



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

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

COMPATIBLE WITH:



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)



LTGR22

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 if product is installed on site with a step-dimming (ESD) driver plus 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 3/8" 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).

ORDERING INFORMATION

EXAMPLE LTGR22-35HLG-C-ESDU

YOUR ORDER LTGR22- - - -

LTGR		22	-		-		
MODEL	SIZE	COLOR TEMPERATURE		LUMEN OUTPUT		CEILING TYPE	SHIELDING
LTGR LED Specification Grade Recessed Architectural	22 2' x 2'	30	3000K	VW	Very Low Watt	G	Grid Lay-in ¹
		35	3500K	MW	Medium Low Watt	SM	Surface Mount ^{2,11}
		40	4000K	LW	Low Watt	CM	Cable Suspended Mount ^{2,3}
		50	5000K	ML	Medium Lumen		
				HL	High Lumen		
				VL	Very High Lumen ¹³		

See Product Availability Table below.

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

ACCESSORIES (ORDER SEPARATELY)

FK22 2' x 2' Single Flange Kit (Shipped separately)

CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide Cable Mount fixtures, 3 Wire

¹For drywall, order G with Flange Kit Accessory.

²Not available with Air Return (A) air function

³Order hanger accessories separately

⁴Not available in 347V

⁵For compatibility with Dual-Lite LiteGear[®] inverters, contact Hubbell Lighting Representative

⁶Not available with ESD, LUTH or LUT5

⁷VIVE is a trademark of Lutron Electronics Co., Inc.

⁸Installations 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:

⁹NX controls can only be used with NX Sensor options.

¹⁰NX is available with ED and ED1 drivers only.

¹¹NXSW and NXWE cannot be used with surface mount versions.

¹²For NX control and Flex Wire consult factory

¹³NX control system not available with VL lumen output

For questions about configuration options, contact Hubbell Representative.

DRIVER AVAILABILITY						
	VW	MW	LW	ML	HL	VL
E	X	X	X	X	X	X
ED	X	X	X	X	X	X
ED1	X	X	X	X	X	X
ESD		X	X	X	X	X
LUT5		X	X	X		
LUTH		X	X	X		

*LUT5 and LUTH not available in 347V

PRODUCT AVAILABILITY				
SIZE	LUMEN PACKAGE	NOMINAL LUMENS	NOMINAL WATTS	LUMENS PER WATT
22	VW	1525-1675	14	108-117
22	MW	2025-2200	19	107-116
22	LW	2750-3000	24	114-124
22	ML	3125-3400	29	110-119
22	HL	3575-3875	32	113-122
22	VL	4150-4950	38	110-131

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

Test #15864 Test Date 2/18/2016

PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	LTGR22-35LWx-R-EDU LTGR LED Recessed Architectural 2 x 2 with Rectangular Prismatic Lens
Ballast	XI040C110V054BPT1-C
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	2816
Watts	24.30
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.19 90° = 1.57
Luminous Opening in Feet	Length: 1.92 Width: 1.90 Height: 0.00

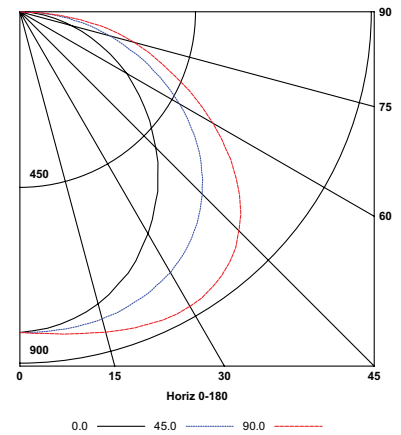
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	672	23.9	23.9
0-40	1134	40.3	40.3
0-60	2110	74.9	74.9
0-90	2816	100.0	100.0
0-180	2816	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	116
IESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.05 based on 3000 hrs. and \$0.08 per KWH

INDOOR CANDELA PLOT



Test #15865 Test Date 2/18/2016

LUMINAIRE DATA

Luminaire	LTGR22-35MLx-R-EDU LTGR LED Recessed Architectural 2 x 2 with Rectangular Prismatic Lens
Ballast	XI040C110V054BPT1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	3186
Watts	28.50
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.22 90° = 1.58
Luminous Opening in Feet	Length: 1.92 Width: 1.92 Height: 0.00

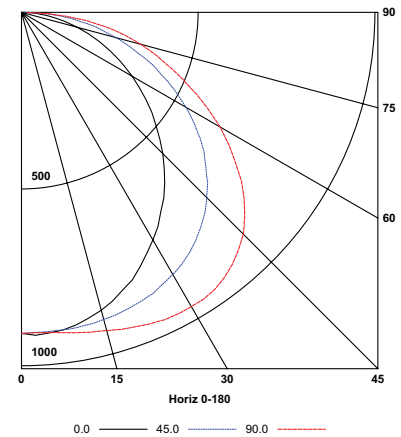
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	746	23.4	23.4
0-40	1263	39.6	39.6
0-60	2364	74.2	74.2
0-90	3186	100.0	100.0
0-180	3186	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	112
IESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.11 based on 3000 hrs. and \$0.08 per KWH

INDOOR CANDELA PLOT



Test #15943 Test Date 2/25/2016

LUMINAIRE DATA

Luminaire	LTGR22-35HLx-R-EDU LTGR LED Recessed Architectural 2 x 2 with Rectangular Prismatic Lens
Ballast	XI040C110V054BPT1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	3640
Watts	31.80
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.20 90° = 1.56
Luminous Opening in Feet	Length: 1.92 Width: 1.92 Height: 0.00

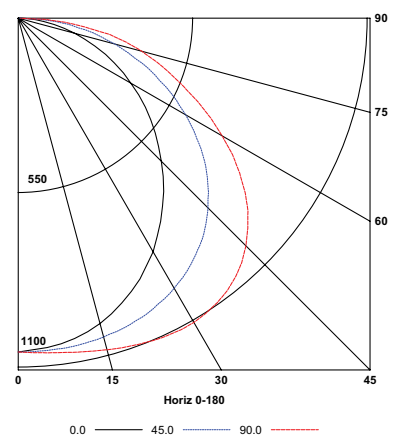
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	860	23.6	23.6
0-40	1450	39.8	39.8
0-60	2707	74.4	74.4
0-90	3640	100.0	100.0
0-180	3640	100.0	100.0

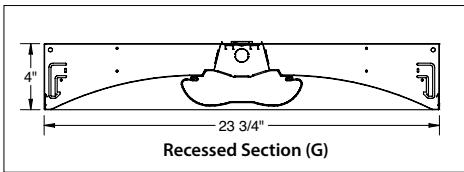
ENERGY DATA

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	114
IESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.11 based on 3000 hrs. and \$0.08 per KWH

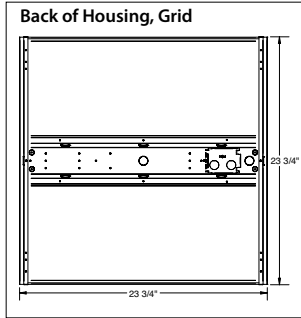
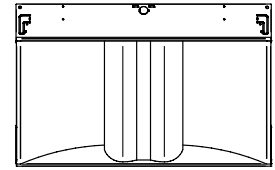
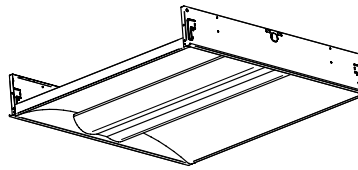
INDOOR CANDELA PLOT



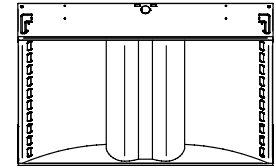
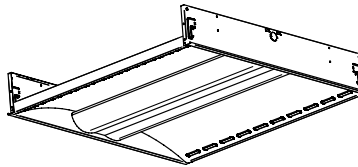
DIMENSIONAL DATA — GRID, STATIC



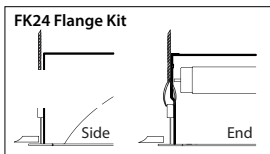
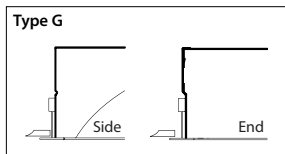
GRID, STATIC



GRID, AIR RETURN

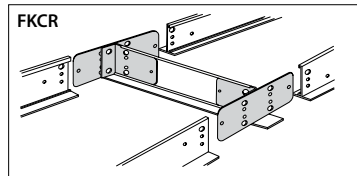


CEILING COMPATIBILITY



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

For hard ceiling applications, order FK22 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.



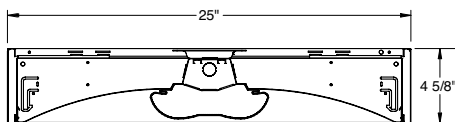
For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK22 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK22 & (1) FKCR)

Row cut out dimensions using FK22s & FKCR adapters:
Width $24\frac{3}{8}$ ", Length $[24" \times (\# \text{ in row})] + \frac{3}{8}"$.
Example: $(24" \times 2) + \frac{3}{8}" = 48\frac{3}{8}"$

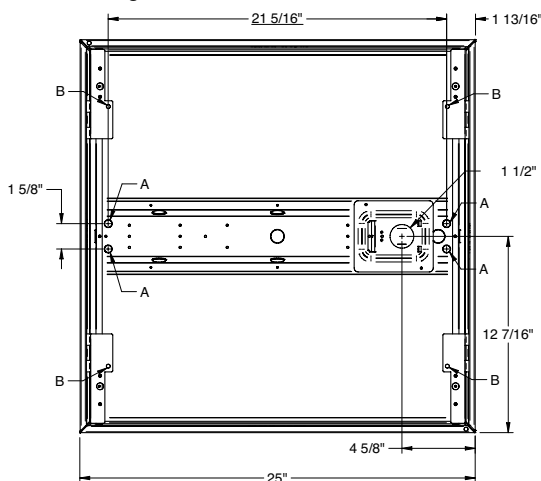
Flange kit cut out dimension for single unit only: $24\frac{3}{8}" \times 24\frac{3}{8}"$

DIMENSIONAL DATA — SURFACE MOUNT & CABLE MOUNT, STATIC ONLY

Surface Section (SM)



Back of Housing, Surface Mount (SM) and Cable Mount (CM)



Surface Mount:

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, $\frac{3}{8}"$, 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 CM fixtures. Mounting holes are provided in diagonal straps shown at left, marked B.

* For Cable Mount a 2" x 3" access plate with (4) $\frac{7}{8}"$ KOs provided in place of Mounting Collar shown.

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

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
NXEPL	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



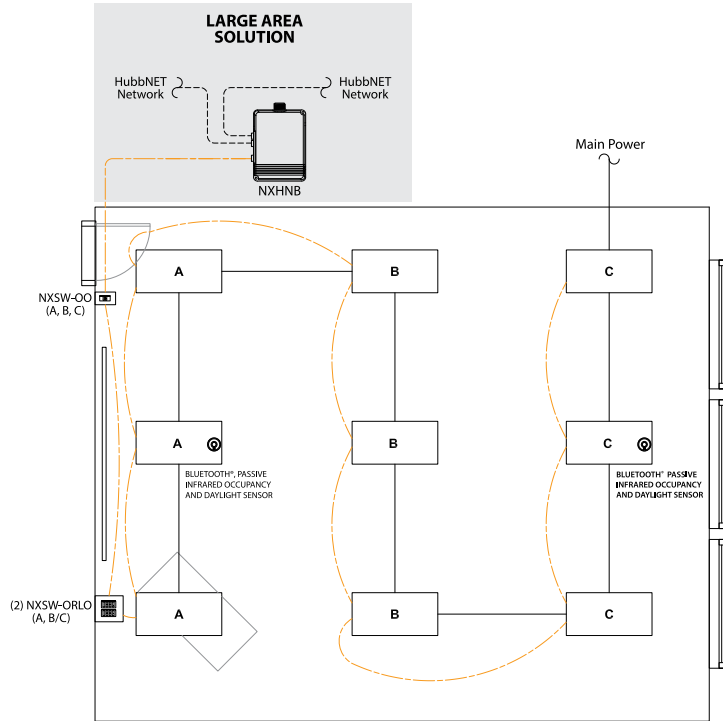
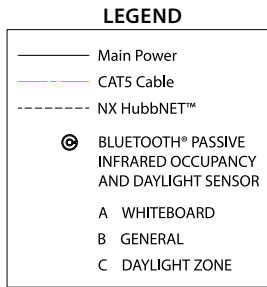
Free Bluetooth® enabled mobile app for ease of configuration

Apple

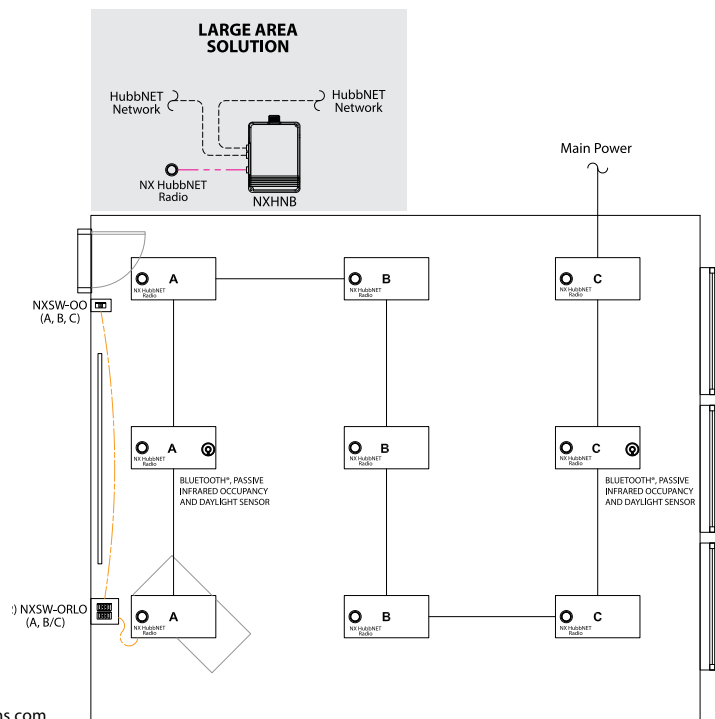
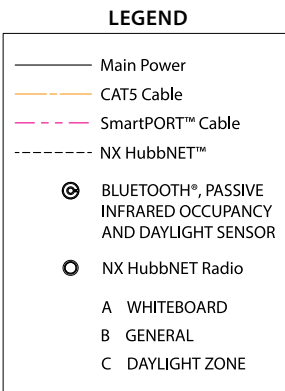


TYPICAL NX DISTRIBUTED INTELLIGENCE™ LAYOUT FOR WIRELESS OR WIRED NETWORKED IN-FIXTURE CONTROL

Vertical Market: Education
Application: Classroom
Connectivity: Wired



Vertical Market: Education
Application: Classroom
Connectivity: Wireless



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