



Before



After



## **Energy Efficient Lighting**

The scope of the works was to completely relight the Tunnel which had become a dark and unwelcoming place. The aim was to provide a good level of functional lighting which would improve visibility for both vehicular and pedestrian traffic whilst adding a decorative aspect to it which could improve the overall experience of end users especially those using sustainable forms of transport. Together the aim was to reduce the perceived risk and fear of crime whilst possibly aiding the night time commercial environment which is in the immediate area.

The works carried out included the complete removal of 60 No 150w SON functional units which were replaced with 30 No 140w CPO functional units. This was further supported by the installation of 11 No 40w LED units to illuminate the bridge façade and 12 No 12w Colour Changing LED units in the central steel section of the bridge. The result was a 58.40% reduction in energy, carbon and electricity costs. Despite these reductions the tunnel is now lit to a higher level using a light source that greatly improves the ability for the end user to detect shapes, sizes and colours of other road users as well as obstacles. The view of the lighting team at Southwark is that these reductions can be gained without compromising our social responsibility.