# ASHRAE DESIGN GUIDE
## 90.1- 2016
### WIRELESS OPEN OFFICE WITH 0-10V DIMMING FIXTURES

**AcuityControls™**

**nLIGHT AIR**



## SEQUENCE OF OPERATION:

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

OCCUPANCY
- LIGHTS AUTOMATICALLY TURN ON WHEN OCCUPANT ENTERS THE SPACE (OPTIONALLY CAN BE CONFIGURED TO 50% AUTO-ON)
- LIGHTS AUTOMATICALLY TURN OFF WHEN ROOM BECOMES VACANT
- PLUG LOAD IS AUTO ON/OFF

DAYLIGHT
- SMOOTH CONTINUOUS DIMMING
- DAYLIGHT ZONES DEFINED BY ROWS
- NOT REQUIRED IN SPACES WITHOUT WINDOWS OR SIDE LIT AREAS < 150W LOAD

MANUAL
- MASTER ON/OFF & RAISE/LOWER CONTROL OF ENTIRE ROOM
- OPTIONAL INDIVIDUAL ROW CONTROL (ADD nPODM 4 DX)

ADDITIONAL OPTIONS:
- ROOM CAN BE CONNECTED TO NLIGHT BACKBONE TO ENABLE NETWORK CONTROL INCLUDING TIME BASED CONTROLS AND INTEGRATION WITH BUILDING MANAGEMENT SYSTEMS.
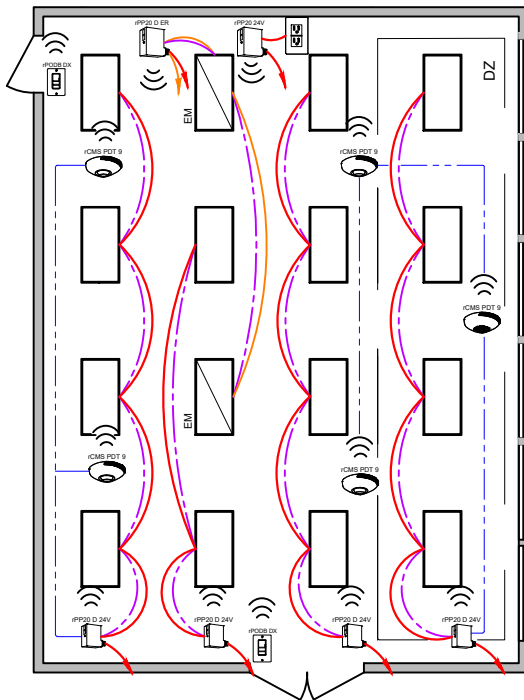- HVAC CONTROL AVAILABLE THROUGH SYSTEM-WIDE BACNET INTERFACE OPTION ON ECLYPSE CONTROLLER.

## DIAGRAM LEGEND

| | |
|---|---|
| – – – | LOW VOLTAGE WIRES |
| — — | 0-10VDC WIRES |
| —— | LINE VOLTAGE WIRES |
| ➤ | LINE WIRE |
| ➤ | EM LINE WIRE |

## BILL OF MATERIAL

| QTY | PRODUCT # | DESCRIPTION |
|---|---|---|
| 4 | rPP20 D 24V G2 | RELAY PACK WITH 0-10V DIMMING OUTPUT |
| 1 | rPP20 D ER G2 | EMERGENCY RELAY PACK WITH 0-10V DIMMING OUTPUT |
| 2 | rPODB DX G2 | ON/OFF & RAISE/LOWER WALL POD |
| 5 | rCMS PDT 9 G2 | OCCUPANCY SENSOR |
| 1 | rPP20 24V G2 | PLUG LOAD RELAY PACK |

## SUPPORTS THE FOLLOWING REQUIREMENTS:

✓ FULL AUTO-OFF VIA OCCUPANCY SENSOR

✓ LOCAL SWITCH

✓ PLUG-LOAD CONTROL

✓ MULTI-LEVEL/ DIMMING CONTROL

✓ MULTI-LEVEL DAYLIGHT CONTROL