



# Unilumin SOLUTIONZ



Mohegan Sun FanDuel Sportsbook's Colossal Curved dvLED Video Wall by Peerless-AV® & Unilumin is Setting a New Standard for the Leisure & Entertainment Space

CASE STUDY  
MARCH 2022



# Overview

## MOHEGAN SUN CASE STUDY



Collaborating alongside AV integrator [Solutionz, Inc](#) and dvLED supplier [Unilumin](#), [Peerless-AV®](#) was tasked with installing an enormous custom video wall for the [Mohegan Sun FanDuel Sportsbook](#) at [Mohegan's](#) flagship casino and entertainment destination in Connecticut, Mohegan Sun. In June 2021, Mohegan Sun commissioned AV integrator Solutionz to manage the project, which was no straightforward installation due to its size and scale.

Mohegan Sun wanted to create an innovative and exciting addition to their facility. Working together with FanDuel, the concept of this visually stunning video wall came to life. This impactful display would serve sports betters with access to a world-class selection of live sports competitions from across the world with restaurant, bar and gaming offerings. This is what led them to contact Solutionz and the installation began in November 2021.



# The Challenge

## MOHEGAN SUN CASE STUDY

The location for the Mohegan Sun FanDuel Sportsbook had existing AV equipment that needed improvements to deliver a more impressive experience for guests. Mohegan Sun collaborated with FanDuel to conceptualize an enormous video wall that would be the center focus of the room.

Solutionz specified a custom manufactured mount from the Peerless-AV team who would design, engineer, and deliver a unique [SEAMLESS Bespoke Mounting System](#) to support this triple XL curved video wall. The team carefully arranged Unilumin Uslim dvLED displays to create three individual video walls, including one main wall and two wing walls to form a concave appearance.

Not only was the size, weight, and curvature of this video wall a challenge, but there were also adjustments along the way that allowed the teams' adaptability and innovation to be showcased and still meet the deadline. The original installation plans included the colossal video wall to be mounted on the floor. However, the visible posts were not favorable by Mohegan Sun management. The team then revised plans to create a mounting system that suspended the 20,000lb curved video wall's total weight from the ceiling and attached to the wall.

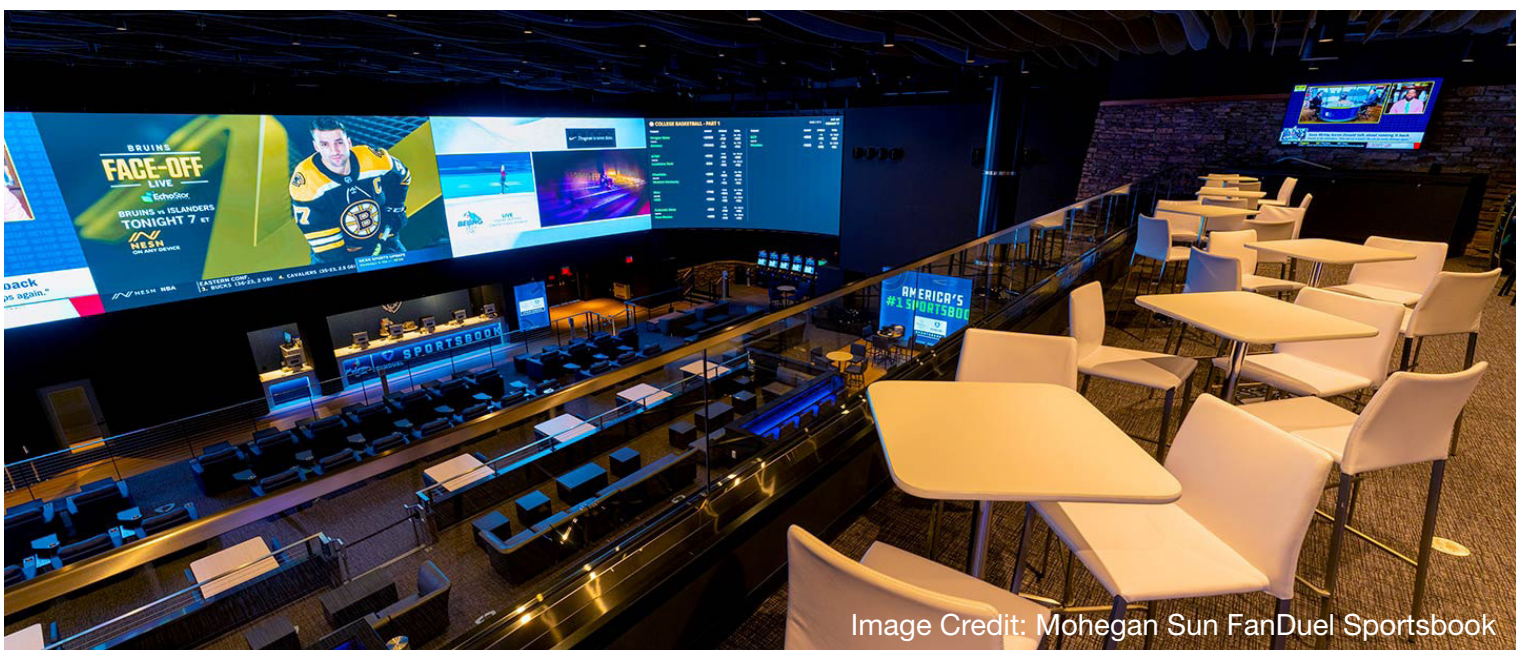


Image Credit: Mohegan Sun FanDuel Sportsbook

# The Solution

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## SEAMLESS BESPOKE

Peerless-AV analyzed the room for any challenges or considerations by conducting an in-depth site survey. All parties collaborated on the perfect solution to where the mount would attach in the space.

Known for its flexibility, cost-effectiveness, and superior customer service, [SEAMLESS by Peerless-AV](#), the company's dvLED Video Wall Integration Program, ensured start-to-finish project support – from the designing and manufacturing of custom Bespoke Series Mounting Systems to testing, project management, on-site installation consultation and commissioning.



“ I am a huge advocate of Peerless-AV, having worked with their custom dvLED team on other complex, large scale and high-profile projects such as the ilani Casino Resort, operated by both Mohegan and the Cowlitz Tribe in Washington. Peerless-AV was the obvious choice for this project, as there was no doubt that they had incredible product reliability, a great reputation, as well as quality servicing and support.



**Kevin Reilly, Corporate Entertainment Technical Manager**  
**Sports & Entertainment for Mohegan**

Findings from the investigation conducted by Peerless-AV resulted in the removal of the existing non-structural wall of 20g light-gauge framing and sheetrock, exposing the building structure. This would allow Peerless-AV to mount the video wall using a stable structure with supplemental steel to support and prevent issues of sagging or deflection from improper mounting. This steel was designed to handle accumulated snow and ice by flexing with the building.

This stability started with the base building structure and was subsequently carried to the displays with the SEAMLESS Bespoke Mounting System framework. In addition to these structural benefits, it would also allow the team to push the dvLED video wall as far back as possible to maximize the common area and limit the protrusion of the video wall.

The team at Mohegan Sun understood the risks of this installation and assisted greatly by providing load and deflection values so that the structural team could develop proper building attach points. This excellent teamwork was crucial to the eventual success of the installation.

# The Installation

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After the steel structure was in place, the SEAMLESS Bespoke Mounting System was installed, and the displays were mounted row by row so the whole video wall came together easily and flawlessly. The team included a half-inch vertical expansion gap between each of the sections to account for a potential difference between snow loading deflection that could impact the side sections of the curved video wall differently than the main wall.

The main video wall featured a uniform yet gentle curve with a 179.8-degree angle between any two adjacent displays. The right and left sections each had a greater curve than the center, with a 176.7-degree angle between any two adjacent displays.



# The Installation

## MOHEGAN SUN CASE STUDY

Designed for visitors of the sportsbook to be able to view the display from any angle of the space, the total viewable surface of the dvLED video wall is 139ft W x 14.7ft H and 2,034 sq ft. 420 Unilumin Uslim dvLED displays were used for the enormous wall. The panels were arranged in an 84-wide by 5-high configuration. The bottom four rows contained 500 W x 1,000 H displays, totaling 336 cabinets, while the top row contained 500 W x 500 H displays, totaling 84 cabinets. In order to create a desired viewable size that is maximized to fit the space, this custom design had to accommodate these different cabinet sizes.

“This was our first large scale project with Solutionz and Peerless-AV together,” said Patrick Dunn, EVP of Operations for Unilumin. “The entire team worked well together and never lost sight of our customer first approach. We look forward to many successful deployments in the future together.”

Peerless-AV also developed a perforated custom rear cover for the side array located over an opened space to hide the back of the display. This cover blends in with the ceiling structure but allows for proper airflow, creating an aesthetically pleasing view from all angles, while still being practical and soundly designed.



# The Results

## MOHEGAN SUN CASE STUDY



Image Credit: Mohegan Sun FanDuel Sportsbook

The incredibly large video wall installation was an amazing success. As a result of the well-coordinated and dedicated efforts of all parties working on this project as one expert team, the installation went smoothly and the video wall is up and running with reliable performance 24 hours a day, 7 days a week.

“Mohegan Sun FanDuel sportsbook is a wonderful leisure and entertainment installation, and we are immensely honored to be part of it,” said Jim Miner, Vice President at Solutionz. “When we changed the design from three individual walls to a single large curved front video wall it demanded the best from our staff and our partners at FanDuel, Mohegan Sun, Peerless-AV and Unilumin. There were so many structural challenges that we needed a premium mount partner that could provide the support to the extent that was required. From start to finish, Peerless-AV was the right choice for this project.”

Now the home to the largest video wall on the East Coast of North America, The Mohegan Sun FanDuel Sportsbook sets a high standard for the leisure and entertainment space. The Mohegan Sun and FanDuel teams were elated with the installation that brought their vision to life.



# The Results

## MOHEGAN SUN CASE STUDY

“As one of our marquee locations, the Mohegan Sun FanDuel Sportsbook had to be equipped with nothing but the best,” said Juan Torres, FanDuel Director of Design and Construction. “The partnership with Solutionz assured us a superb sports viewing experience, and Unilumin and Peerless-AV’s displays and mounting solutions took this project to the next level. The entire video wall aids in the creation of an energetic space that keeps the customer engaged and excited to be a part of the FanDuel brand.”

Once the project was complete and all parties were satisfied with the incredible results, the teams had a moment to reflect on the hard work put into this installation.

The result of the dedicated work between Solutionz, Unilumin, and Peerless-AV is a masterpiece that roused great excitement and created a captivating, immersive experience for sports betters. Peerless-AV is proud to have been part of the creation of this stimulating, high-tech environment for the Mohegan Sun FanDuel Sportsbook and all the visitors to come.

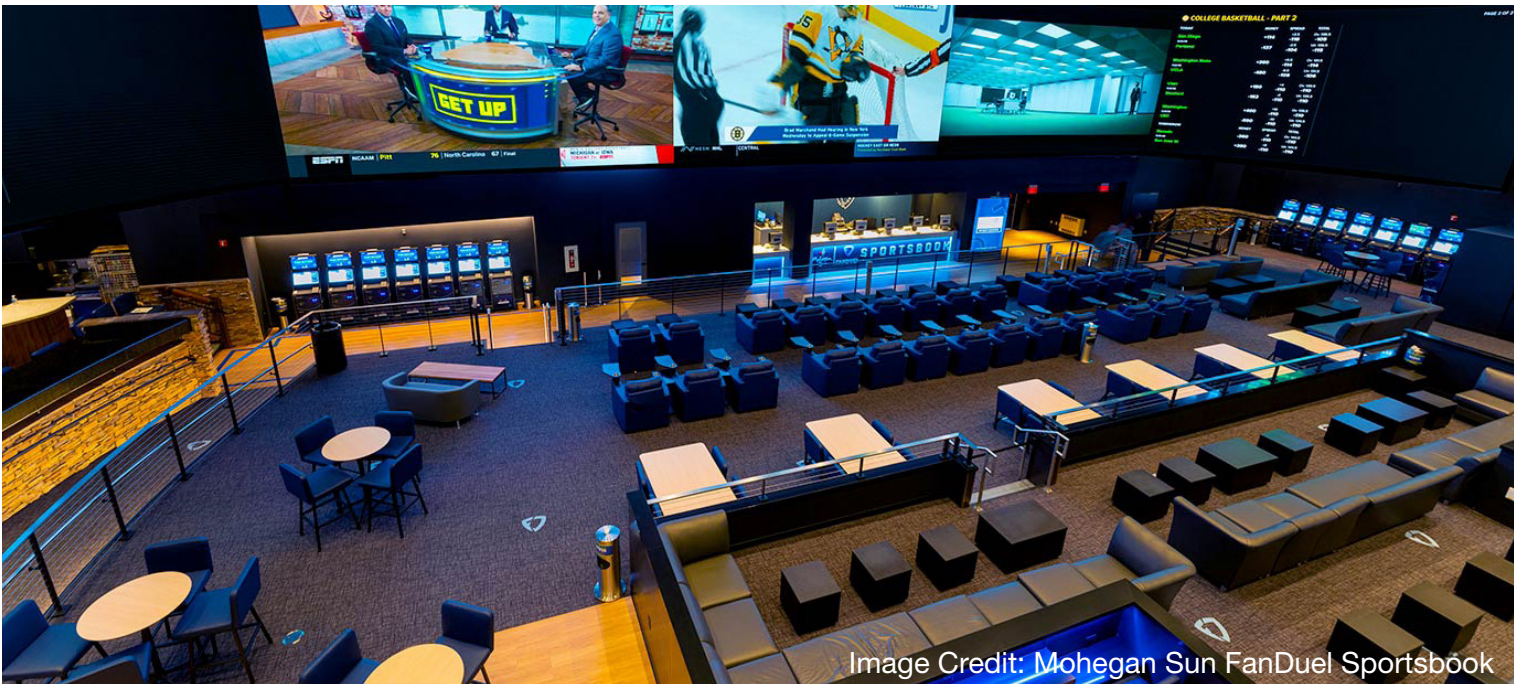


Image Credit: Mohegan Sun FanDuel Sportsbook

With over 80 years of audio visual experience, our commitment to the creation of cutting-edge technology and standard-setting solutions has elevated us to the status of the industry's most innovative leader. Our Dedicated SEAMLESS dvLED Solutions Team sets the bar for high quality design, while achieving the pinnacle of aesthetic results. Our dynamic group of dvLED professionals include structural and mechanical engineers, product managers, project managers, installers, as well as sales and service personnel. The entire Peerless-AV® dvLED Solutions Team is there every step of the way to ensure every customer receives SEAMLESS product support & service.



### **EXPERT ENGINEERING & DESIGN**

Our experienced custom engineers & support staff work in a think-tank style environment, creating new & effective solutions specific to your needs.



### **CUSTOM PROJECT MANAGERS**

We provide a single point of contact, from the SEAMLESS dvLED Solutions Team, who oversees the project every step of the way, ensuring an ideal solution & timely delivery of your custom dvLED video wall solution.



### **FULL INSTALLATION SERVICES**

When we say that we are there every step of the way, we mean it. Our SEAMLESS dvLED Solutions Team supports the installation, maintenance, troubleshooting & even, post-installation services.



### **SEAMLESS dvLED MOUNTING SYSTEMS**

Our SEAMLESS dvLED Solutions Team exceeds industry standards, while achieving the pinnacle of aesthetic results. Choose between our Kitted and Bespoke Series dvLED Mounting Systems.

To learn more about the SEAMLESS by Peerless-AV® dvLED Video Wall Integration Program & mounting solutions, visit [peerless-av.com/SEAMLESS](https://peerless-av.com/SEAMLESS).



Solutionz, Inc. is a worldwide leading AV integrator and services provider specializing in custom project design, implementation, and comprehensive maintenance plans. Our professional services include cybersecurity, AV security, remote monitoring and management, audio and video conferencing, cloud video, building environments, infrastructure cabling, managed onsite services, and grant program consulting. Through organic growth and acquisitions, Solutionz continues to expand their geographic footprint to better serve the needs of Fortune 500 companies, law offices, healthcare providers, government agencies, education institutions, and more.

For more information, visit: [www.solutionzinc.com](http://www.solutionzinc.com).

# SOLUTIONZ

Unilumin Group Co., Ltd. was founded in 2004 and is a leading manufacturer of LED display products. Unilumin has 5,000+ employees worldwide, with a 290,000+ sq. m. production base equipped with advanced automatic assembly lines. We have state-of-the-art technology centers in NYC and FL to experience the vivid color Unilumin LED panels possess, in varying pixel pitches. Our 36,000+ sq. ft. Orlando Florida facility features our service repair center and our “Experience Center” showroom, for all your product viewing needs. Unilumin leads the LED products category with constant new product development and advanced manufacturing techniques.

For more information, visit [www.unilumin-usa.com](http://www.unilumin-usa.com).

The logo for Unilumin, featuring the word "Unilumin" in a bold, blue, italicized sans-serif font. The letter 'i' has a green dot, and the letter 'n' has a red dot.







# About Peerless-AV®

## MOHEGAN SUN CASE STUDY

For over 80 years, passion and innovation continue to drive Peerless-AV® forward. We proudly design and manufacture the highest quality products, including outdoor displays and TVs, dvLED and LCD video wall systems, complete integrated kiosks, professional carts and stands, and more. Whether a full-scale global deployment or high volume custom project, Peerless-AV develops meaningful relationships and delivers world-class service. In partnership with Peerless-AV, you are trusting an award-winning team of experts who will support your business every step of the way. For more information, visit [peerless-av.com](https://peerless-av.com).



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