classroom & conference room
lighting control solution

Teachers adapt to different learning styles. So should the classroom lighting.

Contemporary classrooms or conference rooms often have whiteboards, smart boards, computers, and LCD projectors. Lighting systems for these spaces must provide the flexibility and control to enable this sort of multi-modal presentation and participation.

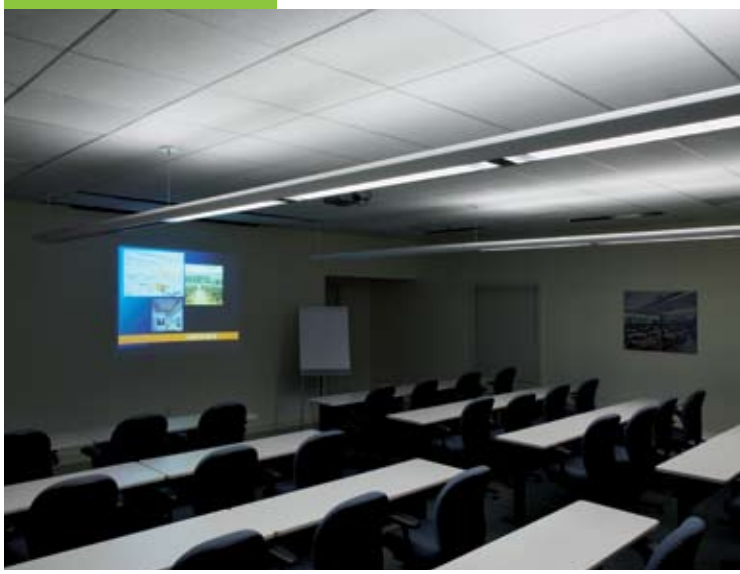
The new AV controls solution from Litecontrol provides the flexibility needed in today's classrooms, while also helping the design team to satisfy energy codes and the requirements of LEED and CHPS ratings. CS/av provides a convenient means for switching from general room lighting to AV presentation mode, with pre-wired luminaires and control components for ease of installation. And, all Litecontrol CS/av systems include occupancy sensors that combine both passive infrared and ultrasonic devices (dual technology) to check for motion and turn the lighting off when the room is vacant.

LEED and CHPS Classroom lighting criteria

- Provide a lighting system that operates in two modes: general and AV
- General mode must provide average light level at desk of 35-50 footcandles
- AV mode must provide average light level at desk of 10-20 footcandles
- AV mode must provide no more than 7 vertical footcandles on the projection screen

General Mode

AV Mode



Charles Mayer Photography

The Litecontrol CS/av control solution includes:

– Three wall switches located at a single convenient control point

Switch #1 serves as an overall on/off switch, and can be combined with additional entrance switches as needed

Switch #2 selects between the two outer lamps or one inner lamp in a 3-lamp luminaire or between one-lamp or two-lamp operation in a 2-lamp luminaire (high or low light level)

Switch #3 enables separate on-off switching for the front fixtures for AV mode

– A custom-engraved face plate (see left)

– Two dual technology occupancy sensors to switch off the lighting when the room is vacant

– A control splice box, modular line voltage wiring, and necessary low-voltage cabling for streamlined connections between the power supply, occupancy sensors, switch box, and fixture rows

– Fixtures pre-wired for two-circuit operation and front-to-back switching

– A double power feed at one end of the row of fixtures, if available

Easy to Install

Control Splice Box

Pre-wired for terminating branch circuit wiring with plug-in connections for luminaire and control modular wiring harnesses

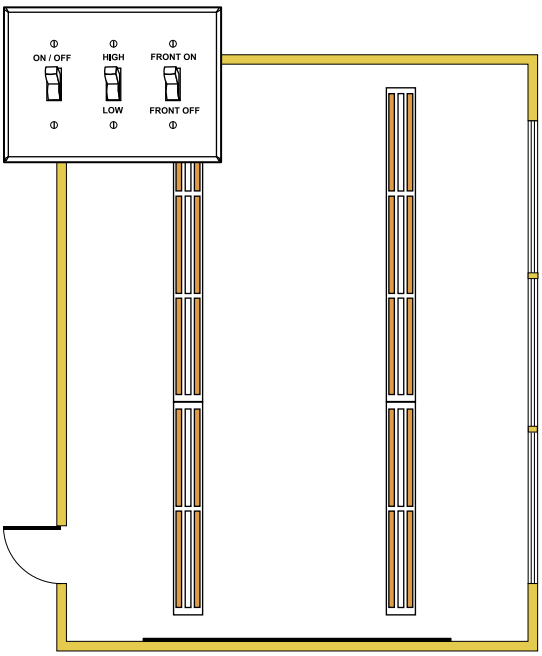
Wiring Harnesses

Modular plug and play wiring for luminaires and controls

Optional Entrance Control

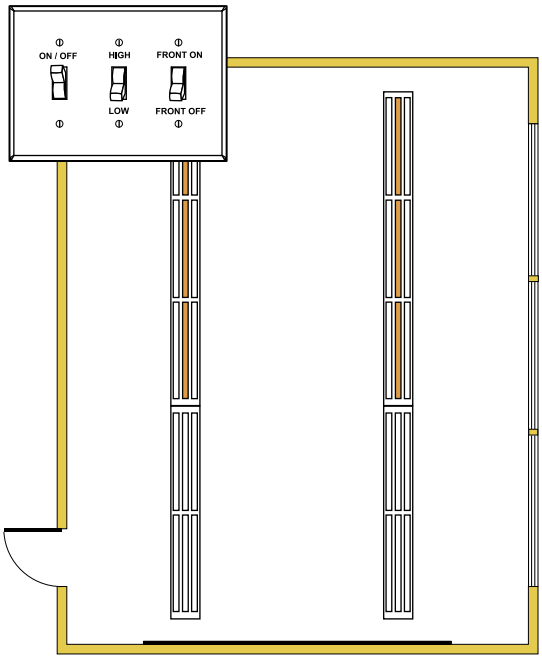
Switch is mounted in a 1-Gang device box with engraved switch plate

General Mode



For general conferencing or lectures, all luminaires have two lamps on, providing the light levels needed for reading and group interaction.

AV Mode with "Front Off"



For presentations, the front 8' of the luminaires are switched off, while the remaining luminaires have one lamp on, providing adequate light for note-taking while minimizing light on the projection area.

What fixtures are compatible with CS/av?

The CS/av system can be used with most Litecontrol fixtures, including our popular pendant-mounted indirect-direct luminaires.

Some common luminaire choices:

Radi-X P-ID-8000	LC-93 P-ID-9300
SAE 7700 P-ID-7700	LC-82 P-ID-8200
Arcos ID P-ID-5900	LC-94 P-ID-9400

Is daylight harvesting available with CS/av?

Yes. Specify the Litecontrol CS/dlh control solution for independent, continuous daylight dimming of the luminaire row or rows located in the daylight zone. The CS/dlh daylight harvesting solution includes a fixture-integrated photosensor and wireless remote for set-up and manual adjustment, and operates independently of the CS/av solution. Visit litecontrol.com/cs for details.

For further information on CS/av visit litecontrol.com/cs to download the Litecontrol CS/av technical sheet and the Classroom Application Guides for the Radi-X and the SAE 7700 fixtures.

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