LUNERA™

COMPARATIVE ANALYSIS

LUNERA VS. METAL HALIDE

LIGHTING SCENARIO

Lighting Goal: 15 foot candles
Work Plane: 2.5 FT
Building Size: 640,000 sq. ft. office
Facility Type: Parking Garage

Ceiling Height: 12 ft
Electricity Cost: $0.13/kWhr
Duty Cycle: 24/7= 8,760 hours/yr
RCR: 80 / 50 / 20

SCENARIO A

150W Metal Halide

40' x 40' spacing (10fc @ 0.38W per sq. ft.)
4,000 Lumens - maintained

SCENARIO B

Lunera 2200 100W

40' x 40' spacing (15fc @ 0.06W per sq. ft.)
4,000 Lumens - maintained

RESULTS

SCENARIO A

FIXTURES REQUIRED
400

TOTAL WATTS TO LIGHT SPACE
60,000 W

LIGHTING POWER DENSITY (LPD)
0.09 W / SQ FT

GREEN HOUSE GAS (5 YEARS)
4,074,101 LBS

SCENARIO B

FIXTURES REQUIRED
400

TOTAL WATTS TO LIGHT SPACE
40,000 W

LIGHTING POWER DENSITY (LPD)
0.06 W / SQ FT

GREEN HOUSE GAS (5 YEARS)
2,698,080 LBS

Overall wattage reduction
⬇20,000

kWhr saved per year
⬇178,704

Reduced wattage per sq. ft.
⬇0.03

Reduced GHG emissions (LBS)
⬇1,376,021

Lighting energy cost savings
⬇34%

Total operating cost savings
⬇36%

Payback:
0.26 YEARS

Lunera Lighting, Inc. | For more info, contact us at info@lunera.com | www.lunera.com |
T 650-241-3875 | F 1-650-362-1987 | 3696 Haven Avenue, Suite A, Redwood City, CA 94063

PIDLLI2200-3T8 01/05/10