

**PHILIPS**

Lighting

TrueForce LED



## Case Study

Philips TrueForce provides  
Fast track to LED for Sheffield's  
Stagecoach Supertram





Before

## Simple retrofit solution offers improved energy efficiency and performance with minimal disruption

### Project overview

Sheffield's popular Stagecoach Supertram serves 10.5 million passengers every year and offers residents and visitors fast and convenient access to popular areas around the city. The service's operator saw the potential for an upgraded lighting system that would provide a brighter, safer environment for passengers waiting at tram stops around the city, while dramatically cutting energy consumption

### Customer Challenge

The city's tram stops had previously been fitted with energy-intensive Son-T lamps. They were expensive to run, consumed a lot of energy, and offered suboptimal visibility. Stagecoach Supertram wanted to offer passengers enhanced peace of mind by creating a more secure and reassuring environment, with better CCTV visibility. But modernizing the existing luminaires at all 50 stops could be expensive, disruptive to the service and its customers, and time consuming.

### Solution

Following an extensive research project, Stagecoach Supertram opted to replace all the traditional 150W Son-T lamps with Philips TrueForce 40W LED Road lamps. The upgraded lamps are easily mounted within existing fixtures and work with the luminaire's optic to ensure the light is photometrically positioned correctly. Improved colour rendering enhances customers' comfort and security at tram stops, enhancing the quality of CCTV footage. The lamps require less maintenance and have a long service life, improving their reliability and cutting down on costly replacements and maintenance visits. Importantly the system consumes significantly less electricity, from approx. 180 circuit watts to 40W per luminaire, offering a payback period of around just 12 months. With a low upfront investment, Stagecoach can generate long-term energy savings and create a positive environmental impact.



After

### Philips TrueForce LED Road lamps

Philips LED Road lamps are an easy LED solution with a short payback period, suitable for replacing all types of High Intensity Discharge (HID) lamps, such as SON, Mercury, Metal Halide and SOX. TrueForce LED solutions bring the energy efficiency and long lifetime benefits of LED to HID replacement, providing instant savings for a low initial investment. With the right lamp size and light distribution, you can easily retrofit TrueForce LED road lamps into existing SON and SON-T systems, enhancing the lighting quality with LED without changing the luminaire's ballast or reflector.

### Benefits

- Energy-saving lamps with short payback time
- Low initial investment
- An easy way to enhance lighting quality
- Instant strike and restrike

### Features

- High energy efficiency
- Long lifetime of up to 50,000 hours
- Right size and light distribution for retrofits
- Direct LED replacement, no need to change the luminaire
- Pleasant white light with CRI70
- Direct mains (no gear)





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