

# RISING TIDE SYSTEMS LIGHTING COST COMPARISON AND ROI

## Initial Year Electrical/Equipment Costs:

| Expenses     | 1000W HPS        | RT-IV6DT         |
|--------------|------------------|------------------|
| Fixture      | \$450.00         | \$1500.00        |
| Electricity  | \$597.87         | \$347.33         |
| HVAC         | \$272.53         | \$136.26         |
| Bulb         | \$100.00         | \$0.00           |
| <b>Total</b> | <b>\$1420.40</b> | <b>\$1983.59</b> |

\*Electricity costs based on national average of \$0.13/KWH.

\*Bulb replacement for recommended 12-month life cycle.

\*Cooling costs based on one 3-ton AC unit cooling 9 HPS and 18 LED for 12hrs/day to maintain ambient temperatures.

\*Electricity usage of HPS does not include duct fans providing air cooling

## Yield Increase per fixture:

|          | HPS Yield (lb.) | RT-IV6DT Yield (lb.) | Additional Profit |
|----------|-----------------|----------------------|-------------------|
| 12-month | 3.06            | 3.51                 | \$810.00          |
| 24-month | 6.12            | 7.02                 | \$1620.00         |
| 36-month | 9.18            | 10.53                | \$2430.00         |

\*15% average increase in yield

\*Estimated avg. 3 crop cycles per year

\*\$1800.00 wholesale cost per pound

## Monthly Operating Expenses/Wholesale Profits (Per Fixture):

|           | 1000W HPS | RT-IV6DT  | RT-IV6DT<br>Electric/Equipment<br>savings | RT-IV6DT<br>Crop Profit<br>(vs. HPS) | RT-IV6DT<br>Total Profit<br>(vs. HPS) |
|-----------|-----------|-----------|---|--------------------------------------|---------------------------------------|
| 12-month  | \$970.40  | \$483.59  | \$486.81                                  | \$810.00                             | \$1296.81                             |
| 24-month  | \$1940.80 | \$967.18  | \$973.62                                  | \$1215.00                            | \$2188.62                             |
| 36-month  | \$2911.20 | \$1450.77 | \$1460.43                                 | \$1620.00                            | \$3080.43                             |
| 64-month  | \$4852.00 | \$2417.95 | \$2434.05                                 | \$4050.00                            | \$6484.05                             |
| 120-month | \$9704.00 | \$4835.90 | \$4868.10                                 | \$8100.00                            | \$12968.10                            |

Rated lifespan of RT-IV6DT fixture is 120 months >90% output

ROI = 1 Crop Cycle Per Fixture

A 10,000sf total canopy facility with an average coverage area of 16sf/fixture would yield an additional \$506,000 of wholesale sales per year.