**PHILIPS**
dynalite

Lighting Controls

Healthcare

# Intelligent lighting control for **smart hospitals**

Transform your environment and enhance people's lives

# Harness the power of light
## with Philips Dynalite

Quality lighting is important for human health and wellbeing. It enables us to **see well, function well, and feel well.**

The body clock and the circadian rhythm are strongly regulated through exposure to light. Limited access to natural daylight in settings like hospital rooms – even for short periods of time – can greatly reduce the body's ability to maintain a healthy biorhythm[1].

Using light effectively in healthcare facilities supports patient sleep cycles and improves patient and staff satisfaction. It also has proven benefits on mental health and productivity and impacts occupant mood, memory, and mental alertness[2].

In a healthcare setting where the wellbeing of patients and staff is imperative, connected lighting is the key to creating a world-class facility.

Philips Dynalite is the global leader in **connected lighting control solutions.**

**35+ years' experience** *spanning*
**35,000+ projects** *across*
**70+ countries** *connecting*
**200,000+ DALI networks** *and*
**60,000+ DALI input devices.**

The Dynalite System is:

### Innovative
Our system is advanced and original. We are industry leaders.

### Scalable
Suitable for projects of any size, including multi-campus sites.

### Sustainable
Built to meet the needs of people and the planet for generations to come.

### Reliable
Backed by global lighting leader, Signify, we deliver consistent results that you can trust.

### Human-centric
Easy to install, maintain, and use. Our system benefits are felt by all.

### Australian-made
Designed and manufactured under one roof by our passionate team in Sydney.

## The Dynalite System benefits:

**Patients and families**

Light can improve parameters like mood and depression, sleep, and length of stay.

Connected lighting is especially beneficial for patients in special care, whose circadian rhythms or emotional health is impaired, such as patients with Alzheimer's disease or those in palliative care[3].

**Healthcare workers**

Create an optimal work environment using connected lighting that supports the comfort, alertness, and performance of your workforce.

Additional benefits include improving the circadian rhythm and reducing the stress of nightshift workers.

**Department heads**

Discover new efficiencies, including:

· Increased employee satisfaction and productivity.

· Improved energy savings and sustainability outcomes.

· Decreased patient hospitalization times.

*Did you know?*
LED connected lighting systems can reduce lighting-related energy costs by up to 80% whilst supporting adherence to global building standards such as WELL.
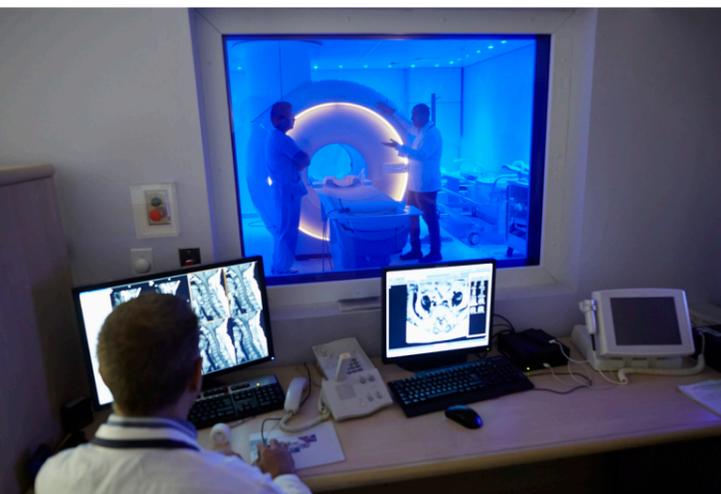
# Create a smart and safe hospital

**With System Manager, users can:**

· Maintain 100% uptime in mission critical areas through predictive lamp failure and proactive maintenance.

· Manage system performance remotely.

· Make data-driven decisions from system insights.

· Automate the testing of emergency lighting quickly and easily to ensure regulatory compliance and occupant safety.

**Other system benefits include:**

· RS-485 and DALI compliant to enable open communication with third-party systems.

· Easily disinfect air and surfaces using UV-C technology.

· Advanced integration capabilities including AV, HVAC, BMS, and more.

· Preset lighting control takes the guess-work out of lighting.

# Create a healthy environment that supports wellbeing

**The Dynalite System is task-adaptable and fit for purpose:**

- NatureConnect by Signify brings the benefits of natural light indoors for comfortable, engaging and attractive environments.

- Natural day rhythms improve mood and mental alertness of patients and staff.

- We offer specialized solutions for MRI suites, examination rooms, intensive care units, as well as interactive solutions for children.

- Task-adaptable lighting provides the right mix of colour temperature and intensity for all building occupants.

- Staff can quickly and easily bring the room to full brightness in case of an emergency.

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# Create a cost-efficient and sustainable hospital

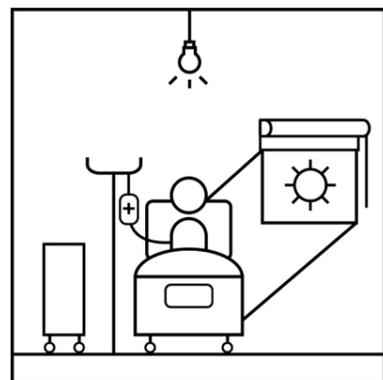**A range of thoughtfully designed features help to:**

- Reduce power consumption and $CO_2$ emissions.

- Improve sustainability outcomes and financial performance.

- Ensure adherence to global certifications such as WELL, LEED, and BREEAM.
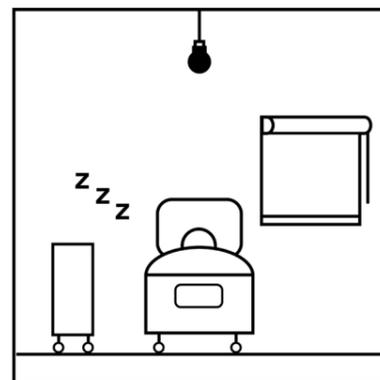
- Extend the life of lamps.
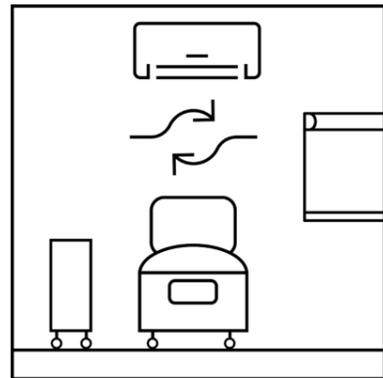


1. HVAC integration
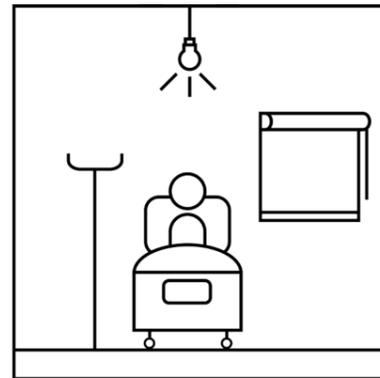


2. Occupancy detection



3. Daylight harvesting



4. Standby power management

1.    a. Park et al, Environ Health Insights 12, 2018
      b. Wakamura et al, J Physiol Anthropol App Human Sci. 20, 2001
      c. Walch et al, Psychosomatic Medicine 67, 2005

2.    a. Leppamaki et al, Scandinavian Hournal of Environmental Health 29, 2003
      b. Mroczek et al, Health Care Manager 24, 2005

3.    a. Golombek et al, Chronobiol Int. 39, 2022
      b. Gao et al, Semin Respir Crit Care Med 40, 2019

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