

CASE STUDY

CUSTOM STONE ILLUMINATION PROJECT FOR THE BILLIONAIRE MANSION



LUXFIT™
LED LIGHT PANEL

LED ILLUMINATED DINING TABLE BEL AIR MANSION, LOS ANGELES, CA

OVERVIEW

LED ILLUMINATED DINING TABLE AT THE BILLIONAIRE MANSION

LOS ANGELES, CA

architect/lighting design Angeles Electrical & Design
client Uberion Design
product LUXFIT™ LED Light Panel
manufacturer LEDCONN

Through the years, lighting has become more than just a way to illuminate a well-designed and decorated home, office space or building. With the numerous advances and features in lighting systems, the ability to dim, add color and create different shades of white has turned lighting into an actual design element. As much as floor coverings and furniture, lighting can set a tone or create a mood in a space that was previously static, so it was just a matter of time before an ultra high-profile project would put mood illumination to the test.

The Billionaire Mansion is a 38,000 square foot estate structure located at 924 Bel Air Road. It is built into a hillside in Los Angeles's super-affluent suburb of Bel Air, and it has the distinction of being called "The Most Expensive House in the US".

Among other extravagant features, the master dining room features a massive 24-seat dining table which is made of elegant, polished stone. In order to create a warmer and more intimate dining experience, Designer Angeles Electrical & Lighting Design recommended that the actual table - the massive stone - be illuminated. For this, they reached out to LEDCONN.



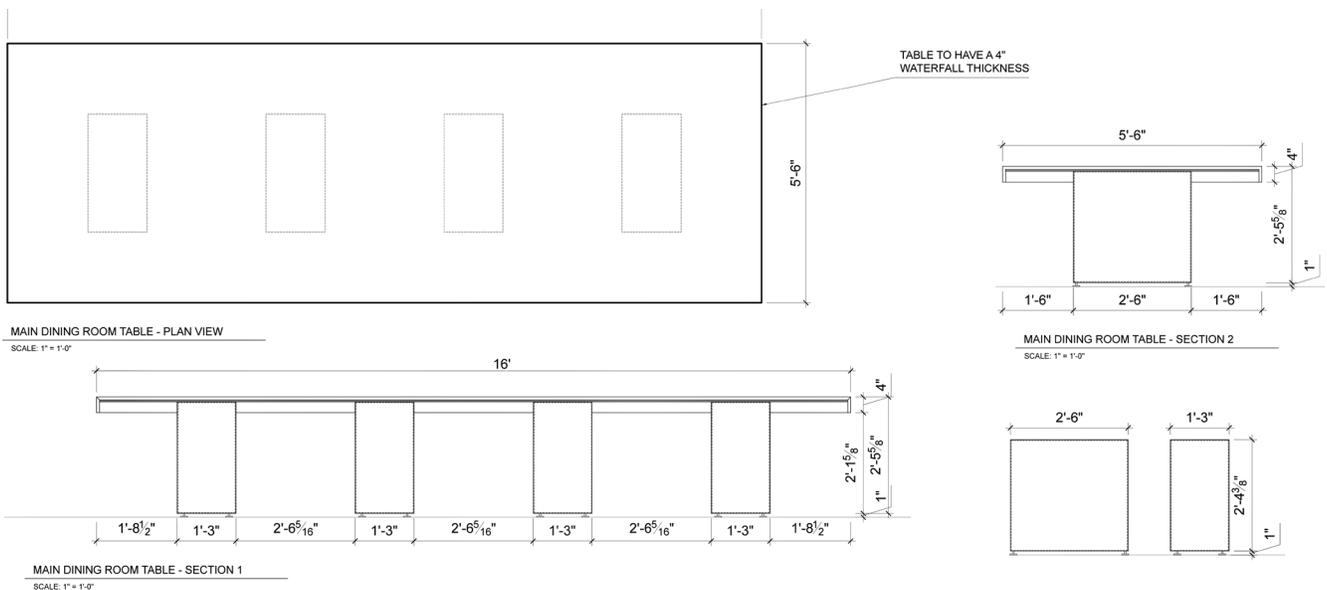
CHALLENGE

The LEDCONN team gathered to carefully review the project elements, particularly the stone itself. They determined that the surface measured 17' 6" long and 5' 6" wide while the sides of the table, which added additional 4" waterfall edges that also required illumination on all four sides. Bottom line - they were presented with a project that required maintaining illumination with zero air gap while tiling multiple LUXFIT LED Light Panels and preserving the natural aesthetics of the stone top. The designer selected a stone top featuring varying levels of opacity to ensure lighting quality and appearance before committing to the final selected opacity.

A more detailed study of the table determined that the entire table - from the enormous flat table top to the waterfall edges and large leg support pieces

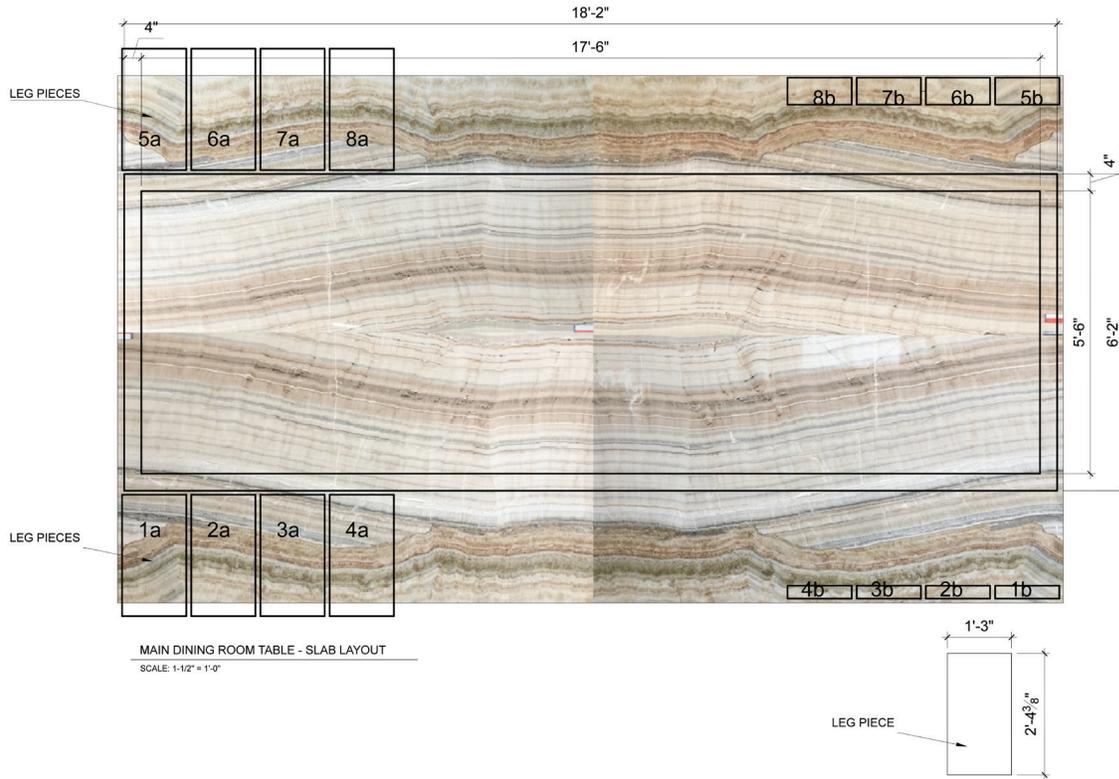
- was made from a single slab. It was obvious that both the stone and the workmanship required to design and assemble it were of extraordinary quality and no expense was spared to create this elegant furniture / art.

The stone had a beautiful and distinct pattern throughout. The pattern almost resembled fresh-cut wood, and the light, shaded and darker areas were perfect for receiving illumination. Also, while the material was a heavy stone it was not particularly dense. Again, it was perfect for illumination.



SOLUTION

After LEDCONN studied the table, they found that the massive single slab provided little to no air gap to work with to ensure even illumination with multi-paneling. The decision was made to use thin light panels (LEDCONN LUXFIT Panels) and gravity mount them beneath the slab. Since the small seams between the panels would be slightly visible and not carry the light evenly, LEDCONN selected paper wings as a solution for the gaps and light diffusion. In addition, opaque tape was used to mask hot spots, and a light color of 3000K was selected to provide a warm, rich glow.



An onsite mockup was done using the LUXFIT light panels to check feasibility and test the solution on the actual stone. The test was a success - their solution would ensure smooth, seamless lighting beneath the stone. Within three weeks, the light panels were put into production at the California facility and all materials were shipped to the location for installation.

In addition to the lighting panels and materials (including 0-10 V dimmable drivers), LEDCONN also provided a wiring plan for the electrical contractor so there would be no installation issues.



Mockups are key to success!

An on-site mockup helped ensure the selected product and face material created a seamless look.

THE FINALE

The installation was a very smooth procedure. Even with the last-minute changes to a magnetic dimming control, LEDCONN was able to swap and provide new drivers to suit the new control specifications later on during installation. The result was exactly as the owner and the lighting designer expected: a perfect, glowing table that sits as the centerpiece of the mansion's dining room.

PRODUCT

The amazing results were achieved by using the following materials:

- [LUXFIT LED Light Panel](#), 3000K, various sizes
- 24VDC 288W Magnetic Dimmable LED Power Supply

LINKS

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**Do you need a lighting solution for your project?
Our team is ready to help.**

Reach out to us for a complimentary lighting consultation today!

