Selected daylighting experience

Sainsbury Laboratory, UK
Dwabor Kindergarten, Ghana
Jumex Museum, Mexico
The Broad, USA
Louis Vuitton, Japan
Al Bahr Towers, UAE
Art Institute of Chicago, USA
National Australia Bank
King’s Cross Station, UK
The Hub, BSkyB Campus, UK
The Lowline, USA
The Copper Box, UK
Sainsbury Laboratory, UK

Daylight is central to the design of this research centre in the University of Cambridge’s Botanic Gardens which is dedicated to researching plant science. The rooflights in the laboratories allow 200 lux to be achieved through daylight for 80% of the year. The project won the 2012 LDA Daylight Award.

Architect: Stanton Williams Architects
Dwabor Kindergarten, Ghana

Designing and building a new kind of kindergarten in a remote district of Ghana was a learning experience for everyone involved. A modular, scalable design which maximises daylight and ventilation while minimising heat and noise, these light, airy and cool classrooms are perfect for a curriculum of activity-based learning.
Jumex Museum, Mexico

Museo Jumex houses the largest private contemporary art collection in Latin America. Its most defining feature is the asymmetric roof, which incorporates saw-tooth roof lights. The layered approach to daylight control allows the lighting in the top floor gallery to experience a strong, dynamic relationship with the external environment.

Architect: David Chipperfield Architects
The Broad, USA

This new art museum will house post-war and contemporary art assembled by philanthropists Eli and Edythe Broad. The honeycomb-like structure which spans across the gallery provides filtered natural daylight whilst the top floor gallery is illuminated by expansive north-facing skylight clerestories and a fully-shaded glazed east wall.

Architects: Diller Scofidio + Renfro, Gensler
Louis Vuitton, Japan

The façade is an integral part of improving the environmental and sustainable design of this new store. Daylight and façade engineering design teams worked together to develop solutions that were responsive to the site climate and location; ensuring the Louis Vuitton brand was clearly communicated. The 3D print in the display is an example of one of the façade solutions developed.
Al Bahr Towers, UAE

The towers of the Abu Dhabi Investment Council’s new headquarters are overclad on the south, west and east elevations by a dynamic shading system; a modular ‘Mashrabiya’ that opens and closes to provide self-shading as the sun moves around the building.

Architect: Aedas
Art Institute of Chicago, USA

The Modern Wing is the Institute’s largest expansion in more than a century; an elegant, minimal design with daylight-filled galleries that provide views onto Millennium Park and downtown Chicago. The project was awarded a special citation by the International Association of Lighting Designers for innovative use of daylight in a museum.

Architects: Renzo Piano Building Workshop, Interactive Design Architects
National Australia Bank (NAB), Australia

NAB’s exterior glare screens were developed for the project to reduce heat gains and to limit daylight glare. The screens also redirect sunlight upwards onto the ceiling of the interior office spaces to improve daylight penetration, reducing the use of blinds to control glare.

Architect: Bligh Voller Nield
King’s Cross Station, UK

The daylight concept was driven by the aim to create a light and airy space that is visually and operationally unifying, forming a hub to serve the interchange and seamlessly connecting the Grade I listed Western Range Façade with the new 21st century Western Concourse; giving passengers a sense of time and connection to the city.

Architect: John McAslan + Partners
The Hub, BSkyB Campus, UK

The Hub is the first new building opened as part of the redevelopment of the BSkyB campus at Osterley. We provided daylighting design, where artificial lighting is not needed for 70% of working hours in the open office areas directly below the roof; helping the building achieve a BREEAM rating of ‘Excellent’.

Architect: Amanda Levete Architects (AL_A)
The Lowline, USA

The Lowline, a proposed park in New York City, is the winner of the Award of Citation for Innovative Use of Daylight. Electric lighting and daylighting design are essential to its appearance and perception. Underground spaces are perceived as unhealthy and undesirable, but lighting and access to daylight have the ability to create a unique environment.

Architect: raad studio
The Copper Box, UK

A London 2012 Olympic and Paralympic Games venue, the Copper Box is now a community resource for sports and events. Our daylight system provides beautiful, glare-free, natural light whatever the sky conditions outside; creating a low energy sporting legacy for the local community.

Architect: MAKE architects