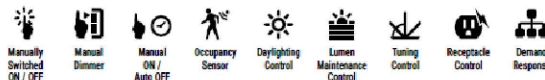


Wireless Connected Lighting

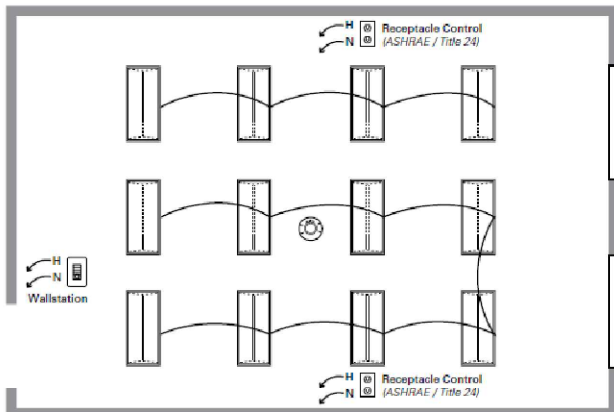
WaveLink Connected Lighting

Classroom

example 5



	IECC 2018	ASHRAE 90.1 - 2019	T24 2019	NECB 2017
Manually Switched ON / OFF	*	*	*	*
Manual Dimmer	*	*	*	*
Manual ON / Auto OFF	*	*	*	*
Occupancy Sensor	*	*	*	*
Daylighting Control	*	*	*	*
Lumen Maintenance Control	*	*	*	*
Tuning Control	*	*	*	*
Receptacle Control	*	*	*	*
Demand Response	*	*	*	*



Sequence of Operations

Lighting

- 0-10V lighting loads
- Up to 3 dimmable zones
- Out of the box 75% high end trim

Occupancy

- Automatic auto on to 50%
- Optional vacancy mode
- Optional auto on to scene
- Optional Plug load turns on with occupancy
- Automatic off of lighting and plug load on vacancy

Daylighting

- Continuous dimming to off
- Individual luminaire daylight dimming to approximately 500 lux
- Daylighting not required for indoor spaces
- Not required in spaces without windows or that are less than 150W

Manual Controls

- Programmable scenes
- Dominant button is 50% light level
- Scene raise / Scene lower
- All off

Additional Features

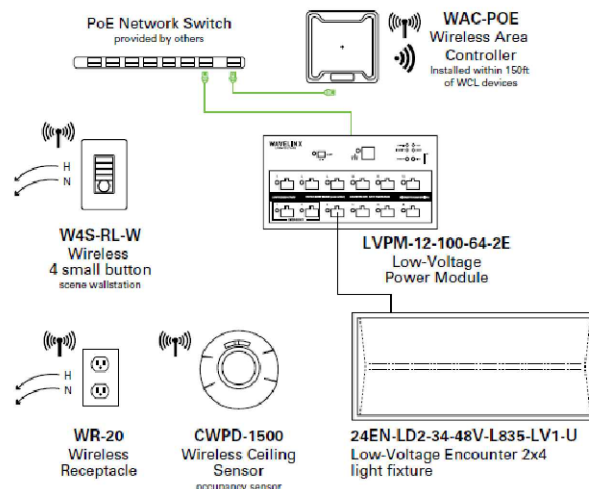
- Energy calculations (available through Trellix)
- Automatic demand response through wireless area controller
- Scheduling of partial off light levels from wireless area controller
- UL924 emergency control capabilities via luminaire battery backup or EM panel integration with LVPM
- Complies with Enhanced Digital Lighting Control section C406

Bill of Material

Quantity	Catalog #	Description
1	WAC-POE	Wireless Area Controller
1	CWPD-1500	WaveLink ceiling sensor
1	W4S-RL-W	WaveLink Wallstation
2	WR-20	WaveLink Receptacle (ASHRAE / Title 24)
12	24EN-LD2-34-48V-L835-LV1-U	Low-Voltage Encouter 2x4
1	LVPM-12-100-64-2E	WaveLink 1200W Low-Voltage Power Module
6	LVC-xxP	Low-Voltage Lighting Cable, xxft
6	LVC-xxP	Low-Voltage Lighting Cable, xxft

Design Consideration	Best Practice	Maximum
Gateway / Wireless Area Controller range	150 ft LOS	300 ft
Number of interior walls	2 walls	3 walls
Distance from Wireless Area Controller to 1st WaveLink device	150 ft	200 ft
Distance between WaveLink devices	75 ft	150 ft
Number of hops from Wireless Area Controller	4 hops	5 hops
Number of areas per Wireless Area Controller	15 + 1 construction area	
Number of zones per area	3	16
Number of scenes per area	16	16

Typical Wiring Detail



	Local Control	Manual ON	Partial ON	Bilevel Lighting	Daylight Side	Daylight Top	Partial OFF	Automatic OFF	Scheduled OFF	Receptacle Control	Energy Monitoring	Parking Garage	Functional Testing	Demand Response	Enhanced Digital
IECC 2018	C405.2.5	C405.2.5	C405.2.2.1.2		C405.2.3.2	C405.2.3.3	C405.2.1.3	C405.2.1.1.1	C405.2.2	C405.2.4		C405.2.6	C408.3		C406.4
ASHRAE 90.1-2019	9.4.1 (a)	9.4.1 (b)	9.4.1 (c)	9.4.1 (d)	9.4.1 (e)	9.4.1 (f)	9.4.1 (g)	9.4.1 (h)	9.4.1 (i)	8.4.2	8.4.3.2	9.4.1.2	9.4.3		C406.4
T24 2019	130.1 (a)(b)	130.1 (a)(b)	130.1 (b)		130.1 (d)	130.1 (d)	130.1 (c).6	130.1 (c).5	130.1 (c)	130.5 (d)	130.5 (b)	130.1 (d)	130.4	130.1 (a)	130.1 (a)
NECB 2017	4.2.2.1.(3)	4.2.2.1.(3), 4.2.2.1.(6)	4.2.2.1 (8)	4.2.2.1.(9)	4.2.2.1.(10)	4.2.2.1.(13)	4.2.4.1. (16-17)	4.2.2.1. (18-19)	4.2.2.1. (20-23)			4.2.2.2 4.2.2.4			