



Mandarin Oriental Hotel PROJECT

City Center, Mandarin Oriental – Las Vegas, NV

CITY CENTER

APPLICATION:

COVE, TUBE, SPECIALTY, STRAND, STEP, WALL, GUIDE, SEAT & RAIL

PROJECT:

City Center, Mandarin Hotel, Las Vegas, Nevada

LIGHTING DESIGN:

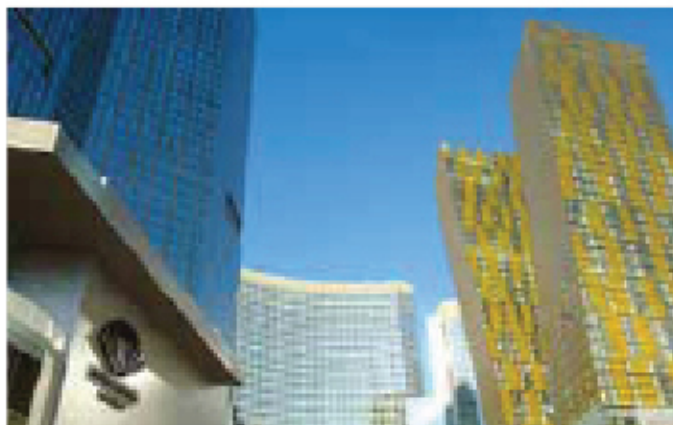
Ron Harwood, Illuminating Concepts, Farmington Hills, MI

PRODUCT

Tivoli Platinum Cove LED



In the infamous city of lights, Lighting Designer Ron Harwood of Illuminating Concepts served as the Executive Lighting Designer on the \$8.7 Billion MGM City Center, Las Vegas. Ron led and implemented the project-wide lighting package that spanned over 20 million square feet and totaled in excess of \$170 million.



City Center is an urban community filled with fine art and spectacular architecture. It is home to the ARIA Resort & Casino, Mandarin Oriental, Las Vegas, Crystals retail and entertainment district, Vdara Hotel & Spa, The Harmon Hotel and Veer Towers.

For a project of this scope, a number of challenges would present themselves in their goal to carefully balance the unique architecture of each respective building with the unique challenges of combining aesthetics and performance.

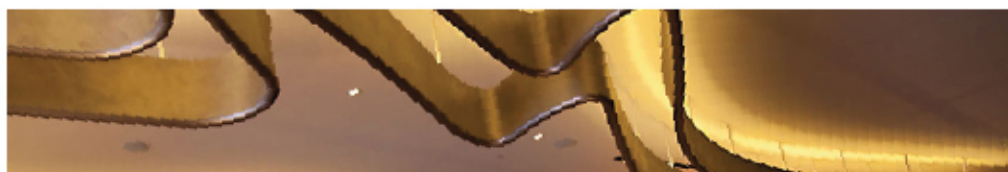
THE PROJECT SCOPE:

During the construction of the luxury 47-story Mandarin Oriental hotel, the lighting designers were tasked with creating an illuminated ceiling glow from customized formed metal ribbons that were attached to ceiling for architectural detail. This large architectural element not only needed to be illuminated with ceiling pocket illumination but also along the formed metal decorative wall.

PROJECT CHALLENGES:

Initially Tivoli's popular Covelum product was originally specified to tackle this unique illumination challenge. After further review, it was determined that this particular product provided almost too much illumination for the effect that they wanted to create. In addition, accommodating the metal ribbons tight radius turns deemed to present a different challenge and they needed to find a solution that would adapt itself to conform easily to the concave and various turns of the architectural element.

[more >>>](#)





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ABOUT TIVOLI:

Tivoli is the original innovator with 40 years experience in LED based linear lighting products.

When Color Matters —
Tivoli is the choice.

*Uniquely focused on 'the right light' —
color temperature and output for low
ambient cove and niche applications.*

Most other commercial manufacturers in US are focused on higher output led illumination. Tivoli is focused on low wattage, highly energy efficient, linear led fixtures for accent cove and niche lighting applications. We specialize in small source applications that create the sparkle to delineate a project.

Using our expertise with color mixing LEDs for theater lighting we have created incandescent color equivalents and even improvement to incandescent using led color mixes.

As the market leader in emerging LED linear lighting, we offer a complete line of architectural, signage and auditorium linear LED based lighting products. Our products are flexible, adaptable energy-saving LED-based linear lighting products for broad architectural / commercial applications, both indoor and out. Tivoli's architecturally significant designs have been providing visible delineation or concealed illumination effects for over forty years.

Lighting is our business,
color is our concern.



PROJECT SOLUTION:

Tivoli engineers eagerly took to the challenge to find a solution. They simply reconfigured the existing wire-conductor to a dual-conductor which would now allow flexibility up to 90°. This solution solved the challenge of flexibility and curves but the illumination level still needed to be addressed. It was determined that the Platinum Cove product was the best solution for the project.

The architectural detail of the metal ribbon only needed a soft glow of light, and the Platinum Cove was the perfect compact fixture to meet these specific needs. This versatile product fit beautifully inside the formed groove on the top metal ribbon and had the 90° flexibility required. A selection of Warm White

2800°K LEDs, 2" on center spacing were mounted at a 45° angle in individual mounting brackets for each LED module to facilitate the corner turns and ensure consistent beam angle of the light.

The entire series of popular Covelum products were redesigned to incorporate this field cuttable system to feature a dual-conductor that bends easily to fit concave and convex curves without any special hardware. The Tivoli Covelum Series offers compact, flexible concealed illumination for ceilings and walls with energy efficient, low maintenance solution for both indoor and outdoor applications. The series is available in variety of LED Whites and Colors, Xenon, and is now available in 120 line voltage.

