



## Project Summary

Revolution Lighting Technologies was approached to provide a solution for a parking garage facility in an upscale shopping destination at Easton Town Center in Columbus, Ohio. Having previously completed a 1,200-fixture retrofit in the summer of 2011 of four existing Easton parking structures, RVLT products were chosen due to their value and superior product performance and quality. The project was awarded on the overall value of the fixtures and performance based on uniformity, low glare, ease of installation and energy consumption. RVLT was also able to provide a 10-year warranty to help reduce life cycle cost for Easton.

**End User:** Fenlon Square Parking Facility at the Easton Town Center

**Application:** Parking Garage Lighting

**Products:** ■ RVLT parkVUE 50HB – 540 fixtures

- Benefits:**
- 60% reduction in energy use over MH lighting
  - Over 100,000 hour lifespan of new LED light engines vs. 20,000-30,000 hour lifespan of traditional lamps
  - Superior glare reduction with Prismatic Lens
  - Increased visibility
  - Maximized long term energy and maintenance savings

## Project Overview



One of the biggest problems with a parking garage lighting installation is the glare that comes with LED fixtures. The parkVUE 50HB was tested alongside other fixtures and was chosen for its superior glare reduction, uniformity of light with contribution to the floor and ceiling eliminating the cave effect, and its ease of installation, making it the clear choice for this project. The fixtures exceeded all expectations, and the owner's team was very excited.

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Pounds of <b>Coal</b> Saved @ 0.08 lbs/per kWh	44,277 lbs.
Gallons of <b>Oil</b> Saved @ 0.07 gals/kWh	38,742 gals
Pounds of <b>Carbon Dioxides</b> Saved @ 1.95 lbs/kWh	1,079,241 lbs.
Pounds of <b>Sulfur Dioxides</b> Saved @ 0.008477 lbs/kWh	4,692 lbs.
Pounds of <b>Nitrogen Oxides</b> Saved @ 0.004092 lbs/kWh	2,265 lbs.

## Project Overview (cont')

Because Easton had already purchased RVLT products for their previous relight project, they believed that the parkVUE fixtures were superior to the original spec for the new garage. The local architect was familiar with RVLT, and the town center's operations team wanted to design using the parkVUE fixture. The Parking Garage Consultant desired a competing product instead. Using Easton's existing garages as a sample platform, as well as lighting calculations and energy analysis, the 50HB was selected for the new installation.

*"The fixtures have done an amazing job. The 50HB fixtures were so easy to install and bright, the contractor used them as their construction lighting throughout the entire project. What is wrong with a parking garage going from a dimly lit space to a brightly lit, safe place? The parkVUE 50HB does just that," said Kurt Beres of M+A Architects.*



## Cost Analysis

### Annual LED Life-Cycle Cost Analysis

Existing Fixture	Number	Energy Use (kWh)	Cost/Unit	Total Cost
MH (150W)	540	870,394	\$ 0.09	\$ 78,335
Maintenance (est.)	-	-	-	7,834
<b>Total Costs for Period</b>				<b>\$ 86,169</b>

Replacement Fixture	Number	Energy Use (kWh)	Cost/Unit	Total Cost
parkVUE 50HB	540	316,937	\$ 0.09	\$ 28,524
Maintenance (est.)	-	-	-	2,852
<b>Total Costs for Period</b>				<b>\$ 31,376</b>

Savings	Savings
Energy Savings	\$ 49,811
Maintenance Savings (est.)	4,982
<b>Total Savings LED Fixtures</b>	<b>\$ 54,793</b>

Using RVLT LED fixtures results in an overall savings of 60% annually, estimated at more than \$50,000. Utilizing the savings in energy costs and additional estimated maintenance savings the project will have a projected simple payback of 3 years.

Visit [www.rvlti.com](http://www.rvlti.com) for more information.