

High Bay Fluorescent Lighting

Lighting upgrades can mean valuable incentives and savings

High bay occupancy sensors

The greatest impact of lighting controls on energy usage occurs in areas that are occupied sporadically, where lights can be shut off or dimmed without creating a problem for occupants. Occupancy sensors are an effective way to control high bay fluorescent lighting in seldom occupied spaces such as:

- **Schools**—Gymnasiums, auditoriums and lecture halls
- **Commercial Industry**—Warehouses, storerooms and loading docks

Want more lighting control?

Lighting controls monitor the movement of people within a space. When movement is detected, the lights turn on automatically. The lights then shut off when the control no longer senses movement.

Multi-lamp lighting fixtures can be wired such that the occupancy sensor turns off only a portion of the lamps so that the area is never completely without light. In addition, each occupancy sensor's shut-off time can be preset, given the needs of the space being controlled.

The use of lighting controls is growing as energy costs increase and national and local codes demand more capabilities in new facilities.



Energy savings

	Average Annual Savings/Fixture*	Xcel Energy Rebate per Unit
Six-Lamp T8 High Bay Replacing 400W HID	\$80	\$125
Installing Ceiling or Fixture-Mounted Occupancy Sensor	\$25	\$30

*Energy savings figures are based on Xcel Energy rates and technical assumptions for Small Business Lighting program high bay fluorescent lighting measures. Note: Rebates are subject to full program eligibility and participation requirements available at xcelenergy.com/Rebates

More information

Call **877.287.2250** or email **XcelSBL@clearesult.com**. Learn more about the available rebates at **xcelenergy.com/LightingEfficiency**.

High bay lighting is typically used in spaces where ceiling height exceeds 15 feet. In high bay lighting applications, replacing standard 400 watt high intensity discharge (HID) style fixtures with multi-lamp fluorescent fixtures containing electronic ballasts (e.g. 6 Lamp F32 T8) can save a significant amount of energy, in excess of 50% in some cases.

High Bay Benefits

In addition to significant energy cost savings, high performance fluorescent fixtures have the following advantages over HID fixtures, such as metal halide and high pressure sodium:

- More light output per watt
- Consistent light output over life of the lamps
- Better color rendering and visual acuity
- Instant on/off and multi-level dimming capability
- Lower maintenance costs due to less frequent lamp changes
- Better lighting control options