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ELECTRICAL PROPOSAL

Feasibility of Changing Existing 250 Watt Metal Halide Parking Lot Lighting to LED Type Fixtures:

Single Head Fixture on 25' Pole
Existing 250 Watt MH Fixture Consumes 295 Watts of Power
Total Amount of Dusk Time Operating Hours Per Year are 4100 Hours
Assuming your Xcel Rate at $.07/KWH
Existing Single Fixture on Pole Operating Cost is $84.70/Year
This Lamp has a Life of 7500 Hours or 1.8 Years
The Cost to Change out the Lamp is $175/Fixture (Based Upon One Change/Time)

New LED Fixture Head Installed on Existing Pole
Total Power Consumed is 139 Watts
Total Operating Costs Per Year are $39.90/Year
This Fixture has a Life Expectancy of 114,000 Hours or 27.8 Years
The Cost for Installing this Fixture to Existing Poles is $2,100.00

Summary
LED:
Operating Costs = $39.90 x 27.8 Years = $1,109.22
Installation Costs = $2,100.00
Total Cost = $2,209.22

250 Watt Metal Halide:
Operating Costs = $84.70 x 27.8 Years = $2,354.66
Lamp Change Outs, 15 Times in 27.8 Years @ $175/Time = $2,625.00
Total Cost = $4,979.66

Payback
LED Energy Costs Per Year = $39.90

Metal Halide Energy Costs Per Year = $84.70
Maintenance Costs Per Year = $97.22
($175 Divided by 1.8 Years)
Total Costs Per Year = $181.92

Total Savings Per Year = $142.02
Total Install Costs = $2,100.0

Total Payback = 14.8 Years