



LUNERA LED VS. 3 LAMP T8

OFFICE ENVIRONMENT



LIGHTING SCENARIO
Project Type: Retrofit
Facility Type: Standard Open Office
Building Size: 100,000 sq/ft office
Electricity Cost: \$0.135/kWhr (5% appreciation for inflation)
Duty Cycle: 12/5 = 3,120 hours/yr
Ceiling Height: 12 ft

LUNERA
 Lunera LED 2200 (55W)
 10' x 10' spacing

FLUORESCENT
 3 Lamp T8 (89W)
 10' x 10' spacing

COMPARATIVE ANALYSIS

LUNERA
 AVERAGE KWH* CONSUMED/YR
 135,408
 FIXTURES REQUIRED
 1,000
 LIGHTING POWER DENSITY (LPD)
 0.62 W / SQ FT
 GREEN HOUSE GAS (5 YEARS)
 582 TONS

FLUORESCENT
 AVERAGE KWH CONSUMED/YR
 266,822
 FIXTURES REQUIRED
 1,000
 LIGHTING POWER DENSITY (LPD)
 0.86 W / SQ FT
 GREEN HOUSE GAS (5 YEARS)
 1,147 TONS

*Lunera solution includes dimming controls.

Payback
 ↓ 3.7 YEARS

Lifecycle Savings
 ↓ \$902,609

kWhr Saved Annually
 ↑ 131,414

Lamp Life Improvement*
 ↑ 2X

Electricity & Maintenance Cost Reduction
 ↓ 70%

Uniformity Improvement
 ↑ 2x

Tons of CO2 (over 5 years)
 ↓ 565

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