

# mondo <sup>arc</sup>

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## GOING UNDER GROUND

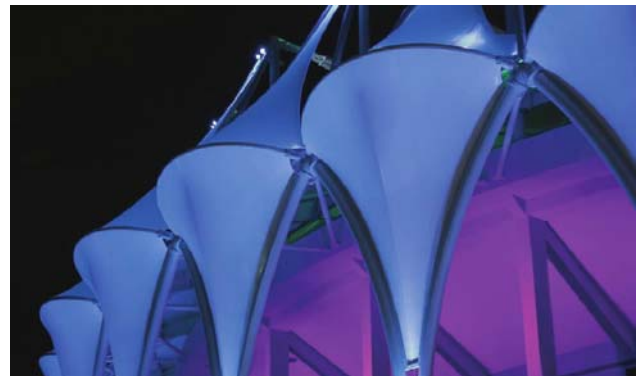
HAFENCITY-UNIVERSITY'S  
NEW U-BAHN STATION

PAUL NULTY INTERVIEWED • PUBLIC REALM LIGHTING  
EXTERIOR PRODUCT GUIDE • IGUZZINI LASER BLADE REVIEWED



# PLAYING TO THE CROWD

*Tashkent, the Uzbek capital, has seen a spate of public buildings constructed and a city-wide illumination concept has been launched to compliment them. Griven worked on the burgeoning city's new stadium.*



Bunyodkor Stadium was inaugurated at the end of August in time for Uzbekistan's 21st Independence Day. The Uzbek capital city, Tashkent, has seen a great deal of investment recently and a newly conceived metropolitan illumination concept has been launched to accompany the new buildings. The Bunyodkor is the biggest sports facility in Uzbekistan and a well-framed lighting plan was required to overcome the many structural obstacles the arena posed. Supported by 64 columns, the three-dimensional sail-like canopies that embellish the building's facade were identified as the lighting scheme's ideal centrepiece.

Griven was chosen to provide the necessary lighting technology in conjunction with the Uzbek company FV Asia Denkriser and almost 500 LED fixtures were installed in order to achieve the desired result. The sails and columns were enhanced with cutting edge LED lighting fixtures, dimmable

and individually manageable via a wireless DMX control system. Lightweight, compact fittings capable of reproducing dynamic lighting patterns in perfect synchrony and displaying individual or combined colour sequences were also used.

64 Griven Dune MK2 LED colour changers, specifically designed for exterior recessed applications, were embedded at the base of each column to ensure they were illuminated up to the protruding canopies. Owing to their three-dimensional shape, the canopies needed to be lit differently in order to reach the required uniformity of tones and light output and the Zaphir RGBW was chosen for this purpose. Two units were positioned at the top and two at the base of each canopy, while one unit was located as backlighting behind each sail.

320 Zaphir RGBW colour changers were also added, its touchscreen display allowing direct access to all on-board functions. Moreover, the full digital control system,

accessible via any five-channel remote DMX512 control desk, includes stand alone functions implemented by pre-configured colour sequences and a master-slave mode for the synchronisation of multiple units. 32 Powershine S RGBWs were distributed all around the top edge of the stadium to illuminate its partial roofing and 64 DMX receivers and four DMX transmitters were specified to obtain an optimal wireless digital control. The wireless DMX signal transmitter units handle all 512 DMX channels with a maximum frequency of 250Kpbs and a typical outdoor transmission of 700m.

[www.griven.com](http://www.griven.com)

## PARADE X-RGBW-48

### Griven

This leading edge high luminance linear surface mounted LED offers superb output with uniform colour coverage, even on large-scale installations. Newly conceived optics provide for powerful grazing lighting enhancement and the combination of the 48 RGBW LEDs driven at 700 mA, while offering a wider variety of intermediate colour hues. The digital control system allows access to a remote firmware update (RFU), RDM functions, pre-set selectable colour sequences and blends, as well as options for the synchronisation of multiple units.

[www.griven.com](http://www.griven.com)



## Monochrome Tube

### Traxon Technologies

Traxon's Monochrome Tube is ideal for outlining and emphasising architectural detail, distinguishing facades, walls and borders with a concentrated, even radiance. With its compact, low-profile design, exterior rating, and three available fixture lengths, combined with flexible mounting options, Monochrome Tube fits into nearly any installation space. Optional dimming capability via DMX512 enables a variety of ambient lighting options, and Monochrome Tube can be daisy-chained up to 12 metres per power run, increasing flexibility while lowering installation and maintenance costs.

[www.traxontechnologies.com](http://www.traxontechnologies.com)



## AUS 135 BEAM IP66

### Austube

Austube custom manufacture a range of lighting systems specifically designed for arduous environmental conditions which offer a high degree of protection without compromising looks or performance. Austube's IP66 range includes beam and recessed profiles which are available in flexible module lengths to suit site conditions. Austube IP rated luminaire systems are custom designed and manufactured to suit individual projects and have been successfully utilised around the world in railway stations, airports, road and pedestrian bridges and defence installations.

[www.austube.com.au](http://www.austube.com.au)

## FAÇADE



## Lumenfacade Horizontal

### Lumenpulse

Lumenfacade Horizontal is a high-power linear LED projector with a slim 5-cm profile that's easily integrated into architectural facades. The driver chamber is repositioned out of view, reducing the height of the luminaire while concealing wires and mounting details. Available in 30, 60, 90 or 120 cm sections, its configuration options include optics for grazing or flood lighting; different outputs (5W/ft, RO 8.5W/ft or HO 15W/ft); various colour temperatures or colours; many mounting options, finishes and accessories; and dimming control.

[www.lumenpulse.com](http://www.lumenpulse.com)

## VC-Grid

### Martin Professional

The VC-Grid from Martin Professional is a true LED video panel in a compact and lightweight form (200 x 200 mm, 25 mm pixel pitch) that enables creative integration of LED video onto facades and custom-shaped LED video screens. Used with or without a front diffuser, multiple VC-Grids can be combined in a countless variety of ways. A combined power/data cable allows VC-Grids to be daisy-chained for easy setup and less cabling and are available in RGB, warm white, medium white, cool white or custom variants.

[www.martinpro.co.uk](http://www.martinpro.co.uk)



## Square Dot

### Illumination Physics

To meet the demands of architects and facade designers, Illumination Physics offer a range of rectangular or 'Square Dots' in various configurations and sizes. White, RGB, RGBA and RGBW are all available in different power outputs (3, 6, 8 and 12 watts), each withstanding very high operating temperatures of up to 85 Degrees Celsius. Square Dot comes as part of a complete system including driver and control with Remote Device Management (RDM) as an option.

[www.illuminationphysics.com](http://www.illuminationphysics.com)

