

Case Study

LightSense®

Fast Food Chain, McDonald's UK, Bromley

Commercial Lighting

McDonalds UK, Bromley—LightSense® Reduces Costs & Boosts

Performance with 50W LED Non-Corrosive

£2,096 savings on energy costs in first year



Project Information

The Client Fast food chain, McDonald's, Bromley, UK

The Brief: Client wants to reduce energy costs and boost lighting performance.

LightSense® Products 50W LED Non-corrosive,

used: 50,000 hours, 4600lm, Emergency light, optional

THE BRIEF

The client is one of the worlds largest fast food chains and deals with serving millions of customers everyday. The Bromley store is open for 18 hours a day, leaving the lights in operation for large periods of time. The lengthy operation period, coupled with the high power draw of the existing fittings led to the client seeking an alternative to reduce their excessive energy expenditure.

T: 01206 890248

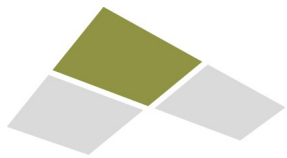
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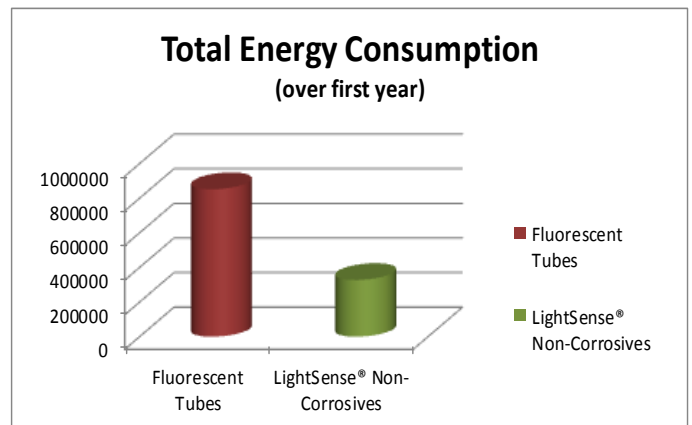
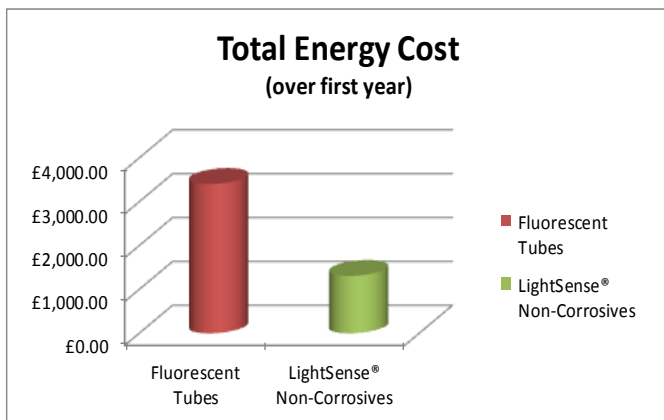
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THE SOLUTION

To replace the 130W fluorescent Non-Corrosive with the LightSense® 50W LED Non-Corrosive. A vast improvement of lighting levels was achieved and energy costs were reduced by £2,096 in the first year. Over the lifespan of the light fittings, the client will save an estimated £17,283.93. The 50W Non-Corrosive is a low maintenance alternative to the existing fittings and offers the client high ingress protection from moisture, dust and vandalism. The lighting levels are ideal for staff that work long shifts, allowing improved concentration and better overall performance.



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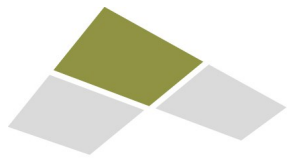
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THE RESULTS

Cost Saving Analysis	Existing Lights	New Non-Corrosive	Savings
Number of Lights	40	40	
Energy Usage (watts) Per Light	130	50	
Daily Usage (hours)	18	18	
Usage Per Annum (days)	364	364	
Total Energy Usage Per Annum (watts) Per Light	851760	327600	
Kw/Hour	851.76	327.6	
Total Kw/hr Per Annum for All Lights	34070.4	13104	
Energy Cost at 10p per KW/hour	£ 3,407.04	£1,310.40	
Annual Saving on Energy Costs			£2,096.64
Potential Saving Over the Life of the LEDs			£ 17,283.93
Average Lamp Life (Hours)	8000	50000	
Replacement Period	1.22	7.63	
Total First Year Savings			£2,096.64
Total Energy Saving Over LED Lifespan. Energy costs rising at %% annually			£17,070.86
IRR at 2% starting after year 3 until year 8			<u>£213.07</u>
Potential saving over the life of the LEDs			<u>£17,283.93</u>

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