GEMINI LIGHTING SOLUTIONS

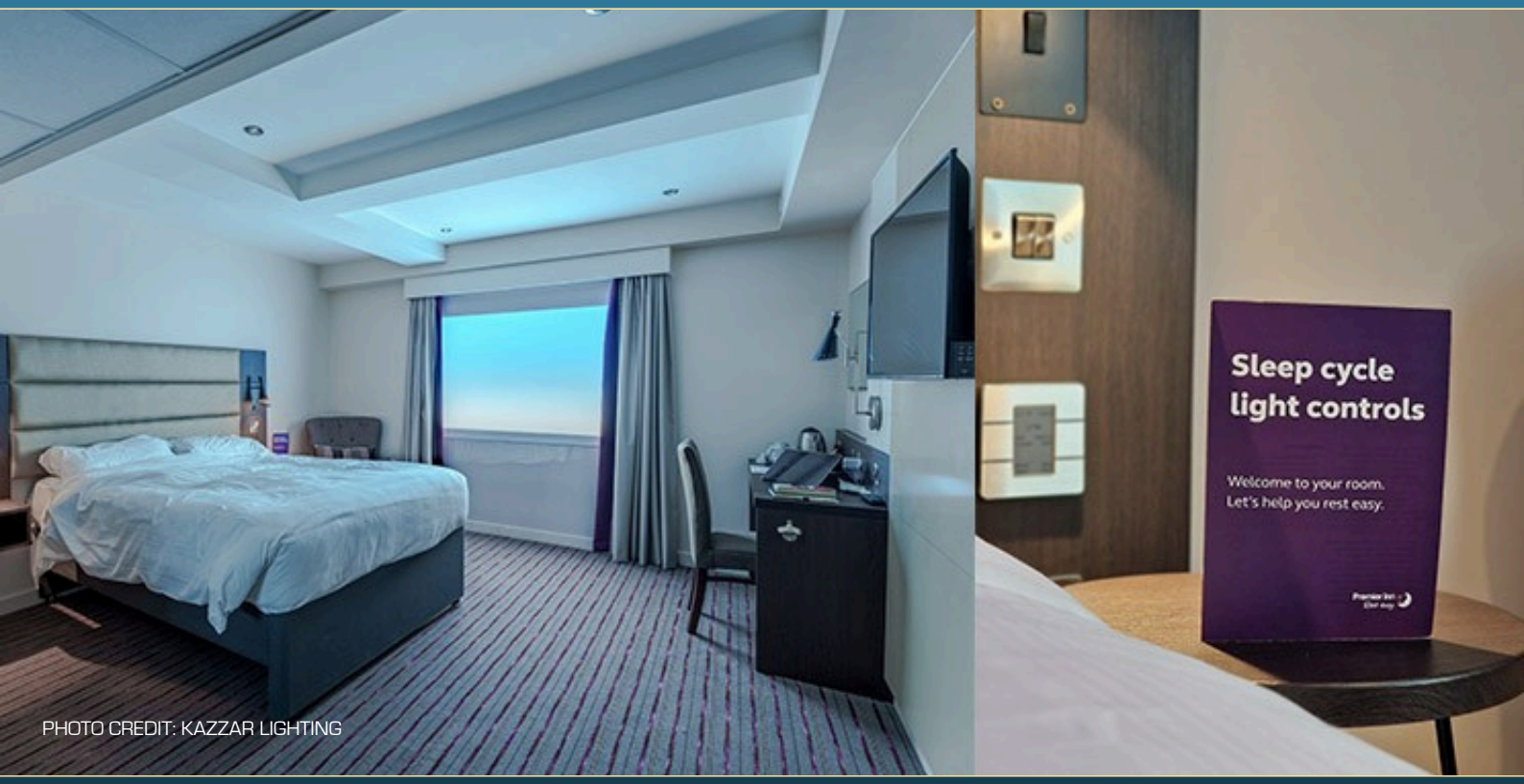


PHOTO CREDIT: KAZZAR LIGHTING

CLIENT CASE STUDY

PREMIER INN

2021-22 Edinburgh
2024-25 Cambridge

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OVERVIEW

Gemini Lighting Solutions (GLS) collaborated with Kazzar Lighting and Premier Inn to help reimagine the guest experience in windowless rooms, transforming a design challenge into a wellness-enhancing feature using advanced circadian lighting control.


PHOTO CREDIT: KAZZAR LIGHTING

In keeping with the Premier Inn promise to "Rest Easy," the team introduced innovative artificial sunrise and sunset cycles designed to synchronise with each guest's personal sleep and wake times. The end result - a calming, high-tech sleep haven that prioritises rest and wellbeing for their guests.

THE CONCEPT

The absence of natural daylight in selected rooms was reimagined as a unique opportunity for Premier Inn guests. Using Light Cognitive's artificial daylight panels and the powerful Dynalite control system, guests can personalise their in-room environment to support better sleep and wake cycles.

Kazzar Lighting introduced the concept of 'the windowless room' where sunrise and sunset could be created using an artificial light panel to simulate the colours created by the sun at different times of day, which could be adjusted to a guest's personal sleep and wake patterns.

The lack of window in the room was reframed as a benefit in order to create a controlled environment where achieving complete darkness minimised light sensitivity, while the introduction of artificial daylight technologies allowed us to infuse the space with full spectrum daylight and diffused light, perfectly aligning with the occupants' natural circadian rhythms.

Guests can activate the sleep mode, and the lighting will gently fade over a span of 40 minutes, fostering relaxation and facilitating sleep. They can also their desired wake-up time, allowing the 'window' to transition smoothly to daylight in alignment with their chosen wake-up time.

During the rest of the day, the artificial window will emulate the sun and sky's natural dynamics, tailored to the specific area and time of day.

OVERCOMING CHALLENGES

Originally briefed to control the artificial window, it became clear during testing that integration with the hotel's keycard system was essential. Thanks to the versatility of Dynalite's range, GLS quickly selected a multifunction input interface to enable auto shut-off when guests removed their keycard; saving energy and adding intuitive control across multiple rooms.

GLS worked closely with Kazzar Lighting, who introduced the concept and led discussions with the Whitbread Design Team. Our role was to provide the Dynalite expertise required to bring the idea to life. We supplied and tested equipment for a pilot room, refined the setup based on feedback, and then rolled out the complete solution.

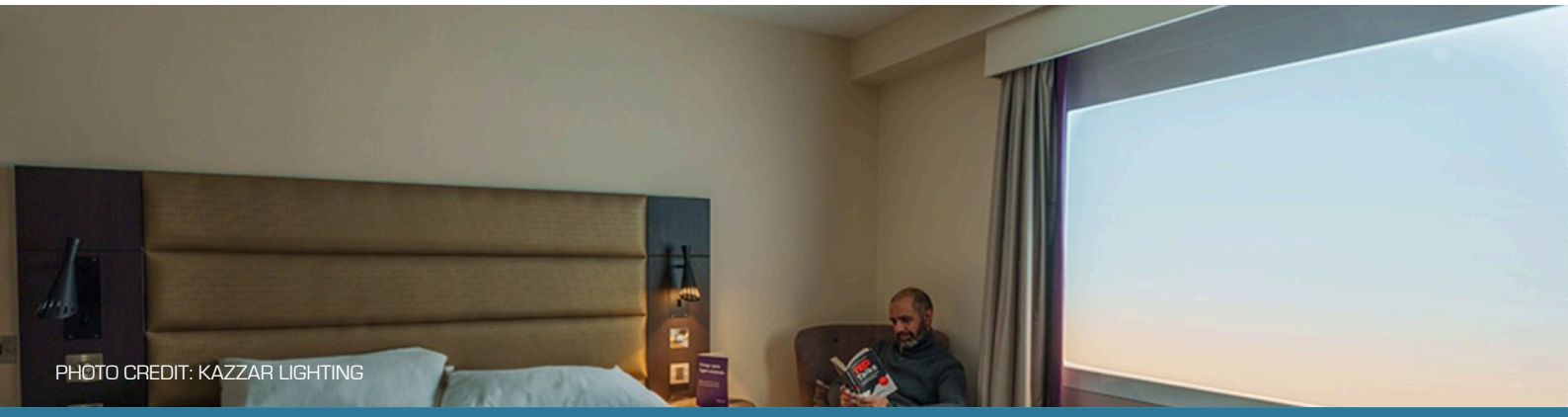

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DYNALITE PRODUCTS

- DDBC120DALI – 1 x Universe DALI MultiMaster Controller
- PDEG – Philips Dynalite Ethernet Gateway
- DDMIDC8 – 8 Channel Multifunction Input Interface
- PADPE – Antumbra LCD Display Panel

WHY GEMINI LIGHTING SOLUTIONS?

Kazzar selected Dynalite for its unique ability to handle circadian rhythm lighting through DALI DT8 and for the sleek yet user-friendly Antumbra interface. When Kazzar approached Signify (the owners of Dynalite) to find the right partner for this project, they were directed to us—Gemini Lighting Solutions—for our experience in delivering bespoke Dynalite programming and high-level lighting automation.


PHOTO CREDIT: KAZZAR LIGHTING