# Columbia
## LIGHTING

# LTGR14
### 1' × 4' LED Specification Grade Architectural Recessed

## PROJECT INFORMATION

Project Name

Type

Catalog No.

Date

## COMPATIBLE WITH:

**NX DISTRIBUTED™ INTELLIGENCE**

## INTERACTIVE MENU

- Ordering Guide
- Product Availability Tables
- Photometric Data
- Dimensional Data

## HUBBELL CONTROL SOLUTIONS

- NX™ In-Fixture Solution Guide

## EXTERNAL LINKS

- NX Distributed Intelligence Brochure

## FEATURES

- Two architecturally styled lens options
- High efficiency acrylic center lens features linear prisms for high performance without pixelation
- Appropriate for offices, schools, medical, and public spaces
- High performance reflector with matte white paint standard
- 60,000 hour LEDs at L80 (up to 150,000 projected life) for reduced maintenance
- LED modules and electrical accessible from below
- QR code traceability
- Compatible with Dual-Lite inverters
- Air return option
- NX Distributed Intelligence™ provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments
- DLC® (DesignLights Consortium) Qualified - see www.designlights.org
- Five year warranty (Terms and Conditions apply)

DLC QPL LISTED™     c CSA us ®     Built to UL 924 Standards

# LTGR14

## CONSTRUCTION
Luminaire housing, reflectors and end caps are die formed code gauge cold rolled steel. High transmission extruded acrylic enclosed lens features linear prisms with custom frost for high efficacy without pixelation.

## SHIELDING
Removable lens for easy access to LED module and electrical components.

## FINISH
All reflective surfaces are finished after fabrication with unique formula high reflectivity matte white paint for soft, uniform indirect illumination.

## INSTALLATION
An access plate is furnished with each luminaire for fast wiring access without the necessity to open the fixture or wireway.

## IC RATING
IC label is standard for recessed products. Note that IC label is void on VL and XL if product is installed on site with through wiring or for air return fixtures.

## CEILING COMPATIBILITY
Luminaire fits recessed exposed Grid ceilings (G); four integral NEC compliant T-bar clips are standard. Can be placed in Slot Grid (SG) style ceiling with regress ⅜" above ceiling plane. A Flange Kit (FK) accessory is available for recessed hard ceiling applications. Surface Mount (SM) option allows placement below ceiling plane. Cable Mount (CM) option allows suspension below ceiling plane.

## CERTIFICATION
All luminaires are built to UL1598 and 2108 standards, and bear appropriate CSA labels. Damp location label standard. Emergency-equipped fixtures labeled and CSA certified to UL 924 and Dry Location unless specified. Adheres to LM79, LM80, and TM21 industry standards. DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org

## WARRANTY
Five year warranty (Terms and Conditions apply).

**HUBBELL Lighting**

## ORDERING INFORMATION

**EXAMPLE LTGR14-35MLG-R-ESDU**

**YOUR ORDER** | LTGR14 – | – | – | – |

**LTGR 14 –**

| MODEL | SIZE | COLOR TEMPERATURE | LUMEN OUTPUT | CEILING TYPE | SHIELDING |
|---|---|---|---|---|---|
| **LTGR** LED Specification Grade Recessed Architectural | **14** 1' × 4' | **30** 3000K<br>**35** 3500K<br>**40** 4000K<br>**50** 5000K | **XW** Extra Low Watt<br>**VW** Very Low Watt<br>**MW** Medium Low Watt<br>**LW** Low Watt<br>**ML** Medium Lumen<br>**HL** High Lumen<br>**VL** Very High Lumen[13]<br><br>See Product Availability Table below. | **G** Grid Lay-in[1]<br>**SM** Surface Mount[2,11]<br>**CM** Cable Suspended Mount[2,3] | **C** Curve<br>**R** Rectangular |

**– –**

| AIR FUNCTION | DRIVER | VOLTAGE | OPTIONS | CONTROL OPTIONS |
|---|---|---|---|---|
| **Blank** Static<br>**A** Air Return Side Slots | **E** Fixed Output[10]<br>**ED** 0-10V Dimming<br>**ED1** 0-10V 1% Dimming<br>**ESD** Step Dimming[4,10]<br>**LUTH** Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology[4,5,10]<br>**LUT5** 5-Series EcoSystem LED driver[4,5,10] | **U** 120V-277V<br>**347** 347V | **ELL14** Emergency Battery Pack Installed, 1400 Lumens[4,5]<br>**C388** 3-Wire Flex[12]<br>**C488** 4-Wire Flex[12]<br>**C588** 5-Wire Flex[12]<br>**GLR** Fast Blow Fuse<br>**EOR** End of Row (SM and CM only. Provides end wiring access for continuous row mounting.)[2]<br>**INT** Intermediate (SM and CM only. Provides ends with wiring access for continuous row mounting.)[2]<br>**CP** Chicago Plenum | **NXE** NX Enabled, Dual SmartPorts[9,10,11]<br>**NXWE** NX Wireless Enabled[9,10,11,12]<br>**LV** Lutron Vive Attached FCJS POWPAK Fixture Control (RF only for 0–10V drivers)[6,7,8] |

| ACCESSORIES (ORDER SEPARATELY) | |
|---|---|
| **FK14** | 1' × 4' Single Flange Kit (Shipped separately) |
| **CM48Y1SC3F48** | Cable Mount Kit for 1' wide Cable Mount fixtures, 3 Wire |

[1] For drywall, order G with Flange Kit Accessory.
[2] Not available with Air Return (A) air function
[3] Order hanger accessories separately
[4] Not available in 347V
[5] For compatability with Dual-Lite LiteGear® inverters, contact Hubbell Lighting Representative
[6] Not available with ESD, LUTH or LUT5
[7] VIVE is a trademark of Lutron Electronics Co., Inc.
[8] Installations controlled solely by the Lutron Pico controller require accessing the LV (Lutron FCJS) module for commissioning after the circuit has been energized.

**NX In-Fixture Control Options:**
[9] NX controls can only be used with NX Sensor options.
[10] NX is available with ED and ED1 drivers only.
[11] NXSW and NXWE cannot be used with surface mount versions.
[12] For NX control and Flex Wire consult factory
[13] NX control system not available with VL lumen output

For questions about configuration options, contact Hubbell Representative.

| DRIVER AVAILABILITY | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **XW** | **VW** | **MW** | **LW** | **ML** | **HL** | **VL** |
| E | X | X | X | X | X | X | X |
| ED | X | X | X | X | X | X | X |
| ED1 | X | X | X | X | X | X | X |
| ESD | | | X | X | X | X | X |
| LUT5 | | X | X | X | X | | |
| LUTH | | X | X | X | X | | |

*LUT5 and LUTH not available in 347V

| PRODUCT AVAILABILITY | | | | |
|---|---|---|---|---|
| SIZE | LUMEN PACKAGE | NOMINAL LUMENS | NOMINAL WATTS | LUMENS PER WATT |
| 14 | XW | 2400-2600 | 21 | 113-123 |
| 14 | VW | 3000-3250 | 27 | 113-123 |
| 14 | MW | 3450-3750 | 31 | 113-122 |
| 14 | LW | 4350-4725 | 36 | 120-131 |
| 14 | ML | 4700-5100 | 40 | 117-127 |
| 14 | HL | 5600-6100 | 48 | 118-128 |
| 14 | VL | 6775-8100 | 61 | 112-1 |

Nominal lumen range represents 3000K through 5000K. Lumens vary according to color temperatures and other factors. See specific photometric test(s).

**HUBBELL** Lighting

## PHOTOMETRIC DATA

### LUMINAIRE DATA

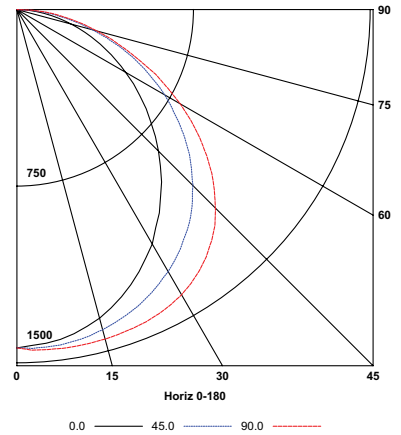| | |
|---|---|
| Luminaire | LTGR14-35LWx-R-EDU **LTGR LED Recessed Architectural 1 x 4 with Rectangular Prismatic Lens** |
| Ballast | XI040C110V054BPT1 |
| Ballast Factor | 1.00 |
| Lamp | LED |
| Fixture Lumens | 4445 |
| Watts | 36.30 |
| Mounting | Recessed |
| Shielding Angle | 0º = 90   90º = 90 |
| Spacing Criterion | 0º = 1.19   90º = 1.44 |
| Luminous Opening in Feet | Length: 3.92 Width: 0.88 Height: 0.00 |

### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Lamp | % Fixt. |
|---|---|---|---|
| 0-30 | 1147 | 25.8 | 25.8 |
| 0-40 | 1904 | 42.8 | 42.8 |
| 0-60 | 3434 | 77.3 | 77.3 |
| 0-90 | 4445 | 100.0 | 100.0 |
| 0-180 | 4445 | 100.0 | 100.0 |

### ENERGY DATA

| | |
|---|---|
| Total Luminaire Efficiency | 100.0% |
| Total Lumens per Watt | 122 |
| IESNA RP-1-2004 Compliance | Non-Compliant |
| Comparative Yearly Lighting Energy Cost per 1000 Lumens | $1.95 based on 3000 hrs. and $0.08 per KWH |

### INDOOR CANDELA PLOT



0.0 —— 45.0 ········· 90.0 ------

### LUMINAIRE DATA

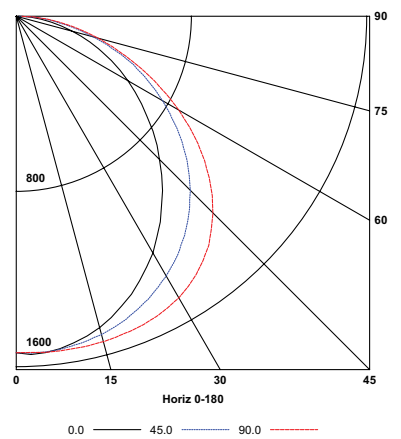| | |
|---|---|
| Luminaire | LTGR14-35MLx-R-EDU **LTGR LED Recessed Architectural 1 x 4 with Rectangular Prismatic Lens** |
| Ballast | XI040C110V054BPT1 |
| Ballast Factor | 1.00 |
| Lamp | LED |
| Fixture Lumens | 4779 |
| Watts | 40.00 |
| Mounting | Recessed |
| Shielding Angle | 0º = 90   90º = 90 |
| Spacing Criterion | 0º = 1.21   90º = 1.43 |
| Luminous Opening in Feet | Length: 3.92 Width: 0.90 Height: 0.00 |

### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Lamp | % Fixt. |
|---|---|---|---|
| 0-30 | 1226 | 25.7 | 25.7 |
| 0-40 | 2036 | 42.6 | 42.6 |
| 0-60 | 3675 | 76.9 | 76.9 |
| 0-90 | 4779 | 100.0 | 100.0 |
| 0-180 | 4779 | 100.0 | 100.0 |

### ENERGY DATA

| | |
|---|---|
| Total Luminaire Efficiency | 100.0% |
| Total Lumens per Watt | 119 |
| IESNA RP-1-2004 Compliance | Non-Compliant |
| Comparative Yearly Lighting Energy Cost per 1000 Lumens | $2.02 based on 3000 hrs. and $0.08 per KWH |

### INDOOR CANDELA PLOT



0.0 —— 45.0 ········· 90.0 ------

### LUMINAIRE DATA

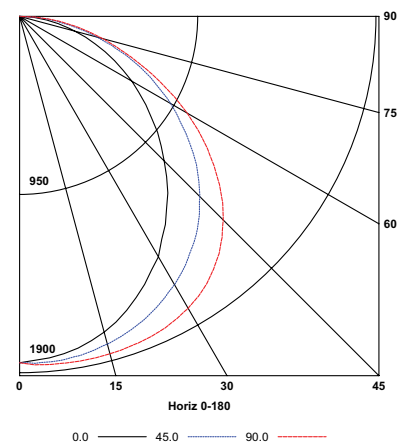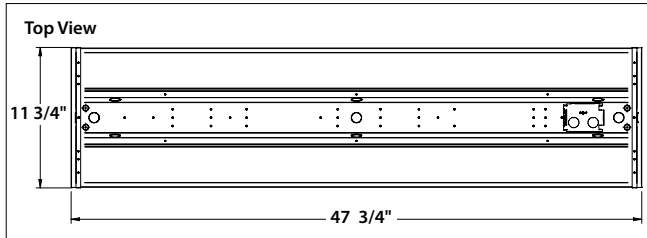| | |
|---|---|
| Luminaire | LTGR14-35HLx-R-EDU **LTGR LED Recessed Architectural 1 x 4 with Rectangular Prismatic Lens** |
| Ballast | XI054C150V054DNT1 |
| Ballast Factor | 1.00 |
| Lamp | LED |
| Fixture Lumens | 5717 |
| Watts | 47.50 |
| Mounting | Recessed |
| Shielding Angle | 0º = 90   90º = 90 |
| Spacing Criterion | 0º = 1.19   90º = 1.44 |
| Luminous Opening in Feet | Length: 3.92 Width: 0.88 Height: 0.00 |

### ZONAL LUMEN SUMMARY

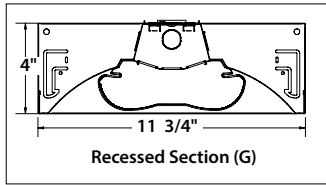| Zone | Lumens | % Lamp | % Fixt. |
|---|---|---|---|
| 0-30 | 1474 | 25.8 | 25.8 |
| 0-40 | 2448 | 42.8 | 42.8 |
| 0-60 | 4416 | 77.2 | 77.2 |
| 0-90 | 5717 | 100.0 | 100.0 |
| 0-180 | 5717 | 100.0 | 100.0 |

### ENERGY DATA

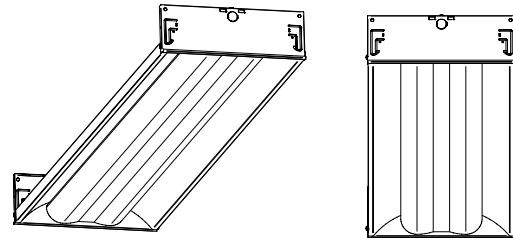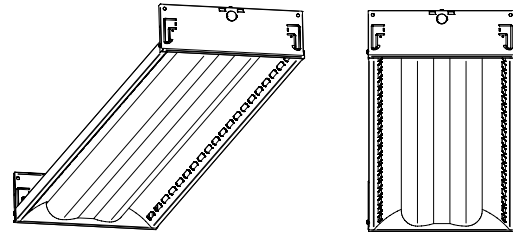| | |
|---|---|
| Total Luminaire Efficiency | 100.0% |
| Total Lumens per Watt | 120 |
| IESNA RP-1-2004 Compliance | Non-Compliant |
| Comparative Yearly Lighting Energy Cost per 1000 Lumens | $2.02 based on 3000 hrs. and $0.08 per KWH |

### INDOOR CANDELA PLOT



0.0 —— 45.0 ········· 90.0 ------

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## DIMENSIONAL DATA — GRID

4"

11 3/4"

**Recessed Section (G)**

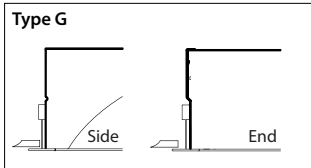**Top View**

11 3/4"

47 3/4"

## GRID, STATIC

## GRID, AIR RETURN

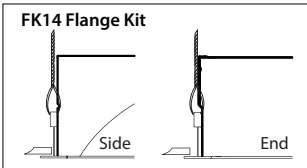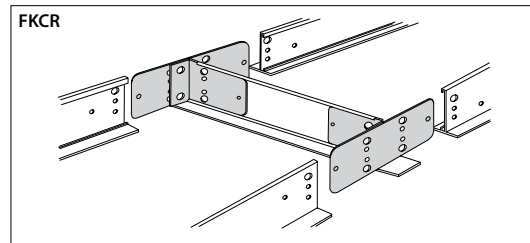## CEILING COMPATIBILITY

**Type G**

Side          End

For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.

**FK14 Flange Kit**

Side          End

For hard ceiling applications, order FK14 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.
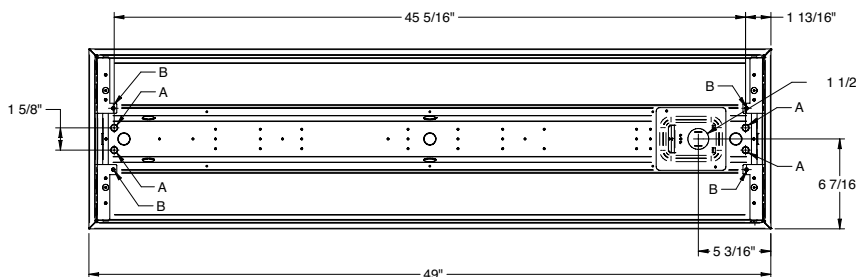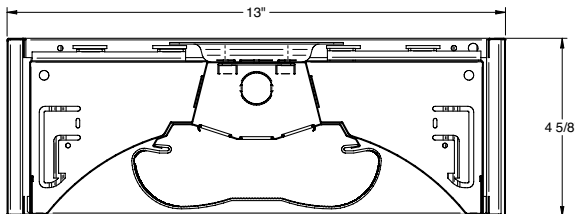
**FKCR**

For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK14 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK14 & (1) FKCR)

Row cut out dimensions using FK14s & FKCR adapters:
Width 12⅜", Length [48" × (# in row)] + ⅜".
Example: (48" × 2) + ⅜" = 96⅜"

**Flange kit cut out dimension for single unit only: 12⅜" × 48⅜"**

## DIMENSIONAL DATA — SURFACE MOUNT OR CABLE MOUNT, STATIC ONLY

13"

4 5/8"

45 5/16"

1 13/16"

1 5/8"

B
A

B
A

A

1 1/2"

A

6 7/16"

B

49"

5 3/16"

**Surface Mount:**

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, ⅜", provided in center channel as indicated at left, marked A.

**Cable Mount:**

Order CM ceiling type. Use CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide SM trim fixtures. Mounting holes are provided in diagonal straps shown at left, marked B.

**NOTE:** All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

**HUBBELL** **HUBBELL** Lighting

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**Control Solutions**

**NX DISTRIBUTED INTELLIGENCE**

## NX DISTRIBUTED INTELLIGENCE™ IN-FIXTURE SOLUTION GUIDE

NX Distributed Intelligence enables Hubbell's portfolio of commercial, industrial and architectural luminaires to further reduce energy consumption and total cost of ownership for simple to complex control environments.

NX-enabled luminaires provides you the breadth and flexibility to address all your project requirements today and in the future. For a complete list of luminaires with integrated NX options please visit our website.

| NX Distributed Intelligence™ In-Fixture Options | | | |
|---|---|---|---|
| **NX CONTROL OPTIONS** | **DESCRIPTOR** | **CONNECTIVITY** | **APPLICATION SPACE** |
| NXSP14F | NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' | Standalone | Both |
| NXSPL | NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, Low Mount | Standalone | Indoor |
| NXOS | NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, OMNI | Standalone | Indoor |
| NXS | NX, PIR Occupancy Sensor, Dimming Daylight Harvesting | Standalone | Indoor |
| NXSPH | NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, High Mount | Standalone | Indoor |
| NXSP30F | NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' | Standalone | Outdoor |
| NXESPL | NX Enabled, PIR Occupancy Sensor, Dimming Daylight Harvesting, Low Mount | Wired | Indoor |
| NXE | NX Enabled, Dual SmartPorts | Wired | Indoor |
| NXEOS | NX Enabled, PIR Occupancy Sensor, Dimming Daylight Harvesting, OMNI | Wired | Indoor |
| NXES | NX Enabled, PIR Occupancy Sensor, Dimming Daylight Harvesting | WIred | Indoor |
| NXESPH | NX Enabled, PIR Occupancy Sensor, Dimming Daylight Harvesting, High Mount | Wired | Indoor |
| NXSPW14F | NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' | Wireless | Both |
| NXWE | NX Wireless Enabled | Wireless | Both |
| NXSPWL | NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, Low Mount | Wireless | Indoor |
| NXOSW | NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, OMNI | Wireless | Indoor |
| NXSPWH | NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, High Mount | Wireless | Indoor |
| NXSW | NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting | Wireless | Indoor |
| NXSPW30F | NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' | Wireless | Outdoor |

**Visit www.hubbellcontrolsolutions.com for additional information on the NX platform. For information on NX options available with specific Hubbell Lighting luminaires please reference specification sheets.**

| NX Distributed Intelligence™ Accessories | |
|---|---|
| **CATALOG NO.** | **DESCRIPTOR** |
| NXAC-120 | NX Area Controller, NEMA 1, HubbNET, BACnet, 120 Volt |
| NXHNB | NX Network Bridge Module |
| NXRC-2RD-UNV | NX Room Controller, 2 Relay, 0 - 10V Dimming, Power Monitoring, Universal Voltage |
| NXOFM-1R1D-UNV | On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC |
| NXSW-CCT-xx | NX Digital CCT Scene Switch, 6 Buttons, 4 Presets, Raise/Lower |
| NXSW-SS-xx | NX Digital Scene Switch, 6 Buttons, 4 Presets, Raise/Lower |
| NXSW-ORLO-xx | NX Digital Switch Station, On/Raise/Lower/Off |
| NXSW-RL-xx | NX Digital Switch Station, 2 Buttons, Raise/Lower |
| NXSW-OO-xx | NX Digital Switch Station, On/Off |
| NXSW-TO-xx | NX Digital Switch Station, Timed-On, Pilot |

Note: 'xx' = color; Black (BK), Gray (GY), Ivory (IV), Light Almond (LA), Red (RD), White (blank).

## NX USER INTERFACES

Wall stations for personalized control of light and color

NX mobile app offers user-friendly configuration tool

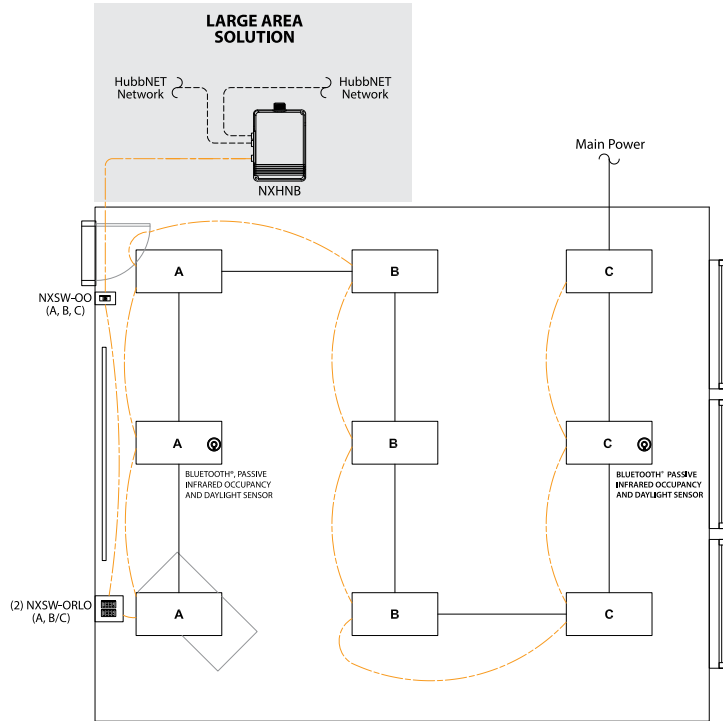Area Controller GUI provides simple and intuitive programming
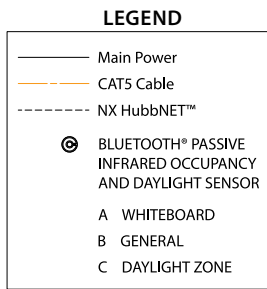
Android

Apple

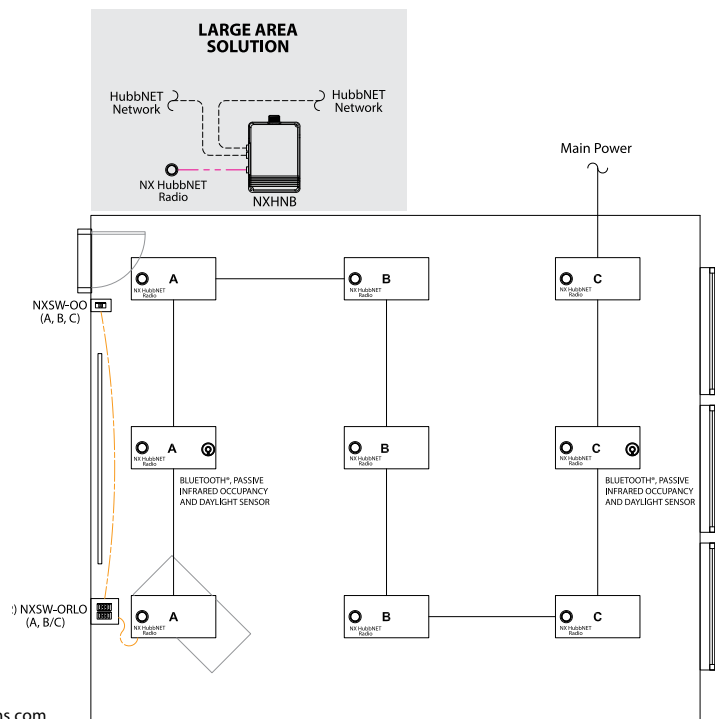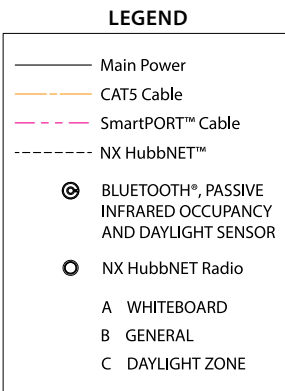Free Bluetooth® enabled mobile app for ease of configuration

**HUBBELL** Lighting

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**Control Solutions**

**NX DISTRIBUTED INTELLIGENCE**™

## TYPICAL **NX** DISTRIBUTED INTELLIGENCE™ LAYOUT FOR WIRELESS OR WIRED NETWORKED IN-FIXTURE CONTROL

**Vertical Market:** Education
**Application:** Classroom
**Connectivity:** Wired



**LARGE AREA SOLUTION**

**LEGEND**

| | |
|---|---|
| —— | Main Power |
| —·— | CAT5 Cable |
| ------ | NX HubbNET™ |
| ⊚ | BLUETOOTH® PASSIVE INFRARED OCCUPANCY AND DAYLIGHT SENSOR |
| A | WHITEBOARD |
| B | GENERAL |
| C | DAYLIGHT ZONE |

**Vertical Market:** Education
**Application:** Classroom
**Connectivity:** Wireless



**LARGE AREA SOLUTION**

**LEGEND**

| | |
|---|---|
| —— | Main Power |
| —·— | CAT5 Cable |
| – – – | SmartPORT™ Cable |
| ------ | NX HubbNET™ |
| ⊚ | BLUETOOTH®, PASSIVE INFRARED OCCUPANCY AND DAYLIGHT SENSOR |
| ⭘ | NX HubbNET Radio |
| A | WHITEBOARD |
| B | GENERAL |
| C | DAYLIGHT ZONE |

For additional solutions possible with NX please visit www.hubbellcontrolsolutions.com to view our Vertical Market Application Guides.

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