



Sign Lights

Vimto

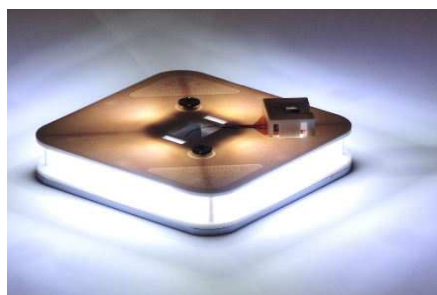
Vimto is a purple, fruity soft drink manufactured by Nichols Plc. They have installed a 5000 x 2000 mm Flex-face sign at their head office on the A49, M6/ Haydock junction (J23) in North West England. The sign is illuminated by 70 QL4 QuarterLites as a bright, low energy alternative to fluorescent tubes.

The QL4's use high brightness LEDs to reduce energy consumption by 84% and require no maintenance for over 50,000 hours.

Energy saving 84%

Maintenance free for 11 years

Suitable for a Carbon Trust interest Free Loan



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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The Vimto sign on the left seen at dusk from the M6 motorway and close up above. QuarterLites produce a crisp even illumination across the whole sign. Installed by Bensons Signs Ltd, Liverpool.

Fluorescent	Qty	Item	Wh	Wh	12/365	Energy	CO2	Carbon
Size			Unit	Total	kWh	costs 5/Y	Kgs	Kgs
5000 x 2000	24	72" T8 Fluorescent tubes	70	1680	7,358	3776.33		
	24	Ballast	10	240	1,051	539.48		
Total kWh per year					8,410	4315.81		
						New tubes	234.00	
						Tube disposal	252.00	
						Total	4801.81	22,580
Carbon								6,160
QuarterLite	Qty	Item	Wh	Wh	12/365	Total	CO2	Carbon
Size			Unit	Total	kWh		Kgs	Kgs
5000 x 2000	14	QL-Kit 5	22	308	1,349	692.33		
Total kWh per year					1,349	£692.33	3,622	988
Saving					7,061	£4,109.48	18,958	5,172
					83.96%	85.58%	83.96%	83.96%

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 years maintenance free. **Energy cost forecasts from UK Government source.