Lighting for Elderly Patients and Dementia Wards

Creating comfort and better living through compassionate lighting
“Ensuring that those living with Dementia can be safe, secure and live well”
Ward LED

The Ward LED has been developed as a multi function dedicated over bed luminaire. It can provide the recommended distinct illumination levels for minor examination, reading and observation lighting.

Meets updated CIBSE LG2 requirements

- Dimmable between 15 lux and 300 lux (observation lighting and patient reading)
- Switchable to 500 lux for minor examination
- IP54 rated

Using high quality LED products means the Ward LED has an excellent maintenance cycle and offers energy saving over a comparable system using traditional technology.

Control switch

Dedicated control switch for operation of Ward LED. Left control switches and dims between 15 lux for watch lighting and 300 lux for patient reading. Right hand switch overrides to 500 lux for minor examination.

“Delivering consistently high quality lighting for Dementia care”
The CareLux system gives a complete package of lighting dedicated for Dementia wards. It covers a dynamic lighting system which provides general lighting with a variable colour temperature from 3000K to 6500K. The system mimics the colour temperature and relative brightness of daylight, stimulating the circadian rhythm. This promotes the correct hormone levels in the human body maintaining a healthy sleep and wake cycle.

“There is a lot of interest in lighting for Dementia patients due to the high profile discussions by the government”.

“CareLux is a fully scalable system, from an individual room to multiple wards”
General Lighting

The general lighting gives a uniform light to the rooms and provides the variable colour temperature.

Using entirely high quality LED products means the CareLux system has an excellent maintenance cycle and offers energy saving over a comparable system using traditional technology.

- Variable colour temperature 3000K - 6500K
- Fully dimmable between 1% and 100%

The luminaires have been developed with hospital engineers, Dementia Consultants and installers to ensure the units provide the correct illumination, where and when it’s needed. They have also been designed to be easy to install.
Prevents incidences of phantasmagoria or hallucination which may be caused by indirect night lighting.

Night Lighting

Using the Lunar LED night light achieves the recommended levels stipulated by CIBSE in the Lighting Guide for Hospitals and Healthcare buildings. It has a warm LED source and a smooth beam using a darklight reflector to prevent any of the patients seeing the light source which could prove problematic with certain patients.

Achieves CIBSE recommendations

- 10 lux Maximum
- 5 lux Average
- < 0.5 lux on bedhead

“Prevents incidences of phantasmagoria or hallucination which may be caused by indirect night lighting”
Coloured Lighting

As part of the CareLux system Apollo Lighting offer a colour change wall wash solution. It has been found that using colour change in an area designed for Dementia patients can greatly assist with various aspects of the patient’s condition.

Using a colour change wall (from indirect sources) opposite the bed position can seem a bit excessive but it can help the patient’s state of mind.

We have discussed the colour wall with clinicians that already have installed such systems and they have found that patients with violent and anxious personalities can be calmed down in the evening by using a blue colour wash on the wall.

“Familiar surroundings and minimal disruptions are so important for the happiness of those living with Dementia”
Controls

Control systems are usually thought of as complicated for the end user to operate. With the advancing control protocols, the user interface can now be very easy to understand.

For Dementia patients, it is as easy as a common light switch which turns the main lighting on and off, this reduces the chance of a patient not being able to understand how to use the system.

For a larger installation, where control from a nurse base is required, we can offer a touch screen mounted in the desk. This can have multiple pages graphically represented, each page can have functions for each ward. The touch screen can be set up so the nursing staff can find it is as easy to understand and use.

For instance, each ward can have a simple on/off for the night lights and a simple fade up and fade down for the main lighting.

This saves the nursing staff being faced with a large bank of buttons or switches, creating confusion and leading to incorrect use of the system.

Apollo Lighting can provide a control solution suitable for your particular application. From a simple presence detector to a system covering multiple buildings with interfacing to a Building Management System.

“Tailored care allows for the best possible outcome in terms of physical and psychological wellbeing”