**WaveLinx Wireless Connected Lighting**

**SEQUENCE OF OPERATIONS:**

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

**OCCUPANCY**
- AUTOMATIC 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**
- DOMINANT BUTTON 50% LIGHT LEVEL
- MANUAL ON/OFF
- PROGRAMMABLE SCENES
- 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 LUMINARIA BATTERY BACKUP

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**TYPICAL WIRING DETAIL**

**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>W1L-RL-W</td>
<td>1 Large button scene wallstation</td>
</tr>
<tr>
<td>6</td>
<td>24EN-LD2-34-UNV-L835-CD1-SWPD1-U</td>
<td>Encounter 2x4 with iNstinct Sensor</td>
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</tbody>
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**Typical Wiring Diagram**

- Wireless Area Controller (WAC-POE) installed within 150ft of WLC devices
- Wireless 4 small button scene wallstation (W1L-RL-W)
- Encounter 2x4 with iNstinct Sensor

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**Design Considerations**

<table>
<thead>
<tr>
<th>Gateway/WAC range</th>
<th>150 feet to 250 feet LOS</th>
<th>300 feet LOS</th>
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<tbody>
<tr>
<td>Number of interior walls</td>
<td>2 walls</td>
<td>3 walls</td>
</tr>
<tr>
<td>Distance from WAC to 1st WLC device</td>
<td>150 feet</td>
<td>200 feet</td>
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<tr>
<td>Distance between WLC devices</td>
<td>75 feet</td>
<td>150 feet</td>
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<tr>
<td>Number of hops from WAC</td>
<td>4 hops</td>
<td>5 hops</td>
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<tr>
<td>Number of areas per WAC</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Number of zones per area</td>
<td>5</td>
<td>16</td>
</tr>
<tr>
<td>Number of scenes per area</td>
<td>6</td>
<td>10</td>
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