

## DESCRIPTION

6-inch recessed LED for international, remodel or retrofit applications. Offered with open or lensed wall wash reflectors providing glare free, even illumination on vertical surfaces. Featuring a two-stage diffused reflector system producing smooth distribution with excellent light control and low aperture brightness. Lumen packages range from 500 to 7000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K. VividTune: Dim-to-warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space. Tunable white technology - adjust the color temperature from warm white to cool white while independently controlling intensity.

## SPECIFICATION FEATURES

### Reflector

Open Wall Wash - wall wash reflector with gradient kicker combined with a lensed upper optical chamber provides superior lumen output, high level vertical illumination with minimal source brightness. Lensed Wall Wash - offered in all Portfolio Alzak® finishes. Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface.

### Plaster Ring

Galvanized steel ring installs with 2 mouse trap springs for secure installation and accommodates up to 2 inch ceiling thickness. Retrofit - Converts existing HID, incandescent or compact fluorescent downlights to energy saving LED. Simple below ceiling installation without removing the existing fixture. Pre-wired flexible conduit with snap in connector installs into 1/2" knockout on the existing junction box. Includes oversize adapter ring.

### Thermal

Aluminum heat sink conducts heat away from the LED module for optimal performance and long life.

### LED

Chip on board with a multitude of highly efficient white LED's, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation. Lumen output shall not decrease by more than 10% over the minimum life of 55,000 hours (L90 > 55,000 hours) Auto resetting, thermally protected, LED's are turned off when safe

operating temperatures are exceeded. Color variation within 2-step MacAdam ellipses. Quick disconnect allows for tool-less replacement of LED engine from below ceiling. Available in 80, 90 or 97 CRI. **D2W™** – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources. **W2N** - Tunable white CCT range 2700K to 6500K or 2000K to 5000K, 90 CRI.

### Driver

Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%. Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

### Connected Lighting System Options

Two WaveLinX connected systems to choose from. Refer to WaveLinX system specifications and application guides for details.

### WaveLinX Wireless System Tilemount Sensor Kit

- WaveLinX Wireless WTA tile mount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

### WaveLinX Lite System Tilemount Sensor Kit

- WaveLinX Lite WTK tile mount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

### WaveLinX Tilemount Kits Application

- The WTA and WTK tilemount kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

### Code Compliance

Thermally protected and cULus listed for damp locations with covered ceiling. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. 2000 lumen and above are Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1500 lumens. 5000 lumen is marked spacing and must follow spacing requirements. RoHS Compliant. Photometric testing completed in accordance with IES LM 79. Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.

- Options to meet Trade Agreements Act requirements

### Warranty

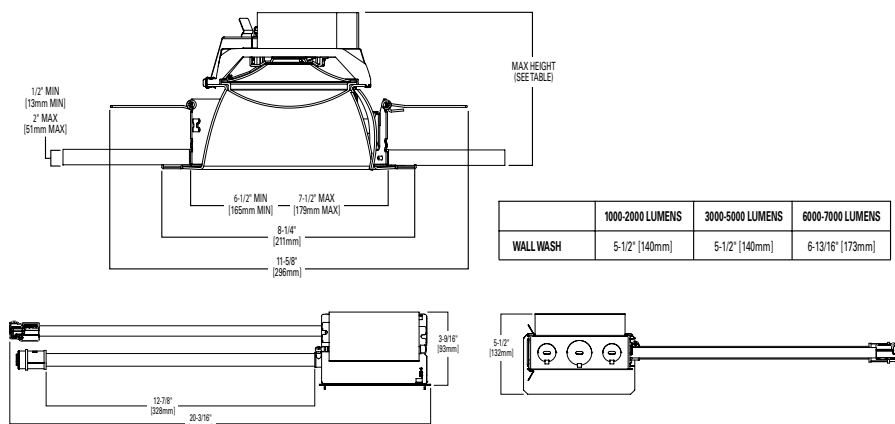
5-year warranty



**LDRT67B  
EU6B  
6LBSW 6LBDW  
6LBCW 6LBLWW**

500 - 7000 Lumens LED

Single, Double or Corner  
Open Wall Wash  
Lensed Wall Wash  
International, Remodel, Retrofit



## SAMPLE NUMBER: LDRT6B15D010EMBOD

Domestic Preferences <sup>14</sup>	Housing	Lumens <sup>1</sup>	Voltage	Driver	Options <sup>3</sup>
[Blank]=Standard TAA=Trade Agreements Act	LDRT6TB=LED Downlight Retrofit for 6-1/2" to 7-5/8" openings <sup>9</sup> LDRT6B=LED Downlight Retrofit for 6-1/2" to 7-5/8" openings, Chicago Plenum <sup>5</sup>	05=500 lumens <sup>13</sup> 10=1000 lumens 15=1500 lumens 20=2000 lumens 30=3000 lumens 40=4000 lumens 50=5000 lumens <sup>5</sup> 60=6000 lumens <sup>5</sup> 70=7000 lumens <sup>5</sup>	Blank=120-277V 3=347V (step down transformer)	<b>500 - 4000 Lumen</b> <b>D010</b> =0-10V Dimming, 1% to 100%, 120V-277V <b>D010TR</b> =0-10V or Line Voltage Dimming, 5% to 100%, 120V-277V <b>DE010</b> =0-10V Linear Dimming, 0% to 100%, 120V-277V <b>D5LT</b> =Fifth Light® DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V <b>DMX</b> =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V <sup>8</sup> <b>DMXC5</b> =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, with RJ45 connection <b>DL2</b> =Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only <b>DLE</b> =Lutron Ecosystem dimming 1% to 100%, 120V-277V <b>DLV</b> =Low voltage dimming driver (1-100%) for use with DLVP system (2000 lumen and below) <sup>9</sup> <b>5000, 6000, and 7000 Lumen</b> <b>D010TE</b> =0-10V 1% or Trailing Edge, 10% to 100%, 120V-277V (120V Only for Trailing Edge Dimming) <b>Tunable white 1000-2000 Lumens<sup>10</sup></b> <b>1DE010W2N2050</b> =0-10V dimming, 0% to 100%, 120V, 2000K - 5000K <b>1DE010W2N2765</b> =0-10V dimming, 0% to 100%, 120V, 2700K - 6500K <b>1D5LTW2N2050</b> =Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120, 2000K - 5000K <b>1D5LTW2N2765</b> =Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V, 2700K - 6500K <b>2DE010W2N2050</b> =0-10V dimming, 0% to 100%, 277V, 2000K - 5000K <b>2DE010W2N2765</b> =0-10V dimming, 0% to 100%, 277V, 2700K - 6500K <b>2D5LTW2N2050</b> =Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 277V, 2000K - 5000K <b>2D5LTW2N2765</b> =Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 277V, 2700K - 6500K	<b>EMBOD</b> =Bodine® Emergency Module with Remote Test Switch <sup>3</sup> <b>EMBOD7ST</b> =Bodine® Emergency Module with Self Test Remote Test Switch <b>EM7</b> =7W Emergency Module with Remote Test Switch <sup>3, 4</sup> <b>EM14</b> =14W Emergency Module with Remote Test Switch <sup>3, 4</sup> <b>WTA</b> = Factory installed WaveLinX sensor Kit <sup>9, 11</sup> <b>WTK</b> = Factory installed WaveLinX Lite Sensor Kit <sup>9, 12</sup>

## SAMPLE NUMBER: EU6B10208035

Domestic Preferences <sup>14</sup>	Power Module	Lumen Levels <sup>1</sup>	CRI	Color
[Blank]=Standard TAA=Trade Agreements Act	EU6B=6" Universal LED Module	05=500 lumens 1020=1000, 1500, 2000 lumens 3050=3000, 4000, 5000 lumens <sup>5</sup> 6070=6000, 7000 lumens <sup>5</sup> 1015IC=1000, 1500 lumen IC rated	80=80 CRI Minimum 90=90 CRI Minimum 97=97 CRI Minimum	<b>80 CRI</b> 27=2700K 30=3000K 35=3500K 40=4000K 50=5000K <b>90 CRI</b> 24=2400K 27=2700K 30=3000K 35=3500K 40=4000K 50=5000K <b>97 CRI</b> 27=2700K 30=3000K
		<b>Dim 2 Warm</b> 109030D2W=1000 lumen, 90 CRI, Dim 2 Warm, IC rated 159030D2W=1500 lumen, 90 CRI, Dim 2 Warm, IC rated 209030D2W=2000 lumen, 90 CRI, Dim 2 Warm 309030D2W=3000 lumen, 90 CRI, Dim 2 Warm		<b>Tunable white<sup>10</sup></b> 1020W2N902050 =1000, 1500, 2000 lumens, 90 CRI, tunable white 2000K-5000K 1020W2N902765 =1000, 1500, 2000 lumens, 90 CRI, tunable white 2700K-6500K

## SAMPLE NUMBER: 6LBM1LI

Domestic Preferences <sup>14</sup>	Trim	Distribution <sup>5</sup>	Flange	Finish
[Blank]=Standard TAA=Trade Agreements Act	6LB=6" LED	SW=Single Wall Wash DW=Double Wall Wash CW=Corner Wall Wash LWW=Lensed Wall Wash	0=White Polymer Trim Ring 1=Self-flanged <sup>7</sup> 2=White Painted Self-flanged	LI=Specular Clear H=Semi-Specular Clear WMH=Warm Haze WH=Wheat GPH=Graphite Haze B=Specular Black MW=Matte White

Accessories<sup>15</sup>

## Bar Hangers

HB26=C-channel Bar Hanger, 26" Long, Pair  
TAA-HB26=Pair C-channel bar hanger, 26" long<sup>20</sup>  
HB50=C-channel Bar Hanger, 50" Long, Pair  
RMB22=Wood Joist Bar Hanger, 22" Long, Pair

## Transformers

H347=347 to 120V Step Down Transformer, 75VA  
H347200=347 to 120V Step Down Transformer, 200VA

Connected Lighting Systems<sup>3, 9</sup>

WTA = Field installed WaveLinX sensor Kit<sup>11</sup>  
WTK = Field installed WaveLinX Lite Sensor Kit<sup>12</sup>

## Notes:

- Nominal Lumens will vary depending on selected color, driver and reflector finish.
- Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
- Not available with Chicago Plenum.
- ULus listed only
- Product is marked spacing and must be installed with the following minimum spacing.  
Center to center of adjacent luminaires: 36"  
Center of luminaire to side of building member: 18"  
Minimum overhead: 1/2"  
8-9/16" requires ABR8 adapter ring.
- Flange and reflector have the same finish.
- DMX fixtures default to full on upon loss of DMX signal.
- Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory.  
Use with 0-10V driver.
- Non-IC

- WTA = WaveLinX wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
- WTK = WaveLinX Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX Lite system specifications)
- Limited to D010 drivers.
- Only product configurations with this designated prefix are built to be compliant with the Trade Agreements Act of 1979 (TAA). Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
- Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

## ENERGY

ENERGY DATA
Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -30°C (-22°F)
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)
Input Voltage: UNV (120V - 277V)
Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power)
Input Frequency: 50/60Hz

1000 Lumen D010		1500 Lumen D010	
Input Power: 11W	THD: <14%	Input Power: 15.5W	THD: <13%
120V Input Current: 0.09A	277V Input Current: 0.04A	120V Input Current: 0.13A	277V Input Current: 0.06A
2000 Lumen D010		3000 Lumen D010	
Input Power: 21.2W	THD: <9%	Input Power: 27.6W	THD: <10%
120V Input Current: 0.18A	277V Input Current: 0.08A	120V Input Current: 0.23A	277V Input Current: 0.10A
4000 Lumen D010		5000 Lumen D010TE	
Input Power: 41.6W	THD: <13%	Input Power: 52.5 W	THD <12%
120V Input Current: 0.35A	277V Input Current: 0.15A	120V Input Current: 0.44A	277V Input Current: 0.19A
6000 Lumen D010TE		7000 Lumen D010TE	
Input Power: 59.7W	THD: <14%	Input Power: 75.8W	THD: <13%
120V Input Current: 0.50A	277V Input Current: 0.22A	120V Input Current: 0.64A	277V Input Current: 0.29A

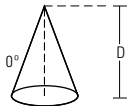
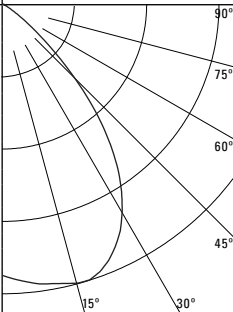
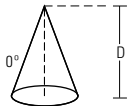

Lumens	120V		277V	
	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
1000 Lumen D010	1.02	0.041	2.18	0.021
1500 Lumen D010	1.02	0.042	2.24	0.064
2000 Lumen D010	1.02	0.077	2.43	0.027
3000 Lumen D010	1.15	0.067	3.26	0.027
4000 Lumen D010	1.2	0.088	3.9	0.03
5000 Lumen D010TE	5.1	0.132	10.2	0.153
6000 Lumen D010TE	5.4	0.123	10.8	0.154
7000 Lumen D010TE	4.9	0.13	9.8	0.156

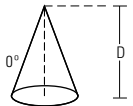
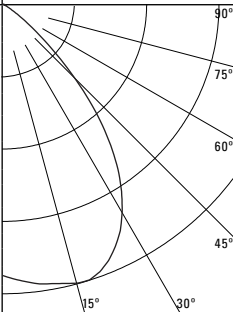
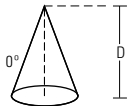

## LDRT67B

Manufr.	Series	Nom. Size	Housing Aperture	Housing Catalog #	Ceiling Aperture	Retrofit Kit	Oversize Adapter Ring
Juno	Indy Performance Series (Elate)	6	6.563	A6, C6, M6	6-1/2" MIN 7-1/2" MAX	LDRT67B	ABR7 (included)
Juno		6	6.563	CH6, CV6, MX6, TC906			
Lithonia	Commercial	6	6.750	LF6, LP6			
Philips	Lightolier Lytecaster	6	6.750	1102			
Lithonia	Gotham	6	6.750	AF and LG			
Cooper	Portfolio CFL (New)	6	6.750	CD6			
Cooper	Halo	7	6.875	M700, H600, H803E			
Cooper	Halo Commercial	6	7.125	PD6 (New)			
Philips	Lightolier Calculite	7	7.500	S7 and CS7			

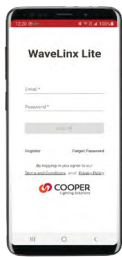
**Note:** Retrofit kit includes oversize trim ring.

## PHOTOMETRY

15	CANDLEPOWER DISTRIBUTION				CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																												
Test Number P212785	Downlight								Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																											
Housing LD6B15D010		229	457	686	915		<table><tr><th>D</th><th>FC</th><th>L</th><th>W</th></tr><tr><td>5.5'</td><td>28.4</td><td>5</td><td>6.2</td></tr><tr><td>7'</td><td>17.6</td><td>6.5</td><td>7.8</td></tr><tr><td>8'</td><td>13.4</td><td>7.4</td><td>9</td></tr><tr><td>9'</td><td>10.6</td><td>8.3</td><td>10.2</td></tr><tr><td>10'</td><td>8.6</td><td>9.3</td><td>11.2</td></tr><tr><td>12'</td><td>6</td><td>11.1</td><td>13.6</td></tr></table>	D	FC	L	W	5.5'	28.4	5	6.2	7'	17.6	6.5	7.8	8'	13.4	7.4	9	9'	10.6	8.3	10.2	10'	8.6	9.3	11.2	12'	6	11.1	13.6	0	859	0-30	689	48	45	25817
D								FC	L	W																																
5.5'								28.4	5	6.2																																
7'								17.6	6.5	7.8																																
8'								13.4	7.4	9																																
9'	10.6	8.3	10.2																																							
10'	8.6	9.3	11.2																																							
12'	6	11.1	13.6																																							
Module EU6B10208035	5	827	0-40	1063	74																																					
Trim 6LBSWL11	15	780	0-60	1394	97.1																																					
Lumens 1436	25	698	0-90	1436	100																																					
Efficacy 99.8 Lm/W	35	542	90-180	0	0																																					
SC 1.24	45	333	0-180	1436	100	85	1887																																			
																																										

20	CANDLEPOWER DISTRIBUTION				CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																												
Test Number P212798	Downlight								Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																											
Housing LD6B20D010D010		318	636	954	1271		<table><tr><th>D</th><th>FC</th><th>L</th><th>W</th></tr><tr><td>5.5'</td><td>40.5</td><td>6.4</td><td>6.6</td></tr><tr><td>7'</td><td>25</td><td>8.1</td><td>8.4</td></tr><tr><td>8'</td><td>19.1</td><td>9.3</td><td>9.6</td></tr><tr><td>9'</td><td>15.1</td><td>10.4</td><td>10.8</td></tr><tr><td>10'</td><td>12.3</td><td>11.6</td><td>12.2</td></tr><tr><td>12'</td><td>8.5</td><td>14</td><td>14.6</td></tr></table>	D	FC	L	W	5.5'	40.5	6.4	6.6	7'	25	8.1	8.4	8'	19.1	9.3	9.6	9'	15.1	10.4	10.8	10'	12.3	11.6	12.2	12'	8.5	14	14.6	0	1194	0-30	958	48	45	35872
D								FC	L	W																																
5.5'								40.5	6.4	6.6																																
7'								25	8.1	8.4																																
8'								19.1	9.3	9.6																																
9'	15.1	10.4	10.8																																							
10'	12.3	11.6	12.2																																							
12'	8.5	14	14.6																																							
Module EU6B10208035	5	1149	0-40	1477	74																																					
Trim 6LBSWL11	15	1084	0-60	1938	97.1																																					
Lumens 1996	25	970	0-90	1996	100																																					
Efficacy 95.9 Lm/W	35	753	90-180	0	0																																					
SC 1.24	45	463	0-180	1996	100	85	2642																																			
																																										

### WaveLinX Lite - WTK Tilemount Sensor



- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX Lite Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinX system specifications for details



Device Security



Manual Dimmer



Occupancy Sensor



Daylighting Control



Manually Switched ON/OFF



Tuning Control

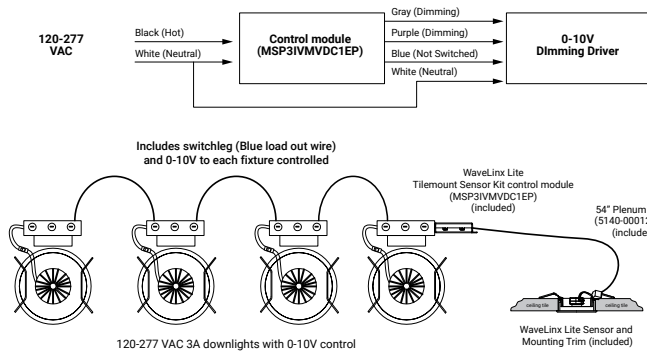


Lumen Maintenance Control

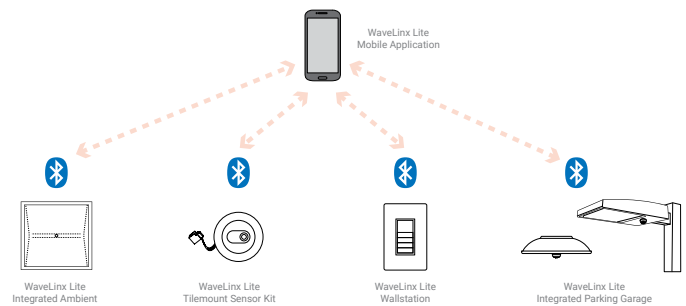


Scenes

#### WaveLinX Lite WTK Tilemount Wiring Diagram



#### WaveLinX Lite Bluetooth Enabled System



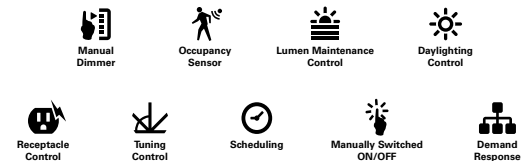
### WaveLinX Wireless – WTA Tilemount Sensor



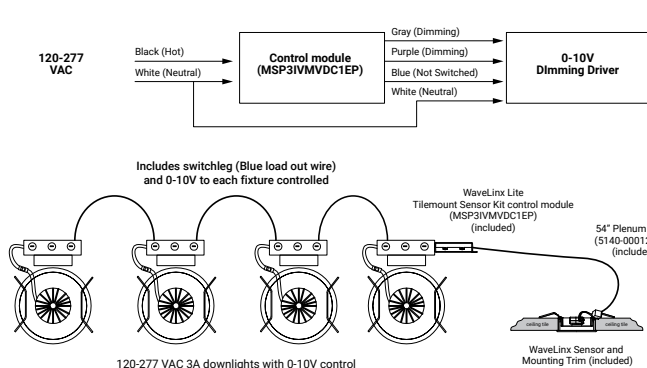
- WaveLinX Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



#### WaveLinX mobile app settings



#### WaveLinX Lite WTA Tilemount Wiring Diagram



#### WaveLinX Wireless Trellix Building Management Integration

