**WaveLinx Wireless Connected Lighting**

**SEQUENCE OF OPERATIONS:**

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

**OCCUPANCY**
- AUTOMATIC 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**
- TOP OR DOMINANT BUTTON HALF LIGHTS (SETS LIGHTS TO 50% OR LESS)
- REMAINING BUTTONS TRIGGER SCENES
- RAISE
- 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

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**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>1</td>
<td>W4S-RL-W</td>
<td>4 Small button scene wallstation</td>
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<tr>
<td>1</td>
<td>WR-15</td>
<td>Wireless Receptacle</td>
</tr>
<tr>
<td>2</td>
<td>22EN-LD2-34-UNV-L835-CD1-SWPD1-U</td>
<td>Encounter 2x2 with INstinct Sensor</td>
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</tbody>
</table>

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**TYPICAL WIRING DETAIL**

*Image of wiring diagram*

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**Design Considerations:**

<table>
<thead>
<tr>
<th>Design Consideration</th>
<th>Best Practice 1</th>
<th>Best Practice 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gateway/WAC range</td>
<td>100 feet to 200 feet LOS</td>
<td>300 feet LOS</td>
</tr>
<tr>
<td>Number of interior walls</td>
<td>2 walls</td>
<td>3 walls</td>
</tr>
<tr>
<td>Distance from WAC to 1st WAC device</td>
<td>100 feet</td>
<td>200 feet</td>
</tr>
<tr>
<td>Distance between WAC 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 devices per WAC</td>
<td>16</td>
<td>16</td>
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<tr>
<td>Number of zones per area</td>
<td>3</td>
<td>16</td>
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<tr>
<td>Number of scenes per area</td>
<td>6</td>
<td>10</td>
</tr>
</tbody>
</table>

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**ASHRAE 90.1-2016**

- **SA.1(A)**
- **SA.1(B)**
- **SA.1(C)**
- **SA.1(D)**
- **SA.2.1**
- **SA.2.2**
- **SA.2.3**