

Project		Catalog #		Type	
Prepared by		Notes		Date	



Portfolio

LDA4A 4L

4-Inch Adjustable Slope, Wall Wash
New Construction
900, 1300, 1800, 2800 Lumens

Typical Applications

Healthcare • Hospitality • Retail • Institutional • Indoor Display & Signage

Interactive Menu

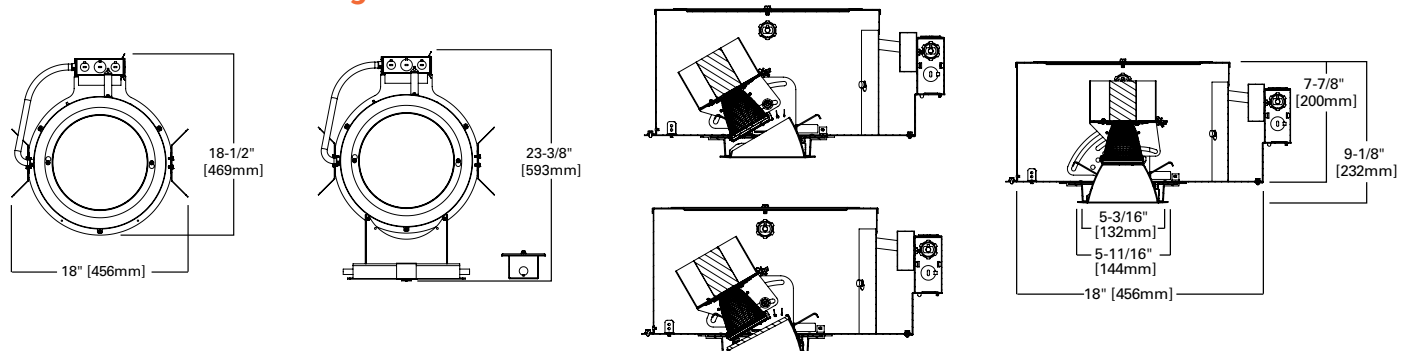
- Order Information [page 2](#)
- Product Specifications [page 3](#)
- Energy & Performance Data [page 3](#)
- Photometric Data [page 4](#)
- Connected Systems [page 7](#)
- Product Warranty



Top Product Features

- Adjustable accent/slope or lensed wall wash (flat or sloped ceilings)
- Excellent light control and low aperture brightness
- Lockable 365° rotation and 45° tilt holds any aiming position
- Round spun aluminum reflectors, Holds 2 lens media
- 4 color temperatures: 2700K, 3000K, 3500K and 4000K CCT
- CRI: 80 or 90
- Angle cut, lensed wall wash, lensed and flat cut downlight reflectors
- Lumens: 900-2,800, Field-interchangeable optics: 15°, 25° or 35°
- Options to meet Trade Agreements Act requirements

Dimensional and Mounting Details



Order Information

SAMPLE ORDER NUMBER: **LDA4A09835D010TE**

Domestic Preferences ⁽¹⁵⁾	Housing	Lumens ⁽¹⁾	CRI	CCT	Driver ⁽¹¹⁾	Options ^{(3) (7)}
[Blank] =Standard TAA =Trade Agreements Act	LDA4A =4" Aperture adjustable/slope LDA4ACP =4" Aperture adjustable/slope, Chicago Plenum	09 =900 (IC Rated) 13 =1300 (IC Rated) 18 =1800 (IC Rated) 28 =2800 (Non-IC) ⁽⁶⁾	8 =80 CRI 9 =90 CRI	27 =2700K 30 =3000K 35 =3500K 40 =4000K 30D2W = Dim to warm - 3000K to 1850K (1800 lumen and below, 90 CRI) ⁽⁸⁾	900, 1300, 1800 and 2800 Lumen D010TE =120-277V 0-10V 1% dimming or trailing edge 120V DSL =Fifth Light® DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V DE010 =0-10V Linear Dimming, 0% to 100%, 120V-277V DMX =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, with RJ45 connection 900, 1300 and 1800 Lumen D010TR =120-277V 0-10V 1% dimming or leading edge 120V	EMBOD =7W 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 WPN = WaveLinX PRO Wireless Node without sensor ⁽¹⁷⁾ WLN = WaveLinX LITE Wireless Node without sensor ⁽²¹⁾

SAMPLE ORDER NUMBER: **LAR25NF**

Beam Forming Reflector
LAR15SP =15° optic LAR25NF =25° optic LAR35FL =35° optic

SAMPLE ORDER NUMBER: **4LLWW1LI**

Reflector	Finish	Options
4LA0 =4" Adjustable Accent, Polymer Trim Ring 4LA1 =4" Adjustable Accent, Self Flanged 4LLWW0 =4" Lensed Wall Wash, Polymer Trim Ring ⁽⁹⁾ 4LLWW1 =4" Lensed Wall Wash, Self Flanged ⁽⁹⁾ 4LAL0 =4" Lensed Adjustable Accent, Polymer Trim Ring 4LAL1 =4" Lensed Adjustable Accent, Self Flanged 4LFC0 =Flat Cut Cone, Polymer Trim Ring 4LFC1 =Flat Cut Cone, Self Flanged	LI =Specular Clear H =Semi-Specular Clear WMH =Warm Haze G =Specular Gold WH =Wheat WHH =Wheat Haze	GP =Graphite GPH =Graphite Haze B =Specular Black MW =Matte White
		Self-Flanged Only WF =White Painted Flange

Accessories ⁽¹⁶⁾				
LGSKT4IP66 =IP66 Gasket Kit ⁽⁵⁾ Bar Hangers HB26 =C-channel Bar Hanger, 26" Long, Pair TAA-HB26 =Pair C-channel bar hanger, 26" long ⁽¹⁵⁾ 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) (12)} WPST = Field installed WaveLinX Sensor Kit ⁽¹³⁾ WLST = Field installed WaveLinX LITE Sensor Kit ⁽¹⁴⁾	Color Filters F22-20 =Red F33-20 =Blue F44-20 =Green F55-20 =Yellow F66-20 =Mercury	Dichronic Filters F71-20 =Peach F72-20 =Amber F73-20 =Green F74-20 =Medium Blue F75-20 =Yellow F76-20 =Red F77-20 =Dark Blue F78-20 =Light Blue F79-20 =Neutral Density F80-20 =Magenta	Beam-Modifying Lenses LSL-20 =Linear Spread Lens OSL-20 =Overall Spread Lens DIF-20 =Diffused Lens Louvers LVR-20 =Hex Cell Louver Snoot PLNC-SN-B =Snoot

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 and requires above ceiling access. Not for use with insulation.
- Required for T-24 compliance with lensed trims.
- 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 clearance: 1/2"
- Not CSA apPROved.
- Includes 30° distribution diffuse lens. Order with LARL15SP upper reflector. Reference ies files for output.

- Use with narrow flood beam forming reflector and 30° tilt.
- DMX fixtures default to full on upon loss of DMX signal.
- Consult dimming guide for performance.
- Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver.
- WPST = WaveLinX PRO wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
- WLST = WaveLinX LITE tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX LITE system specifications).
- 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.
- WPN = WaveLinX PRO wireless node PROVIDES luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only.
- WLN = WaveLinX LITE wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only.

Product Specifications

Lower Reflector

- Spun 0.050" aluminum.
- Available in a variety of Alzak® and painted finishes.
- Two torsion springs pull trim tight to ceiling.
- Truncated adjustable cut cone allows for full tilt range and flexibility.
- Lensed wall wash provides even illumination on vertical surfaces.

Upper Reflector

- Field interchangeable optics in 15°, 25° or 35° provides smooth beam without color separation.
- Media holder fits onto upper reflector and holds up to two lens media.

Trim Ring

- Self flanged or white polymer trim ring.

Adjustment Mechanism

- Stable aiming and locking mechanism allows smooth 362° rotation and 40° elevation adjustment.
- Aiming scale enables consistent setting across multiple fixtures.

Housing

- One piece die cast 1-1/4" deep collar.
- 18 gauge CRS housing is painted matte black to eliminate stray light.
- Housing is toolless top accessible.

Universal Mounting Bracket

- Accepts 1/2" EMT, C Channel, T bar fasteners and hanger bars.
- Provides 5" total adjustment.

Thermal

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

LED

- LED system contains a plurality of high brightness white LED's combined with a high reflectance upper reflector producing 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 3-step MacAdam ellipses.
- D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

Driver

- Combination 120-277V 0-10V or 120V trailing edge phase cut driver PROvides flicker free dimming from 100% to 10%.
- Optional 1% 0-10V, Fifth Light, or DMX.
- Driver can be serviced from above or through the aperture.

Connected Lighting System

Two WaveLinx connected solutions to choose from. Refer to WaveLinx system specifications and application guides for details.

WaveLinx PRO Tilemount Sensor Kit

- WaveLinx PRO WPST tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - RealTime Location Services available.

WaveLinx PRO Wireless Node

- WaveLinx PRO WPN wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note:** Not compatible with 347V or Chicago plenum.

WaveLinx LITE Tilemount Sensor Kit

- WaveLinx LITE WLST tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx LITE Wireless Node

- WaveLinx LITE WLN wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note:** Not compatible with 347V or Chicago plenum.

WaveLinx Tilemount Sensor Kits Application

- The WPST and WLST tilemount sensor 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 WPST and WLST tilemount sensor kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.
- **Note: WaveLinx PRO devices are only compatible with the WaveLinx PRO system.**
- **Note: WaveLinx LITE devices are only compatible with the WaveLinx LITE system.**

Code Compliance

- Thermally protected
- cULus Certified to UL 1598 / C22.2 No. 250.0 suitable for wet locations with downlight; damp location with wall wash and hyperbolic 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.
- 2800 lumen Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1800 lumen.
- RoHS Compliant.
- 2800 lumen and above spacing and must follow spacing requirements.
- Photometric testing completed in accordance with IES LM 79 standards.
- Lumen maintenance PROjections in accordance with IES LM-80-08 and TM-21-11.
- Options to meet Trade Agreements Act requirements

Warranty

- Five year warranty www.cooperlighting.com/legal

Energy Data

ENERGY DATA	
Sound Rating: Class A standards	
T ambient -40 + 40°C	
Power Factor: >0.90	
THD < 20%	

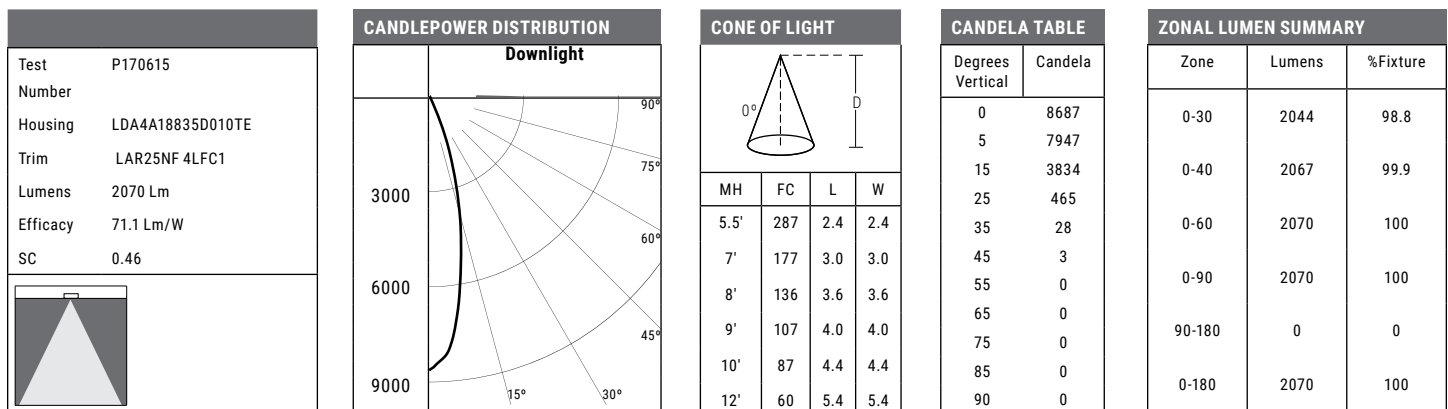
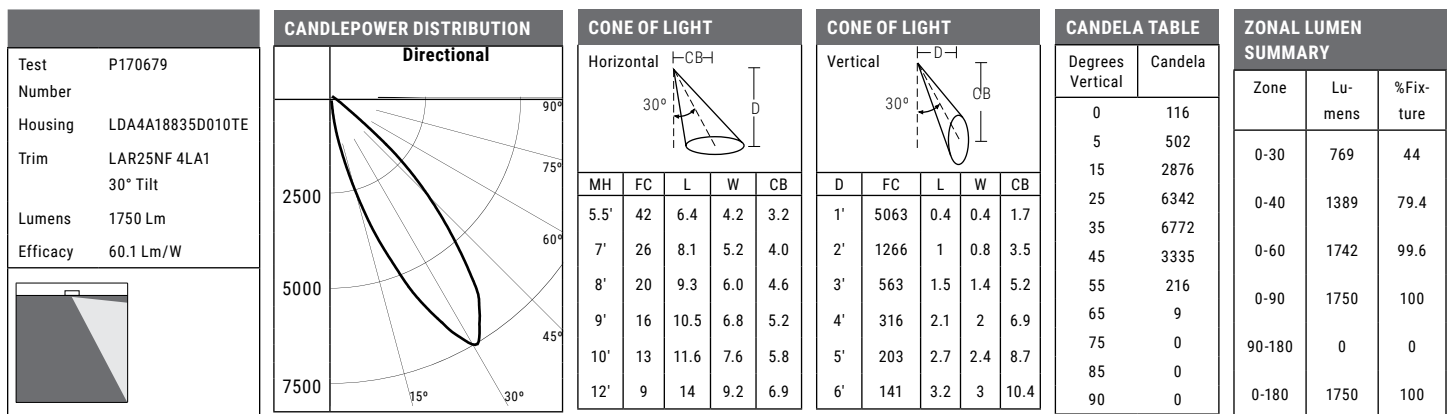
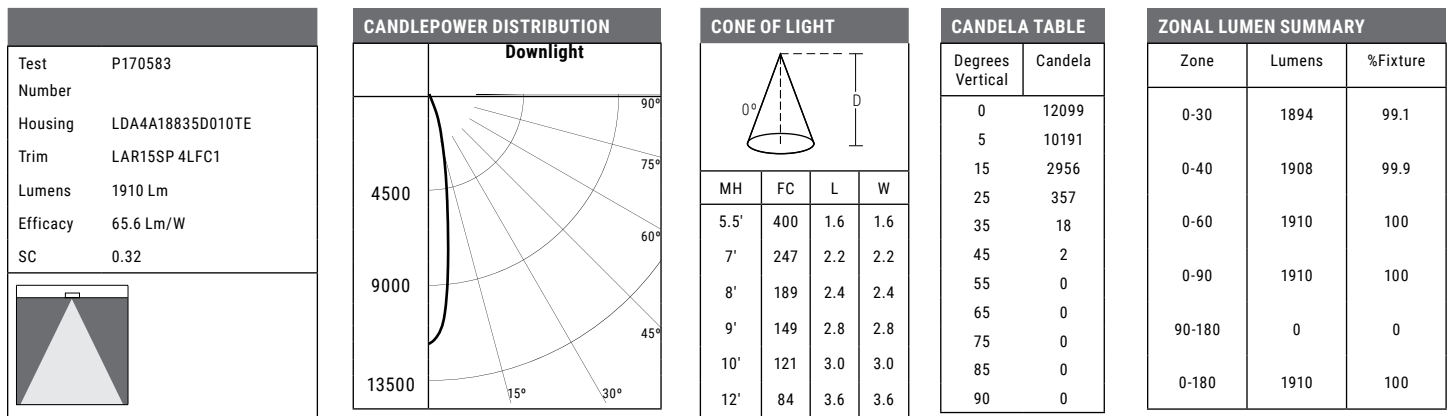
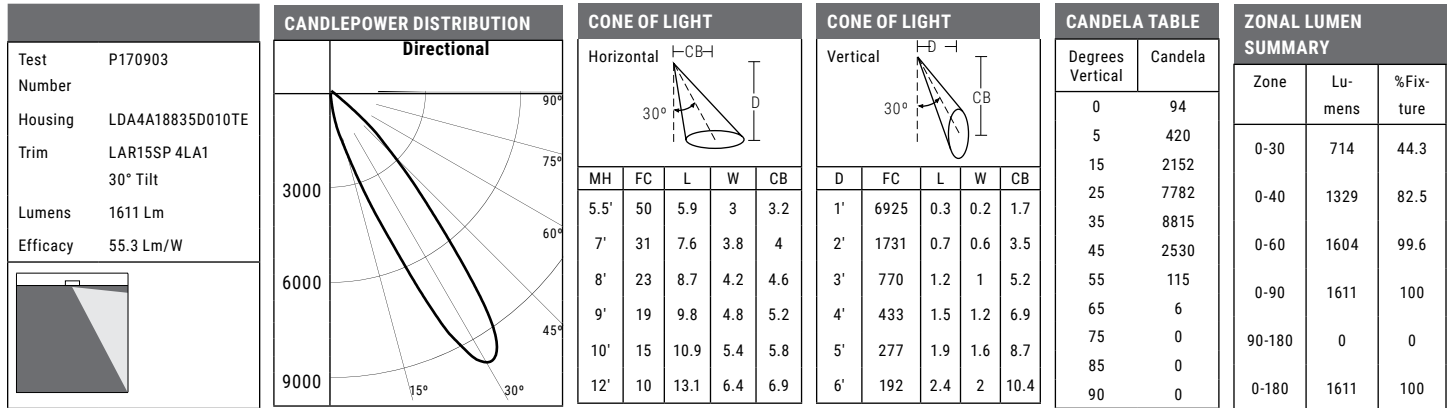
900 Lumen		
	120V	277V
Input Power	13.8W	15.0W
Input Current	0.12A	0.06A
Inrush Current	0.49A	0.85A

1800 Lumen		
	120V	277V
Input Power	29.1W	29.4W
Input Current	0.24A	0.12A
Inrush Current	0.79A	1.09A

1300 Lumen		
	120V	277V
Input Power	22.9W	22.9W
Input Current	0.19A	0.09A
Inrush Current	0.72A	0.53A

2800 Lumen		
	120V	277V
Input Power	44.5W	44.2W
Input Current	0.37A	0.17A
Inrush Current	1.09A	1.23A

Photometric Data

 View IES files


Photometric Data

 View IES files

Test		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY		
Test Number		Downlight		0°		Degrees Vertical		Zone	Lumens	%Fixture
Housing		2500		D		Candela		0-30	2121	98.5
Trim		5000		FC		0		0-40	2150	99.9
Lumens		7500		L		15		0-60	2153	100
Efficacy		15°		W		25		0-90	2153	100
SC		30°		D		35		90-180	0	0
				FC		45		0-180	2153	100
				L		55				
				W		65				
				D		75				
				FC		85				
				L		90				
				W						

Test		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY		
Test Number		Directional		Horizontal		Vertical		Degrees Vertical		Zone	Lu-mens	%Fix-ture
Housing		1500		MH		D		Candela		0-30	948	51.4
Trim		3000		FC		FC		5		0-40	1514	82.1
Lumens		4500		L		L		15		0-60	1837	99.7
Efficacy		15°		W		W		25		0-90	1843	100
				CB		CB		35		90-180	0	0
				D		D		45		0-180	1843	100
				FC		FC		55				
				L		L		65				
				W		W		75				
				CB		CB		85				
				D		D		90				
				FC		FC						
				L		L						
				W		W						
				CB		CB						

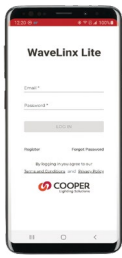
Test		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY		
Test Number		Directional		Horizontal		Vertical		Degrees Vertical		Zone	Lu-mens	%Fix-ture
Housing		750		MH		D		Candela		0-30	596	37.2
Trim		1500		FC		FC		5		0-40	1043	65.2
Lumens		2250		L		L		15		0-60	1556	97.3
Efficacy		15°		W		W		25		0-90	1600	100
				CB		CB		35		90-180	0	0
				D		D		45		0-180	1600	100
				FC		FC		55				
				L		L		65				
				W		W		75				
				CB		CB		85				
				D		D		90				
				FC		FC						
				L		L						
				W		W						
				CB		CB						

SINGLE UNIT FOOTCANDLES								MULTIPLE UNIT FOOTCANDLES					
2' FROM WALL (Distance From Fixture Along Wall)								2' FROM WALL (Spacing Between Fixtures)					
DD	●	1'	2'	3'	4'	5'	6'	●	2' apart	●	3' apart	●	3' apart
1'	26.7	10.8	1.2	0.1	0	0	0	27.9	21.6	27.9	2.3	1.5	2.3
2'	142.2	70.1	15	2.7	0.5	0.1	0	157.2	140.1	157.2	31.9	26.3	31.9
3'	103.8	66.8	23.4	6.7	1.7	0.4	0.2	127.3	133.6	127.3	69.9	62.3	69.9
4'	55.3	41	19.8	8.1	2.8	0.9	0.4	75.1	82	75.1	64.7	66.1	64.7
5'	28.6	23.1	13.8	7.1	3.2	1.3	0.6	42.4	46.2	42.4	48.1	51.4	48.1
6'	15.6	13.3	9.1	5.5	2.9	1.5	0.8	24.7	26.6	24.7	33.4	36.4	33.4
7'	9.1	8	5.9	4.1	2.5	1.4	0.8	15	16	15	22.7	24.9	22.7
8'	5.6	5	4	2.9	2	1.2	0.8	9.5	10	9.5	15.7	17	15.7
9'	3.6	3.3	2.8	2.1	1.6	1.1	0.7	6.4	6.6	6.4	11	11.8	11
10'	2.4	2.2	1.9	1.6	1.2	0.9	0.7	4.4	4.5	4.4	7.8	8.4	7.8

EM MULTIPLIER DATA

LUMENS	EM MULTIPLIER	
	7	14
900/1000	0.50	0.99
1300/1500	0.29	0.57
1800/2000	0.22	0.44
2800/3000	0.16	0.32

Connected Systems



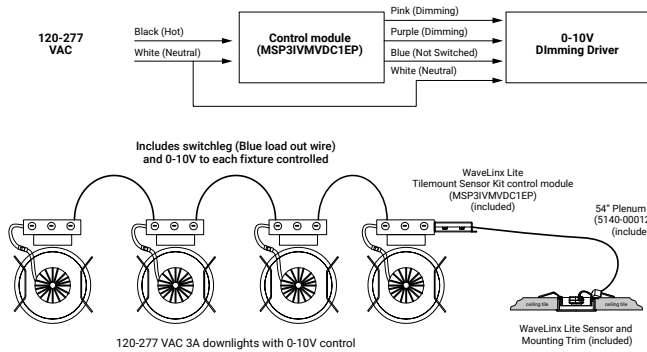
WaveLinX LITE - WLST Tilemount Sensor

WaveLinX LITE devices only compatible with the WaveLinX LITE system.

- 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



WaveLinX LITE WLST Tilemount Wiring Diagram



WaveLinX LITE Bluetooth Enabled System



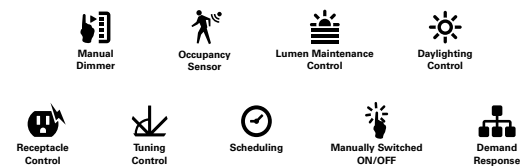
WaveLinX PRO Wireless – WPST Tilemount Sensor

WaveLinX PRO devices only compatible with the WaveLinX PRO system.

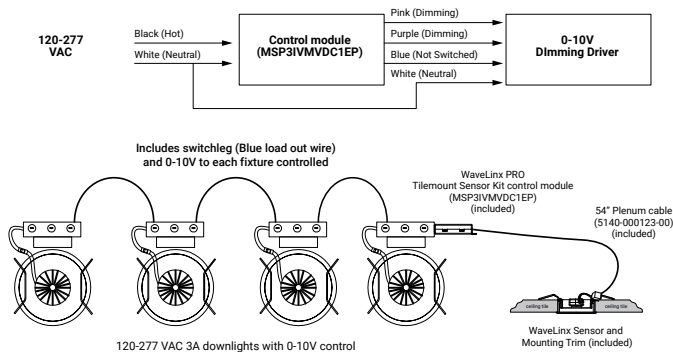
- WaveLinX PRO Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building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



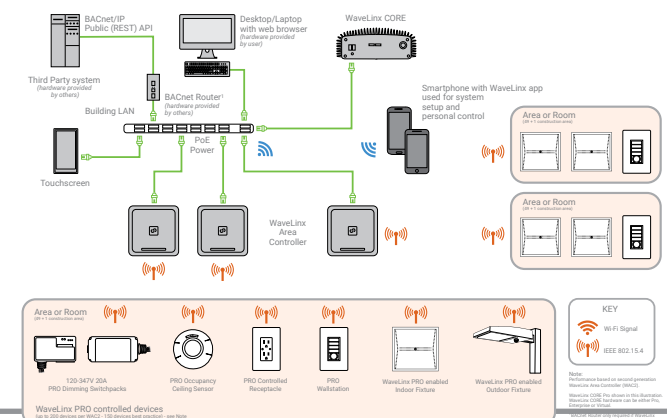
WaveLinX mobile app settings



WaveLinX PRO WPST Tilemount Wiring Diagram



WaveLinX CORE Building Management Integration



Connected Solutions



WaveLinX LITE Wireless Node - WLN

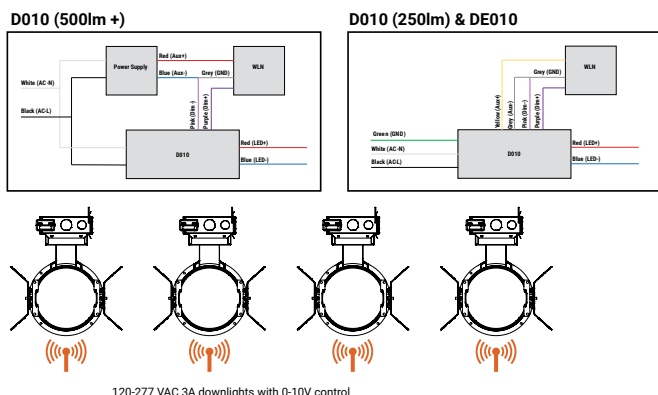
WaveLinX LITE devices only compatible with the WaveLinX LITE system.

- 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
- Refer to the WaveLinX system specifications for details
- **Not available with BioUp or Tunable White**

WaveLinX mobile app settings



WaveLinX LITE Wireless Node (WLN) Wiring Diagram



WaveLinX LITE Bluetooth Enabled System



WaveLinX PRO Wireless Node - WPN

WaveLinX PRO devices only compatible with the WaveLinX PRO system.

- 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 WaveLinX Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

WaveLinX mobile app settings



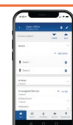
Downlights with wireless communication
Highly efficient LED fixtures



WaveLinX Area Controller
Provides centralized coordination of multiple area control options

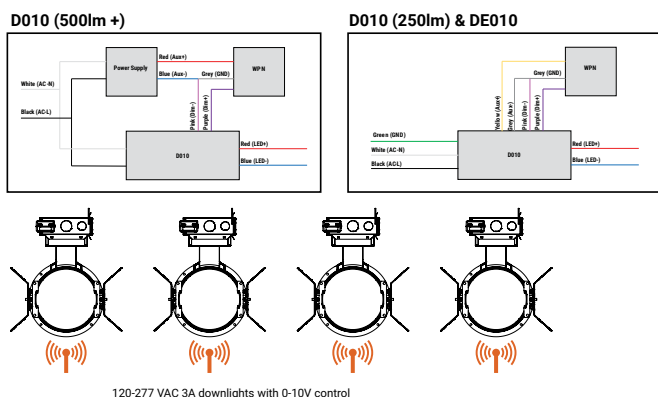


Wireless Wall Station/Receptacle
Provides customized wireless control of each area



Mobile Applications
Provides personalized, local control from a tablet or smartphone

WaveLinX PRO Wireless Node (WPN) Wiring Diagram



WaveLinX CORE Building Management Integration

