**WaveLinx Wireless Connected Lighting**

**TWO ZONE CLASSROOM WITH 0-10V DIMMING**

**SEQUENCE OF OPERATIONS:**
- **LIGHTING**
  - 0-10V LIGHTING LOADS
  - UP TO 3 DIMMING ZONES
  - DAYLIGHT DIMMING ZONES OF NO MORE THAN EIGHT LUMINAIRES
  - OUT OF THE BOX 75% HIGH END TRIM
- **OCCUPANCY**
  - AUTOMATIC AUTO ON TO 50%
  - OPTIONAL VACANCY MODE
  - OPTIONAL AUTO ON TO SCENE
  - OPTIONAL PLUG LOAD TURNS ON/OFF WITH OCCUPANCY
  - AUTOMATIC OFF OF LIGHTING AND PLUG LOAD ON VACANCY
- **DAYLIGHTING**
  - CONTINUOUS DIMMING TO OFF
  - INDIVIDUAL LUMINAIRE DAYLIGHT DIMMING
  - DAYLIGHTING NOT REQUIRED FOR INDOOR SPACES
  - NOT REQUIRED IN SPACES WITHOUT WINDOWS THAT ARE LESS THAN 120W.
- **MANUAL CONTROLS**
  - PROGRAMMABLE SCENES
  - DOMINANT BUTTON IS 50% LIGHT LEVEL
  - SCENE RAISE
  - SCENE LOWER
  - ALL OFF
- **ADDITIONAL FEATURES**
  - POWER MEASUREMENT REPORTING THROUGH MOBILE APPLICATION
  - AUTOMATIC DEMAND RESPONSE AVAILABLE FROM WIRELESS AREA CONTROLLER
  - SCHEDULING OF PARTIAL OFF LIGHT LEVELS AND TIMES FROM WIRELESS AREA CONTROLLER
  - UL924 EMERGENCY CONTROL CAPABILITIES AVAILABLE VIA LUMINAIRE BATTERY BACKUP

**Bill of Materials**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Catalog #</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>WAC-POE</td>
<td>Wireless Area Controller</td>
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<tr>
<td>2</td>
<td>WSP-MV-010</td>
<td>20A relay with 0-10V dimming</td>
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<tr>
<td>1</td>
<td>CWPD-1500</td>
<td>WaveLinx ceiling occupancy sensor</td>
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</tbody>
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**TYPICAL WIRING DETAIL**

- **Design Consideration:**
  - Gateways/WAC range: 150 feet to 250 feet LOS
  - Distance from WAC: 2 walks
  - Distance between WCL devices: 75 feet
  - Number of areas per WAC: 16
  - Number of zones per area: 3
  - Number of zones per area: 16
  - Memory: 128GB
  - 2x4 recessed light fixture with 0-10V dimming

**Local Controller:**

- Manual ON
- Partial ON
- Dimmed Lighting
- Daylight Sensed
- Daylight Dim
- Automatic OFF
- Scheduled OFF
- Receptacle Control
- Energy Monitoring
- Parking Garage
- Functional Testing
- Demand Response

**Controlled:**

- 0-10V Dimming
- Receptacle Control
- Lumen Maintenance Control
- Demand Response