

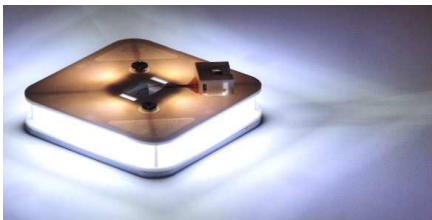


Clear Channel UK Ltd uses QL4 QuarterLites to reduce energy consumption in its 6-Sheet bus shelter advertising boxes in the UK. A special retro-fit was developed to suit this size of box and make it very quick and easy to install on site.

The QL4's use the latest high power LEDs to reduce energy consumption by 71%. The light output more than matched the fluorescent tubes they were replacing in this high (ambient) brightness area. They require no maintenance for over 50,000 hours.

**Energy saving 71%**

**Maintenance free 11.9 years**



Installation using QL-6SH15 retro-fit kit in Oxford Street, London. These pre-assembled kits make it very quick and easy to re-lamp these 6-Sheet advertising boxes on site.

### QL4 Specification:



Light output	400 - 428 Lm
Half life	50,000 + hours
Input current	350mA, 4-12v, 4w
Wave guides	Silver ABS plastic
Heat Sink	Aluminium
Op/temperature	Ambient + 6° C
Size	80 x 80 x 24 mm
Weight	75 g
Guarantee	2 years

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Fluorescent	Qty	Item	Wh	Wh	Wh	Total	CO2	Carbon
Size			Unit	Total	kWh	cost 5Y	Kgs	Kgs
1200 x 1800	4	5' Fluorescent tubes	58	232	970	497.68		
<b>Total kWh per year</b>					<b>970</b>	497.68		
Tubes/disposal						62.50		
<b>Total cost</b>						<b>£560.18</b>	<b>2,604</b>	<b>710</b>
QuarterLite	Qty	Item	Wh	Wh	Wh	Total	CO2	Carbon
Size			Unit	Total	kWh	cost 5Y	Kgs	Kgs
1200 x 1800	1	QL- 6SH15	66	66	276	141.58		
<b>Total kWh per year</b>					<b>276</b>	<b>£141.58</b>	<b>741</b>	<b>202</b>
<b>Saving</b>					<b>694</b>	<b>£418.60</b>	<b>1,863</b>	<b>508</b>
<b>71.55%</b>						<b>74.73%</b>	<b>71.55%</b>	<b>71.55%</b>

### Key:

**Wh (Unit)** = Watts of electricity used per hour by each tube or QL4  
**Wh (Total)** = Qty x Wh (unit)  
**12/365\* (kWh)** = Wh (total) x 12 hours x 365 days / 1000 = kWh per year  
**Energy (cost 5/Y)** = kWh x cost of energy\*\* of 5 years.  
**CO2** = The amount of CO2 (Kgs) produced as a result of generating the **Total kWh per year**  
**Carbon** = the equivalent Carbon (Kgs) produced from the **Total kWh per year**  
**Total kWh per year** = Total energy use in 1 year for each lighting system  
**New Tubes / Disposal** = cost of replacing and disposing of fluorescent tubes over 5 years  
**Saving** = difference between the two lighting systems in kWh, Energy costs, CO2 and Carbon  
 (note: This excludes the savings in maintenance)

\*Over 11.9 year's maintenance free. \*\*Energy cost forecasts from UK Government source.