



# Case study

## Franklin Healthcare Center

Location  
Philips Lighting

New Jersey, USA  
Philips Dynalite Controls

**PHILIPS**  
dynalite

## Background

When Franklin Healthcare (FHC) began planning a major renovation program of its healthcare facilities, it set out to create a care environment with a residential feel, which would provide as much autonomy for the resident as possible in a clinical setting.

The Franklin Healthcare Center is a multi-building facility, spread over several campuses, providing long-term care to patients. As well as standard patient beds, the hospital has an acute care wing catering for the critically ill requiring specialized treatment programs and therapeutic interventions, including renal dialysis.

A significant focus of the renovation was to install a lighting control system that would improve the healthcare environment, reduce energy costs and most importantly, give patients easy and individual control over their immediate surroundings.

Philips Controls worked closely with FHC to design a sophisticated and responsive lighting management using a Philips Dynalite control solution, that incorporates DALI and BMS to deliver superior performance, minimize energy costs and provide a level of patient control that is groundbreaking in the healthcare sector.



## The challenge

One of the main considerations was to alleviate a patient's sense of everything being taken from their control when they enter a healthcare facility. The owner was interested in installing technology that would improve the patient experience as well as help staff to do their jobs more efficiently.

### Enhancing patient care

It was critical that the lighting control solution would provide a high quality visual environment that was comfortable and safe for patients and nursing staff. The objective was to provide controls that really would help promote patient wellbeing and comfort.

While the focus of the facility is on the wellbeing of its patients, it was also important that the lighting solution could lower energy costs and minimize maintenance costs.

The Franklin Healthcare Center is the first refurbishment of a healthcare facility to incorporate DALI and a BMS to deliver a superior user experience, system performance and facilities management.

## The solution

Philips Controls worked with FHC to design a lighting control system that would increase visual appeal and efficiency as well as provide controls that would improve patient wellbeing and comfort.

In order to evaluate the most appropriate lighting solution, the Philips Controls team designed it around the people who would experience it. They actively put themselves in the patients' shoes and asked questions such as whether colored LEDs would affect a patient's night vision and sleep cycles or whether the operation of a particular pushbutton control was simple and intuitive.

An important part of the project was the development of a simple interface to the existing building management system to automatically turn off HVAC and lighting when a room is vacant.

### Personal control with one button

The same interface allows patients personal control of lighting and air conditioning through a swing arm bedside touchpad.

Dubbed 'The Cockpit', the unit has buttons to control the headlight, the ambient lighting and footlights. There is also a keypad by the door that allows healthcare workers to adjust lighting.

The lighting solution was initially installed in a 92-bed facility and will progressively be rolled out across all the Center's facilities as they are refurbished.

One of the challenges of the project was working around the patients and staff. The solution was to break the project into ten phases and relocate small groups of people for minimal disruption while the work was carried out.

### Products and technology used

Simple to install and commission, the DALI lighting control system has solved complex lighting tasks cost effectively and with maximum flexibility.

The remote access capability of the Philips Dynalite management software has been installed in anticipation of all seven FHC facilities eventually being renovated and linked together on the Philips network, enabling the facilities manager to monitor and control all the buildings from one location.



## Fast facts

### Customer

Franklin Healthcare Center

### Location

New Jersey, USA

### Products

DMBC320-DALI-NA DALI Dimmer Controllers, DLP Standard Series Control Panels, DTP Color Touchscreens (at nurses stations), DDNG485-NA Network Gateways, DUS804C Multifunction Sensors, BACnet Connectivity.

### Lighting Solutions

Visual appeal and energy efficiencies through lighting control in healthcare facilities, hospitals, patient rooms.

## Benefits

The lighting solution has been custom designed to give patients better control over their personal comfort as well as to help build a cost-effective healthcare facility.

### Flexible and dynamic control

In most healthcare situations, patient control of lighting is usually limited to switching the lights on or off. The Philips Dynalite solution is fully integrated into the building management system, which allows patients and carers to directly control a wide range of resources.

So far, FHC is enjoying the flexibility of the system and what it can do. When all the patient rooms are completed, they will really start to see the power of the system.

FHC is keen to implement the lighting solution in its other facilities to provide the same functionality to all the patients in its care.



[www.philips.com/dynalite](http://www.philips.com/dynalite)



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