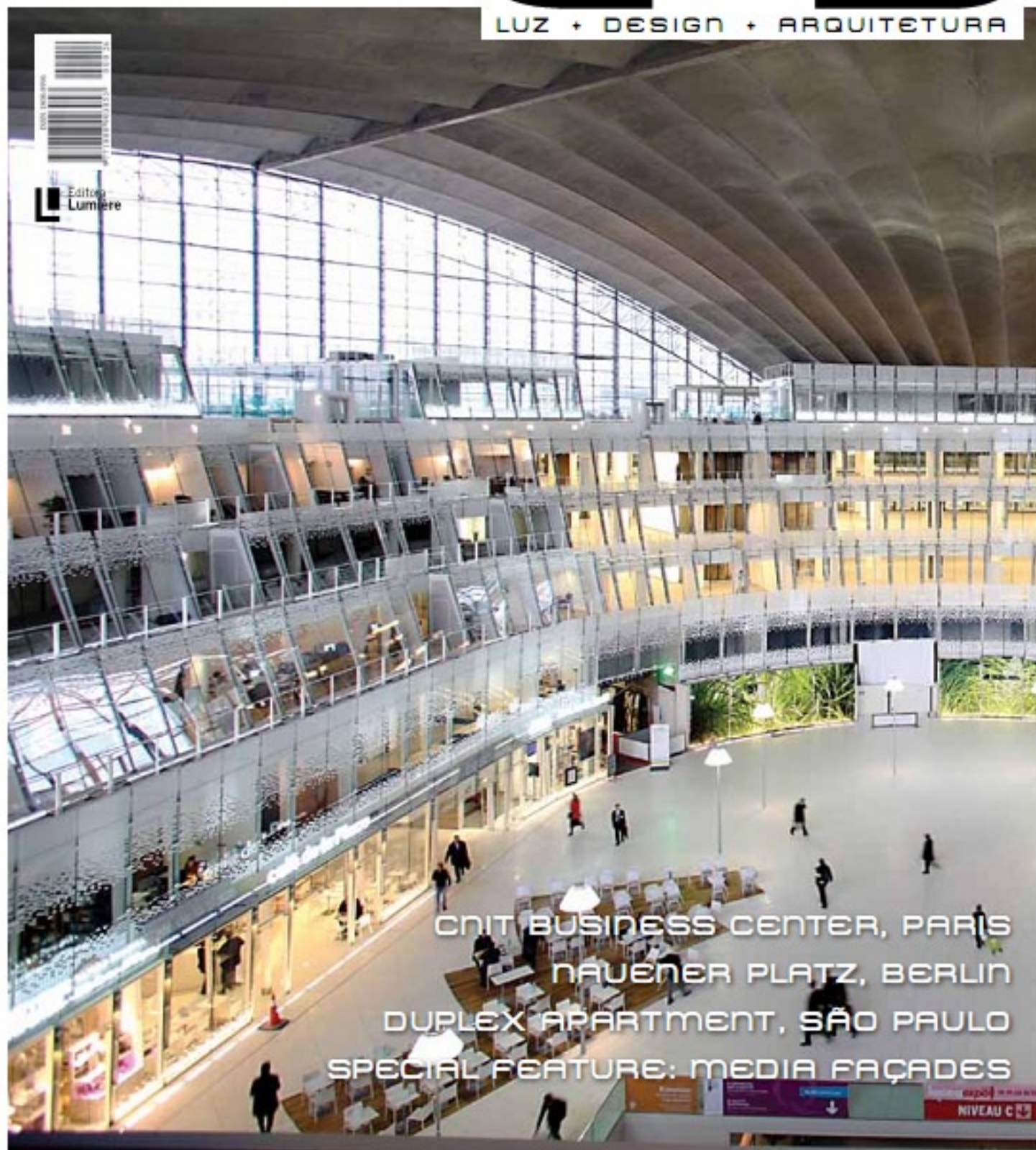


L + D

LUZ + DESIGN + ARQUITETURA



Editora
Lumière



CNIT BUSINESS CENTER, PARIS
NAUENER PLATZ, BERLIN
DUPLEX APARTMENT, SÃO PAULO
SPECIAL FEATURE: MEDIA FAÇADES

NIVEAU C



Cnit, Paris
Photo: Valentin Arcora

20 ¿QUÉ PASA?

48 PROJECTS

- 48. Cnit Business Center
- 54. Duplex Apartment
- 60. Albert Einstein Hospital
- 64. Nauener Platz
- 70. Villa Olimpia Shopping Mall
- 74. Little Prince Exhibition

78 SPECIAL FEATURE

Media Façades

86 PORTAL OF LIGHT

Autoville Private Collections Museum

88 PRODUCTS

Intelligent façade

Built in 2005, the Dexia Tower is the third tallest building in Brussels, with its 38 floors and height of 145m. Also known as the Weather Tower, this glass building has become an architectural landmark in the Belgian capital, especially since incorporating the "Who's afraid of Red, Blue and Green?" installation in 2007, designed by the architects from Lab[au].

The work consists of the illumination with LED strips of 4,200 of the six thousand windows going to make up the building's façade. Each window was provided with its own microprocessor to control a set of green, red and blue LEDs, which, when combined, permit the production of an almost infinite range of colours. Over 220 thousand LEDs were installed across the whole of the façade to create dynamic lighting effects.

Beyond just colour and artistic effects, the Weather Tower also brings information to the public notice. Meteorological data from the Royal Institute of Belgium is converted by a computer centre in the Dexia Tower into colours and geometric shapes. This means that the weather predictions for the following day can be provided in the form of coloured graphs.



To make this operation possible, each window has its own microprocessor allowing it to work independently. Furthermore, in all, 25km of DMX cable were used running all over the building. Each of the Dexia Tower LEDs uses a maximum of 1W. But because of the variations in colour and motion, the full capacity is never attained.

WEATHER TOWER

Brussels, Belgium

Architectural Project: Philippe Samyn & Partners

Lighting Project: Barbara Hedger / Hedger SPRL

Media Façade: Manuel Abendroth, Jérôme Decock, Alexandre

Renneaux, Els Vermeir / LAB[au]

Suppliers: Space Cannon (LEDs and software)

Photos: LAB[au] release

