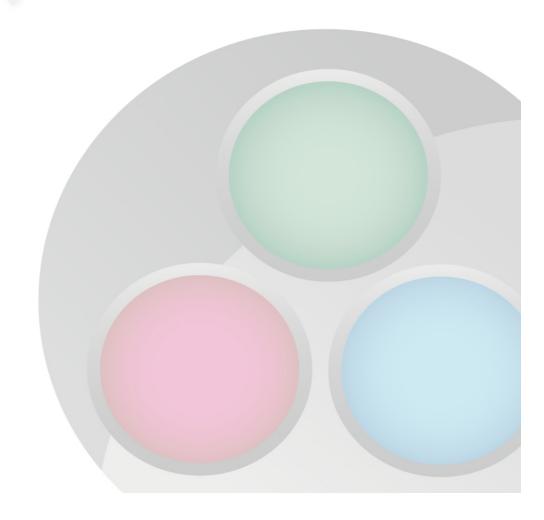


# **Lighting Audit Report**

# Sample Report





### **Quotation Letter**

Our Ref: SAMPLE Your Ref: SAMPLE

Date: 2015

Dear Client,

Many thanks for the information supplied, and for the opportunity to quote for the supply and installation of LED lights to replace your existing system.

As previously explained LED is the current technology available as an alternative to existing incandescent and low energy compact fluorescents.

The benefits are considerable when taking into account up to 71% energy savings while matching the light output from conventional lighting, and with added benefits such as up to 50,000-hour lamp life and a reduction in maintenance and fluorescent lamp replacement costs.

The figures quoted are based on a survey carried out by us. We have also provided installation and system commisioning costs by our recommended contractors separately.

Continued....

Tel: 01332 811166



### **Final Cost**

Our Ref: SAMPLE Your Ref: SAMPLE

Date: 2015

### To supply, install and commission the following

80 x 45W 600 x 600 panels LDS-P6060/45	Cost each	£90.00
25 x 240mm Circular panels LDS-DP/240/15	Cost each	£45.00
40 x 158W High Bay Light LDS-HB/158	Cost each	£180.00
10 x 100W Flood Lights LDS-FL100	Cost each	£120.00
	Total	£16,725.00
Electrical and mechanical install and commission (includes Access Equ	uipment)	
Total Project cost. (Excluding VAT)		£3,100.00
Total Project cost. (Exclosing VIII)		£19,825.00

Should you require any further information or assistance please do not hesitate to contact me.

**Yours Sincerely** 

Alan Sum

Managing Director



### Introduction

The purpose of this report is to detail the savings available through using our Array Series of low-bay lights. There are fiscal and environmental advantages to using our energy efficient luminaries through the reduction of your carbon footprint and up to 71% electricity savings vs Fluorescent.

#### **LED Luminaries**

LEDs last substantially longer than other lighting options (up to 50,000 hours), making them ideal for high or hard to reach locations. This cuts down on maintenance and replacement costs while providing reliable illumination. Additionally, LEDs achieve full brightness almost instantly - having no warm-up time at all is good for health & safety and productivity.

#### <u>Carbon Trust Funding - Provided by Siemens Finance</u>

The carbon trust in partnership with Siemens Finance is able to provide very competitive finance solutions to enable customers to take advantage of the cost savings from using LEDs while paying off their initial cost over a number of years.

We are happy to liaise with the finance provider and your accounts team with regards to any technical information needed throughout the application process.

#### **Enhanced Capital Allowances**

Our energy saving LEDs are ETL (Energy Technology List) compliant which qualifies them for tax relief through Enhanced Capital Allowances.

Tel: 01332 811166



### **Report Summary**

Client: Sample Site: Sample Survey Date: 2015

Based on information gathered from the lighting survey and our proposed lighting solution, we can estimate your current annual lighting energy costs and savings when switching to our LED products.

Energy	Breakdown	C	urrent	LED
	Annual lighting energy usage		74,438.00 kWh	21,793.85 kWh
	Carbon emissions from lighting		36,791.73 kg	10,771.83 kg
	Current energy price	£	0.12 per kW	h
	Expected energy cost increase %		2 %	
Savings	s Overview			
	Annual reduction in energy usage		52,644.15 kWh	
	% Energy savings		70.72%	
	Reduction in carbon footprint		26.02 tonnes	
	First year energy savings	£	6,317.30	
	Five year energy savings in warranty period	£	28,146.16	
	Six year energy savings**	£	34,117.60	
	Seven year energy savings**	£	40,208.47	

<sup>\*\*</sup> Six and seven year savings are estimated savings beyond warranty period

### **Total Saving After Initial Cost**

Full proje	ect cost including installation	£	19	9,825.00 +VAT

#### Estimated payback in 2.5 years

Savings over 5 years after payback	£	8,321.16
Savings over 6 years after payback	£	14,292.60
Savings over 7 years after payback	f	20.383.47



## 5 Year cost savings comparison table

Job Title:	Sample
Quote Ref:	Sample
Date:	xx/xx/2015
Prepared by:	Alan Sum

Number of days usage per year	Hours per day	Estimate cost per kWh (£)	Yearly energy price increase
260	10	0.12	2%

												Total Energy	Cost			
	Location	Туре	Count	Unit price	Wattage	Initial Cost	Installation	1st Quarter	Year 1	Year 2	Year	r 3 Yea	ır 4	Year 5	Year 6	Year 7
•	Offices	Fluorescent Tube T8 2ft	320	2.00	24	640.00	1,600.00	599.04	2,396.16	2,444	08	2,492.96	2,542.82	2,593.68	2,645.55	2,698.47
ב ב		2D Downlight	25	15.00	38	375.00	500.00	74.10	296.40	302.	33	308.37	314.54	320.83	327.25	333.79
	Warehouse	SON Light	40	100.00	400	4,000.00	800.00	1,248.00	4,992.00	5,091	84	5,193.68	5,297.55	5,403.50	5,511.57	5,621.80
2	Exterior	Halogen Floodlight	10	80.00	400	800.00	200.00	312.00	1,248.00	1,272	96	1,298.42	1,324.39	1,350.88	1,377.89	1,405.45
											47					
		Totals:	395			£5,815.00	£3,100.00	£2,233.14	£8,932.56	£9,111.	21	£9,293.44	£9,479.30	£9,668.89	£9,862.27	£10,059.51

							Total Energy Cost									
Location	Туре	Count	<b>Unit Price</b>	Wattage	Initial Cost	Installation	1st Quart	ter	Year 1		Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Offices	600 x 600 LED Panel	80	90.00	45.0	7,200.00	1,600.00		280.80		1,123.20	1,145.66	1,168.58	1,191.95	1,215.79	1,240.10	1,264.91
	240mm Circular LED Panel	25	45.00	15.0	1,125.00	500.00		29.25		117.00	119.34	121.73	124.16	126.64	129.18	131.76
Warehouse	158W LED High Bay	40	180.00	158.0	7,200.00	800.00		492.96		1,971.84	2,011.28	2,051.50	2,092.53	2,134.38	2,177.07	2,220.61
Exterior	LED Floodlight	10	120.00	100	1,200.00	200.00		78.00		312.00	318.24	324.60	331.10	337.72	344.47	351.36
	Totals:	155			£16,725.00	£3,100.00	1	£881.01		£3,524.04	£3,594.52	£3,666.41	£3,739.74	£3,814.53	£3,890.82	£3,968.64

Initial Cost: £19,825.00



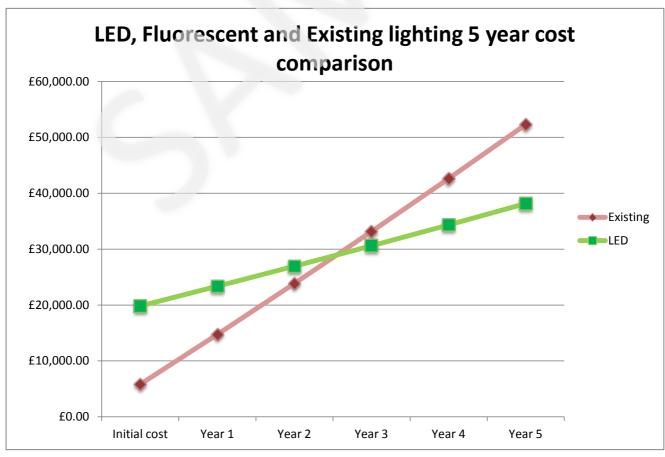
### 5 Year cost savings comparison chart

### Existing and LED lighting 5 year cost comparison

	Initial cost	Year 1	Year 2	Year 3	Year 4	Year 5
Existing	5,815.00	8,932.56	9,111.21	9,293.44	9,479.30	9,668.89
LED	19,825.00	3,524.04	3,594.52	3,666.41	3,739.74	3,814.53
<b>Cumulative LED Savings</b>	-14,010.00	-8,601.48	-3,084.79	<b>2,542.</b> 23	8,281.80	14,136.16

### **Cumulative Existing and LED lighting 5 year cost comparison**

	Initial cost	Year 1	Year 2	Year 3	Year 4	Year 5
Existing	5,815.00	14,747.56	23,858.77	33,152.21	42,631.51	52,300.40
LED	19,825.00	23,349.04	26,943.56	30,609.97	34,349.71	38,164.25



<sup>\*</sup> The cost savings estimates do not include replacement costs for existing lamps during the expected life of LDS LED lights.



# **Lighting Audit Report - Breakdown**

Offices												
Descripton	Сар	Wattage	Days	Hours/Day	Count	k¹	Wh	Dimmer	Replacement	Replacement Count	Wattage	Replacement kWh
Fluorescent Tube T8 2ft	G13		24	260	10	320	19,968.00	N/A	600 x 600 LED Panel	80	_	9,360.00
2D Downlight		3	38	260	10	25	2,470.00	N/A	240mm Circular LED Panel	25	1	.5 975.00
				Total		345	2,470.00			105		975.00
Warehouse												
Descripton	Сар	Wattage	Days/W	eek Hours/Day	Count	k¹	Wh	Dimmer	Replacement	Replacement Count	Wattage	Replacement kWh
SON Light		40	00	260	10	40	41,600.00	N/A	LED High Bay	40	15	16,432.00
				Total		40	41,600.00			40		16,432.00
Exterior												
Descripton	Сар	Wattage	Days/W	eek Hours/Day	Count	k¹	Wh	Dimmer	Replacement	Replacement Count	Wattage	Replacement kWh
Halogen Floodlight		40	00	260	10	10	10,400.00	N/A	LED Floodlight	10	10	2,600.00
				Total		10	10,400.00			10		2,600.00
						Count le	Mila			Cannat		Pontacoment MA/h
				Constant			Wh			Count		Replacement kWh
				Grand Total		395	54,470.00			155		20,007.00