**WaveLinx Connected Lighting**

**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>WR-15</td>
<td>WaveLinx Receptacle</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>
</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 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
- 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

**Local Control:**
- Manual On
- Partial ON
- Manual Off
- Automatic Off
- Scheduled Off
- Receptacle Energy Monitoring

**Functional Testing:**
- Occupancy Sensor
- Daylighting Control
- Manual On/Off
- Test Control
- Dimmer Switch
- Receptacle Control
- Luminaire Maintenance Control

**Demand Response:**
- 8.4.1.3
- 8.4.1.2
- 8.4.1.1