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A REVOLUTION IN LIGHTING

The technological progress undergone by materials used for architectural projects such as Casinos and hotels is absolutely fascinating.

I would like to explain the revolution in Casino lighting and air-conditioning equipment. New technology has introduced the use of LED's as light sources and focal points.

Lighting is of tremendous importance in a Casino, creating different ambiances and moods; it is also used to emphasise the artistic details of the environment.

Although LED technology has existed for years and there are thousands and types of LED's, LED's specifically designed for Casino lighting are a new development. The light issued by earlier LED's was very strong, very white, almost dazzling.



Casino Florencio Varela, Argentina. Indirect lighting with points of incandescent light



Casino Montecarlo, Quito - Ecuador. Indirect accent lighting and small spots

New technology, using mixtures made with materials such as phosphorous, has recreated the exact colour and temperature of lamps to which our eyes were used, and also creating LED's with a visual angle of 180°. These new designs and new configuration have really created a unique situation for architects and operators.

Architects can create exactly the effects they want, such as using incandescent light or xenon light for indirect lighting, and can choose from the complete variety of colours of the spectrum. The advantages are even greater for operators, because of great savings in energy - as LED's only use about 6-10% of the energy of current incandescent lamps. Consequently, savings of 90% are possible. This also means using fewer transformers, circuits, dimmers and smaller controllers. As a matter of fact, the entire installation can be reduced to 10%, and monthly savings in electricity, logically, are huge.

Another advantage is in reduced air-conditioning use to keep rooms at the right temperature. This is because incandescent lamps give out a lot of heat when lit, and the air-conditioning units have to dissipate all this heat to cool the atmosphere. LED technology, on the other hand, does not emit heat and,

consequently, leads to great savings in air-conditioning use. The final big advantage is maintenance. As LED's do not have candles, and there is no problem with changing spotlights, they emit light for the number of hours for which they were designed (approximately 30,000). After this time there is a very discreet reduction in intensity, almost imperceptible to the human eye. Manufacturers of traditional products for Casino lighting now manufacture LED lamps to replace existing lamps, without having to create a new installation, simply by replacing the lamps.

Sinai Grand Casino,
Sharm El Sheikh - Egypt.
"Outdoor Lighting"



Casino Admiral Prater, Vienna - Austria. Indirect lighting



Casino Admiral Prater, Vienna - Austria. Indirect lighting in a range of colours