

DESCRIPTION

6-inch recessed LED for international, remodel or retrofit applications. Offered with narrow, medium, or wide beam reflectors designed for glare free even illumination. 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

Lower Shielding Reflector

Painted die cast aluminum or spun aluminum lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness. Spun reflectors are offered in all Portfolio Alzak® finishes. Available with non-conductive polymer trim. Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface. Self-flanged recommended for optimal aesthetics with adapter rings.

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. LDRT67B includes oversize adapter ring for larger openings.

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.

Catalog #	Type
Project	
Comments	Date
Prepared by	

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 wet 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 lumens is marked spacing and must follow spacing requirements. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 and TM-30 standards. LED life testing completed in accordance with LM 80 standards. 5000 lumen and above are marked spacing and must follow spacing requirements.

- Options to meet Trade Agreements Act requirements

Warranty

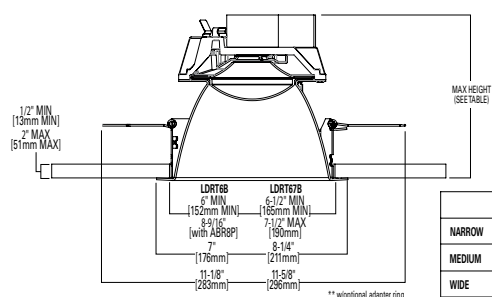
5-year warranty



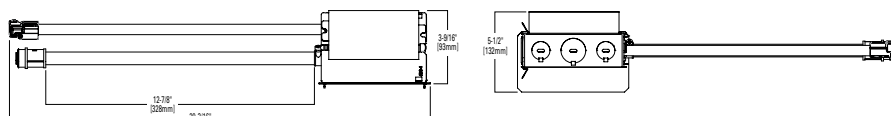
LDRT6B
LDRT67B
EU6B
6LBW 6LBM
6LBN

500 - 7000 Lumens LED

Narrow, Medium, or Wide Beam
International, Remodel, Retrofit



	1000-2000 LUMENS	3000-5000 LUMENS	6000-7000 LUMENS
NARROW	5-15/16" (151mm)	5-15/16" (151mm)	7-11/16" (195mm)
MEDIUM	5-7/8" (149mm)	5-7/8" (149mm)	7-5/8" (194mm)
WIDE	5-1/2" (140mm)	5-1/2" (140mm)	6-13/16" (173mm)
SHALLOW	3-15/32" (88mm)	3-15/32" (88mm)	N/A



SAMPLE NUMBER: LDRT6B15D010EMBOD

Domestic Preferences ²⁰	Housing	Lumens ¹	Voltage	Driver	Options ³
[Blank]=Standard TAA=Trade Agreements Act	LDRT6B=LED Downlight Retrofit for 6" to 6-7/16" or 8-9/16" with ABR8P openings LDRT6BCP=LED Downlight Retrofit for 6" to 6-7/16" or 8-9/16" with ABR8P openings, Chicago Plenum LDRT67B=LED Downlight Retrofit for 6-1/2" to 7-1/2" openings LDRT67BCP=LED Downlight Retrofit for 6-1/2" to 7-1/2" openings, Chicago Plenum	05=500 lumens ¹⁹ 10=1000 lumens 15=1500 lumens 20=2000 lumens 30=3000 lumens 40=4000 lumens 50=5000 lumens ¹⁰ 60=6000 lumens ¹⁰ 70=7000 lumens ¹⁰	Blank=120-277V 3=347V (step down transformer)	500 - 4000 Lumen D010=0-10V Dimming, 1% to 100%, 120V-277V D010TR=0-10V or Line Voltage Dimming, 5% to 100%, 120V-277V DE010=0-10V Linear Dimming, 0% to 100%, 120V-277V D5LT=Fifth Light® DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V DMX=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V ¹⁴ DMXC5=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, with RJ45 connection DL2=Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only DLE=Lutron Ecosystem dimming 1% to 100%, 120V-277V 5000, 6000, and 7000 Lumen D010TE=0-10V 1% or Trailing Edge, 10% to 100%, 120V-277V (120V Only for Trailing Edge Dimming) Tunable white 1000-2000 Lumens¹⁸ 1DE010W2N2050=0-10V dimming, 0% to 100%, 120V, 2000K - 5000K 1DE010W2N2765=0-10V dimming, 0% to 100%, 120V, 2700K - 6500K 1D5LTW2N2050=Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120, 2000K - 5000K 1D5LTW2N2765=Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V, 2700K - 6500K 2DE010W2N2050=0-10V dimming, 0% to 100%, 277V, 2000K - 5000K 2DE010W2N2765=0-10V dimming, 0% to 100%, 277V, 2700K - 6500K 2D5LTW2N2050=Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 277V, 2000K - 5000K 2D5LTW2N2765=Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 277V, 2700K - 6500K	EMBOD=Bodine® Emergency Module with Remote Test Switch EMBOD7ST=Bodine® Emergency Module with Self Test Remote Test Switch EM7=7W Emergency Module with Remote Test Switch EM14=14W Emergency Module with Remote Test Switch WTA = Factory installed WaveLinX sensor Kit ^{15, 17} WTK = Factory installed WaveLinX Lite Sensor Kit ^{15, 18}

SAMPLE NUMBER: EU6B10208035

Domestic Preferences ²⁰	Power Module	Lumen Levels ¹	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 ¹⁰ 6070=6000, 7000 lumens ¹⁰ 1015IC=1000, 1500 lumen IC rated	80=80 CRI Minimum 90=90 CRI Minimum 97=97 CRI Minimum	80 CRI 27=2700K 30=3000K 35=3500K 40=4000K 50=5000K	90 CRI 24=2400K 27=2700K 30=3000K 35=3500K 40=4000K 50=5000K	97 CRI 27=2700K 30=3000K
		Dim 2 Warm 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	Tunable white ¹⁶ 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 ²⁰	Trim	Distribution ⁴	Flange	Finish
[Blank]=Standard TAA=Trade Agreements Act	6LB=6" LED	N=Narrow (30° Beam), Spun Aluminum M=Medium (50° Beam), Spun Aluminum W=Wide (75° Beam), Spun Aluminum S=Shallow (75° Beam), Spun Aluminum ¹² PS=Non-conductive Shallow (75° Beam), Injection Moulded white ^{11, 12} CS=Cast Shallow (75° Beam), Die Cast Aluminum BA=Baffle, Spun Aluminum ⁵	0=White Polymer Trim Ring 1=Self-flanged ¹³ 2=White Painted Self-flanged	LI=Specular Clear ⁹ H=Semi-Specular Clear ⁹ WMH=Warm Haze ⁹ WH=Wheat ⁹ GPH=Graphite Haze ⁹ B=Specular Black ⁹ MW=Matte White MB=Matte Black ⁸ MMS=Matte Metallic Silver ⁸

Accessories²¹

ABR8P=Adapter Ring for 8-9/16" max opening - 9-1/4" OD (installed on retrofit ring). Use with LDRT6B as adapter ring (recommend using with self flange).
ABR7P=8-1/4" OD oversize trim ring (included with LDRT67)
ABR6P=7-1/4" OD oversize trim ring (use with LDRT6B)
Bar Hangers
HB26=C-channel Bar Hanger, 26" Long, Pair
TAA-HB26=Pair C-channel bar hanger, 26" long²⁰
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^{3, 15}
WTA = Field installed WaveLinX sensor Kit ¹⁷
WTK = Field installed WaveLinX Lite Sensor Kit ¹⁸

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.
- Beam angles are nominal with LI finish trims.
- Only available with Matte White and Matte Black Finishes.
- Only available on BA distribution.
- Available only on CS distributions.
- Not available on PS, CS or BA distributions.
- 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"
- Not available with CS or PS trims
- Matte white self flanged
- Offered up to 2000 lumens
- 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.

16 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)

19 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. Offered with spun aluminum narrow, medium and wide trims.

- 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)
EM/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: 75.9W	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

LDRT6B

Manufr.	Series	Nom. Size	Housing Aperture	Housing Catalog #	Ceiling Aperture	Retrofit Kit	Oversize Adapter Ring
Cooper	Portfolio	6	6.000	C6, MD6, H760, HD6, LD6	6" MIN 6-7/16" MAX	LDRT6B	None
Cooper	PDS	6	6.000	PD6			
Philips	Omega	6	6.250	OM6			
Philips	Lightolier Calculite	6	6.313	S6, C6, B600			
Philips	Capri	6	6.438	CM6			
Cooper	Portfolio	7	7.700	C7, HD7, MD7	6" MIN 8-9/16" MAX	LDRT6B	ABR8 (accessory)
Juno	Indy Performance Series (Elate)	8	7.813	A8, C8, M8			
Juno		8	7.813	CH8 and CV8			
Juno		8	8.188	MX8 and TC908			
Lithonia	Gotham	8	8.438	AF and LG			
Lithonia	Gotham	8	8.563	GRSF			
Philips	Omega	8	8.563	OM8			
Lithonia	Commercial	8	8.563	LF8, LP8			

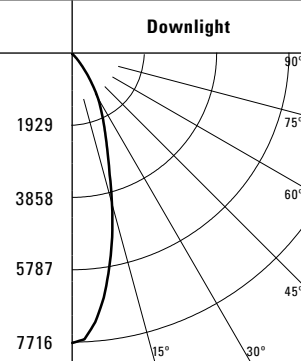
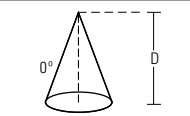
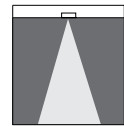
LDRT67B

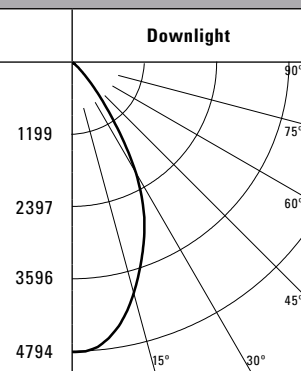
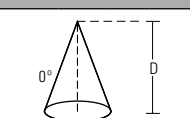
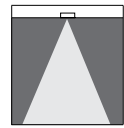
Manufr.	Series	Nom. Size	Housing Aperture	Housing Catalog #	Ceiling Aperture	Retrofit Kit	Oversize Adapter Ring
Juno	Indy Performance Series (Elate)	6	6.563	A6, C6, M6	6-1/2" MIN 7-5/8" MAX	LDRT67B	ABR7 (included)
Juno		6	6.563	CH6, CV6, MX6, TC906			
Lithonia	Commercial	6	6.750	LF6, LP6			
Philips	Lightolier 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			
Cooper	PDS	7	7.625	PD7			

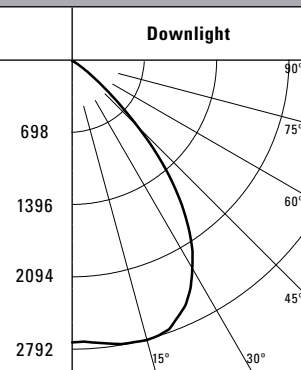
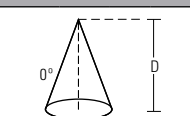
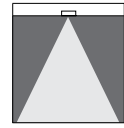
Note: Retrofit kit includes oversize trim ring.

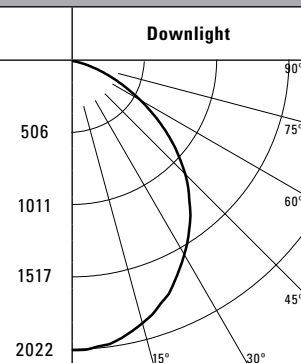
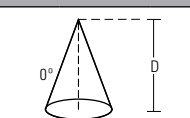
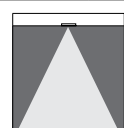
SHALLOW (75° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P201212					Degrees Vertical	Canдела	Zone	Lumens	% Fixture	Average Canдела Degrees	Average ° Luminance
Housing	LD6B15D010					0	710	0-30	529	34.2	45	36260
Module	EU6B10208035					5	704	0-40	843	54.5		
Trim	6LBCS1MMS					15	666	0-60	1377	89		
Lumens	1546					25	596	0-90	1546	100		
Efficacy	110.4 Lm/W			35	502	90-180	0	0	75	8318		
SC	1.16			45	393	0-180	1546	100	85	749		

PHOTOMETRY

NARROW (30° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P201218					Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD6B40D010					0	7716	0-30	2735	80.4	45	1928
Module	EU6B30508035					5	7196	0-40	3274	96.2	55	215
Trim	6LBN1LI					15	4183	0-60	3399	99.9	65	74
Lumens	3404					25	2017	0-90	3404	100	75	0
Efficacy	81.4 Lm/W					65	3	90-180	0	0	85	0
SC	0.53					75	0	0-180	3404	100		
												

MEDIUM (50° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P201216					Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD6B40D010					0	4794	0-30	2819	73.6	45	3303
Module	EU6B30508035					5	4731	0-40	3602	94	55	370
Trim	6LBM1LI					15	3946	0-60	3819	99.7	65	251
Lumens	3831					25	2829	0-90	3831	100	75	205
Efficacy	91.7 Lm/W					65	10	90-180	0	0	85	0
SC	0.85					75	5	0-180	3831	100		
												

WIDE (75° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P201214					Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD6B40D010					0	2742	0-30	2236	51.7	45	13769
Module	EU6B30508035					5	2742	0-40	3439	79.5	55	3006
Trim	6LBW1LI					15	2778	0-60	4301	99.4	65	430
Lumens	4326					25	2600	0-90	4326	100	75	234
Efficacy	103.5 Lm/W					65	17	90-180	0	0	85	0
SC	1.23					75	6	0-180	4326	100		
												

SHALLOW (75° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P35144					Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD6B40D010					0	2022	0-30	1506	34.2	45	17139
Module	EU6B30508035					5	2005	0-40	2399	54.5	55	14033
Trim	6LBCS1MMS					15	1897	0-60	3921	89	65	9486
Lumens	4403					25	1697	0-90	4403	100	75	3933
Efficacy	105.3 Lm/W					65	370	90-180	0	0	85	348
SC	1.16					75	94	0-180	4403	100		
												

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

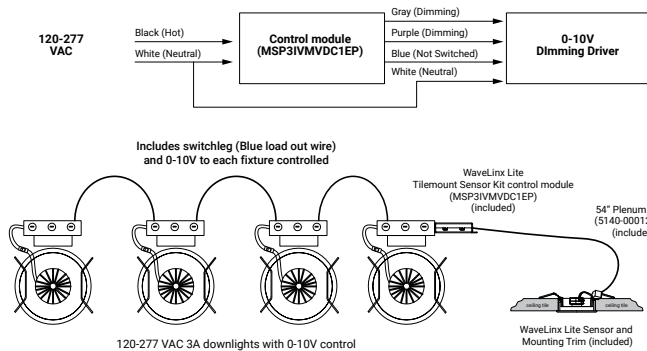


Lumen Maintenance Control

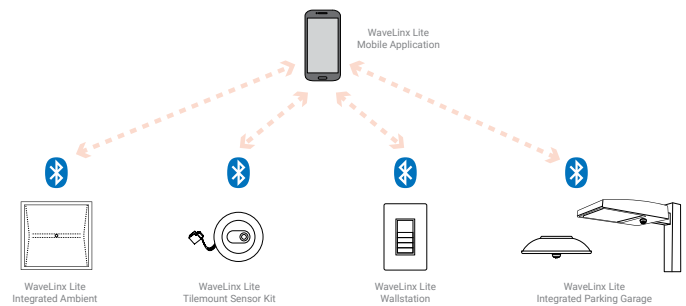


Scenes

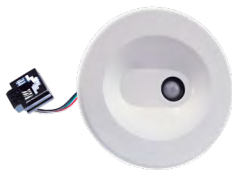
WaveLinX Lite WTK Tilemount Wiring Diagram



WaveLinX Lite Bluetooth Enabled System



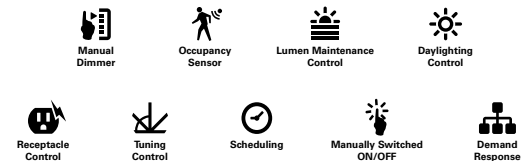
WaveLinX Wireless – WTA Tilemount Sensor



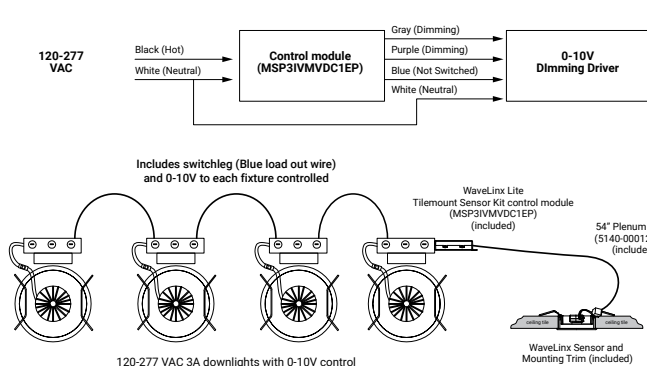
- WaveLinX Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building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



WaveLinX mobile app settings



WaveLinX Lite WTA Tilemount Wiring Diagram



WaveLinX Wireless Trellix Building Management Integration

