

Open Office

Title 24 Part 6 2022 Compliant
Dimming with NX Distributed Intelligence

BILL OF MATERIALS

NXHNB2 - NX Network Bridge Module for networking rooms together
NXRFCX2-1RD-UNV - NX Room Controller 1 relay on/off for receptacle
NXSW2-ORLO-WH - NX Digital Switch Station, On/Raise/Lower/Off, White
NXSMP2-SMI - Embedded occupancy and daylight control functions directly into a luminaire.

CODE REQUIREMENTS





- 130.1(a): Manual Area Controls
- 130.1(b): Multilevel Lighting Controls
Table 130.1-A: Continuous Dimming 10-100 %
- 130.1(c): Shut -Off Controls
6D: Open office 600sq ft zones
- 130.1(d): Automatic Daylight Responsive
- 130.1(e): Demand Response Controls Building > 4000 Watts
110.12 (a): 1.B responding to signal from a certified Virtual End Node
- 130.1(f): Control Interactions
- 130.5(d): Controlled Receptacles

SEQUENCE OF OPERATION

1. Each 600 sq ft lighting zone and receptacles on 100% when occupancy is detected.
2. Manual On/Off/Dim general lighting (a,b,c,d,e) with dimmer switches.
3. Lighting in primary (a) and secondary (b) daylight zones will continuously dim based on daylight contribution to maintain a consistent FC at task level.
4. Lighting auto 50% off within 20 minutes of occupants leaving each zone
5. All lighting and receptacles 100% off at end of business day via time clock

DESIGN CONSIDERATIONS

- BMS Integration and Demand Response functions are enabled by using a NX bridge for connectivity.
- System Configuration Tools:
 - Standalone rooms use the NX Lighting Controls APP (Apple or Android)
 - Networked rooms NX Area Controller (NXAC)

QTY	SYMBOL LIST
1	 NETWORK BRIDGE
1	 ROOM CONTROLLER 1 RELAY
2	 SWITCH-ON/OFF/RAISE/LOWER
16	 INTEGRATED FIXTURE CONTROL OCC AND DAYLIGHT SENSOR

