



# LUNERA LED VS. 2 LAMP T8

## OFFICE ENVIRONMENT



**LIGHTING SCENARIO**  
**Project Type:** Retrofit  
**Facility Type:** Standard Open Office  
**Building Size:** 100,000 sq/ft office  
**Electricity Cost:** \$0.13/kWhr (5% appreciation for inflation)  
**Duty Cycle:** 12/5 = 3,120 hours/yr  
**Ceiling Height:** 12 ft

**LUNERA**  
 Lunera LED 2200 (62W)  
 10' x 10' spacing

**FLUORESCENT**  
 2 Lamp T8 (57W)  
 8' x 8' spacing

## COMPARATIVE ANALYSIS

**LUNERA**  
 ANNUAL KWH\* CONSUMED/YR  
 149,916  
 FIXTURES REQUIRED  
 1,000  
 LIGHTING POWER DENSITY (LPD)  
 0.62 W / SQ FT  
 GREEN HOUSE GAS (5 YEARS)  
 645 TONS

**FLUORESCENT**  
 ANNUAL KWH CONSUMED/YR  
 281,190  
 FIXTURES REQUIRED  
 1,563  
 LIGHTING POWER DENSITY (LPD)  
 0.90 W / SQ FT  
 GREEN HOUSE GAS (5 YEARS)  
 1,209 TONS

\*Lunera solution includes dimming controls estimated to be used 75% of duty cycle at 70% of maximum output.

**Payback**  
 ↓ 2.7 YEARS

**Lifecycle Savings**  
 ↓ \$993,246

**kWhr Saved Annually**  
 ↑ 131,274

**Lamp Life Improvement\***  
 ↑ 3X

**Electricity & Maintenance Cost Reduction**  
 ↓ 69%

**Uniformity Improvement**  
 ↑ 2x

**Tons of CO2 (over 5 years)**  
 ↓ 564

\*@50,000 hours lumen output is 70% of initial lumens.