Title 24 and ASHRAE 90.1 Daylight Harvesting
Code and Standard Compliance from a Single Source

As lighting makes up nearly 30 percent of our commercial electricity use, new codes and standards are being introduced on the local municipal, state and national levels to conserve energy and ensure a more efficient future.

Leviton Solutions
With all the variables surrounding code compliance (location, project size, end user needs), selecting a system that will meet all requirements for its designed use can be overwhelming. Fortunately, you can rely on Leviton for quality, reliable, simplified solutions that meet all California Title 24 2013 code and ASHRAE 90.1 standards for any sized project—from single office suites and classrooms up to high-rise mixed use buildings and school campuses. As we prepare for the future of energy usage and lighting system design, trust the company that has been innovating the way forward for over a century.

California Title 24 2013 and ASHRAE 90.1
Daylight Harvesting Requirements
Although the specifics and locations vary, Title 24 and ASHRAE 90.1 share a common goal—create a more sustainable future by introducing new energy saving strategies into standard lighting designs. Both Title 24 and ASHRAE 90.1 address the need for daylight harvesting strategies.

Daylight Harvesting
- Utilize the ambient light present in a space
- Dim or switch OFF lighting when sufficient ambient light is present or when the space is unoccupied
- Zones utilized to stagger the dimming and switching of lighting loads depending on their distance from ambient light sources, such as windows and skylights
- Mandatory in meeting Title 24 codes (Section 130.1[d]) and ASHRAE 90.1 standards (Section 9.4.1.4 and 9.4.1.5)
- Leviton Solutions include Provolt™ Occupancy Sensors, Integrated Room Controller (IRC) and GreenMAX® Relay Control Panels

Design Assistance and Support
Not only does Leviton provide Title 24 and ASHRAE 90.1 daylight harvesting solutions from a single source, we offer our customers an unparalleled level of resources to make the project planning process easier.

Dollars & Sensors allows you to perform a full energy audit from the palm of your hand. Visit leviton.com/dollarsandsensors to download the free app for iPhone, Android or BlackBerry and generate ROI reports, analyses, Bill of Materials and submittal packages from your desktop.

Code Assist Service gives you access to a team of experts to review your code or standard compliant lighting control and energy management solutions. Email codeassist@leviton.com or visit portal.leviton.com.

Occupancy Sensor Layout Service expertly creates occupancy sensor layouts directly on your CAD drawings with a List of Equipment at portal.leviton.com.

LightLogger® Program provides an accurate estimate of your energy savings potential with an exclusive payback analysis tool—go to leviton.com/logger.

ez-Learn™ is online training from the comfort of your home or office, available 24/7 at leviton.com/ezlearn.

ASAP Lighting Design Software is point-and-click software that allows you to quickly and simply design, specify and enter orders at leviton.com/asap.

Dedicated technical support at 800-959-6004.
**Title 24 Daylight Harvesting Requirements**

- Photocontrols are required in all interior daylit spaces with at least 120W of installed lighting power
  - Includes nearly every non-residential space with skylights or windows
- Daylighting requirements for secondary daylit zones; must have the same level of functionality as those in the primary zone. The two zones must be controlled separately
  - **Primary Zone:** starts at the window plane and extends one window head height back into the space
  - **Secondary Zone:** starts at the back edge of the primary zone and extends a further two window head heights back

**ASHRAE 90.1 Daylight Harvesting Requirements**

- Light sensor for the control must be remote from where calibration is made
- Calibration adjustments shall be readily accessible
- Multi-level control shall reduce electric lighting in response to available daylight:
  - With at least one control step between 50 and 70%
  - Another step that is no greater than 35%

**Featured Leviton Daylight Harvesting Solution**

Two-Zone Solution featuring Integrated Room Control (IRC)

- IRC is a room-in-a-box, code-compliant solution that is easy to configure and specifically designed for today’s lighting control system needs
- Kitted with a factory configured sensor, photocell and 4-button switch
- AutoCal™ automatic photocell calibration and Ladderless Commissioning™, which self-determines the photocell target level and allows the user to make adjustments in the system’s adjustment mode
- Easy automatic closed or open loop multi-zone daylight harvesting control design
- Meets Title 24 requirements of daylight harvesting using occupancy sensing control, dimming, task tuning, manual ON/OFF, receptacle control and area controls
- Meets ASHRAE 90.1 requirements of daylight harvesting using receptacle control, space control, lighting controls and automatic shutoff

**You Will Need**

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRC Kit for 2 Zones, 2 Relays - includes IRC, sensor, photocell and control station</td>
<td>RCD20-102</td>
</tr>
<tr>
<td>IRC for 2 Zones, 2 Relays</td>
<td>MZD20-102</td>
</tr>
<tr>
<td>Multi-Tech Ceiling Mount Occupancy Sensor, 1000SF</td>
<td>OSC20-MoW</td>
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<tr>
<td>Photocell, Indoor (maximum 70 fc)</td>
<td>ODCoP-00W</td>
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<tr>
<td>Lighting Control Station</td>
<td>RLVSW-4LW</td>
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<tr>
<td>OPP20 Super Duty Power Pack</td>
<td>OPP20-0D1</td>
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<tr>
<td>Controlled Receptacle, Marked</td>
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