

The image shows the Royal Pavilion in Brighton, UK, at night. The building is a large, ornate structure with multiple domes and minarets. It is illuminated with warm white light, highlighting its intricate architectural details. The sky is a deep blue, and the foreground shows a well-maintained lawn. The overall atmosphere is one of grandeur and historical significance.

PHILIPS

Bridges, Monuments
and Facades

Public lighting



Case Study

The Royal Pavilion enhanced with dynamic lighting

The Royal Pavilion, Brighton, United Kingdom

**Client**

The Royal Pavilion & Museums

Location

Brighton, UK

Philips Products

LEDline, ColorGraze, ColorBlast
and iColor Flex MX

Project Partner

Urban Projects Limited



The Project

Originally constructed in the eighteenth century, the Royal Pavilion is a design icon. Today it embodies many aspects of Brighton's culture: fun, extravagance, eccentricity and beauty. The ambition was for the new lighting to reflect these characteristics and complement the unique style and decorative art of the Royal Pavilion.

The previous lighting was switched off in 2009 following constant failures. In developing the new lighting, a key factor was to ensure the solution did not result in any physical or structural changes to this historic building and that the lighting was deployed sensitively. After initial discussions with the project partner, to achieve

this Philips worked closely with, Tim Thearle, Roy Flint and Jan Cadge of the Royal Pavilion & Museums to ensure that modern technology was embraced in an appropriate and relevant way. Regular communication took place between all parties to guarantee a sympathetic installation was achieved.

Using the latest LED lighting technology, this treasured Grade I listed British landmark has been transformed to showcase its unique decorative style like never before. The dynamic new color changing lighting is designed to highlight the Royal Pavilion's architectural features creating a distinctive look for this beautiful building.

“This new and economical scheme means **the Royal Pavilion can now be lit in a way that this iconic and unique building deserves.**”

Bill Randall
Former Mayor of Brighton & Hove



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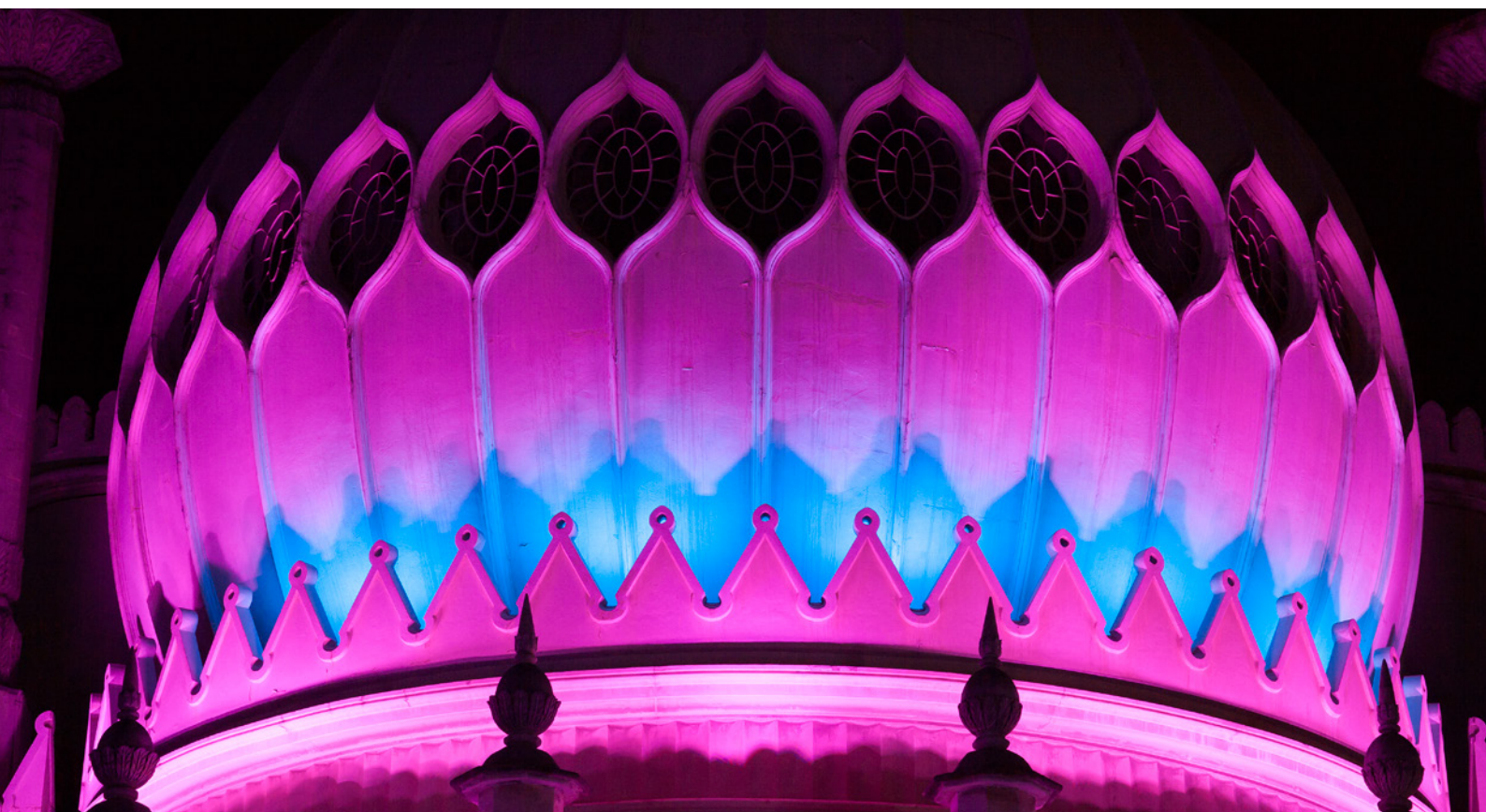
The Benefits

The new sustainable lighting has enhanced the night time appearance of the building. The previous floodlighting failed to really bring the Royal Pavilion to life. The new lighting provides depth and definition, revealing the natural stone colors of the rendering of the Royal Pavilion at night and creating a golden hue which represents the grandiose nature of the Palace.

Furthermore the new fully dynamic scheme offers greater flexibility, with the possibility to highlight individual architectural features using a vast range of colors. Previously the Royal Pavilion was only lit in white meaning that temporary lighting had to be arranged for special events, often at great expense. The new lighting is controlled using an advanced control system which can easily be tailored to trigger specific colors or dynamic shows for events.

The lighting system is completely concealed and hidden in the architecture. It delivers significant energy savings and reduces the carbon footprint. In addition, maintenance costs are reduced due to the long lifetime of the LED lighting system resulting in reduced operating costs of about 75% in comparison with the prior system.

The new lighting was endorsed by the then Mayor of Brighton & Hove, Bill Randall, who commented: “This new lighting system scheme means the Royal Pavilion can now be lit in a way that this iconic and unique building deserves. Evening visitors to our city will now be able to see the Royal Pavilion in all its fantastic glory, whilst being assured that the scheme brings both a reduction in energy and light pollution.”







Enhanced
night time
appearance

75%
reduction in
operating costs

**Flexible
and dynamic**
color lighting
scheme

Reduced
light pollution



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