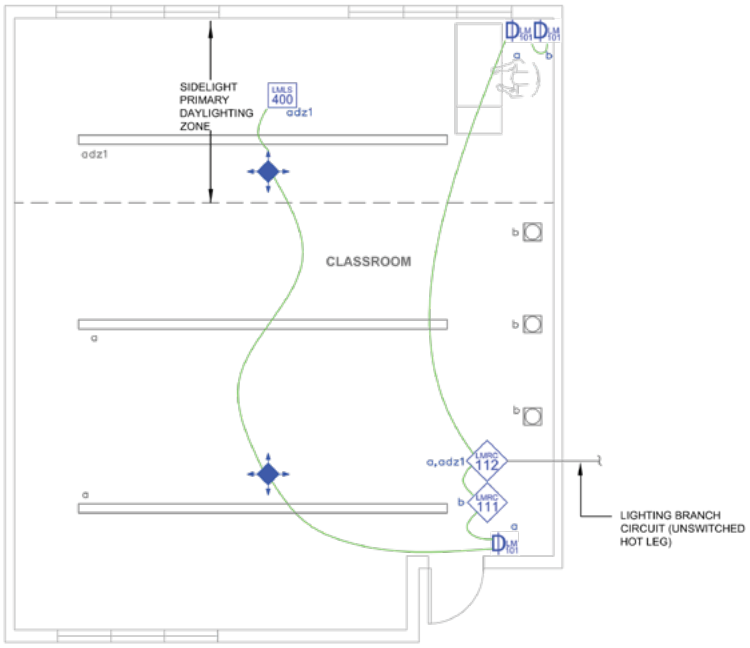
# WATTSTOPPER®

## Classroom

## ASHRAE 90.1 (2010) Compliant Dimming with DLM product




## SEQUENCE OF OPERATION

1. General lighting (a, adz1) auto On to 50% when occupancy detected.
2. Space manual control On/Off/Dim general lighting (a, adz1) with dimmer switches.
3. Manual On/Off/Dim white board lighting (b) with dimmer switch.
4. Lighting in primary (adz1) daylight area will continuously dim based on daylight contribution to maintain at least 35FC at task level.
5. Auto off all lighting within 30 minutes of occupants leaving.

## DESIGN CONSIDERATIONS

- When the primary sidelight area is 250ft$^2$ or larger, it must have automatic daylight responsive controls installed for all general lighting in that area.
- Although not required for this space type, receptacle control can be added for additional energy savings using either an RF transmitter with receptacle RF receivers, or hardwired receptacles with an LMPL-101 Plug Load Room Controller.
- Time scheduling, demand response and remote programming/ diagnostic functions are enabled with installation of the LMBC-300 Network Bridge for system connectivity.
- To integrate occupancy detection control with the HVAC System, use a LMRL-100 Isolated Relay Interface.

## BILL OF MATERIALS

| | |
|---|---|
| LMRC-111 (1) | 1-Relay Room Controller, 0-10V Dimming |
| LMRC-112 (1) | 2-Relay Room Controller, 0-10V Dimming |
| LMDC-100 (2) | Ceiling Mount Dual Tech Occupancy Sensor |
| LMDM-101 (3) | 1-Button Dimming Wall Switch |
| LMLS-400 (1) | Photosensor, Closed Loop |
| LMRJ | Pre-Terminated Cable |

## CODE REQUIREMENTS

| | |
|---|---|
| 9.4.1 | Manual On / Partial Auto On |
| 9.4.1.1 | Auto Shut Off |
| 9.4.1.2 | Space Control |
| 9.4.1.2(a) | Bi-level Control |
| 9.4.1.4 | Auto Daylighting Control |
| 9.4.1.6 | Additional Control |