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LIGHTING IN ARCHITECTURE



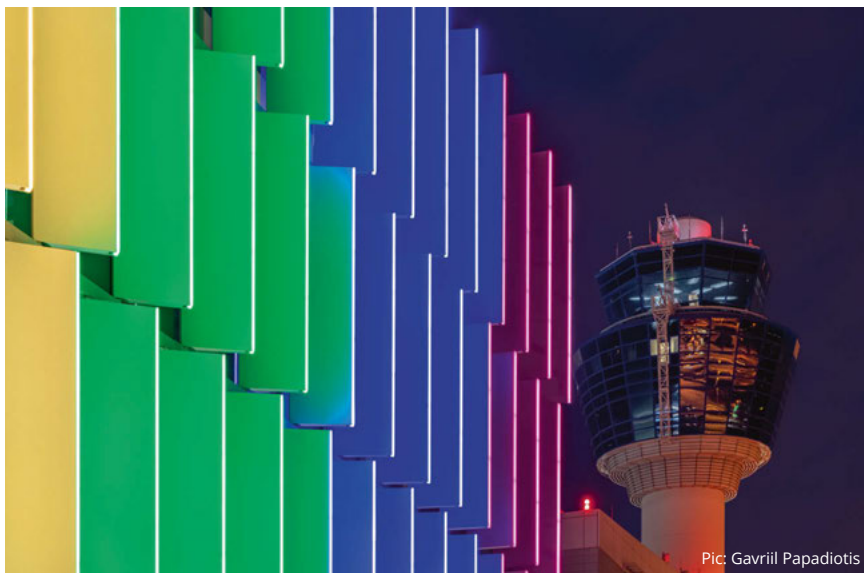
Into The Void

On the eve of new show *Dark Matter*, arc speaks with
the creative minds behind WHITEvoid

[D]ARC AWARDS REVIEW • WHITEVOID • BARBARA HORTON & CARRIE HAWLEY
RETAIL FOCUS • LAM32 MINIMUMMAXIMUM REVIEWED • WOMEN IN LIGHTING AWARDS



Pic: Gavriil Papadiotis



Pic: Gavriil Papadiotis



Pic: Yiorgis Yerolymbos

Athens International Airport Greece

The Athens International Airport (AIA) is an important landmark for the city, being one of the first experiences for visitors, and also the last as they leave. A new extension to the south wing of the airport's main terminal building, designed by architects Tombazis and Associates and AVW Architecture, helps to boost this landmark status.

The extension is a newly-completed end piece, revealed gradually while approaching the airport from the main road. This end piece is defined by a series of rotating louvers that reveal views from and to the building.

The vision for the lighting here, designed by Eleftheria Deko and Associates, was to promote this architectural viewpoint to increase its attractiveness. This was done by illuminating the structure elegantly, without revealing the position of the light sources, and without the fixtures obstructing views into and out of the building.

As such, Linea Light Group worked with the lighting designers to produce a custom version of its Paseo linear profile, the modules of which are RGBW and managed individually by a DMC control unit. The extra-large variant, dubbed Paseo Giga was designed by combining 253 modules, starting from the creation of an aluminium recessed casing to be installed inside the sunshades – this also enclosed the electrical wiring, allowing for it to be recessed. Made of polycarbonate, and with an IP67-rating, the modules create a unique show by combining elegant white lines with coloured scenes, with static or dynamic effects.

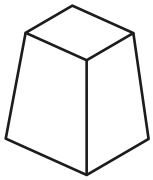
With multiple scenarios able to be programmed, the lighting design team created 12 dynamic scenarios, ranging from three to seven minutes in length. These are looped during the night, with the different scenarios suitable for various occasions, from casual days to festive celebrations. During weekdays the scenes are based on black and white light transitions while during the weekends, colour is introduced.

Deko and her lighting team also provided the airport's management team static lighting combinations with the colours of all the countries' flags for special occasions.

"By creating countless visual scenarios, either discreet or eye-catching, we communicate through light different visual messages to the airport's guests, highlighting not only the architectural creation but also the power of light as a universal means of communication between people," said Deko. "Our intention wasn't to create 'flashy' lighting for the façade, but a human-centric approach, where the visitor is welcomed to Athens or saying 'au revoir' through the lighting transitions, like a warm and colourful smile."

The less visible sides of the building have also been enhanced, with the installation of Linea Light's 4000K, monochromatic Archiline Pro profiles, managed with DALI protocol, alongside a custom version of its linear profile, Thin66, with diffused light emission. This accentuates the details of the architectural features of the building, elegantly emphasising the façades.

www.edeko.gr



BEST EXTERIOR LIGHTING SCHEME

STRUCTURES

HIGH BUDGET

BEST OF THE BEST

ULTIMATE

[D]ARC AWARD



WINNER

Acropolis of Athens and Monuments, Greece

The Acropolis of Athens is one of the most important monuments of world culture, a living symbol that is one of the most recognisable landmarks in the world. On 30 September 2020, the new lighting of the Acropolis and its monuments, funded and supported by the Onassis Foundation, was unveiled to the world. Eleftheria Deko and Associates approached the monuments first with respect, and before applying their thoughts on paper, the designers observed the characteristics of this unique place, its history, the forms and materials, the visibility from different places of the city and the significance of this important landmark.

The new lighting covers the Sacred Rock, the fortification walls, and the 17 monuments; including the Parthenon, the Propylaea, the Temple of Athena Nike, the Erechtheion, the Ancient Theatre of Dionysus, the Stoa of Eumenes, the Shrine of Dionysus, and Aphrodite's Cave, some of them illuminated for the first time.

The design approach was to distinguish for the first time the Sacred Rock from the walls and the monuments through lighting, by the use of different colour temperature and intensity

differentiations. Moreover the designers wanted to accentuate the 3D nature of the sculptures and columns to highlight all the details of the monuments and create depth of field to make the different volumes distinct from far away.

The process consisted of multiple tests on site and photorealistic calculations on 3D models, in order to achieve the most appropriate light for the Parthenon and the rest of the monuments, as well as for the Sacred Rock and the Walls.

The new lighting scheme required a customised type of luminaire with a maximum enhancement of luminosity and tunable white light from 2700K to 5000K. The designers used 12 slightly different and harmonious shades of white for the monuments and the installed DMX control made possible to control each luminaire independently in terms of intensity and colour temperature. The new electrical system controls the lighting at all points of the installation. Control can be achieved both on site or remotely by a web server. This state-of-the-art technology used for the new lighting scheme, improved the energy efficiency by reducing power requirements by 60%.

SECOND PLACE:

The Øresund Bridge, Sweden/
Denmark
by Light Bureau, Denmark

THIRD PLACE:

Tashkent City Congress Centre
and Hotel, Uzbekistan
by Arup, Turkey

Project: Acropolis of Athens and Monuments

Location: Athens, Greece

Lighting Design: Eleftheria Deko and Associates, Greece

Client: Onassis Foundation, Greek Ministry of Culture

Main Lighting Suppliers: Erco, Linea Light Group, Griven



**if round
ewo**

A striking join at the neck of this luminaire accommodates ewo's A-Series optical system, opening ewo's entire light-shaping technology toolbox for bespoke lighting configurations.

Through the if round, ewo strives to shape and target light to improve the quality of cityscapes and all manner of architecture, for every imaginable lighting design freedom.

www.ewo.com



**KWH Range
Ligman**

A unique linear shape, rounded profile luminaire with surface-mounting bracket, and robust, tiltable body, offered in different lengths means the KWH range provides multiple optical and professional lighting solutions for building, area and façade lighting. Suitable for installation in narrow spaces, both single and twin modules can be tilted up to 180°. Complete with a remote-control gear box attached to the bracket to reduce heat from the body, it covers RGBW and RGBTW (RGB Tunable White 2700K - 6500K) systems via RDM, DMX systems.

www.ligman.com



**seventies 70's plus
mawa design**

Track spotlight for highly professional application in museum settings, the seventies 70's plus is the sequel to its predecessor, the seventies 70's series. It incorporates two LED modules, beam angles (11° to 52°) and power classes (10W to 37W) that are modularly configurable for special lighting requirements. It is suitable for museums, regarding excellent colour rendering and minimisation of potential light damage with respect to preventative conservation.

www.mawa-design.de



**Storm
Petridis**

Storm is a 24V DC low voltage aluminium profile for tracking lights with smart magnet technology.

It is an ideal solution for small showcases, homes, rest areas, museums, hotels, exhibition halls and generally for many decorative and architectural projects

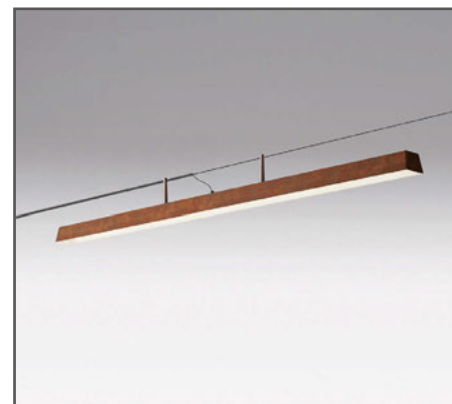
www.petridis-lighting.gr



**TubeLED Mini HO
Lucent Lighting**

The newest addition to the Lucent TubeLED range, the TubeLED Mini HO (High Output) is designed to deliver maximum performance whilst maintaining the Mini's small form and flexibility. The fixture is ideal for retail and gallery applications with its high performance and architectural aesthetic form. The fixture incorporates an integral driver in the tubular body with various dimming protocols negating the need for a separate driver housing resulting in its clean form.

www.lucent-lighting.com



**Lingotto
Linea Light Group**

Lingotto is a new solution particularly suited to lighting up pergolas, exterior walls, cellars and basements. Perfect for outdoor environments, thanks to the polyurethane resin diffuser with an IP65-rating, the fixture is weather and humidity resistant, characterised by a body lamp in AISI 304 stainless steel. Lingotto is available in black and dark brown finishes in various suspension wall and ceiling versions

www.linealight.com