



STAPLES Center, Microsoft Theater retrofit to LED

New LED high bays spotlight performers, produce big energy and maintenance savings

Overview

AEG Worldwide (Anschutz Entertainment Group) upgraded close to 100 metal halide high bay fixtures in two of their most popular venues. The work was completed at Los Angeles's STAPLES Center and Microsoft Theater (formerly known as Nokia Theater). The STAPLES Center is a major sports venue, home to the Los Angeles Lakers, the Los Angeles Clippers, and the Los Angeles Kings. Microsoft Theater, meanwhile, hosts a number of high-profile concerts and events, including The Emmys and The ESPY awards.

AEG opted to retrofit those metal halide high bays to DHBX-LED high bays from Deco Lighting with the goal of increasing the lifetime of the lighting system, cutting maintenance costs, and lowering energy expenditures for their two L.A. Live venues.

OBJECTIVES:

- Decrease the need for maintenance in difficult-to-access overhead areas
- Improve clarity of on-stage performers
- Up visibility for athletes, coaches during high-profile sporting events
- Reduce energy costs in high-priced California energy market

PROJECT SUMMARY

- Quick, less-than-two-year payback on LED retrofit
- Significant increase in color rendering accuracy
- Increased light levels
- 10-year warranty on 120,000-hour fixtures
- Energy savings of over 75 percent
- 91 fixtures retrofitted between two of LA's most popular venues

“The wattage reduction with the Deco LED fixtures and being able to collect DWP rebates made this an easy financial decision.”

Bill Pottoroff

Director of Operations, Staples Center, AEG Worldwide

The Solution

The upgrade to LED at the two venues will be most evident to patrons during showtime. LED lighting provides vastly superior light quality compared to older options, such as metal halide and fluorescent lighting, which shift in color and lose lumen output much more quickly, comparatively. That means the teams and performers that attendees show up for will be more clearly seen when the show begins.

Furthermore, newer LED solutions provide illumination that is evenly distributed and incredibly bright while still being comfortable on the eyes. The pure, clear illumination will provide attendees with an enhanced viewing experience during entertainment events and allow them to witness every detail of a game or concert in stunning clarity.

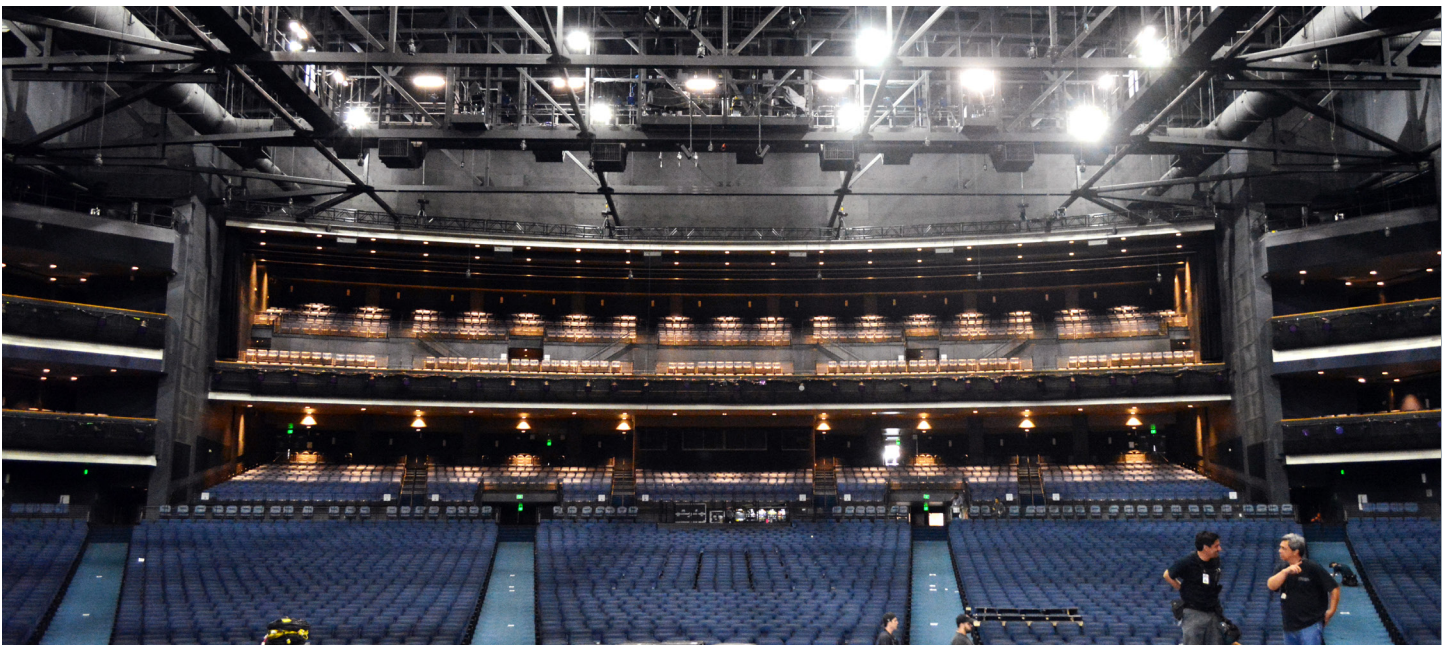
AEG greenlighted the project in late May of 2014 and had the new lighting installed by the end of June. The STAPLES Center had 60 of the fixtures installed while Microsoft Theater put in 31.

“The glare reduction with the new Deco LED fixtures was the first thing we noticed. It made setting up the stage easier for the workers.”

Michael Strobel

L.A. Live Chief Engineer

AEG Worldwide



76%

Expected Energy Savings

1.7 Year

Estimated Payback

10 Year

Warranty Including Labor

The Benefits

Switching to the 240W DHBX-LED resulted in 76 percent energy savings compared to a 1000W metal halide fixture. The venues will see a total energy savings of \$42,408 per year going forward, resulting in a payback period of just 20 months.

The new LED lighting system at STAPLES Center and the Microsoft Theater emits significantly less heat than the metal halide bulbs previously housed in the venues. This lessens the need for costly cooling to combat the heat output from the lighting system. Fixture lifetime has increased four times over — from 30,000 hours with the metal-halide to 120,000 hours with the DHBX-LED. Such a lifetime increase dramatically reduces maintenance costs and the need for replacement bulbs.

As a final benefit, the Staples Center and Microsoft Theater can rest assured knowing that their new fixtures are covered by a warranty that includes both labor and fixture components for a period of 10 years, or 100,000 hours.

“We are pleased that AEG has selected Deco Lighting to help them with their lighting needs, and we look forward to working with them on future projects around the world.”

Ben Pouladian

President

Deco Lighting

PRODUCTS USED

240W DHBX-LED Indoor High Bay

Performance Data:

- CRI: 70+ and 80+ option
- CCT: 4000K, 5000K
- Warranty: 10 yr. limited warranty
- Dimming: Available with 0-10V inputs dimming down to 10%
- Operating temperature: -40°C to +55°C (-40°F to +149°F)
- L70 Rating: 100,000+ Hours
- IP Rating: IP65 for spray down/ IP66 when surface mount, U-bracket, and center pole
- Driver current: 700mA
- BUG rating: 120W - B4 U0 G1; 240W - B4 U3 G5

Regulatory qualifications:

- UL8750 & UL1598/1598B suitable for wet locations
- DLC listed
- Buy American Act compliant

PARTICIPANTS

End User:

STAPLES Center
Microsoft Theater
AEG Worldwide

Distributor:

Regency Supply

Manufacturer:

Deco Lighting



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