



Business Partner Whitepaper Series

LED Upgrade with a Quad Access Whammy

By Philip Koch





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Published by APPA
1643 Prince Street
Alexandria, Virginia 22314-2818
www.appa.org

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LED Upgrade with a Quad Access Whammy

APPA and MAPPa member, Iowa State University (ISU) needed to change out 23 mercury vapor lights for high-bay LED lights. The challenge was that 21 of the lights were 68' from the floor, which was 15" below ground in an atrium. Access to the atrium floor was available via an indoor bridge crane with 10-ton capacity. Four of the lights in the atrium were more difficult to access because they were above a 40' 3D simulator. Two additional lights were 50' high and accessible only through a single 34.5" door on the ground level.

Possible solutions:

- Scaffolding, but the cost and disruption to the use of the building were not acceptable.
- Rent a lift that weighed less than 10-ton, could reach the lights in the atrium, be used indoors and fit through a single door 34.5" wide.

The only lifts that fit these criteria would be an Atrium Lift. However, the lights over the 3D simulator required a lift with long jibs. After research was done, only one lift seemed to meet the need. A ReachMaster Falcon 95' has a max reach of 95' straight up with two 10' jibs and 45' horizontal reach with a weight of 4.5 ton.

ISU had worked with Innovative Reach on past projects with our Falcon 95' lift. They requested a site visit to discuss the feasibility of using our lift for the project and found that the lift could meet their needs.

ISU wanted to use their current list of approved electrical contractors and liked the idea that Innovative Reach provided a ground operator with the Atrium Lift. Doing so minimized the lack of experience with Atrium Lifts by the electrical contractor. The complete job took eight days to replace 23 mercury vapor lights with 23 high bay LEDs, which included dimmable lights with light harvesting features.

Innovative Reach rents Atrium Lifts (Boom Lift, Manlift) which have unique technologies that fit through a standard 34" door, can be used on commercial floor systems (100 lb/sqft) and reach heights up to 66' or 95' with a horizontal reach up to 30' or 45' respectively. This rental service includes commercial applications, provides an OSHA trained ground operator and serves the entire continental United States. Ask about our Extended Reach Program to find out how you can save up to two-thirds on transportation costs.

Author:

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