

## parking lot case study Sundance Plaza



### 1000W SmartHID™ Retrofit Rebate Program

- Reduced energy costs
- Received utility rebate from Avista
- Financed project with no upfront costs to owner
- Reduced lamp power from 1000W to 400W without compromising light levels

### Background

Sundance Plaza is a retail shopping center that began development in 2000. It consists of nearly 130,000 square feet of retail space including Albertsons & Starbucks. The site is owned by Sundance Plaza, LLC, a group of private investors and operated by Vandervert Developments.

The owners of Sundance Plaza had previously been approached with an LED solution but the cost was prohibitive. When Firefly Lighting & Design presented the Metrolight solution to their contractor, OK Electric, Inc, they were excited to share the opportunity for savings with Vandervert Developments. The opportunity to reduce energy costs, along with the utility rebate from Avista and great financing offered by OK Electric made this project a win for everyone involved.

### Original Situation

The parking lot at Sundance Plaza consisted of 153 1000W Metal Halide shoebox fixtures on 40' poles.

#### Snapshot

Energy Savings  
**64%**

#### Lamp Power

Reduced from 1000W to 400W  
Reduced from 1000W to 250W

#### Annual kWh Saved

508,212 kWh

#### Annual CO<sup>2</sup> Saved

365 metric tons

#### Simple Payback Period

2.7 (Before Rebate)

#### Total Annual Saving

\$35,574

## The Result

Metrolight's solution was chosen once the developers realized the potential to substantially reduce energy costs. In addition the utility rebate and the financing offered by the contractor, made the offer even more attractive.

With Metrolight's solution, Sundance Plaza was able to reduce lamp power from 1000W to 400W while maintaining 4 Foot Candle lighting levels. In addition Sundance Plaza realized the following:

64% Energy Savings

- Maintained high lumen levels
- Greatly reduced maintenance costs due to increased lamp life
- Reduced carbon footprint - reduced annual CO2 by 365 metric tons

**"I think this is a great program with no downside! I save more every month more than my cost, there is additional savings with less maintenance and bulb replacement and the light quality for every project is greatly improved!"**

Dick Vandervert



*Before Dimming* 1000W MH shoebox fixtures on 40' poles



*After Dimming* 400W SmartHID™ Retrofit solution. Maintained lumen levels while reducing lamp power

Features	Before Installation	After Installation	Savings
Fixture Power Consumption W	1176	426/266	749/910
Operating Hours/Days	12/365	12/365	-
Annual lighting-related energy cost*	\$55,165	\$19,590	\$35,575
Total annual savings*		<b>\$35,575</b>	
Simple Payback	<b>2.7 (Before Rebate)</b>		

### Integration Partner

#### FIREFLY LIGHTING AND DESIGN

Firefly Lighting & Design is a locally owned lighting showroom and design center located in Spokane, Washington. This family-owned business began as MTJ Distributors in August 2001. In April 2010 we became Firefly Lighting & Design. We continue to provide lighting products and design solutions for a broad spectrum of residential and commercial projects.

For more information, contact us on (509) 482.6292 or visit our website: [www.firefly-ltg.com](http://www.firefly-ltg.com)



### Project Contractor:

OK Electric, Inc



Tel: (509) 489.5800  
[www.okelectricinc.com](http://www.okelectricinc.com)

### Program Partner

#### CONNECTIONS FOR CONSERVATION

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Connections for Conservation is a certified lighting management consultant and specializes in energy conservation. We work with Utility Companies, Manufacturers and Contractors in the designing, distribution and promotion of energy efficient technology. We are a member of the Northwest Trade Ally Network and serve over 325 counties in WA, OR, ID, MT and CA.

For more information visit [www.connectionsforconservation.net](http://www.connectionsforconservation.net)

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