

Historically, hospitals have utilized simple lighting control systems, comprising standalone room control and ward switching/dimming through conventional wall switches. However, separate-room infrastructures such as this cannot offer the modern benefits of scheduled control, energy management and maintenance feedback. By comparison, a Dyalite control platform presents a future-proof, flexible, scalable and energy-efficient dimming solution, capable of real-time system status updates and fault reporting. As well as allowing light scheduling, Dyalite delivers greater ability for patients to control their immediate environment.

- Backward-compatible customizable solution, comprising multifunction sensors, clocks, software, remote monitoring and active alarms
- Hugely scalable platform with efficient wiring topology that supports integration with third-party systems
- Customizable to support all fixture types, with a wide range of user-interface options
- Delivers optimized energy-management efficiencies
- Encompasses state-of-the-art reporting and maintenance planning
- Offers enhanced comfort for staff and patients alike

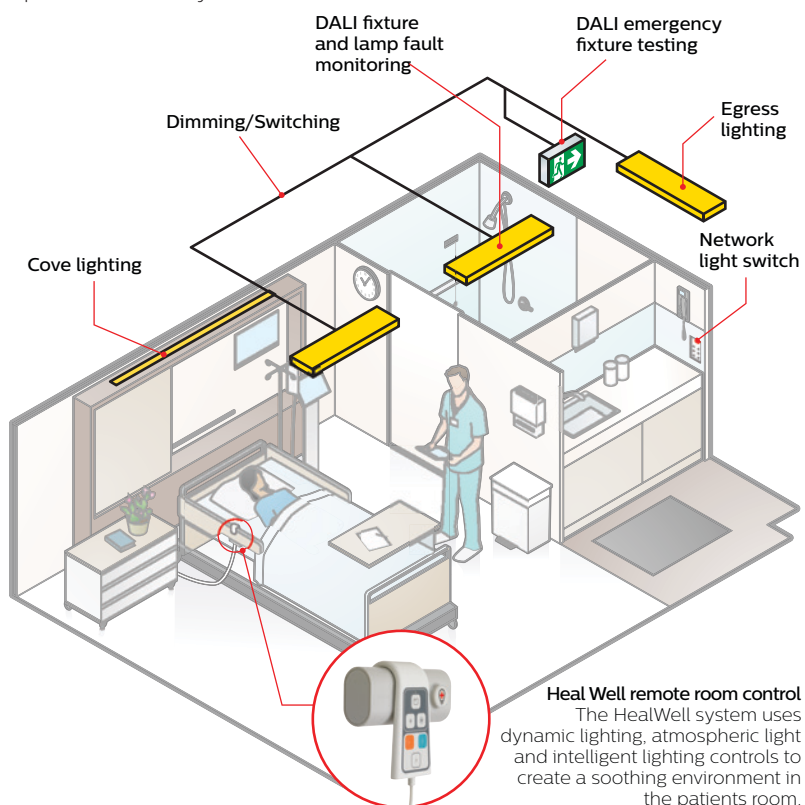
Typical layout

A typical Dyalite hospital lighting solution offers tailored occupancy control, with different lighting level presets any time of day. The system is set up to optimize background lighting levels automatically, while enabling staff and patients to override default settings for specific tasks or to enhance the ambience.

The Dyalite portfolio includes the HealWell lighting solution, which has been demonstrated – through trials and research – to improve the sense of wellbeing for both patient and staff. Patients are able to fall asleep faster and sleep for longer, with measurable elevations in their mood, as measured by ‘Hospital Anxiety and Depression Scale’ (HADS) depression scores.

Key components

The user interface is one of the key components of the Dyalite hospital system. Given that patients represent a transient user base, the system’s user interfaces have been purposefully designed to be simple enough for new users – including those in a confused condition – to operate intuitively.



As well as providing an easy-to-operate user interface, Dyalite offers the flexibility for use in both new and retrofit applications. The system architecture allows the installer to add new sections without disrupting any elements of the existing lighting control infrastructure. This ability facilitates the organic growth of the lighting system over time without any detrimental effects to the day-to-day running of the hospital.

System outline

Dyalite's Ethernet backbone incorporates the latest technologies to support a future-proof system. The multicast nature of the topology further ensures the highest possible level of operational performance and reliability, along with the flexibility to enhance both

operation and future upgrades. The Dyalite solution features layers of control to promote usability, while its BACnet/Modbus/OPC capability supports seamless integration with Building Management Systems (BMS).

Multifunction sensors facilitate the switching off or dimming down of lights in unoccupied areas and maintain lit pathways, while clocks manage scheduled lighting events. EnvisionManager software provides a central overview of system performance and also highlights outstanding or imminent maintenance issues. The distributed intelligence supports reliability, while the broad range of products within the range ensures that the Dyalite system can be configured to meet the precise needs of each unique application.

