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>
</tr>
</tbody>
</table>

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 LUMINARE 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

**WAVELINX CONNECTED LIGHTING**

**WIRELESS AREA CONTROLLER (WAC-POE)**
- Installed within 150ft of WCL devices

**WIRELESS 4 SMALL BUTTON SCENE WALLSTATION (W4S-RL-W)**
- Pre-engraved Wallstation

**ENCOUNTER 2X4 WITH INSTINCT SENSOR**
- 24EN-LD2-34-UNV-L835-CD1-SWPD1-U

**Local Control** | **Manual Control** | **Partial ON** | **Binary Lighting** | **Daylight Top** | **Partial OFF** | **Automatic OFF** | **Scheduled OFF** | **Receptacle Energy Monitoring** | **Functional Testing** | **Demand Response** | **Enhanced Digital**
---|---|---|---|---|---|---|---|---|---|---|---
**130 1/4** | **130 1/4** | **130 1/4** | **130 1/4** | **130 1/4** | **130 1/4** | **130 1/4** | **130 1/4** | **130 1/4** | **130 1/4** | **130 1/4** | **130 1/4**

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

Best Practice:
- **Gateway/WAC range**: 300 feet LOS
- **Number of interior walls**: 3 walls
- **Distance from WAC to 1st WCL device**: 300 feet
- **Distance between WCL devices**: 150 feet
- **Number of hops from WAC**: 5 hops
- **Number of areas per WAC**: 40 + construction area
- **Number of zones per area**: 15
- **Number of scenes per area**: 16

Best Practice:
- **Gateway/WAC range**: 400 feet LOS
- **Number of interior walls**: 3 walls
- **Distance from WAC to 1st WCL device**: 300 feet
- **Distance between WCL devices**: 200 feet
- **Number of hops from WAC**: 7 hops
- **Number of areas per WAC**: 60 + construction area
- **Number of zones per area**: 25
- **Number of scenes per area**: 25