

Xeleum



DayOne
LIGHTING

XCO SMART-LIGHT™ CONTROL SYSTEM
Model XCO-100



The **Xeleum XCO-100 Smart-Light™ Control System** can reduce electric lighting cost by 80% or more over conventional lighting systems that do not utilize LEDs, daylight harvesting and occupancy detection.

The LED based lighting system takes full advantage of the abundantly available natural daylight by harvesting it to supplement the electric energy used to supply the desired illumination level. When the occupancy sensors detects that the space is unoccupied, the lights fade to full "OFF".

FEATURES

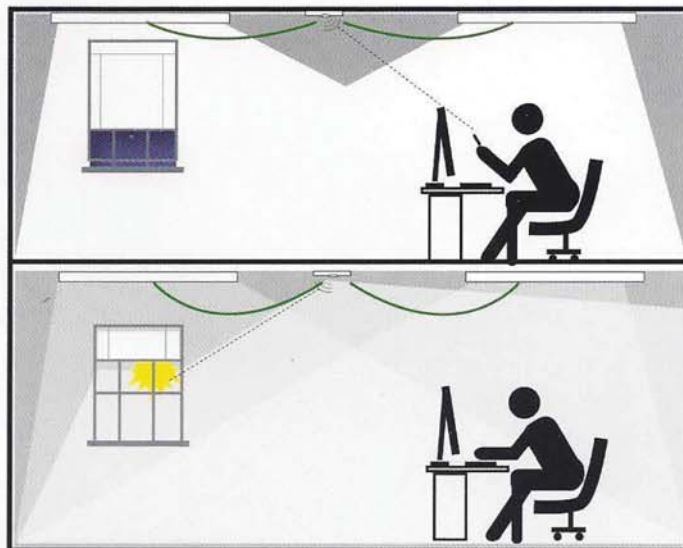
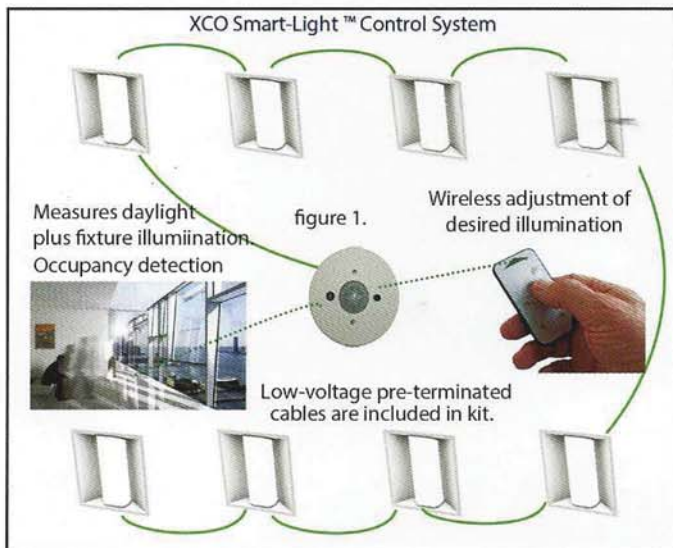
- Minimize energy usage by combining natural daylight and occupancy sensing with Xeleum high efficiency LED troffers
- Can be controlled by occupants or designated sustainability managers
- Inexpensive
- Simple to operate
- Easy to install - system is entirely low voltage
- Controls up to eight Xeleum troffers
- Daylight harvesting enhances workspace experience by minimizing over-lighting



APPLICATIONS

- Offices
- Educational facilities
- Retail locations
- Hospitals





HOW IT WORKS

Each Smart Sensor controls the lighting in a zone of up to eight Xeleum LED troffers. It continuously monitors the light level within its zone and adjusts the power supplied to the LED light fixtures to the value necessary to bring the overall illumination to that of a preset level.

During typical working hours when there is ample sunlight, the microprocessor based system detects the high level of natural illumination within the zone, compares it to the desired amount, then sends instructions to adjust the power input to the LED light fixtures so that the combined natural and LED lighting is never less than the level that is preset through use of the wirelessly connected Control Module.

In addition to sensors for illumination, the Smart Sensor also contains built-in occupancy detectors that instantly recognize

when people enter or leave the zone. Using the hand-held control, the system can be set to turn the lights "OFF" when the zone is unoccupied, and to return to full illumination when the zone is again occupied.

The system is entirely low voltage, installs easily in acoustic tile type suspension ceilings and is designed to operate seamlessly with all Xeleum LED troffers. Included are pre-terminated low voltage cable for connecting troffers and sensors.

The hand held Controller allows occupants or designated sustainability managers to turn the lights ON and OFF, adjust the desired light level and to enable and disable the occupancy sensors and daylight harvesting features. The time that the lights stay ON after the last detected motion can be adjusted at the controller.

HAND HELD CONTROLLER



- Manual ON/OFF light control, all lights in zone
- Automatic ON/OFF light control when occupancy/no occupancy is sensed
- Activate/De-activate daylight harvesting
- Allows users or only sustainability managers to adjust ambient light level

SMART SENSOR



- Monitors ambient light level within zone
- Detects when zone is occupied or unoccupied
- Combines daylight and LED lighting to desired ambient level





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