



K-12 | Balance LC™ light control solution





Create a better classroom

Introducing the Lutron K-12 Balance LC series light control solution for classrooms. For the first time, improving student performance and saving electricity go hand in hand.

**It's more than electricity management—
it's classroom management.**

A classroom in balance

Balance LC light control lowers your electricity costs and creates a better learning environment—at the same time. It reduces electricity usage by taking advantage of natural light, and it turns off the lights in unoccupied rooms for even greater savings. Balance LC also gives teachers the control they need to manage the classroom, and it provides the right light for any task.

**Bring together a better learning
environment and lower electricity
costs to create a classroom in balance.**

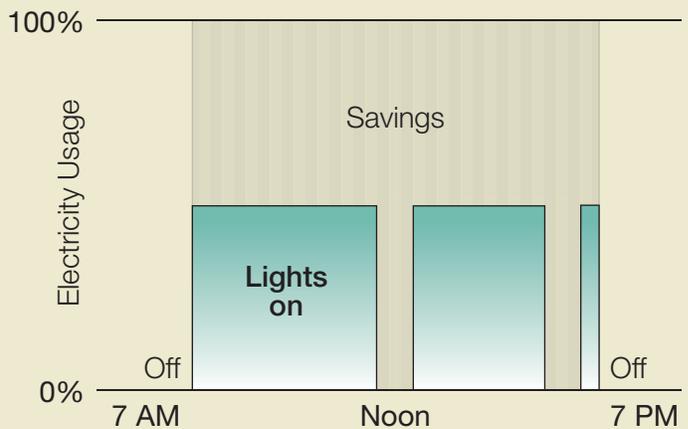
Three energy-saving strategies

Balance LC™ employs three light control strategies: automated occupancy control, automated daylight harvesting, and manual dimming.

Here's how they work:

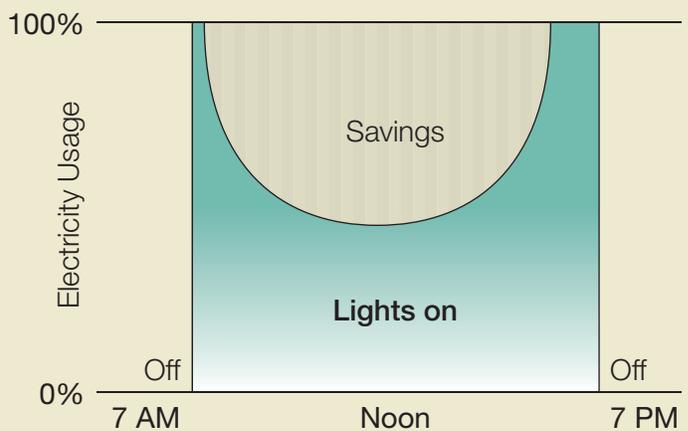
Automated occupancy control

Every time classrooms are vacant, the lights should be off. Balance LC uses occupancy sensors to automatically turn lights on when people enter, and off when people leave, ensuring maximum savings when the space is unoccupied.



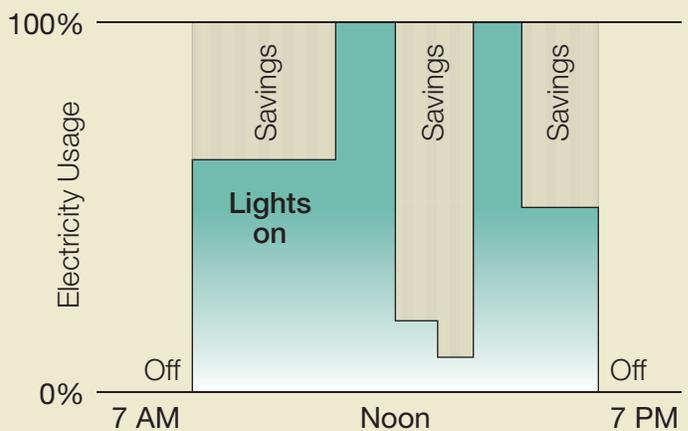
Automated daylight harvesting

Daylighting is an effective strategy to reduce dollars spent on electricity. Balance LC takes advantage of available daylight by smoothly dimming the electric lights. The result is even illumination throughout the classroom.

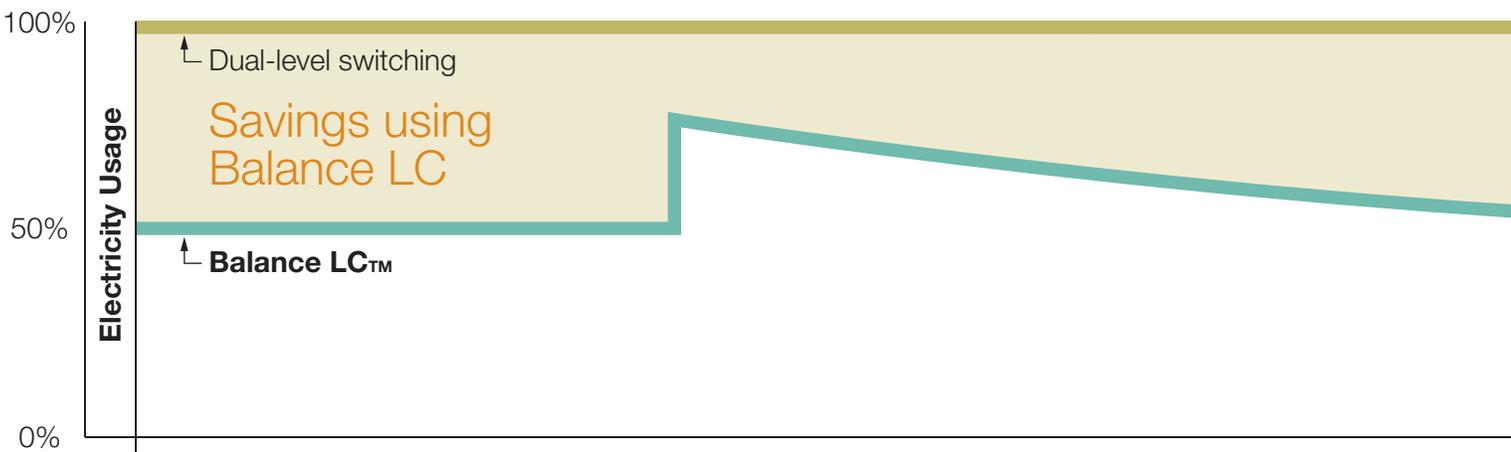


Manual dimming

Every time a teacher dims the lights, he or she is saving electricity. Balance LC gives teachers full control of the lights, so when they select the right light for a task, the school saves money.



- Electricity savings using Balance LC versus dual-level switching**
- Electricity usage in a classroom with dual-level switching
- Electricity usage in a classroom with Balance LC



Classroom with Balance LC

Teacher enters the classroom:

When the teacher enters the classroom in the morning the occupancy sensor turns on the lights to 50% output to save energy. If more light is needed, the lighting can be adjusted at the Teacher Control Station.

Teacher prepares for the day



Lutron occupancy sensor

Students arrive:

The teacher raises the lights to energize the students and prepare them for the day. The daylight sensor reduces the electric lighting to compensate for available daylight.

Individual instruction:

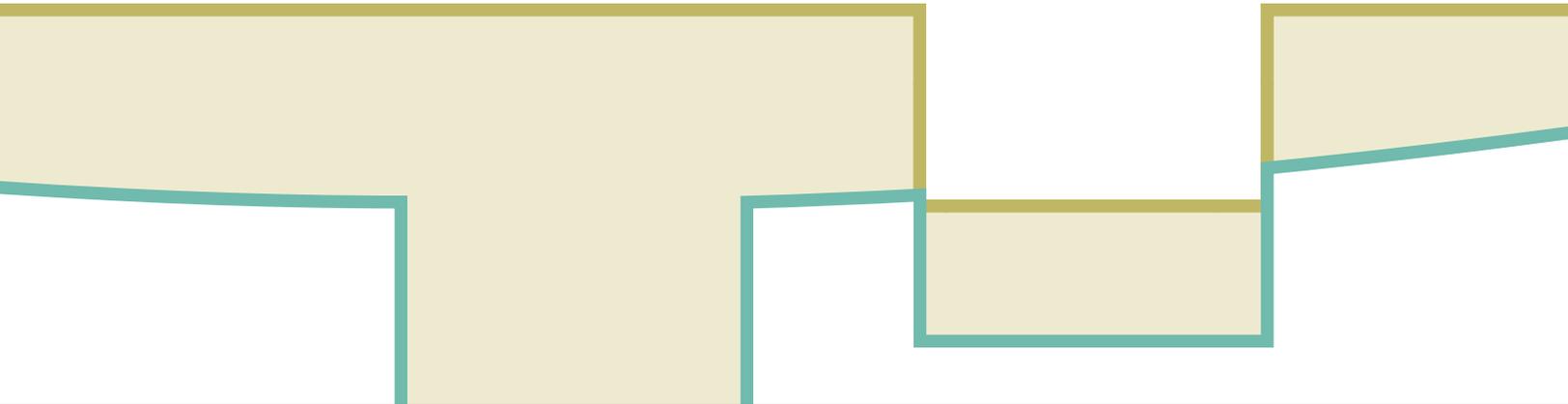
Students are able to focus closely on the teacher's instruction, unaware that the system is balancing the available daylight with electric lights, providing a comfortably illuminated environment.

Students receive help from



Lutron daylight sensor

to dual-level switching and see how Balance LC improves student and classroom



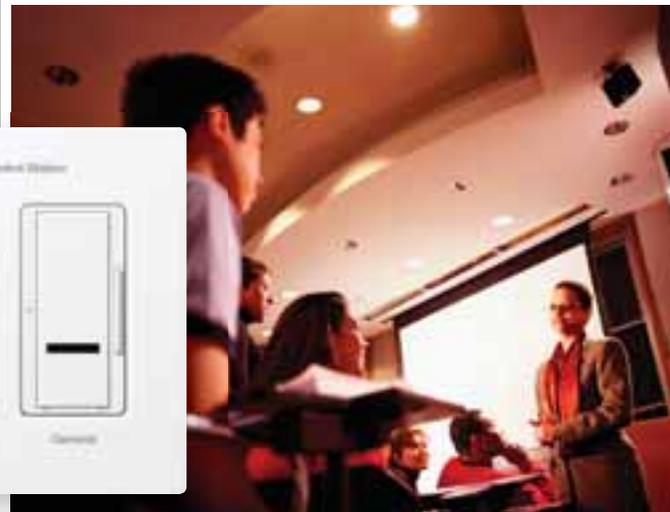
11:00AM	11:30AM	12:00PM	12:30PM	1:00PM	1:30PM	2:00PM	2:30PM	3:00PM
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Lunch:
Students depart for lunch. The lights automatically turn off while the space is unoccupied.

Video presentation:
Darkened lights above the presentation area reduce glare and allow students to see the screen during the one-hour period. General lights are dimmed to provide enough light so students can clearly see their desktops and take notes.

their teacher

Students learn from a media presentation



Teacher Control Station



3:30PM	4:00PM	4:30PM	5:00PM	5:30PM	6:00PM	6:30PM	7:00PM
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After school:

When the last student has left for the day, the teacher can continue to work with only the lights above his/her desk illuminated. The general lights remain off, saving energy.

Teacher prepares for tomorrow's lesson



Lutron occupancy sensor

Teacher leaves:

Lights automatically turn off after the teacher departs.

Cleaning:

When the cleaning staff enters, the lights automatically turn on and the staff adjusts them to 100% to brighten the room. Lights turn off automatically after the staff departs.

Balance LC™ saves 50% more electricity than dual-level switching and gives you the flexibility that you need in today's classrooms.

For more information, please see the back cover or contact your Lutron representative.

Reduce energy costs and create a better learning environment

Save electricity

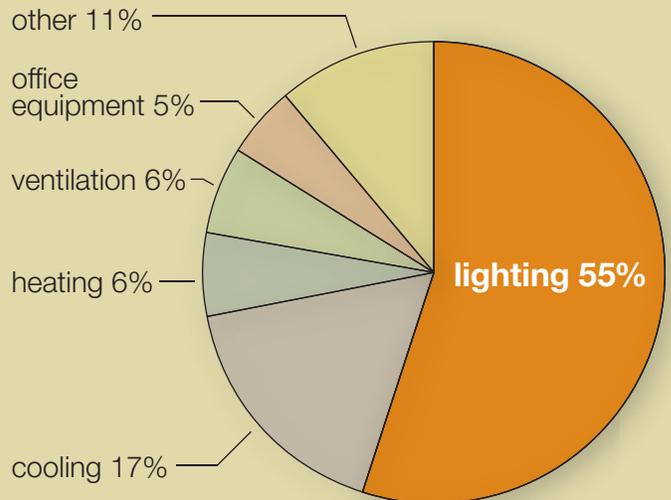
Schools spend more on energy than on textbooks and computers combined.

Balance LC™ employs three light control strategies to reduce electricity consumed by lighting.

- Occupancy sensing can cut electricity usage up to 30%.
- Daylight dimming can reduce electricity consumption between 30–60%.¹
- Manual dimming can reduce electricity use in a nearly 1:1 ratio—dimming lighting by 50% means 48% less electricity is used.

Balance LC demonstrates a true commitment to high performance classrooms.

Electricity consumption in education



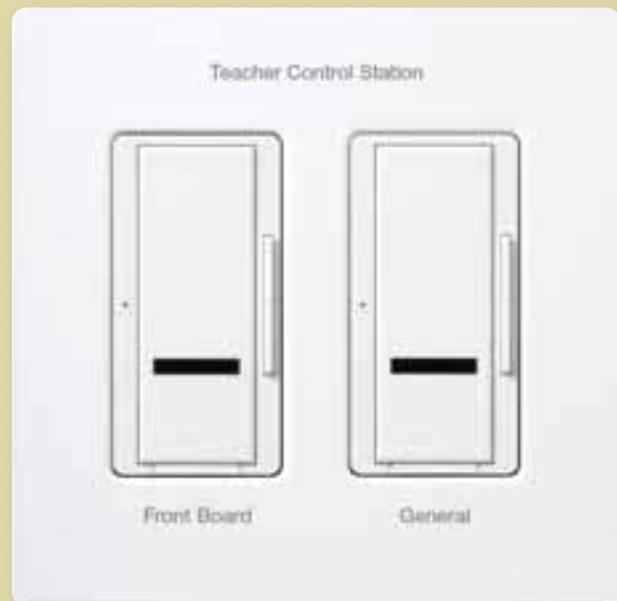
Source: “Electricity Consumption by End Use,” Energy Information Administration Office, Energy Statistics for the U.S. Government.

Better lighting = better student performance

Lighting is one of the most important components of the classroom. **Similar to independent HVAC room controls, teachers need flexible control of their lighting to improve the learning environment.**

- Studies show a positive effect of daylighting on student performance.²
- Students require different light levels for different tasks.³
- Teachers use lighting as a tool for effective classroom management.

Balance LC combines daylighting, preset light levels and teacher control to create a better learning environment.



Teacher Control Station with on/off and dimming with optional wireless control

1. “Improving Building Energy Efficiency in the U.S.: Technologies and Policies for 2010 to 2050,” prepared for the PEW Center on Global Climate Change. **2.** “Windows and Classrooms: A Study of Student Performance and the Indoor Environment,” California Energy Commission, prepared by Hescong Mahone Group. **3.** “The IESNA Lighting Handbook, Ninth Edition,” Illuminating Engineering Society of North America.

The benefits of the college classroom...

redesigned for K-12

The standard for many colleges and universities, Lutron Electronics Co., Inc. is the world leader in light control solutions.

For over 45 years, we have met and exceeded the highest standards of quality and service. Every one of our products is quality-tested before it leaves the factory, and we are available to help, on the phone or in the field, whenever we are needed.

In addition to Balance LC™, Lutron offers a variety of dimming, switching, and shading control solutions for all of your K-12 needs, including auditoriums, public spaces, exterior lighting, and administrative spaces.

Balance LC solution components:

- (1) EcoSystem™ dimming ballast per fixture
- (1) Daylight sensor
- (1) Dual-technology occupancy sensor
- (1) Teacher Control Station
- (1) EcoSystem communication bus

Please call 1-888-LUTRON1 or visit www.lutron.com/k-12 to request any of the following:

- More information on Balance LC
- Free project proposal
- Application for classroom evaluation system
- Details on zero capital cost leasing and financing program



Lutron controls your light.™

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