



Case Study

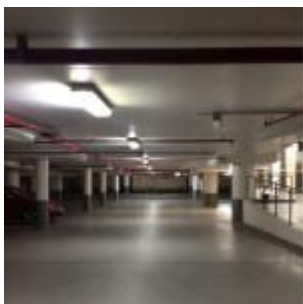
Car Parking Areas - 40 Miller Street, North Sydney.

Project Scope

The lights in the underground car parking areas at 40 Miller Street were coming to the end of their useful life and required constant maintenance, tube changing and replacement of failed fittings. With the ever-increasing burden of rising energy and maintenance costs, it was decided that the energy-hungry twin T8 fluorescent lights and 250 watt low bay units should be upgraded to the more efficient Prolume LED fittings.

Approach

The project comprised 107 twin T8 fluorescents battens and 9 lowbays. The replacement car park lights are Prolumes patented Australian-made batten lights. The outgoing lights were consuming 105 watts each and were replaced with Prolume's fixed output 22 watt batten lights. For the entry ramp, Prolume's direct AC to AC 120 watt flat panel highbay lights were used. This has nearly tripled the light in this area, providing a safer environment for vehicles and pedestrians. Total time for the replacement of all lights was under two days. Prolume's recommendation not to replace the 36 non-maintained emergency fittings was adopted by the owner. These lights are still working to code and there seemed little benefit to be gained in their replacement.



Carpark - Before



Carpark – After



Entry Ramp – Before



Entry Ramp - After

Results

Savings are more than 49,000 kWh's of energy per annum, which with maintenance savings, equates to approximately \$13,500 annually. Return on investment is expected to be within 25 months from the project completion. The car park will be maintenance free until November 2020 due to the generous 5 year warranty on the batten lights. In addition to the lower operating costs, the light levels have been dramatically improved. Lux levels have increased to a level sufficient to now comply with BCA standards.

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