



Cost Analysis Study - Columns of Cortez

March 2003

Plan Type:	<u>MAGNARAY® (40 watt^)</u>	<u>Metal Halide (150 watt)</u>	<u>Utility Rental (150 watt)</u>
<u>Fixture Quantity</u>	135	135	96
<u>Elect/month</u>	\$155.52	\$676.51	0*
<u>Replace Labor/month</u>	42.18	75.93	0*
<u>Replace Lamp/month</u>	24.30	236.25	0*
<u>Total Monthly Cost</u>	\$222.00	\$988.70	\$1,800
<u>Total Annual Cost</u>	<u>\$2,664.09</u>	<u>\$11,864.39</u>	<u>21,600.00</u>
<u>Total Annual Savings Compared to Utility Rental</u>	\$18,935.91	\$9,735.61	0
<u>Total Annual Savings Compared to Metal Halide</u>	<u>\$9,200.30</u>	0	N/A

Pollution Savings: Annual (135 - MH units)	Carbon Dioxide 10,637 Grams	Nitric Oxide 29,360 Mg	Sulfur Dioxide 34,787 Mg
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With utility program, cost of electricity, lamp replacement, and labor are included in the monthly rental rate. Monthly rate of \$18.75/post light used, and is typical, but varies from utility to utility. Some utility companies will not install units unless within 6'-10' of pad transformer, which limits quantity of units available. Some utility companies charge deposits for each unit. A minimum of four units per building will be required.

^ **Magnaray® model used is WIPL36.**

- **Site Data: 450 units on 35.5 acres: Watts/unit = 12; Watts/acre = 152; watts/square foot = (.003); lumens/acre = 11,028; lumens/square foot = (.253) These numbers can used for general design purposes. A variety of factors determine final design for any other project.**

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