

PHILIPS

Technical
case study

Light brings a museum to the next level

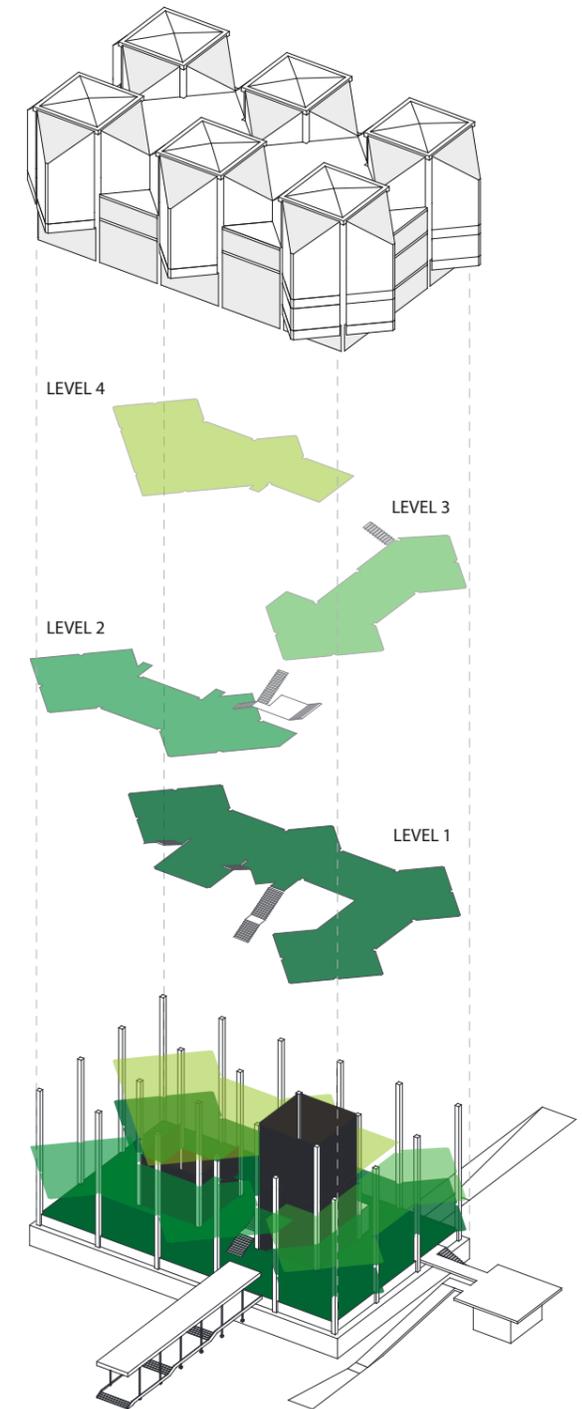
Museum of Contemporary
Art Belgrade (MoCAB)
Belgrade, Serbia

The Museum of Contemporary Art Belgrade (MoCAB) took advantage of an extensive structural makeover to integrate innovative lighting solutions that can satisfy varying artistic requirements and exhibition conditions. This refurbishment incorporated the most sophisticated contemporary approaches to museum technology while respecting the building's original design.



Perfect light for art in a complex space

The MoCAB building's geometry posed a major challenge. The museum's five floors vary in height, some with natural light from above and others without – all within a relatively small space. The lighting had to meet many often-contradictory requirements, including economy in lighting costs, improved display yet preservation of the artworks, and smooth and shadowless light distribution.



“

I needed to find the right lighting solution, which works well at three meters high, at seven and a half and at nine at some points. **The PerfectBeam is the only one that had perfect criteria to light this museum** – combined with cubes of 64 CoreLine panels.”

Dejan Todorović, architect

StyliD PerfectBeam adapts light to each individual artwork

The specification focused on a contemporary lighting solution with the need for a wide range of light optics, angles and illuminations adapted to varying types of ambience and exposure. LEDs were without question the ideal luminaires because of their energy-efficiency, long life, and low heat emission. In addition, the absence of ultraviolet (UV) and infrared (IR) radiation from LEDs prevents risk of damaging displayed art works. The specification also called for a 4000 Kelvin color temperature, a color rendering index (CRI) higher than 90 for the exhibition areas, and a remote control system that, among other features, allowed fixture zooming.



A flexible approach

After extensive research, the architect chose Philips StyliD PerfectBeam projectors, whose beams can be angled from 7 to 43 degrees, to illuminate the paintings. DALI controllers enable precise adjustment of luminosity intensity, 16 predefined lighting atmospheres and individual lamp diagnosis. This technology guarantees tremendous flexibility, maximum ease of light manipulation and the ability to adapt lighting to each painting.

Fast facts

Client
MoCAB – Museum of Contemporary Art Belgrade

Renovation architects
NOOTO, Dejan Todorović
Vladimir Djordjević, Sanja Maksimović

3D model
Bojana Zrilić, Marina Nešić

Lighting solutions
Kompanija Blagojević

Luminaires
Philips StyliD PerfectBeam projector,
CoreLine Panel, Tempo and Batten
GreenSpace Compact UGR22
TrueLine recessed
Moss recessed inox
Philips Color Kinetics eW Blast Powercore
Philips Ilti Luce Recessed LED linear system indoor

Lighting system
DALI controlled

Photographer
Cédric Helsly

A stage for art

The MoCAB is a unique architectural space that is recognized as one of the world's best examples of museum architecture. The lighting combines daylight and natural light to set the perfect stage for art and highlight the architectural features of the building.

Preservation

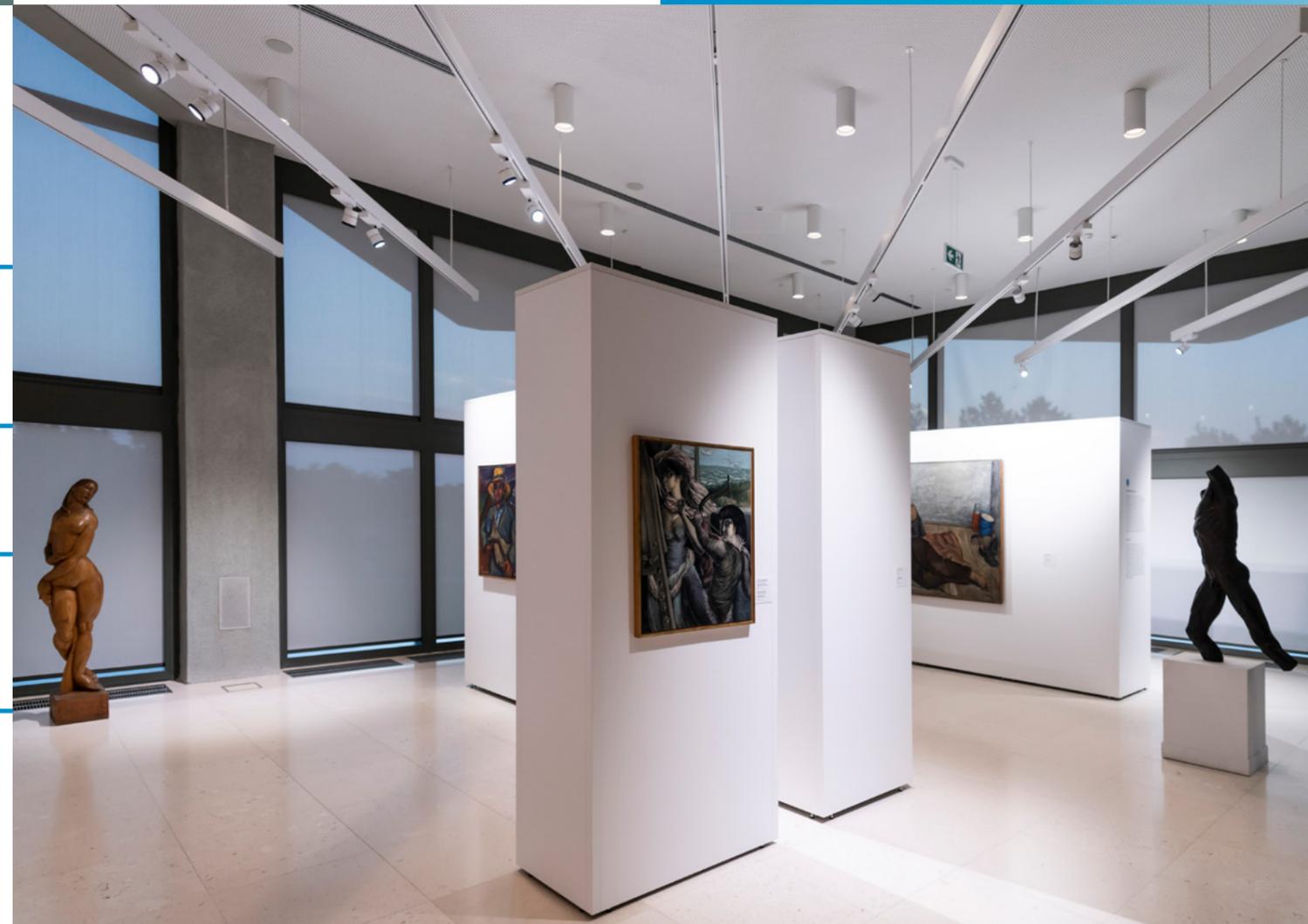
Artworks can be very sensitive to light. The chosen lighting solution makes it possible to create environments which meet the strict preservation requirements for each individual work as regards radiation and light intensity.

Color rendering

The high color rendering index (CRI) of Philips LED light sources is designed to render the colors and materials of the artworks in the way intended by the artist.

Adaptive lighting

No two artworks are alike and changing exhibitions require flexible lighting solutions. The chosen lighting solution incorporates a wide range of optics, beam types and the creation of dynamic light scenes.





Small text caption for the painting on the left wall.

