IECC 2015 DESIGN GUIDE
LOBBY WITH 0-10V DIMMING

**Bill of Materials**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Catalog #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WAC-POE</td>
<td>Wireless Area Controller</td>
</tr>
<tr>
<td>2</td>
<td>W4S-RL-W</td>
<td>4 Small button scene wallstation</td>
</tr>
<tr>
<td>1</td>
<td>WTA</td>
<td>WaveLinx Tile Mount Sensor</td>
</tr>
<tr>
<td>6</td>
<td>LD4 or LD6</td>
<td>Portfolio Commercial Recessed LED</td>
</tr>
<tr>
<td>2</td>
<td>22EN-LD2-34-UNV-L835-CD1-SWPD1-U</td>
<td>Encounter 2x2 with iNstinct Sensor</td>
</tr>
</tbody>
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**SEQUENCE OF OPERATIONS:**

**LIGHTING**
- 0-10V LIGHTING LOADS
- UP TO 3 DIMMING ZONES
- OUT OF THE BOX 75% HIGH END TRIM

**OCCUPANCY**
- OUT OF THE BOX AUTO ON TO 50%
- OPTIONAL VACANCY MODE
- OPTIONAL AUTO ON TO SCENE
- PLUG LOAD TURNS ON 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 OFFICES
- NOT REQUIRED IN SPACES WITHOUT WINDOWS THAT ARE LESS THAN 120W.

**MANUAL CONTROLS**
- PROGRAMMABLE SCENES
- SCENE RAISE
- SCENE LOWER
- ALL OFF

**ADDITIONAL FEATURES**
- ENERGY CALCULATIONS AVAILABLE THROUGH TRELLIX
- 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

**TYPICAL WIRING DETAIL**

**Design Consideration:**
- Gateway/WAC range: 150 feet to 250 feet LOS 300 feet LOS
- Number of interior walls: 2 walls 3 walls
- Distance from WAC to 1st WCL device: 150 feet 200 feet
- Distance between WCL devices: 75 feet 150 feet
- Number of hops from WAC: 4 hops 5 hops
- Number of areas per WAC: 15 + construction area 15 + construction area
- Number of zones per area: 3 16
- Number of scenes per area: 16 16

**Best Practice:**
- 300 feet LOS
- 3 walls
- 200 feet
- 150 feet
- 5 hops
- 16
- 16