



# LUNERA LED VS. METAL HALIDE

## PARKING GARAGE



**LIGHTING SCENARIO**  
**Project Type:** Retrofit  
**Facility Type:** Parking Garage  
**Building Size:** 100,000 sq/ft office  
**Electricity Cost:** \$0.13/kWhr (5% appreciation for inflation)  
**Duty Cycle:** 24/7 = 8,760 hours/yr  
**Ceiling Height:** 10 ft

### LUNERA

Lunera LED 2200 (62W)  
 25' x 25' spacing

### METAL HALIDE

Metal Halide (210W)  
 25' x 25' spacing

## COMPARATIVE ANALYSIS

### LUNERA

AVERAGE KWH\* CONSUMED/ YR  
 45,188

FIXTURES REQUIRED  
 160

LIGHTING POWER DENSITY (LPD)  
 0.1 W / SQ FT

GREEN HOUSE GAS (5 YEARS)  
 174 TONS

### METAL HALIDE

AVERAGE KWH CONSUMED/YR  
 294,336

FIXTURES REQUIRED  
 160

LIGHTING POWER DENSITY (LPD)  
 0.34 W / SQ FT

GREEN HOUSE GAS (5 YEARS)  
 1,133 TONS

\*Lunera solution includes dimming controls.

**Payback**  
 ↓ 0.84 YEARS

**Lifecycle Savings**  
 ↓ \$293,195

**kWhr Saved Annually**  
 ↑ 249,148

**Lamp Life Improvement\***  
 ↑ 2X

**Electricity & Maintenance Cost Reduction**  
 ↓ 89%

**Uniformity Improvement**  
 ↑ 2x

**Tons of CO2 (over 5 years)**  
 ↓ 959

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