



arc

# mondo

THE INTERNATIONAL MAGAZINE FOR DESIGNERS WITH LIGHT

#92 2016

## 2016 DARC AWARDS / ARCHITECTURAL

400 ENTRIES, 6000 VOTES  
WHO WILL COME OUT ON TOP?



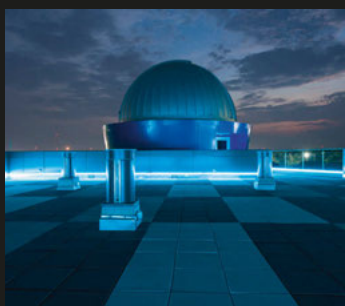
# SPACES

## BEST LANDSCAPE LIGHTING SCHEME - HIGH BUDGET

*Urban or rural landscape projects (including masterplans, streetscapes, parks and plazas) where luminaires specified cost more than £30,000.*



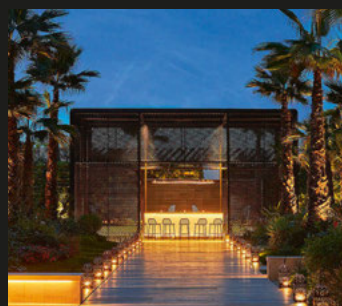
SPACES



SCOBEE EDUCATION CENTER, USA  
DURAND-HOLLIS RUPE ARCHITECTS, USA



CROSSRAIL PLACE, UK  
MAURICE BRILL LIGHTING DESIGN, UK  
SEE PAGE 092



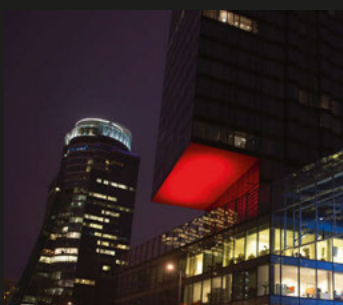
FOUR SEASONS HOTEL, MOROCCO  
DPA LIGHTING CONSULTANTS, UK  
SEE PAGE 106



MAGIC GARDEN, HAMPTON COURT PALACE, UK  
SPEIRS + MAJOR, UK  
SEE PAGE 104



BANANA ISLAND RESORT, QATAR  
STUDIO LUMEN LIGHTING DESIGN & CONSULTANCY, UAE



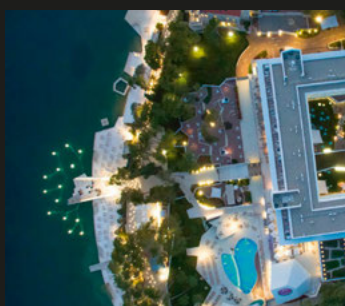
COSMOPOLITAN TOWER, POLAND  
PULSAR LIGHT OF CAMBRIDGE, UK



THOMAS MORE SQUARE, UK  
BDP, UK  
SEE PAGE 102



VERDENSPARKEN, NORWAY  
ÅF LIGHTING, NORWAY



ČIKAT BAY, CROATIA  
SKIRA, CROATIA  
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NØRREPORT STATION, DENMARK  
BARTENBACH, AUSTRIA; GOTTLIEB PALUDAN, DENMARK; COBE, DENMARK



HOTEL & SPA ABADIA RETUERTA LE DOMAINE, SPAIN  
LICHT KUNST LICHT, GERMANY



GASHOLDER NO 8, KING'S CROSS, UK  
SPEIRS + MAJOR, UK



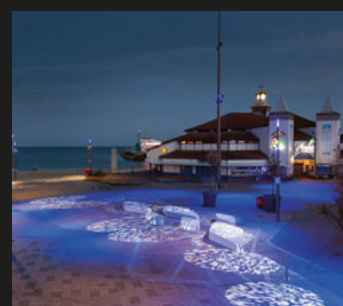
BOX PARK PHASE 2, UAE  
DELTA LIGHTING SOLUTIONS, UAE  
SEE MONDO\*ARC 91



BELGRADE WATERFRONT, SAVA PROMENADE, SERBIA  
BURO HAPPOLD, UK  
SEE PAGE 094



RENATO POBLETE PARK, CHILE  
DIAV, CHILE



PIER APPROACH & LOWER GARDENS, UK  
MICHAEL GRUBB STUDIO, UK





Pics: Filix Lighting

# PROMENADE FOR THE PEOPLE

*Previously an underused urban area of Belgrade, the river Sava's banks have become a vibrant and diverse new quarter for the city thanks to Buro Happold's people-focussed lighting scheme, forming part of a redevelopment masterplan strategy designed by architects RTKL and landscape architects SWA.*

Buro Happold, together with architects RTKL and landscape architects SWA delivered the masterplan strategy for the Belgrade Waterfront development on the banks of the river Sava in Serbia. With 2.8km of river frontage, the waterfront will regenerate a previously underused urban area, becoming a vibrant and diverse new quarter for the city. Masterplanned to provide the best possible inner city environment, the development looks to become a hub for technology and smart design. The 100ha site has introduced a quality of facilities not seen before in the region, providing innovative and sustainable design to make this site a modern leader and exemplar in redevelopment. The first part of the masterplan to be constructed was Sava Promenada - a stretch

of the waterfront promenade to the north of the site, including the surrounding public realm. Buro Happold was tasked with the lighting strategy through to completion for this area. The project features custom designed columns and bollards by Technilum as well as a range of inground luminaires by Filix designed to cope with periodical flow from the river.

The exterior lighting framework was developed to reflect the progressive and people-focused nature of this project. The lighting masterplan design document aimed to strengthen the Belgrade spatial plan for the waterfront development. At its core is a design intent that will deliver a public realm and streetscape that is both safe and secure for pedestrians, cyclists and motorists; as well as a general cityscape

that is intimate, inviting and romantic to encourage the citizens of Belgrade to make full use both by day and by night.

The main focus points for this lighting framework are sustainability, light pollution and light quality, and a people focus. Firstly, sustainability in mind, energy efficiency has been perused through the exclusive use of energy efficient LED light sources.

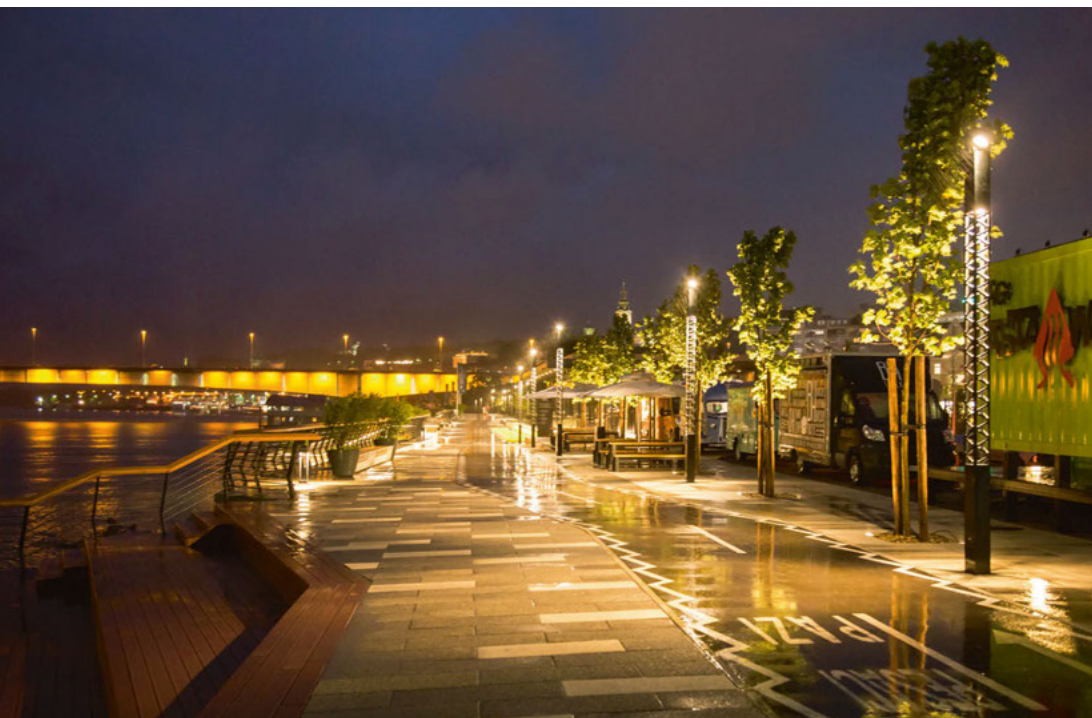
The use of LED sources together with a lighting control strategy that proposes, for all public realm and street lighting, to feature DALI dimmable control gear; linked to a site-wide lighting control system will enable the exterior lighting scheme to be modified and adapted to produce suitable lighting scenes in response to time of day and year, as well as crowd flows, special





*Left Hand Page* Filix Lighting linear luminaires have been integrated into the waterfront's many handrails. *Above and Right* Technilum custom bollards and columns punctuate the promenade's evening walkways.





The lighting scheme creates a pleasant and comfortable public realm. This was achieved by bringing some lighting elements down to a lower level, rather than uniform light throughout, allowing for pools of light and contrast shown here by Technilum's custom bollards and columns.

events and cases of emergency. Secondly, light pollution and light quality. Great attention has been given to the selection of luminaires and lighting effects to ensure that light pollution is kept to a minimum. Height of street lighting and side walk lighting has also been considered closely to ensure that light is only distributed and directed where it is needed. All luminaires feature optics to control the spread of light in accordance with European best practice guidelines. Finally, a people focus. The lighting scheme has been developed to create a pleasant and comfortable public realm. This was achieved by not simply lighting all areas uniformly to a set light level, but instead

bringing some lighting elements down to a lower level, allowing for pools of light and contrast in the public realm. Also by lighting all sidewalks along the road network from luminaires mounted at a lower height than the street lighting and by integrating lighting into urban furniture and landscaping elements wherever appropriate. The lighting scheme for the parks of Belgrade Waterfront also recognise the need to let some areas of the development remain without direct functional lighting, thus giving the visitors the contrast of bright and dark, which is typical of existing parks in Belgrade and the rest of Europe. [www.burohappold.com](http://www.burohappold.com)

## PROJECT DETAILS

**Belgrade Waterfront, Sava Promenada, Belgrade, Serbia**  
 Client: Eagle Hills  
 Architects: RTKL, UK  
 Landscape Architects: SWA, UK  
 Lighting Design: Buro Happold, UK  
 Lighting Suppliers: Filix, Technilum

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