

Stopover in a hanging garden – The Jewel at Singapore Changi Airport

Since April 2019 there has been a further attraction at Changi Airport in Singapore with its abundant and lush greenery: under a huge domed roof, passengers and members of the public can enjoy hanging gardens and a 40 metre high indoor waterfall. Luminaires from the WE-EF range showcase the exotic plant world and provide good visibility and safety for visitors strolling through the spectacular garden.

Like a large transparent donut, the new building designed by Safdie Architects is located between terminals 1, 2 and 3 of Changi Airport. Under the glass roof, which spans more than 200 metres at its widest point, there are five floors above ground and five subterranean floors. On a floor area of 135,700 square metres, there are all kinds of different shops, restaurants and entertainment facilities as well as a hotel and a multi-storey car park.

Over seven floors, the Rain Vortex, which is fed with rainwater, gushes directly from a funnel in the glass dome. This spectacular focal point is surrounded by a terraced forest consisting of more than 2,000 trees and palms as well as 60,000 shrubs. Canopy Park is located on the top floor, directly under the glass skin. A labyrinth of hedges (one made of mirrors), a climbing garden made of nets, a bridge with a glass floor and numerous art installations promise both excitement and contemplation. Furthermore, winding paths and stairs run through Forest Valley, connecting restaurants, shops, meeting points and quiet zones.

The lighting concept developed by Lighting Planners Associates (LPA) was carefully co-ordinated to the various uses and provides atmospheric lighting.

Various versions of the WE-EF FLC100 projector series are used in Forest Valley. A total of 66 poles were installed and either two or four FLC projectors were mounted on them. FLC121 and FLC141 with medium- or wide-beam distribution and a warm white colour temperature of 3,000 Kelvin showcase the exotic plant world with light. A large proportion of the luminaires are fitted with RGBW LEDs, enabling atmospheric plays of light and colour. With viewing areas distributed over 360° and different height levels in the terraced park, particularly effective glare control was required. Almost all FLC projectors are equipped with glare shields.

The paths in Topiary Walk and Petal Garden, the two theme gardens of Canopy Park, are flanked by KTY200 bollard luminaires. They are fitted with [R65] lenses for wide-beam, asymmetric forward throw distribution and emit precise, glare-free light onto the ground. Furthermore, STL134 recessed wall luminaires are conducive to a safe passage on stairs. They are seamlessly integrated thanks to their low installation depth and well-conceived mounting concept.

The Jewel at Changi Airport is not the first prestigious large project that WE-EF has supplied lighting for in Singapore. WE-EF luminaires have been proving their worth for several years in the Gardens by the Bay – a superlative park of over 100 hectares in size.



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WE-EF luminaires are ideal for demanding locations such as the oversized greenhouses in the Gardens by the Bay or Forest Valley with the Rain Vortex in the Jewel – an environment with very high humidity. WE-EF's proven quality concepts, such as the 5CE five-stage corrosion protection system, durable sealing technology and sophisticated thermal management for the LEDs, ensure a long service life. With its reputation as the 'City in the Garden', Singapore not only shines in sunlight, but also after dark.

Clients: Jewel Changi Airport Devt Pte. Ltd.

Architecture: Safdie Architects, www.safdiearchitects.com

Executive Architect: RSP Architects Planners & Engineers (Pte) Ltd, www.rsp.com.sg

Facade consultant: BuroHappold Engineering

Lighting design: Lighting Planners Associates, www.lighting.co.jp (Distributed by Technolite Singapore)

Landscape design: PWP Landscape Architecture, www.pwpla.com

Executive landscape architect: ICN Design International Pte Ltd, www.icn-design.com.sg

Interior designer: Benoy, www.benoy.com

Mechanical and electrical engineer: Mott Macdonald Singapore

HSBC Rain Vortex: WET Design, www.wetdesign.com

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The Jewel at Singapore Changi Airport / Photos: WE-EF



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04 The paths in Topiary Walk and Petal Garden, the two theme gardens of Canopy Park, are flanked by KTY200 bollard luminaires.

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