

# Case Study

Ashford and St. Peter's Hospitals   
NHS Foundation Trust

## The Trust:

Ashford and St Peter's Hospitals NHS Foundation Trust operate from two sites, St Peter's Hospital in Chertsey, Surrey and Ashford Hospital in Middlesex. The Trust is the largest provider of acute hospital services in Surrey, serving a population of more than 380,000 people in the boroughs of Runnymede, Spelthorne, Woking and parts of Elmbridge, Hounslow, Surrey Heath and beyond.

## The Trust's Objectives:

The Trust has four key objectives when considering lighting improvements:

1. Benefit Patients: to provide an environment that aids a patient's recovery.
2. Benefit Staff: to provide an environment that enables staff to carry out visual tasks correctly.
3. Benefit the Environment: to reduce carbon emissions.
4. Benefit the Trust: to reduce the cost of operating the hospitals.

The Trust's project team take great care in the design of the lighting to provide a scheme which is appropriate to the location. This ensures that the lighting levels and colour rendering are in line with the Trust's objectives for patients and staff.

**76%**  
Energy Saving

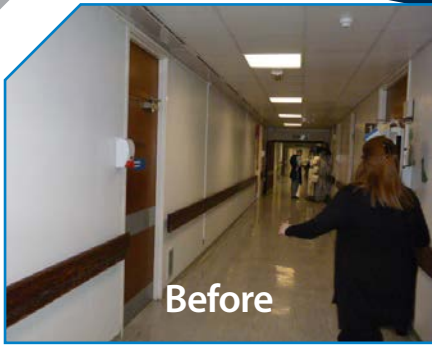
"Good quality lighting design assists in providing a high quality aesthetically pleasing visual environment for patients and staff. There is no contradiction between this primary objective and low energy design."

**Richard Egerton**  
Project Manager Capital Projects



Pictures supplied by ASPH NHS FT





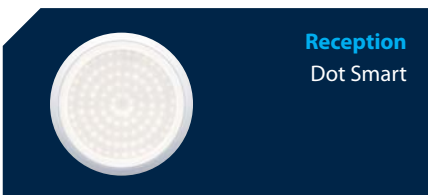
Before

Pictures supplied by ASPH NHS FT



After

## Products Used:



**Reception**  
Dot Smart

Circular LED luminaires suitable for surface or semi-recessed mounting.



**Pathology Department**  
Jubilee-XL  
Smart

T5 surface mounted controller/  
louvre luminaires.



**Theatre Corridors**  
Jubilee  
Smart

Surface mounted shallow profile  
controller luminaires

## The Thorlux Solution:

Thorlux Lighting has been involved in a number of installations at Ashford and St Peter's Hospitals NHS Foundation Trust. These include:

### Reception:

20W LED circular Dot luminaires were installed to promote a more positive atmosphere and achieve large efficiencies. The result was a reduction in the electrical load from 1468 Watts to 345 Watts (76%).

### Pathology Department:

The pathology department reduced their lighting load by 22kW (51%) by installing a mix of Jubilee-XL Smart and Jubilee Smart fittings as appropriate for each room. The addition of Smart Controls gave an overall reduction of 68%.

### Theatre Corridors:

Jubilee luminaires equipped with energy efficient Smart control gear were installed and positioned off centre along the corridor. The positioning ensured that patients on trolleys are not subjected to glare and stroboscopic effects that can be distressing.

"... for offices, where Thorlux's Jubilee XL range has gained such an outstanding reputation, it is unlikely one will find a better alternative"

## Smart

The Thorlux Smart System exploits the latest 'Digital Technology' to provide a simple, effective method of lighting control which minimises energy consumption whilst retaining high levels of user comfort.

A discrete sensor integral to the luminaire monitors ambient light and presence controlling output to the correct level, and ensuring that the area is only illuminated when occupied.

"The best results have been achieved with multifunction detectors which provide both presence and daylight sensing. These have adjustable twin timers for staged dimming/off along with daylight dimming; sometimes referred to as daylight harvesting. These achieve high levels of occupant satisfaction in both working areas and circulation spaces."