

LUMINAIRE LEVEL LIGHTING CONTROLS SERIES

Primary Control Strategies

This guide outlines the most important control strategies which should be considered for all lighting projects.

Now that LED light sources are the status quo, it is easier to control lighting than ever before with Luminaire Level Lighting Controls (LLLC). Control strategies which used to be time consuming and cumbersome can now be implemented effectively and inexpensively.

1/ High-end trim

Also called task tuning, high-end trim is the method of adjusting the maximum luminaire output at the time of installation in an effort to set the target or recommended light level. To compensate for light loss and other design factors, spaces are routinely specified to provide more light than may be initially needed. This is where high-end trim can help.

2/ Occupancy sensing

Lighting systems must respond appropriately when occupants enter or leave a space. Configuring a space for tenant comfort and code compliance means paying attention to Occupancy Mode and Vacancy Mode. In Occupancy Mode, fixtures will automatically adjust light levels or simply turn on or off as occupancy is detected. In Vacancy Mode, the user must physically turn the light source on. Fixtures can be grouped to minimize disruptions and occupancy settings are easily adjusted to account for sensitivity to movement and duration.

3/ Daylight harvesting

Lighting systems should detect and adjust to natural daylight in a workspace. As photosensors detect enough natural light, they can automatically reduce the luminaires' light output. Over-lighting a space doesn't just waste energy—it may cause tenant discomfort and hurt productivity!

4/ Networked lighting controls

Networked systems consist of a combination of sensors, network interfaces, and controllers. They affect not just light output, but how the lights operate throughout the day. Many manufacturers offer fixtures with ambient light and occupancy sensors built into the fixture. When these fixtures are networked and dimmable, they are known as LLLC.

Consider other strategies



System scheduling:

Can dim or turn lights off at certain times of day, such as after business hours



Manual dimming:

Allows users to adjust the lighting to their own personal preference



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