average loading/usage



RESULTS

TOTAL CASH SAVING (£)

Reduction on Total Load (KW) x Unit Cost of Electricity
= 3.88KW x 4.98p
= **19.32p / hr**
= **£4.64 / day (24 hrs/day)**
= **£32.46 / week (7 days/wk)**
= **£1,688 PER YEAR (52 wks/yr)**

TOTAL PERCENTAGE SAVING ON LIGHTING COSTS = 28%

PAYBACK = 1.8 YEARS