

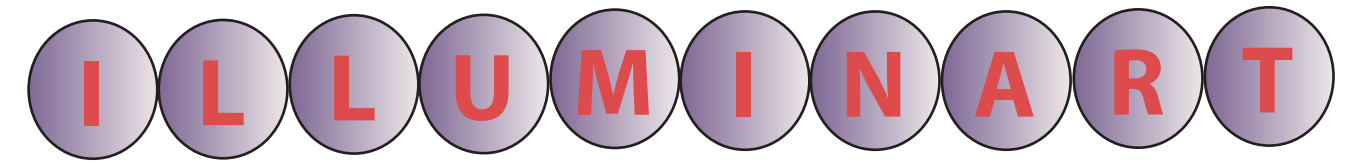
# Casino

Lighting Design Experience

**ILLUMINART**

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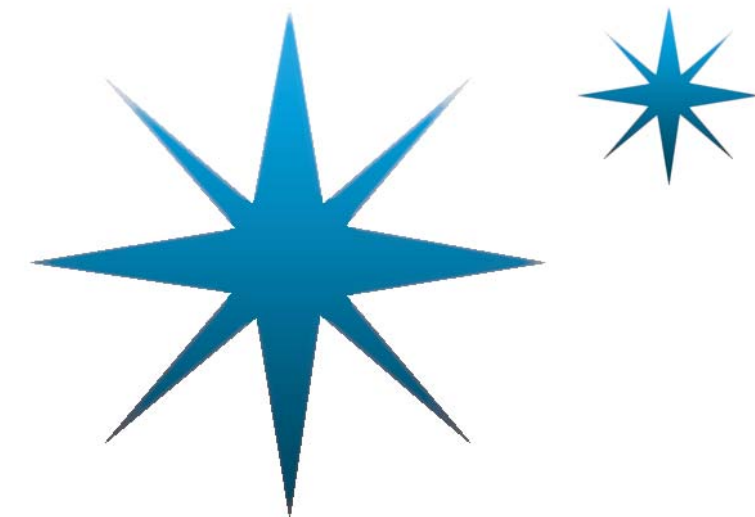
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## lighting design services



- Comprehensive lighting design
- Details development for lighting integration
- Strategies for energy management
- Control system conceptual design and execution
- Cost benefit analysis / Budget planning
- Lighting calculations: Analysis / Renderings / Modeling
- Equipment cost management
- Theatrical and specialist lighting coordination with architectural systems
- LED performance criteria specialization: design guides, performance specifications
- Support for the construction team during procurement and install phases
- Experienced and innovative solutions for construction and budget challenges
- Final lighting aiming and lighting control system commissioning support
- Custom luminaire design
- LBC, LEED, and Net Zero project experience





Darko

## LIGHTING DESIGNER

Darko is involved in the design of specialty indoor and outdoor lighting systems, facility lighting studies, and lighting master plan development for buildings and campuses.

Having achieved particular proficiency and passion in the area of lighting design, Darko has earned registration as a Certified Lighting Consultant and takes the lead on or lends his expertise to many of the lighting projects the firm undertakes. He is also an honorary independent counsel to multiple lighting manufacturers for the development of new products.

Darko's project experience is extensive and over his 32-year career he has created specialty lighting designs for projects in the hospitality, restaurant, casino, entertainment, religious, retail, commercial, institutional, corporate and prototype industries. With lighting designs completed in well-known Las Vegas and Detroit casinos, Darko has acquired the knowledge required for successfully lighting gaming facilities; designs that attract people, keep guests entertained, and make spaces memorable to inspire their return in the future. Darko's casino-specific lighting designs incorporate his vast variety of experience into visually creative solutions that effectively meet the clients goals and the visual satisfaction of casino guests and users.



Karl

## LIGHTING DESIGNER

Though he began his career working in the hectic world of auto show and exhibit lighting, Karl quickly employed the lessons learned from that fast-paced environment to the more rigorous demands of permanent architectural lighting. He has gone on to work on a wide range of projects including retail, hospitality, office, higher education, residential, gaming, landscape and façade, both domestic and international. Through his experience working on multiple large international projects, Karl has an extensive knowledge of the challenges in working with global design teams, and international supply processes, but still delights in working on smaller local projects for the benefit of his local community. Karl has over 10 years of extensive experience lighting project in the gaming industry in both North America and Asia. He has worked on projects ranging in size from refurbishments of small regional casinos to multi-billion dollar new construction projects for international gaming conglomerates. He understands the nuance of the gaming market that requires an understanding of cultural sensitivities of the clientele while having a designer's eye for lighting the gaming floor, high limit salons, lounges, retail, and hospitality. Additionally, Karl is very familiar with the needs of operators including safety and security, while still keeping the environment engaging for patrons.



## Darko Banfic, LC, IES Lighting Designer

**ROLE:** Senior Associate  
**SCHOOL:** Studies toward Bachelors Degree in Electrical Engineering, Lawrence Technological University  
**CREDENTIALS:** Certified in Lighting Design (LC)  
**PROFESSIONAL MEMBERSHIPS:** Illuminating Engineering Society (IES)

### Darko's Relevant Experience

- **Greektown Casino, Detroit, MI**  
Interior Lighting Improvements  
Hotel Marketplace  
Asteria Bar Renovation  
Valet Parking Garage  
4th and 5th Floors Mezzanine Multi-Purpose Space Renovation  
Brizola Restaurant Lighting  
Egress Lighting Documents  
Super Pit  
Level 5 Meeting Space Renovation
- **Mandalay Bay Hotel & Casino, Las Vegas, NV**  
Four Seasons Exterior Renovation Lighting Design
- **Luxor Hotel and Casino, Las Vegas, NV**  
Flight Bar Lighting Design  
Floor Lighting Design  
Lobby Staircase and Escalator Addition Lighting  
Cirque/Criss Angel Sanctuary Lighting  
High Limit Gaming Area Lighting Design  
E-Bar Lighting Design  
Criss Angel Retail & Box Office Lighting  
Criss Angel Pit Lighting Design  
Perimeter Circulation Lighting Design  
Liquidity Bar Lighting  
Steakhouse Restaurant Lighting  
Deli Restaurant Lighting Level Solutions  
High Limit Outer Perimeter Lighting
- **MGM Grand Hotel and Casino, Las Vegas, NV**  
Monte Carlo Porte Cochere Site Improvements  
U-ME Drink Bar Renovation  
Monte Carlo Resort Service Drive  
Monte Carlo Resort & Casino West Entry Lighting Improvements  
Mirage New York New York Casino Gaming Remodel



## Karl Geil, LC, IES Lighting Designer

**ROLE:** Designer  
**SCHOOL:** Bachelor of Arts degree in Biology, geology, Albion College, Albion, MI  
**CREDENTIALS:** Certified in Lighting Design (LC)  
**PROFESSIONAL MEMBERSHIPS:** Illuminating Engineering Society (IES)

### Karl's Relevant Experience

- **Motor City Casino, Detroit, MI**  
Ballroom, Corridor, PreFunction Area Lighting
- **WinStar World Casino, Thackerville, OK**
- **Marriot Hotel, Romulus, MI**  
Exterior and Interior Lighting
- **Prime+Proper Restaurant, Birmingham, MI**  
Lighting Design
- **Titletown Development, Green Bay, WI**  
Phase 1 Plaza Lighting  
Sledding Pavilion
- **DTE Energy, Detroit, MI**  
Lumen Restaurant  
Beacon Park Logo Lighting  
HUB Interior and Exterior Lighting

#### Previous Employer Relevant Experience

- MGM Cotai Casino & Resort | Macau SAR
- Marina Bay Sands | Singapore
- Graton Resort & Casino | Rohnert Park, CA
- 390 Madison Avenue | NYC
- San Manuel Casino | Highland, CA
- Seminole Coconut Creek Casino | Coconut Creek, FL
- Lucky Bar at Red Rock Casino, Resort & Spa | Las Vegas, NV
- Skyloft Suites at MGM Grand | Las Vegas, NV
- Quinault Beach Resort and Casino | Ocean Shores, WA
- Ballpark Village | St. Louis, MO
- Coco Key Water Resorts | Multiple Locations



# Featured Project

## Luxor Hotel and Casino, Las Vegas, NV

### High Roller Gaming Area

#### The Challenge...

Prior to the renovation, the high roller area was a relatively small floor area surrounded by general public gaming.

#### The Solution...

The lighting solution required a balance of the three brightest elements in the space: bright tables for gaming without glare, self-luminous slot machines, and decorative luminous ceiling features for comfort and “warmth”. The flexibility in lighting controls completed the balance of brightness with light-absorbing architectural finishes for just the right mood. Following the renovation, the high roller area became more exclusive, offering the casino’s high rollers a more private experience.

### Grand Staircase and Escalator Addition

#### The Challenge...

The grand staircase was constructed to provide visually striking, yet convenient access for the visitors from the Main Lobby/ check-in to the second level, which offered entertainment, restaurants, and shopping. However, the escalator and staircase were lacking in visually striking features, and therefore would get lost between the hustle and bustle of incoming and outgoing guests.

#### The Solution...

From a distance, the escalator is visibly adorned with color-changing themes for easy identification and provides instant magnetic-like appeal to the visitors. Once on the staircase, the striking color disappears from view, and takes on a classy, contemporary feel, as small crisp white glowing elements project the thin spots of light creating visual contrast on the dark carpeting, and simultaneously identifying the steps and landings for safety.

### Luxor Theater Connector Corridor and Lobby Renovation: Cirque Du Soleil / Criss Angel “Believe”

#### The Challenge...

The production side of the show was completely independent from renovations of the auxiliary spaces. Besides the occasional sightings of the shows star performers, the design team had no interaction with the end users, nor could the rehearsals be attended in order to integrate the shows theme into the pre-show spaces.

#### The Solution...

Sharp contrasts created by a colorful glow of light emitted from within dark architectural finishes/elements in the lobby provided the desired mystique of the Criss Angel persona, while the continuous color changes enthused the dynamic energy of Cirque Du Soleil. Large, custom designed “nests” of tangled fiber optic “webs” compliment the visual expectancy and mystery of the experience in the theatre ahead.

### Flight Bar, Liquidity, Luxor Theater Box Office and Retail, Tender Steakhouse

#### The Challenge...

For one of the many spaces within the Luxor Hotel and Casino, PBA/Illuminart were brought on board to provide corrective lighting design solutions after the space was already remodeled and opened to the public. The complaints focused on spaces being either too dark, lacking focal accents on the outer perimeter to attract clients in, and lacking intriguing visual illumination inside to keep clients in...

#### The Solution...

Our team designed effective, affordable, and constructible solutions for the client that kept the spaces not only intact but “open to the public” during the improvement implementation. We identified opportunities in recently constructed details, materials, and colors, and once properly illuminated, we increased the vibrancy where expected, calmness where desired, and an increase in visitors.



# Featured Project

## Greektown Casino, Detroit, MI

### 1st and 3rd Level Casino Gaming Floor

#### The Challenge...

Challenge: The new owner of the casino sought a broader client base, and the dated theme of ancient Greek architecture was more literal than desired. A labyrinth of multiple buildings with differing construction types, ceiling heights, and square footages were conjoined over its existence, into a single user-type gaming facility, in need of common, brighter, and a friendlier entertainment environment.

#### The Solution...

The barreled ceilings, mixture of incandescent, fluorescent, and cold cathode lighting, gold finishes, and round architectural columns and other forms were de-themed. New rectangular luminous architectural forms and details enhanced by brighter surfaces, and intentional illumination on ceilings and vertical surfaces provide more edgy/modern flair throughout. Lighting techniques like grazing for the heavily textured historic brick surfaces, and edge-lighting of the modern acrylics cordially merge the old with the new, for a more pleasant gaming environment. Construction occurred while the casino remained open to public.

### Monroe Market

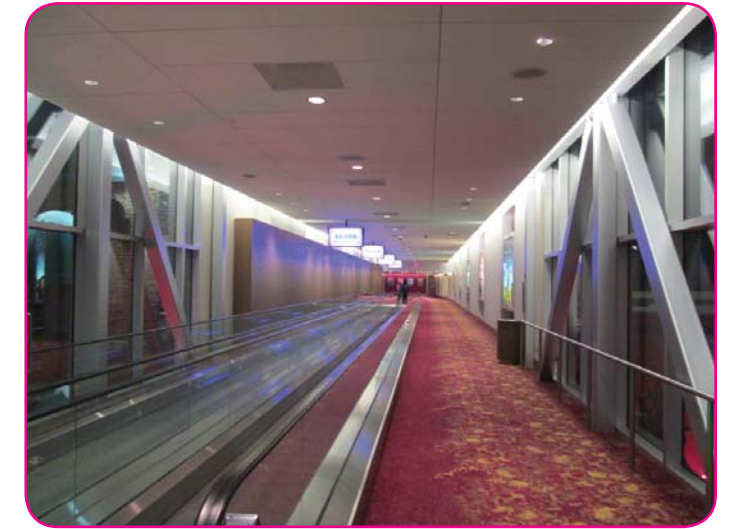
#### The Challenge...

A broader client base is every casino's never-ending pursuit. Architectural face-lifts, new visually creative spaces, and the right type of amenities are crucial in elevating the "buzz" or talk in town that will lure in new adventurers looking for new hangouts. The food court was an entry point to the casino; a large rectangular box-shaped space, it was clean, with a mix of food options and plenty of general open-seating elbow space.

However, as an entry "portal" it needed a vibe with variety. It needed to be a place that people would re-visit in order to experience the multitude of cuisines. It was also import to create an inviting atmosphere for visitors to step into the casino for some gaming and to provide options for those already gaming to stay and enjoy the many food choices in an equally exciting atmosphere as that which they were experiencing on the gaming floors.

#### The Solution...

The distinct architectural layouts and venue décor controls traffic flow and offers pleasant seating arrangements. The great menus satisfy the appetites, with a want to return. The lighting ties it all together and creates vibrant visual elements that are intriguing and an extension of the gaming spaces. The decorative luminous sconces, chandeliers, the colors on vertical surfaces, the live green wall illuminated for photosynthesis, and glitter of point-source accent lights create a balance to the experience that will create a desired word-of-mouth rumor on the streets.



## Casino Floor: *Lighting Design*



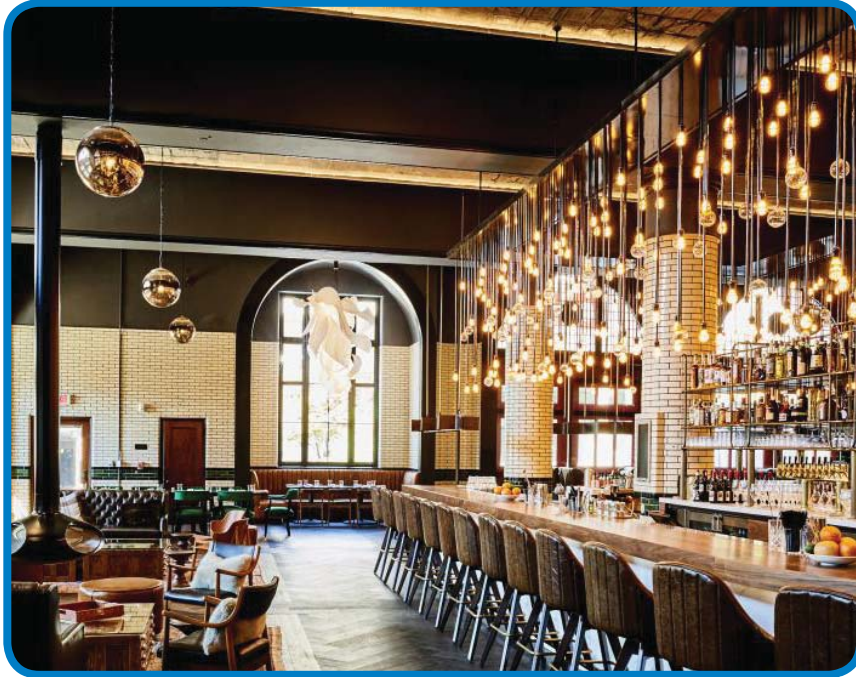
Pictured clockwise from left: Greentown Casino gaming area, Luxor Hotel and Casino, Greentown Casino gaming area

## Restaurant: *Lighting Design*



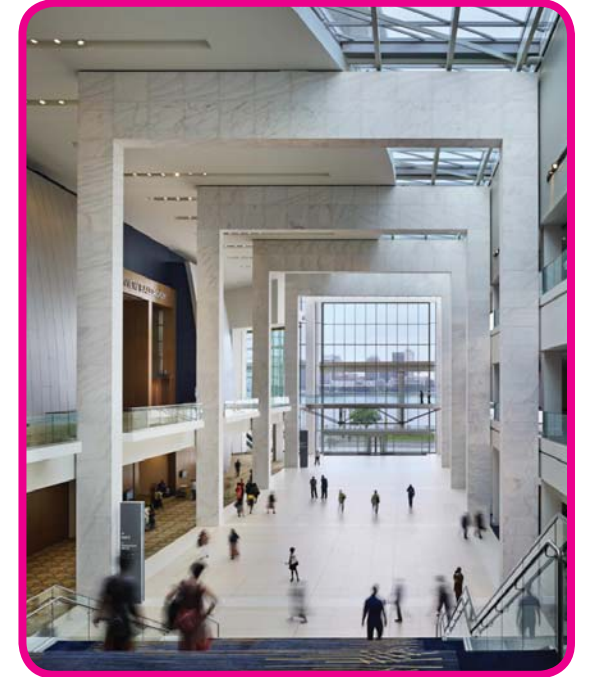
Pictured clockwise from top: Brizola, Prime + Proper Restaurant, Tender Steakhouse

## Restaurant: *Lighting Design*



Pictured clockwise from left: Apparatus Room, Foundation Hotel, Greektown Casino Monroe Market, Little Caesar's Arena, Kid Rock's Made in Detroit restaurant.

## Specialty: *Lighting Design*



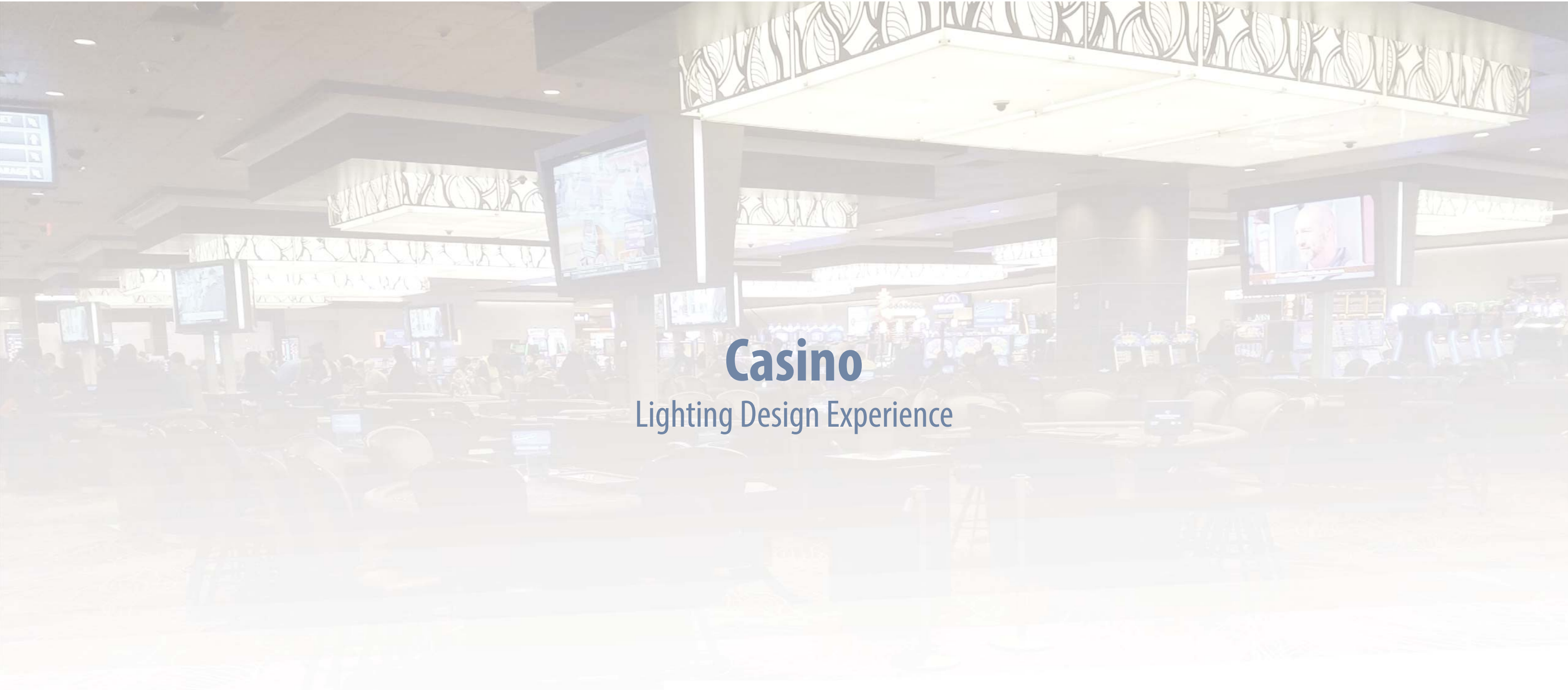
Pictured clockwise from left: Qatar National Convention Center, Cobo Center Atrium, Cobo Center Ballroom

# Retail: Lighting Design



Pictured clockwise from left: Luxor Hotel and Casino, Criss Angel Believe Box Office, Criss Angel Retail Store, Criss Angel VIP Box Office and Criss Angel Retail Store.





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