ASHRAE DESIGN GUIDE
90.1- 2016
CLASSROOM WITH 0-10V DIMMING FIXTURES

SEQUENCE OF OPERATION:

LIGHTS
- ALL LIGHTS ARE DIMMABLE
- EACH ROW CONTROLLED INDEPENDENTLY
- MAXIMUM LEVEL CAN BE LIMITED TO 80%

OCCUPANCY
- LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%)
- PLUG LOAD TURNS ON AUTOMATICALLY
- LIGHTS AUTOMATICALLY TURN OFF WHEN ROOM BECOMES VACANT

DAYLIGHT
- SMOOTH CONTINUOUS DIMMING
- CUSTOM GROUPING OF FIXTURES INTO SEPARATE DAYLIGHT ZONES
- NOT REQUIRED FOR AREAS WITHOUT WINDOWS OR HAVE SIDE LIT LOAD < 150W

MANUAL
- MASTER ON/OFF & RAISE/LOWER CONTROL OF ENTIRE ROOM
- TEACHERS STATION WITH 4 PRESET SCENE

ADDITIONAL OPTIONS:
- SURFACE OR RECESSED MOUNT SENSORS ALSO AVAILABLE
- ADD ADDITIONAL RELAY PACK (MODEL NPP16 D) IF A WHITE BOARD LIGHTING ZONE ALSO REQUIRED
- ADD GRAPHIC WALLPOD (MODEL NPOD GFX) FOR INDIVIDUAL ROW AND UP TO 16 SCENE CONTROL
- ROOM CAN BE CONNECTED TO nLIGHT BACKBONE TO ENABLE NETWORK CONTROL INCLUDING TIME BASED CONTROLS AND INTEGRATION WITH BUILDING MANAGEMENT SYSTEMS.
- FOR EMERGENCY LIGHTING CONTROL ADD A NPP16 D ER PACK.

BILL OF MATERIAL

<table>
<thead>
<tr>
<th>QTY</th>
<th>PRODUCT #</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>3</td>
<td>nPP16 D</td>
<td>RELAY PACK WITH 0-10V DIMMING OUTPUT</td>
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<tr>
<td>1</td>
<td>nPOOM DX</td>
<td>ON/OFF &amp; RAISE/LOWER WALL POD</td>
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<tr>
<td>1</td>
<td>nWV PDT 16</td>
<td>OCCUPANCY SENSOR</td>
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<tr>
<td>1</td>
<td>nPOOM 4S DX</td>
<td>TEACHER STATION - 4 SCENE CONTROL MASTER ON/OFF RAISE/LOWER</td>
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<tr>
<td>1</td>
<td>nCM ADCX</td>
<td>DAYLIGHT SENSOR</td>
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<td>1</td>
<td>nPP20 PL</td>
<td>PLUG LOAD RELAY PACK</td>
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DIAGRAM LEGEND

- CAT-5e CABLE
- LINE VOLTAGE WIRES
- 0-10VDC WIRES
- LINE FEED

SUPPORTS THE FOLLOWING REQUIREMENTS:

- FULL AUTO-OFF VIA OCCUPANCY SENSOR
- LOCAL SWITCH
- MULTI-LEVEL/DIMMING CONTROL
- PLUG-LOAD CONTROL
- MULTI-LEVEL DAYLIGHT CONTROL