

Lighting Controls

Presented by:

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LED Lighting Upgrades

Before



(3) 32W T8 Lamps
88 Watts Total

After



(1) 34W Flat Panel LED
34 Watts Total

62% Energy Savings

Lighting Controls

Stand Alone

- Occupancy Sensors
- Vacancy Sensors
- Daylight Harvesting
- Personal Control
- High End Trimming

Integrated

- Fixture Mounted
- Combined Technologies
- Remote Control Access
- Networked

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Occupancy Sensors

- Gradually dim lights to a low level or turn lights off when space is unoccupied.
- Turn lights on automatically when someone enters.
- Up to 30% savings.



Vacancy Sensors

- Gradually dim lights to a low level or turn lights off when space is unoccupied.
- Turn lights on manually when someone enters.
- Up to 30% savings.



Daylight Sensors

- Dim light or switch it off during the day to take advantage of available daylight.
- Up to 15% savings.



Personal Control

- Provide personal choice and control of light levels to accommodate different tasks and activities. Permit control from multiple locations
- Up to 10% savings.



High End Trimming

- Set the maximum light level in space based on customer preference or design requirements.
- Up to 20% savings.

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Integrated Lighting Controls

- Combines all the previous technologies.
- Factory installed in the fixtures.
- Field programmable.
- Up to 60% savings.



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62% Energy Savings + Controls = 85% Energy Savings

Hotel Projects

- Boston Sheraton 2012 Project
 - Interior lighting and occupancy controls
 - Lighting Savings: 780,493 kWh
 - Controls Savings: 71,326 kWh
 - 9% Increase

Hotel Projects

- Boston W Hotel
 - Garage lighting and occupancy controls
 - Lighting Savings: 61,552 kWh
 - Controls Savings: 15,221 kWh
 - 24% more savings

Hotel Projects

- Boston Sheraton Commander
 - Interior lighting and occupancy controls
 - Lighting Savings: 54,499 kWh
 - Controls Savings: 17,966 kWh
 - 33% Increase

Hotel Projects

- Boston Liberty Hotel
 - Interior stairwell lighting and occupancy controls
 - Lighting Savings: 18,921 kWh
 - Controls Savings: 20,604 kWh
 - 110% Increase

Hotel Projects

- Boston Colonnade Residences
 - Interior lighting and occupancy controls
 - Lighting Savings: 90,250 kWh
 - Controls Savings: 53,701 kWh
 - 60% Increase

How to use controls in Hotels

High Savings

- Stairwells
- Parking Garages
- Storage Rooms
- Locker Rooms
- Back of House
- Exterior Lighting

Normal Savings

- Guest room bathrooms
- Storage closets
- Mechanical rooms
- Offices
- Sun-lit Corridors
- Vestibules

Lighting Controls

- Maximize energy savings
- Increase user comfort
- Remote access and control
- Take your lighting upgrades to the next level

Thank You!

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