

MACAO

# BAP Integrates Complete LED Dimming For Parisian Macao

*Lutron solutions contribute to saving more than 5 million kWh of electricity annually*



The Parisian Macao's full array of integrated resort facilities includes 3,000 guestrooms and suites, convention and meeting space, international restaurants, spa, kids' club, health club, pool deck with themed water park, and 1,200-seat theater, among other amenities.

The Parisian Macao is Las Vegas Sands' and Sands China's most energy-efficient integrated resort to date. It is targeting LEED silver certification for new construction and is the first integrated resort in Macao to do so for the entirety of its operation.

A full 100 per cent of The Parisian's interior and exterior lighting is LED - a first for an integrated resort of this scale. This conscious green decision is expected to save more than 5 million kWh of electricity each year, with the additional LED installation cost paying for itself in less than three years. The electricity saved would be enough to supply power to more than 12,000 Macanese households for an entire month.

BAP was roped in to integrate the lighting system for the entire space that included:

- Façade lighting
- Gaming Areas
- Fitness
- Spa
- Pool Side Bar
- Kids Club
- VIP drop off & elevator lobby
- Ballroom & business centre
- Pre-function & meeting room
- Guestrooms
- All public area

The biggest challenge for BAP was to incorporate a dimming system to accommodate all LED lights in this scale. Fortunately the company found the perfect solutions in LUTRON. Both **LUTRON Quantum System** and **LUTRON HomeWorks QS System** were integrated to achieve the property's objectives.



### Guestrooms

Lutron HomeWorks® QS System systems are applied to adjust the lighting and shade environment according to a preset schedule, which allows the hotel staff to be wholly dedicated to their guest service. The shift of lighting scenes is a gradual one which can take as long as one hour, creating different lighting ambience for in-room experience respectively without causing inconvenience to guests.

### Casino – Gaming Area

The gaming area accommodates as many as 150 tables and up to 2,500 slot machines. Lighting of the entire casino is controlled by Lutron Quantum system. It is a total light management that is able to improve occupant comfort and productivity, simplify building maintenance and operations, create beautiful and functional lighting environments, and save considerable amounts of money and energy.

The built-in timer in the system adjusts the lighting automatically, saving lots of labour in lighting adjustment in different locations and avoiding the possibility of negligence or mistakes in such operations. Lutron system also prolongs the lifespan of LED light, which is especially important for casinos where business goes around the clock, as any replacement of light will necessitate temporary close-down of certain areas,

which causes inconvenience to guests and business losses to the casino.

### Ballroom & Multi-function Meeting Spaces

The Parisian Macao features exceptional meeting spaces (over 5200 sqm), including the 36 individual/partitioned meeting rooms. The space is highly flexible and can be divided into event venues of different sizes based on the number of attendees. These meeting rooms can be combined in different sizes according to different needs, which means that there are over a hundred possible room combinations. BAP's programming team took a lot of effort/time to build a system program that could cater to these numerous combinations. Although it was far from an easy task, the BAP team was able to pull it off to great success.

As the function of the venue changes, the lighting scenes and thousands of lighting circuits will need to follow accordingly, and that was a key reason why the LUTRON Quantum system was installed for switching and dimming. Last but not least, LUTRON provides central control and reset of lighting scenes to match different events and venue arrangements, which is very important for a highly flexible and huge venue like this.

[www.bap.com.hk](http://www.bap.com.hk)

