

ASHRAE DESIGN GUIDE 90.1- 2016

WIRELESS CLASSROOM WITH nLIGHT AIR ENABLED 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:

- ROOM CAN BE CONNECTED TO nLIGHT BACKBONE TO ENABLE NETWORK CONTROL INCLUDING TIME BASED CONTROLS AND INTEGRATION WITH BUILDING MANAGEMENT SYSTEMS.
- HVAC CONTROL AVAILABLE THROUGH SYSTEM-WIDE BACNET INTERFACE OPTION ON ECLYPSE CONTROLLER.
- FOR EMERGENCY LIGHTING CONTROL ADD A rPP20 D ER G2 PACK OR nLIGHT AIR ENABLED FIXTURE WITH EMERGENCY OPTION.

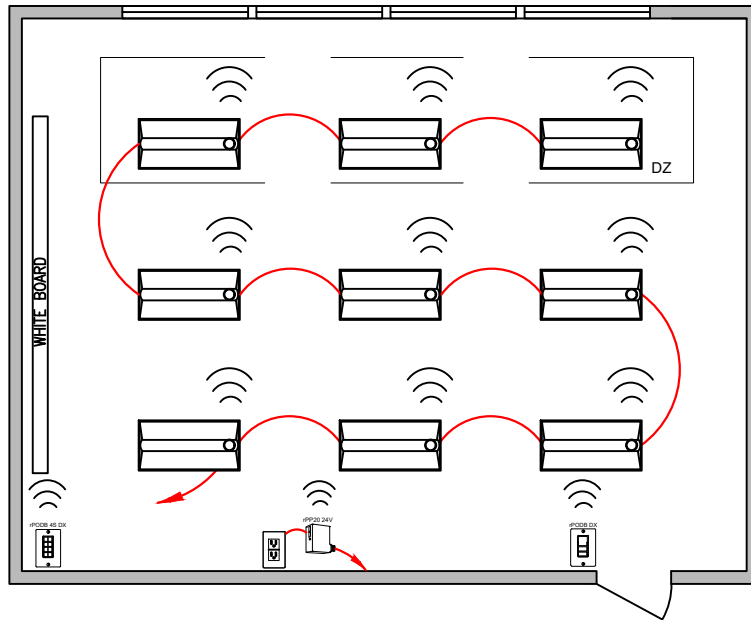
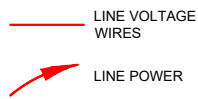


DIAGRAM LEGEND



BILL OF MATERIAL

| QTY | PRODUCT # | DESCRIPTION |
|-----|----------------|--|
| 9 | VARIES | nLIGHT AIR ENABLED FIXTURES |
| 1 | rPP20 24V G2 | PLUG LOAD RELAY PACK |
| 1 | rPODB DX G2 | ON/OFF & RAISE/LOWER WALL POD |
| 1 | rPODB 4S DX G2 | TEACHER STATION - 4 SCENE CONTROL MASTER ON/OFF RAISE/LOWER. |

SUPPORTS THE FOLLOWING REQUIREMENTS:



FULL AUTO-OFF VIA
OCCUPANCY SENSOR



LOCAL SWITCH



MULTI-LEVEL/ DIMMING
CONTROL



PLUG-LOAD
CONTROL



MULTI-LEVEL DAYLIGHT
CONTROL