**ENERGY & MAINTENANCE**

**Saving Analysis / Payback**

**Conventional HID vs DLK**

**SCENARIO:** Industrial material handling conveyor • 600m long illuminated section • Standard luminaire spacings: 6m • Power is on 24/7 • Cost of electricity: $0.20/kWhr

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**Comparison 1**

- **COMPETITOR:** 80W HP Sodium
- **Total Initial Fixture & Installation Cost:** $0.00
- **Total Energy & Maintenance Cost Per Year:** $117,062.80
- **Annual Energy & Maintenance Savings:** $98,141.20

**Comparison 2**

- **COMPETITOR:** DLK LED
  - **Day Mode:** 6M
  - **Night Mode:** 6M
  - **40 AVG. LUX
  - **Total Initial Fixture & Installation Cost:** $84,000.00
  - **Total Energy & Maintenance Cost Per Year:** $18,921.60
  - **Annual Energy & Maintenance Savings:** $98,141.20

**Comparison 3**

- **COMPETITOR:** DLK LED w/sensor
  - **Day Mode:** 6M
  - **Night Mode:** 6M
  - **120 AVG. LUX
  - **Total Initial Fixture & Installation Cost:** $84,000.00
  - **Total Energy & Maintenance Cost Per Year:** $9,460.80
  - **Annual Energy & Maintenance Savings:** $107,602.00

**Comparison 4**

- **COMPETITOR:** DLK LED w/sensor
  - **Day Mode:** 12M
  - **Night Mode:** 12M
  - **40 AVG. LUX
  - **Total Initial Fixture & Installation Cost:** $42,000.00
  - **Total Energy & Maintenance Cost Per Year:** $4,730.40
  - **Annual Energy & Maintenance Savings:** $112,332.40

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**80W HP Sodium**

- **Re-lamping Maintenance Cost (per lamp):** $195.00 ($35.00 + $160.00)
- **Re-lamping Maintenance Schedule (hours):** 2,000

**DLK LED**

- **Re-lamping Maintenance Cost (per lamp):** $840.00 ($600.00 + $240.00)
- **Re-lamping Maintenance Schedule (hours):** 100,000

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**Key**

- Current Scenario
- Comparison 1
- Comparison 2
- Comparison 3
- Comparison 4

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**1st Year Cost Analysis**

<table>
<thead>
<tr>
<th>Month</th>
<th>Comparison 1</th>
<th>Comparison 2</th>
<th>Comparison 3</th>
<th>Comparison 4</th>
</tr>
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**5 Year Cost Analysis**

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<th>Comparison 3</th>
<th>Comparison 4</th>
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