

Project		Catalog #		Type	
Prepared by		Notes		Date	



## Portfolio

### LSRS2B/LSSQS2B Cylinders

LSRS2B/LSSQS2B/LSRSYM2B/LSSQSYM2B  
LED 2" Shallow Round and Square Cylinder

#### Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Residential

#### Interactive Menu

- Order Information page 2 - page 3
- Product Specifications page 4
- Energy Data page 4
- Photometric Data page 5
- Connected Systems page 7
- Product Warranty

#### Product Certification



#### Product Features



#### Control Compatibility

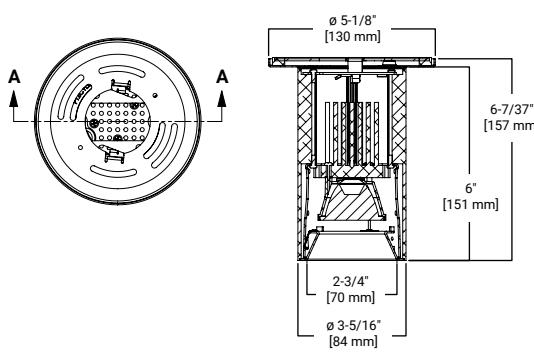


#### Top Product Features

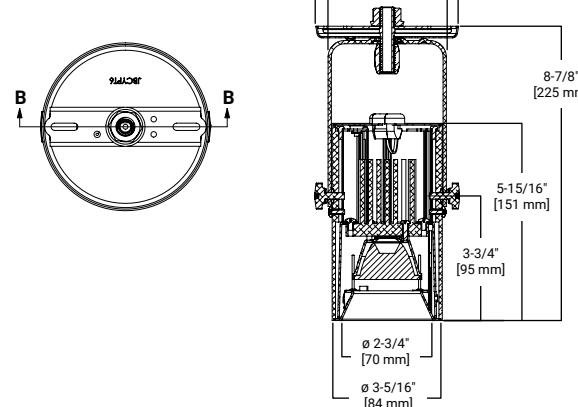
- 500 to 2000 lumens; Offered in 80, 90 and 97 CRI; Downlight
- Shallow round or square surface-mount cylinders; Ceiling, wall, stem, up/down, yoke mount adjustable, LuxWire power over cable
- Extruded aluminum housing; Matte Black, White, Bronze and Silver paint finishes
- 6 color temperatures: 2400K, 2700K, 3000K, 3500K, 4000K and 5000K CCT; D2W™ option from 3000K to 1850K
- W2N Tunable White 2700K-6500K or 2000K-5000K (remote only)
- Options to meet Trade Agreements Act requirements

#### Dimensional and Mounting Details

##### 2IN ROUND SHALLOW CYLINDER CEILING MOUNT



##### 2IN ROUND SHALLOW CYLINDER YOKE MOUNT



additional product diagrams

### Order Information

SAMPLE ORDER NUMBER: LSRS2B10D010P

Domestic Preferences (22)		Cylinder	Lumens	Distribution	CRI	Color		
[Blank]=Standard TAA=Trade Agreements Act		<b>Ceiling Surface Mount</b> <b>LSRS2B</b> =2-inch round shallow surface ceiling mount (17) <b>LSSQS2B</b> =2-inch square shallow surface ceiling mount (17) <b>LSSQSPC2B</b> =2-inch square surface ceiling mount LuxWire aircraft cable with power 120" (15) <b>LSSRPC2B</b> =2-inch round surface ceiling mount LuxWire aircraft cable with power 120" (15)	<b>05</b> =500 lumens (21) <b>10</b> =1000 lumens <b>15</b> =1500 lumens <b>20</b> =2000 lumens	<b>SP15</b> =15° <b>NFL25</b> =25° <b>FL40</b> =40° <b>WFL55</b> =55°	<b>80</b> =80 CRI minimum <b>90</b> =90 CRI minimum <b>97</b> =97 CRI minimum	<b>80 CRI</b> <b>27-2700K</b> <b>30</b> =3000K <b>35</b> =3500K <b>40</b> =4000K <b>50</b> =5000K	<b>90 CRI</b> <b>24-2400K</b> <b>27-2700K</b> <b>30</b> =3000K <b>35</b> =3500K <b>40</b> =4000K <b>50</b> =5000K	<b>97 CRI</b> <b>27-2700K</b> <b>30</b> =3000K
		<b>Wall Mount</b> <b>LSRSWM2B</b> =2-inch round shallow wall mount <b>LSSUD2B</b> =2-inch round shallow wall mount up/down (1) <b>LSSQSWM2B</b> =2-inch square shallow wall mount <b>LSSQUD2B</b> =2-inch square shallow wall mount up/down (1)				<b>Dim to Warm (1000 &amp; 1500 lumens only)</b> <b>9030B2W</b> =1800-3000K Dim to Warm, 90 CRI		
		<b>Yoke Mount</b> <b>LSRSYM2B</b> =2-inch round shallow yoke mount (18) <b>LSSQSYM2B</b> =2-inch square shallow yoke mount (18)				<b>Tunable White (1000 lumens only)</b> (16) (select DE010 or D5LT driver) <b>W2N902765</b> =0% to 100%, 120-277V, 2700K-6500K <b>W2N902050</b> =0% to 100%, 120-277V, 2000K-5000K		

Driver		Finish (4)
<b>D010R</b> =Remote 120-277V 0-10V 1% dimming <b>3D010R</b> =Remote 347V 0-10V 1% dimming <b>D010TRR</b> =Remote 0-10V (120-277V) or line voltage (120V) dimming, 5-100% <b>DE010R</b> =Remote 120-277V 0-10V 0% linear dimming <b>D5LTR</b> =Remote Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V	<b>DMXR</b> =Remote DMX/RDM logarithmic dimming (3) <b>DMXCSR</b> =Remote DMX/RDM logarithmic dimming with RJ45 connection <b>DL2R</b> =Remote 1 to 100% dimming, 120V Lutron Hi-Lume forward phase dimming <b>DLER</b> =Remote Lutron Ecosystem dimming 1% to 100%, 120-277V	<b>P</b> =White <b>MB</b> =Matte Black <b>SL</b> =Silver <b>BZ</b> =Bronze

SAMPLE ORDER NUMBER: 2LBSW3LI

Trim	Reflector	Flange	Finish
<b>2LB</b> =2" trim	<b>D</b> =Spun aluminum <b>DL</b> =Lensed spun aluminum <b>DC</b> =Die cast aluminum <sup>(9)</sup> <b>DLC</b> =Lensed die cast aluminum <sup>(9)</sup>	<b>3</b> =Rimless (10)	<b>LI</b> =Specular Clear (11) <b>H</b> =Semi-Specular Clear (11) <b>WMH</b> =Warm Haze (11) <b>WH</b> =Wheat (11) <b>WHH</b> =Wheat Haze (11) <b>GPH</b> =Graphite Haze (11) <b>B</b> =Specular Black (11) <b>MW</b> =Matte White <b>MB</b> =Matte Black (12) <b>MMS</b> =Matte Metallic Silver (12)

### REQUIRED if Remote Driver (R) is specified on Cylinder

Domestic Preferences (22)	Remote Drivers (5)	Lumens	Voltage	Driver	Options	Controls
[Blank]=Standard TAA=Trade Agreements Act	<b>R100</b> =Remote 100 ft <b>R75</b> =Remote 75ft <b>R50</b> =Remote 50 ft <b>R25</b> =Remote 25ft <b>R15</b> =Remote 15ft <b>R5</b> =Remote 5ft <b>R2</b> =Remote 2 ft	<b>05</b> =500 lumens (21) <b>10</b> =1000 lumens <b>15</b> =1500 lumens <b>20</b> =2000 lumens	<b>blank</b> =120-277V <b>3</b> =347V	<b>D010</b> =120-277V 0-10V 1% dimming <b>D010TR</b> =0-10V (120-277V) or line voltage (120V) dimming, 5-100% <b>DE010</b> =0-10V Linear Dimming, 0% to 100%, 120-277V <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>(6)</sup> <b>DMXCS</b> =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, with RJ45 connection <b>DL2</b> =1 to 100% dimming, 120V Lutron Hi-Lume forward phase dimming <sup>(7)</sup> <b>DLE</b> =Lutron Ecosystem dimming 1% to 100%, 120-277V <sup>(7)</sup> <b>DLV</b> =Low Voltage System	<b>EM7</b> =7W Emergency Module with Remote Test Switch <b>EM14</b> =14W Emergency Module with Remote Test Switch <b>EMBOD</b> =Bodine® Emergency Module with Remote Test Switch <b>EMV7</b> =7W Emergency Module for use with DLV driver with Remote Test Switch <b>EMV14</b> =14W Emergency Module for use with DLV driver with Remote Test Switch	<b>WPST</b> =Factory installed WaveLinx PRO Sensor Kit <sup>(8)(19)</sup> <b>WLST</b> =Factory installed WaveLinx LITE Sensor Kit <sup>(8)(20)</sup> <b>WPN</b> =WaveLinx PRO Wireless Node without sensor <sup>(23)</sup> <b>WLN</b> =WaveLinx LITE Wireless Node without sensor <sup>(24)</sup>

Continued on next page.

## Order Information

Domestic Preferences <sup>(22)</sup>	Accessories <sup>(22)</sup>	Finish <sup>(4)</sup>	Type	Lengths
[Blank]=Standard TAA=Trade Agreements Act	<b>Pendant or Canopy Kit REQUIRED for Surface Ceiling Mount</b> <b>Pendant Kit for round cylinder</b> <sup>(13)</sup> P236=Pendant stem kit for round suspended mount cylinder  <b>Pendant Kit for square cylinder</b> <sup>(13)</sup> PSQ236=Pendant stem kit for square suspended mount cylinder	P=White MB=Matte Black SL=Silver BZ=Bronze	RM=For remote drivers	Blank=36" SP*=* Specify 6" to 144" in 1" increments

OR

Accessories <sup>(22)</sup>	Finish <sup>(4)</sup>
<b>Surface Ceiling Mount Canopy</b> 2SQPSML=Low profile canopy for square surface mount 2-inch junction box 2RCPSM=Low profile canopy for round surface mount 2-inch junction box 2SQPSTAN=Low profile canopy for square surface mount standard junction box 2RCPSTAN=Low profile canopy for round surface mount standard junction box  <b>Connected Lighting Systems</b> <sup>(8)</sup> WPST=Field installed WaveLinx PRO Sensor Kit <sup>(19)</sup> WLST=Field installed WaveLinx LITE Sensor Kit <sup>(20)</sup>	P=White MB=Matte Black SL=Silver BZ=Bronze

### Notes

1. Requires 2 reflectors and light engines.
3. DMX fixtures default to full on upon loss of DMX signal
4. Consult factory for custom finishes.
5. Up down surface mount require 2 driver assemblies.
6. DMX fixtures default to full on upon loss of DMX signal
7. Only available up to 25'
8. Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory.
9. Available with Matte White, Matte metallic silver and Matte Black Finishes.
10. Available on D, DL, DLC and DC.
11. Not available on Pinhole or DC distributions.
12. Available only on DC.
13. 0-45° slope.
15. Canopy mount driver available omit R in driver ordering information, not offered with DMX

16. W2N not compatible with LuxWire
17. Requires canopy or pendant kit, see Accessory section for ordering information
18. Ceiling mount only
19. WPST=WaveLinx PRO wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
20. WLST=WaveLinx LITE tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx Lite system specifications)
21. Limited to D010 drivers
22. 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.
- Trim must be ordered with cylinder for TAA compliance.
- Example: TAALSR2B10D010P-2LB

23. 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.
24. 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 D010 or DE010 drivers only.

### Product Specifications

#### Lower Reflector

- Round or square 2-3/4" aperture
- Painted die-cast aluminum or spun aluminum with a lensed upper optical chamber provides superior lumen output with minimal source brightness
- Square surface mount available with round reflectors
- Available in all Portfolio finishes

#### Trim retention

- Three pressure springs hold flange tightly to the cylinder lip

#### Cylinder

- Round and soft square extruded aluminum
- Matte white, bronze, silver or matte black. Consult factory for custom finishes.
- Available in standard and shallow heights
- Yoke mount provides +/-45° lockable tilt

#### Mounting

- Mounting plate installs to mounted junction box
- Cylinder mounts to plate with easy twist and lock hooks for ceiling mount
- For wall mount, mounting arm attaches directly to junction box via a robust mounting plate
- Offered with optional stem and aircraft cable
- LuxWire™ provides low voltage power to the cylinder via aircraft cable

#### Thermal

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

#### LED System

- Contains a plurality of high brightness white LED's combined with high reflectance upper reflector and convex transitional lens producing even distribution with no pixelation
- Lumen output shall not decrease by more than 10% over the minimum life of 55,000 hours (L90 > 55,000 hours)
- Color variation within 2-step MacAdam ellipses
- Available in 2400K, 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- Available in 80, 90 or 97 color rendering index (CRI)

#### VividTune™ Color Tuning Solutions

- D2W™ – Dim-to-Warm shifts CCT from 3000K to 1850K as fixture dims, mimicking halogen sources
- W2N – Tunable white CCT range from 2700K to 6500K or 2000K to 5000K; 90 CRI (remote only)

#### Remote 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
- Distributed low voltage power system combines power, lighting, and controls with ease of installation. (remote only)

#### 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 - Real Time 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.

#### Compliance

- Pendant mount cULus Listed for damp locations
- Ceiling mount cULus Listed for protected wet locations with lensed trims with covered ceiling
- Wall mount downlight cULus Listed for wet locations
- EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits
- RoHS compliant
- Photometric testing completed in accordance with IES LM-79
- LED life testing completed in accordance with IES LM-80 standards

#### Warranty

- Five year warranty [www.cooperlighting.com/legal](http://www.cooperlighting.com/legal)

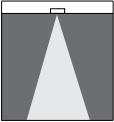
### Energy Data

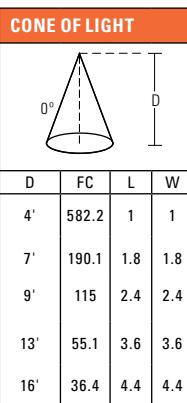
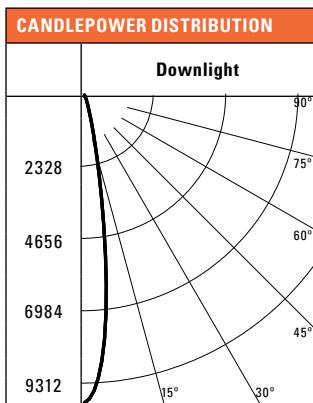
ENERGY DATA	
Sound Rating: Class A standards	
(Values at non-dimming line voltage)	
Minimum Starting Temperature: -30°C (-22°F)	
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)	
Input Voltage: UNV (120V - 277V)	
Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power)	
Input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

Lumens	120V		277V	
	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
500 Lumen D010	0.64	0.05	1.4	0.04
1000 Lumen D010	1.02	0.041	2.18	0.021
1500 Lumen D010	1.02	1.02	2.24	0.064
2000 Lumen D010	1.02	0.077	2.43	0.027

500 Lumen D010	1000 Lumen D010
Input Power: 7.38W	THD <14.4%
Input Current: 0.06A	277V Input Current: 0.03A
1500 Lumen D010	2000 Lumen D010
Input Power: 15.05 W	THD <13.0%
Input Current: 0.13A	277V Input Current: 0.06A
Input Power: 21.2 W	THD <8.6%
Input Current: 0.18A	277V Input Current: 0.081A

### Photometric Data

SPOT (15° BEAM)	
Test Number	P264029
Housing	LSR2B10SP158035
Trim	2LBD*LI
Lumens	974
Efficacy	94.6 Lm/W
SC	0.28
	

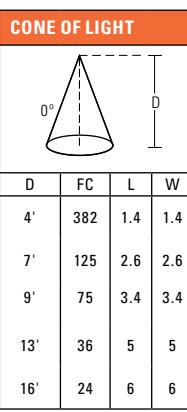
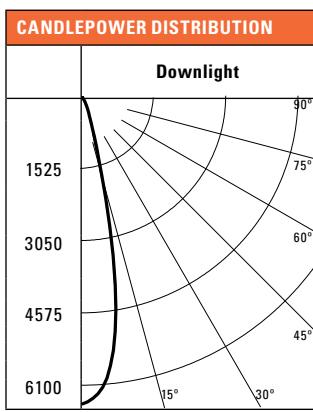


Degrees Vertical	Candela
0	9316
5	7438
15	976
25	141
35	30
45	7
55	2
65	1
75	0
85	0
90	0

Zone	Lumens	% Fixture
0-30	945	97
0-40	965	99.1
0-60	973	99.9
0-90	974	100
90-180	0	0
0-180	974	100

Average Candela Degrees	Average 0° Luminance
45	4884
55	1720
65	1167
75	0
85	0

FLOOD (25° BEAM)	
Test Number	P218711
Housing	LSR2B10NFL258035
Trim	2LBD*LI
Lumens	1026
Efficacy	99.6 Lm/W
SC	0.39
	

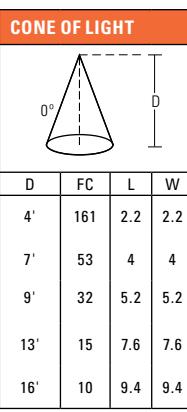
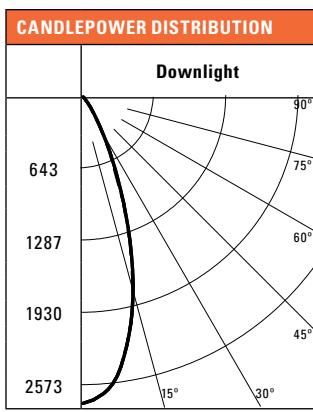


Degrees Vertical	Candela
0	6104
5	5611
15	1236
25	229
35	51
45	7
55	1
65	0
75	0
85	0
90	0

Zone	Lumens	% Fixture
0-30	987	96.2
0-40	1019	99.3
0-60	1026	100
0-90	1026	100
90-180	0	0
0-180	1026	100

Average Candela Degrees	Average 0° Luminance
45	3836
55	676
65	0
75	0
85	0

FLOOD (40° BEAM)	
Test Number	P218754
Housing	LSR2B10FL408035
Trim	2LBD*LI
Lumens	1041
Efficacy	101 Lm/W
SC	0.59
	

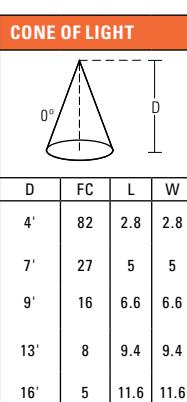
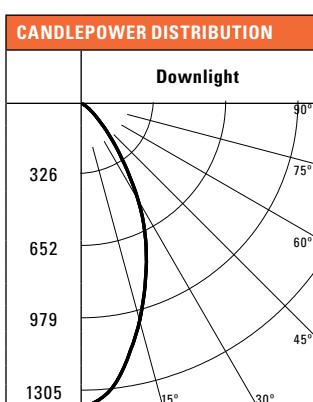


Degrees Vertical	Candela
0	2577
5	2467
15	1626
25	581
35	120
45	19
55	4
65	0
75	0
85	0
90	0

Zone	Lumens	% Fixture
0-30	938	90.2
0-40	1020	98.0
0-60	1040	99.9
0-90	1041	100
90-180	0	0
0-180	1041	100

Average Candela Degrees	Average 0° Luminance
45	10412
55	2702
65	0
75	0
85	0

WIDE FLOOD (55° BEAM)	
Test Number	P218801
Housing	LSR2B10WFL558035
Trim	2LBD*LI
Lumens	985
Efficacy	95.6 Lm/W
SC	0.73
	



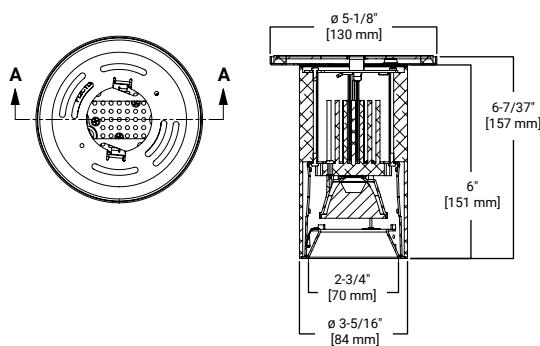
Degrees Vertical	Candela
0	1309
5	1250
15	959
25	644
35	313
45	105
55	28
65	0
75	0
85	0
90	0

Zone	Lumens	% Fixture
0-30	674	68.5
0-40	873	88.7
0-60	984	99.9
0-90	985	100
90-180	0	0
0-180	985	100

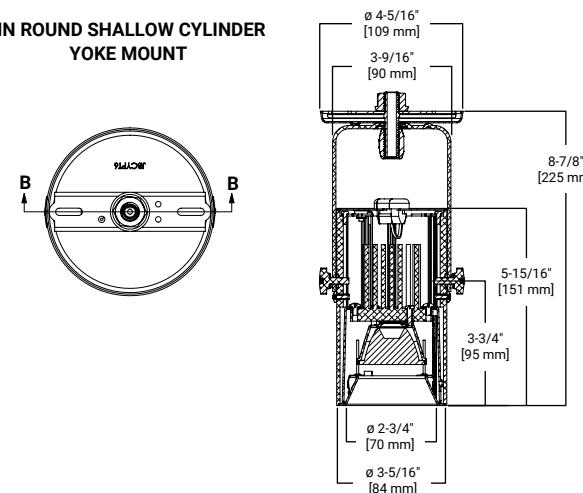
Average Candela Degrees	Average 0° Luminance
45	57541
55	18916
65	0
75	0
85	0

## Dimensional and Mounting Details

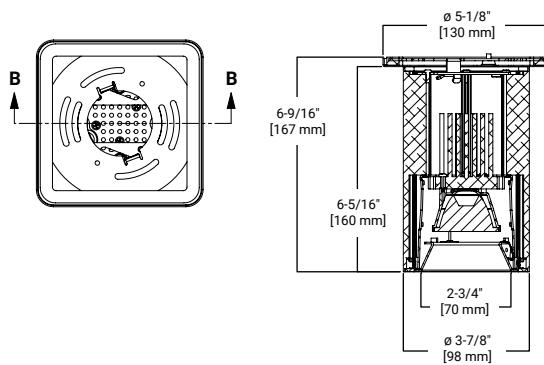
2IN ROUND SHALLOW CYLINDER  
CEILING MOUNT



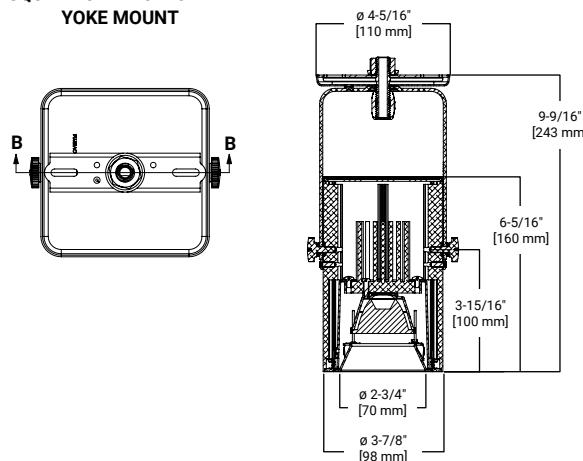
2IN ROUND SHALLOW CYLINDER  
YOKE MOUNT



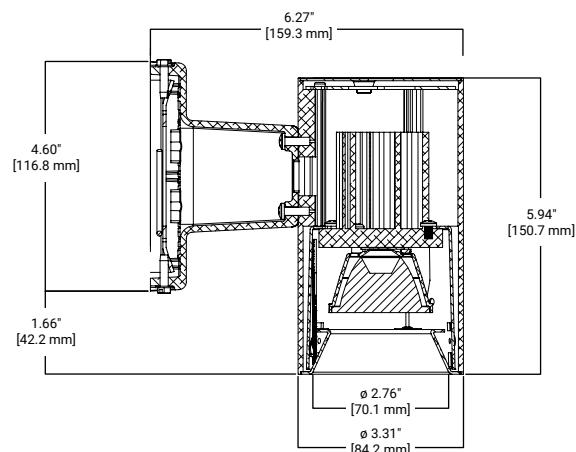
2IN SQUARE SHALLOW CYLINDER  
CEILING MOUNT



2IN SQUARE SHALLOW CYLINDER  
YOKE MOUNT



2IN SQUARE SHALLOW CYLINDER  
WALL MOUNT



## Connected Solutions



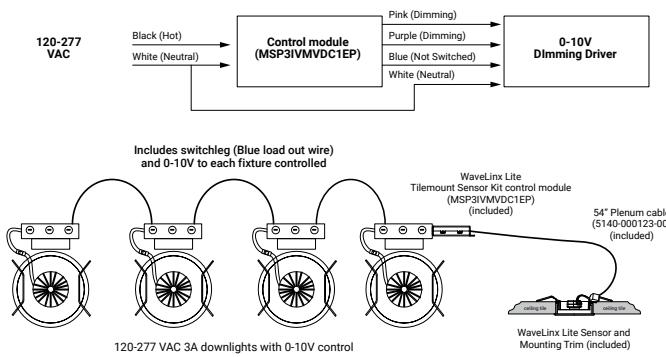
### WaveLinx LITE - WLST Tilemount Sensor

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

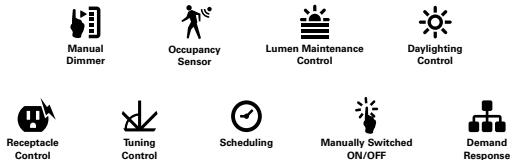
WaveLinx PRO devices only compatible with the WaveLinx PRO system.



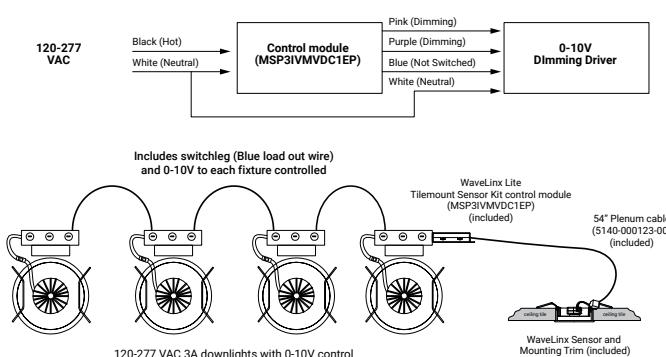
- WaveLinx PRO Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building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



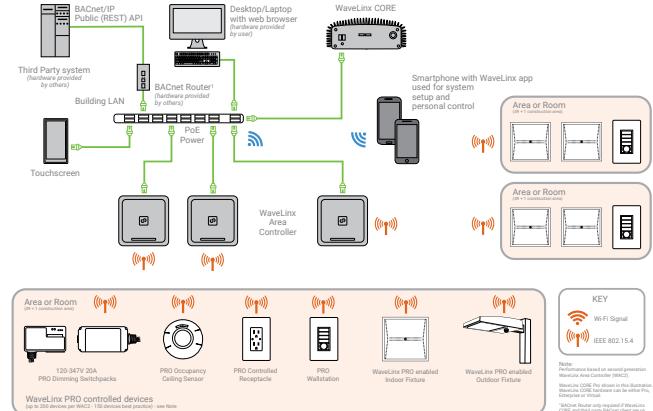
#### WaveLinx mobile app settings



#### WaveLinx PRO WPST Tilemount Wiring Diagram



#### WaveLinx CORE Building Management Integration



## Connected Solutions



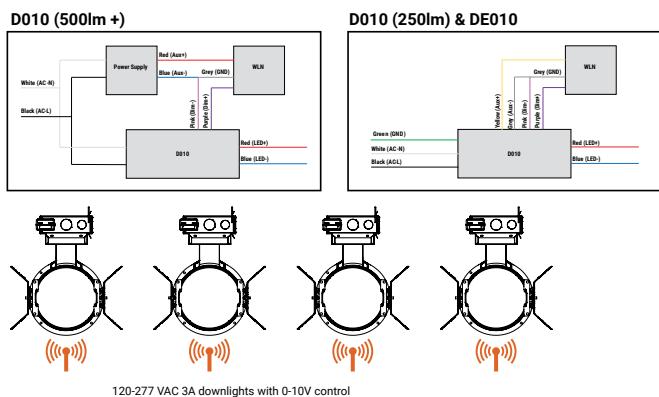
### WaveLinx LITE Wireless Node - WLN

- 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



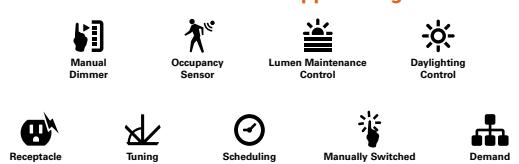
### WaveLinx PRO Wireless Node - WPN

- WaveLinx 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

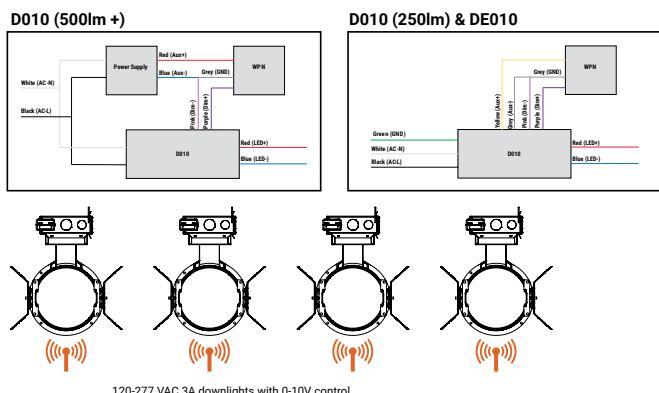


#### WaveLinx PRO devices only compatible with the WaveLinx PRO system.

#### WaveLinx mobile app settings



#### WaveLinx PRO Wireless Node (WPN) Wiring Diagram



#### WaveLinx CORE Building Management Integration

