

Project		Catalog #		Type	
Prepared by		Notes		Date	



# PORTFOLIO

## LSRS8B EC8B 8L

Pendant or Wall Mount Cylinder

### Typical Applications

Office • Education • Healthcare • Hospitality

### Interactive Menu

- Order Information [page 2](#)
- Product Specifications [page 4](#)
- Energy Data [page 5](#)
- Photometric Data [page 6](#)
- Connected Systems [page 7](#)
- Product Warranty

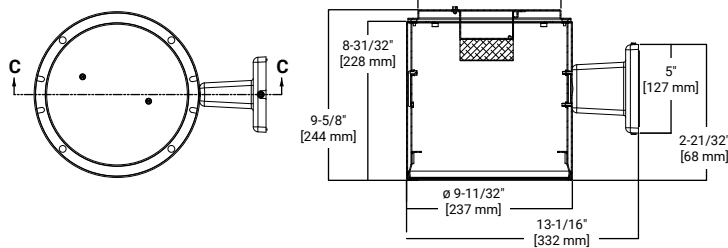


### Top Product Features

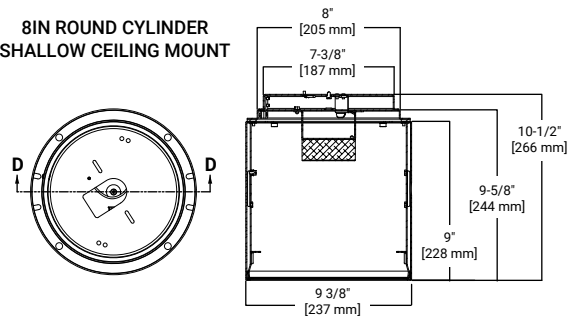
- 1,000 to 6,000 lumens; Surface, wall or optional pendant mount
- Offered in narrow beam, medium beam and wide beam distributions; 80, 90 or 97 CRI
- 2400K, 2700K, 3000K, 3500K, 4000K, 5000K; D2W™ option from 3000K to 1850K
- W2N tunable white CCT range from 2700K to 6500K or 2000K to 5000K / BioUp = 2700K to 5000K
- Two-stage reflector system produces smooth beam

### Dimensional and Mounting Details

8IN ROUND CYLINDER  
SHALLOW WALL MOUNT



8IN ROUND CYLINDER  
SHALLOW CEILING MOUNT



Order Information

SAMPLE ORDER NUMBER: **LSRS8B20D010MB**

Housing	Lumens <sup>(1)</sup>	Voltage	Driver	Remote	Finish <sup>(8)</sup>
<b>LSRS8B</b> =8-inch round shallow surface mount <b>LSRSWM8B</b> =8-inch round shallow wall mount	10=1000 lumens 15=1500 lumens 20=2000 lumens 30=3000 lumens 40=4000 lumens 50=5000 lumens 60=6000 lumens	blank=120-277V 3=347V <sup>(2)</sup>	<b>1000-6000 Lumen <sup>(4)</sup></b> <b>D010</b> =0-10V Dimming, 1% to 100%  <b>1000-5000 Lumen <sup>(4)</sup></b> <b>D010TR</b> =0-10V 120-277V or 120V Phase Cut Dimming, 1% to 100% <b>DE010</b> =0-10V Linear Dimming, 0.1% to 100%, 120V-277V <b>DSLT</b> =Fifth Light <sup>®</sup> DALI DT6 Logarithmic Dimming, 0.1% to 100%, 120V-277V <b>DMX</b> =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 120V-277V <sup>(3)</sup> <b>DMXC5</b> =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 120V-277V, with RJ45 connection <sup>(3)</sup> <b>DLE</b> =Lutron Ecosystem dimming 1% to 100% <b>DLV</b> =Low Voltage System <sup>(6)</sup>  <b>Tunable white 1000-2000</b> <b>DE010W2N2765</b> = 0-10V dimming, 0% to 100%, 120-277V, 2700K-6500K <b>DE010W2N2050</b> = 0-10V dimming, 0% to 100%, 120-277V, 2000K-5000K <b>DSLTW2N2765</b> = Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V, 2700K-6500K <b>DSLTW2N2050</b> = Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V, 2000K-5000K  <b>BioUp Tunable white 1000</b> <b>DE010B2750</b> = 0-10V dimming, 0.1% to 100%, 120-277V, 2700K-5000K <b>DE010B35</b> = 0-10V dimming, 0.1% to 100%, 120-277V, 3500K <b>DE010B40</b> = 0-10V dimming, 0.1% to 100%, 120-277V, 4000K <b>DE010B50</b> = 0-10V dimming, 0.1% to 100%, 120-277V, 5000K <b>DSLTB2750</b> = Fifth Light DALI DT6 Logarithmic Dimming, 0.1% to 100%, 120V-277V, 2700K-5000K	blank= Integral driver R= Remote driver <sup>(7)</sup>	P=White MB=Matte Black SL=Silver BZ=Bronze
	<b>Notes</b> (1) Nominal Lumens will vary depending on selected color, driver and reflector finish.	<b>Notes</b> (2) 347V integral D010 only.	<b>Notes</b> (3) DMX fixtures default to full on upon loss of DMX signal. (4) For D2W up to 3000 lumens. (6) Limited to 3000 Lumens	<b>Notes</b> (7) Order remote driver separately. See below to order.	<b>Notes</b> (8) Consult factory for custom finishes.

SAMPLE ORDER NUMBER: **ER8B30408035**

Power Module	Lumen Levels <sup>(1)</sup>	Color
<b>EC8B</b> =8" LED Module for 6000 lumen and below	1020=1000, 1500, or 2000 Lumens 3040=3000 or 4000 Lumens 5070=5000, 6000 lumens	<b>80 CRI</b> 8027= 80CRI, 2700K 8030= 80CRI, 3000K 8035= 80CRI, 3500K 8040= 80CRI, 4000K 8050= 80CRI, 5000K  <b>90 CRI</b> 9024= 90CRI, 2400K 9027= 90CRI, 2700K 9030= 90CRI, 3000K 9035= 90CRI, 3500K 9040= 90CRI, 4000K 9050= 90CRI, 5000K  <b>97 CRI</b> 9727= 97CRI, 2700K 9730= 97CRI, 3000K  <b>Dim 2 Warm</b> 109030D2W=1000 Lumen, 90 CRI, Dim 2 Warm 159030D2W=1500 Lumen, 90 CRI, Dim 2 Warm 209030D2W=2000 Lumen, 90 CRI, Dim 2 Warm 309030D2W=3000 Lumen, 90 CRI, Dim 2 Warm  <b>W2N Tunable White</b> 10W2N902050=1000 lumens, 90 CRI, Tunable white 2000K - 5000K 10W2N902765=1000 lumens, 90 CRI, Tunable white 2700K - 6500K 15W2N902050=1500 lumens, 90 CRI, Tunable white 2000K - 5000K 15W2N902765=1500 lumens, 90 CRI, Tunable white 2700K - 6500K 20W2N902050=2000 lumens, 90 CRI, Tunable white 2000K - 5000K 20W2N902765=2000 lumens, 90 CRI, Tunable white 2700K - 6500K  <b>BioUp Tunable white</b> 10B2750=1000 lumens, 2700K-5000K 10B35=1000 lumens, 3500K 10B40=1000 lumens, 4000K 10B50=1000 lumens, 5000K

SAMPLE ORDER NUMBER: **8LBS3LI**

Trim	Reflector <sup>(12)</sup>	Flange	Finish
<b>8LB</b> =8" Reflector	S=Shallow Spun Aluminum	3=Rimless	LI=Specular Clear H=Semi-Specular Clear WMH=Warm Haze WH=Wheat GPH=Graphite Haze B=Specular Black MW=Matte White

continued on next page

Order Information

REQUIRED if Remote Driver (R) is specified on Cylinder

Remote Drivers	Lumens	Voltage	Driver	Options	Controls
<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>10</b> =1000 lumens <b>15</b> =1500 lumens <b>20</b> =2000 lumens <b>30</b> =3000 lumens <b>40</b> =4000 lumens <b>50</b> =5000 lumens <b>60</b> =6000 lumens	<b>blank</b> =120-277V <sup>(3)</sup> <b>1</b> =120V <b>2</b> =277V <b>3</b> =347V	<b>1000-6000 Lumen</b> <sup>(4)</sup> <b>D010</b> =0-10V Dimming, 1% to 100%  <b>1000-5000 Lumen</b> <sup>(4)</sup> <b>D010TR</b> =0-10V 120-277V or 120V Phase Cut Dimming, 1% to 100% <b>DE010</b> =0-10V Linear Dimming, 0.1% to 100%, 120V-277V <b>D5LT</b> =Fifth Light® DALI DT6 Logarithmic Dimming, 0.1% to 100%, 120V-277V <b>DMX</b> =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 120V-277V <sup>(3)</sup> <b>DMXC5</b> =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 120V-277V, with RJ45 connection <sup>(3)</sup> <b>DLE</b> =Lutron Ecosystem dimming 1% to 100% <b>DLV</b> =Low Voltage System <sup>(3)</sup>  <b>Tunable white 1000-2000</b> <b>DE010W2N2765</b> = 0-10V dimming, 0% to 100%, 120-277V, 2700K-6500K <b>DE010W2N2050</b> = 0-10V dimming, 0% to 100%, 120-277V, 2000K-5000K <b>D5LTW2N2765</b> = Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V, 2700K-6500K <b>D5LTW2N2050</b> =Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V, 2000K-5000K  <b>BioUp Tunable white 1000</b> <b>DE010B2750</b> = 0-10V dimming, 0.1% to 100%, 120-277V, 2700K-5000K <b>DE010B35</b> = 0-10V dimming, 0.1% to 100%, 120-277V, 3500K <b>DE010B40</b> = 0-10V dimming, 0.1% to 100%, 120-277V, 4000K <b>DE010B50</b> = 0-10V dimming, 0.1% to 100%, 120-277V, 5000K <b>D5LTB2750</b> = Fifth Light DALI DT6 Logarithmic Dimming, 0.1% to 100%, 120V-277V, 2700K-5000K	<b>EM7</b> =7W emergency module with remote test switch <b>EM14</b> =14W emergency module with remote test switch <b>EMBOD</b> =7W 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>(11)(15)</sup> <b>WLST</b> = Factory installed WaveLinX LITE Sensor Kit <sup>(11)(14)</sup> <b>WPN</b> = WaveLinX PRO Wireless Node without sensor <sup>(11)(16)</sup> <b>WLN</b> = WaveLinX LITE Wireless Node without sensor <sup>(11)(17)</sup>

Accessories	Type	Lengths
<b>Pendant Kit</b> <sup>(13)</sup> <b>P836P</b> =White pendant stem kit <b>P836BZ</b> =Bronze pendant stem kit <b>P836MB</b> =Matte black pendant stem kit <b>P836SL</b> =Silver pendant stem kit	<b>Blank</b> =5 conductor for use with 0-10V driver <b>3C</b> =3 conductor for use with 120 or 277V <b>5C</b> = 5 conductor for use with D5LT drivers <b>DMX</b> =No conductors for use with DMX <b>DMXC5</b> =No conductors for use with RJ45 connection <b>RM</b> = for Remote drivers	<b>Blank</b> =36" <b>SP</b> *=* Specify 6" to 144" in 1" increments
<b>Conduit Pendant Kit</b> <b>PMRCC6P</b> = Round pendant stem kit with conduit knockout cover, white <b>PMRCC6MB</b> = Round pendant stem kit with conduit knockout cover, black <b>PMRCC6BZ</b> = Round pendant stem kit with conduit knockout cover, bronze <b>PMRCC6SL</b> = Round pendant stem kit with conduit knockout cover, silver		<b>Blank</b> =36" <b>SP</b> *=* Specify 6" to 144" in 1" increments
<b>Aircraft cable</b> <b>AC120P</b> =120" white aircraft cable kit <b>AC48P</b> =48" white aircraft cable kit <b>AC120MB</b> =120" black aircraft cable kit <b>AC48MB</b> =48" black aircraft cable kit	<b>Blank</b> =5 conductor <b>DMXC5</b> =DMX/RDM logarithmic Dimming with RJ45 connection	
<b>Connected Lighting Systems</b> <sup>(11)</sup> <b>WTA</b> = Field installed WaveLinX sensor Kit <sup>(14)</sup> <b>WTK</b> = Field installed WaveLinX Lite Sensor Kit <sup>(15)</sup>		

Notes

- Nominal Lumens will vary depending on selected color, driver and reflector finish.
- 347V integral D010 only.
- DMX fixtures default to full on upon loss of DMX signal.
- For D2W up to 3000 lumens.
- Limited to 3000 Lumens
- Order remote driver separately. See below to order.
- Consult factory for custom finishes.
- 3000 and below. Up to 3000 lumens does not need voltage specified.
- Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver. WPN & WLN are factory installed only when using with driver specify on remote driver assembly.
- Beam angles are nominal with LI finish trims.
- 0-45° slope.

- WLST = WaveLinX LITE tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX LITE system specifications)
- WPST = WaveLinX PRO wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only
- 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 D010 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 D010 driver only.

## Product Specifications

### Lower Reflector

- Self-flanged, spun 0.062" thick aluminum lower reflector with a lensed upper optical chamber provides superior lumen output with minimal source brightness

### Trim Retention

- Two torsion springs hold flange tightly to the cylinder lip

### Housing

- Round seamless .060" thick spun aluminum housing
- White, bronze, silver or matte black. Consult factory for custom finishes.
- Available in standard and shallow heights

### Mounting

- Ceiling mounting plate installs to mounted junction box
- Cylinder mounts to plate with easy twist and lock hooks for ceiling mount
- For wall mount, mounting bracket plate attaches directly to wall-mounted junction box
- Optional pendant kits allow unit to be stem hung on ceilings with up to 45° slope

### 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 pixilation
- 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
- Flexible disconnect allows for tool-less replacement of LED engine from below ceiling
- Available in 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
- **BioUp** - Tunable white CCT range 2700K to 5000K Provides the biological effectiveness of natural sunlight, with color temperatures that are more comfortable for indoor environments

### Driver

- Combination 0-10V Phase Cut driver provides flicker-free dimming from 100% to 1%
- Optional 1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem
- Remote driver option up to 100' based on driver selection
- 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.

#### 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.

#### 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 and wall mount cULus Listed for damp locations
- Ceiling surface mount cULus Listed for protected wet locations with covered ceiling
- cULus listed for 25°C ambient environments
- EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits
- 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

### Warranty

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

### Color Metric Summary

8027		8030		8035		8040		8050	
R <sub>f</sub>	93.2	R <sub>f</sub>	83.4	R <sub>f</sub>	83.7	R <sub>f</sub>	83.3	R <sub>f</sub>	82.5
R <sub>g</sub>	94.1	R <sub>g</sub>	94.4	R <sub>g</sub>	94.8	R <sub>g</sub>	94	R <sub>g</sub>	94.3
CRI	81.3	CRI	82.4	CRI	83.1	CRI	83.7	CRI	94.2
R <sub>9</sub>	0.7	R <sub>9</sub>	4.5	R <sub>9</sub>	9.1	R <sub>9</sub>	9.9	R <sub>9</sub>	11.9

9027		9030		9035		9040		9050	
R <sub>f</sub>	92	R <sub>f</sub>	91.6	R <sub>f</sub>	90.9	R <sub>f</sub>	89.4	R <sub>f</sub>	88.4
R <sub>g</sub>	98.4	R <sub>g</sub>	98.6	R <sub>g</sub>	98.3	R <sub>g</sub>	96.6	R <sub>g</sub>	96.8
CRI	93.4	CRI	93.2	CRI	93.3	CRI	91.8	CRI	91
R <sub>9</sub>	59.3	R <sub>9</sub>	60.2	R <sub>9</sub>	63.1	R <sub>9</sub>	58	R <sub>9</sub>	55.2

9727		9730	
R <sub>f</sub>	95	R <sub>f</sub>	94.2
R <sub>g</sub>	100.1	R <sub>g</sub>	99.6
CRI	98	CRI	98.5
R <sub>9</sub>	93.9	R <sub>9</sub>	94.7

### Energy Data

ENERGY DATA
Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -20°C (-4°F)
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)
Power Factor: >0.90
Input Frequency: 50/60Hz

1000 Lumen D010	
Input Power: 11W	THD <14%
Input Current: 0.09A	277V Input Current: 0.04A

1500 Lumen D010	
Input Power: 15.5W	THD <13%
Input Current: 0.13A	277V Input Current: 0.06A

2000 Lumen D010	
Input Power: 21.2 W	THD <9%
Input Current: 0.18A	277V Input Current: 0.08A

3000 Lumen D010	
Input Power: 27.6 W	THD <10%
Input Current: 0.23A	277V Input Current: 0.10A

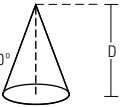
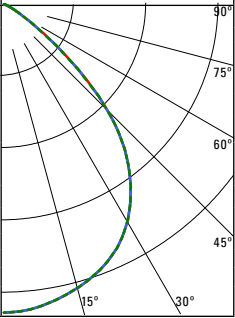
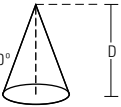
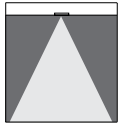
4000 Lumen D010	
Input Power: 41.6 W	THD <13%
Input Current: 0.35A	277V Input Current: 0.15A

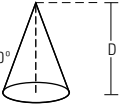
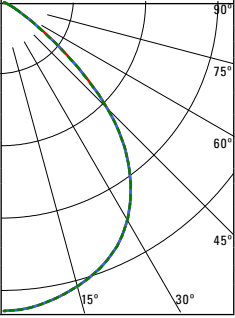
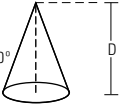
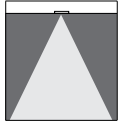
5000 Lumen D010TE	
Input Power: 52.5 W	THD <12%
Input Current: 0.44A	277V Input Current: 0.19A

6000 Lumen D010TE	
Input Power: 59.7W	THD <14%
Input Current: 0.50A	277V Input Current: 0.22A

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Photometric Data

SHALLOW (85° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE			
Test Number		<b>Downlight</b>				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance		
Housing	LSRS8B50D010			MH	FC	L	W	0	3502	0-30	2670	44.2	45	71087
Module	ER8B50835			4'	218.9	4.6	4.6	5	3477	0-40	4240	70.2		
Trim	8LBS0H			7'	71.5	8.2	8.2	15	3322	0-60	5920	98.1	55	24682
Lumens	6035			9'	43.2	10.6	10.6	25	3056	0-90	6035	100	65	6100
Efficacy	113.9 Lm/W			13'	20.7	15.4	15.4	35	2525	90-180	0	0	75	2121
SC	1.2	16'	13.7	19	19	45	1630	0-180	6035	100	85	1274		
														

SHALLOW (85° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE			
Test Number		<b>Downlight</b>				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance		
Housing	LSRS8B50D010			MH	FC	L	W	0	3460	0-30	2850	45.9	45	69395
Module	ER8B50835			4'	216.3	5	5	5	3462	0-40	4513	72.7		
Trim	8LBS0LI			7'	70.6	8.8	8.8	15	3498	0-60	6132	98.8	55	22488
Lumens	6206			9'	42.7	11.4	11.4	25	3343	0-90	6206	100	65	4159
Efficacy	117.1 Lm/W			13'	20.5	16.6	16.6	35	2681	90-180	0	0	75	631
SC	1.28	16'	13.5	20.4	20.4	45	1591	0-180	6206	100	85	637		
														

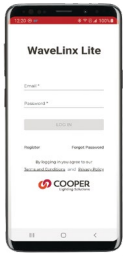
Nominal Scaling From 80 CRI 3500K		
CRI	CCT	Lumen Mult
80	2700	0.938
80	3000	0.962
80	3500	1.000
80	4000	0.993
80	5000	1.013
90	2700	0.784
90	3000	0.826
90	3500	0.853
90	4000	0.891
90	5000	0.922
97	2700	0.696
97	3000	0.737

Nominal Scaling From 5000 lumen package	
LUMEN PACKAGE	LUMEN MULT
1000 LUMEN	0.207
1500 LUMEN	0.280
2000 LUMEN	0.398
3000 LUMEN	0.562
4000 LUMEN	0.799
5000 LUMEN	1.000
6000 LUMEN	1.133

Connected Systems

WaveLinx LITE - WLST Tilemount Sensor

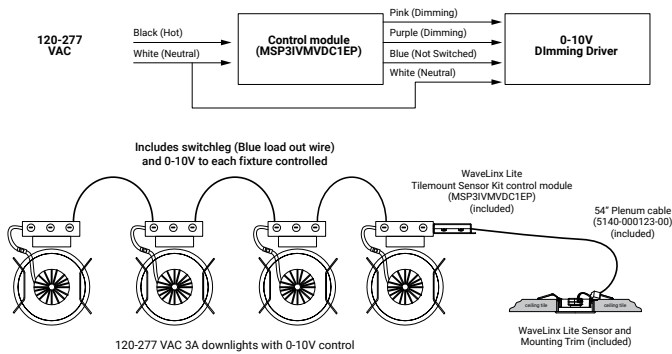
WaveLinx LITE devices only compatible with the WaveLinx LITE system.



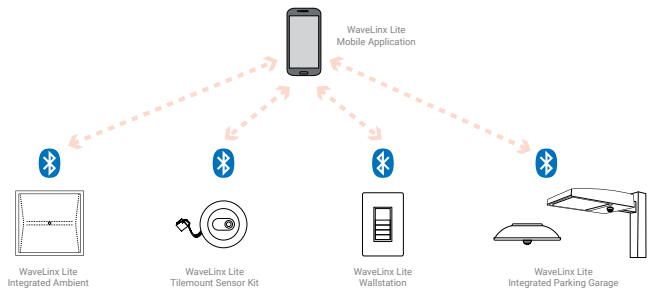
- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic 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

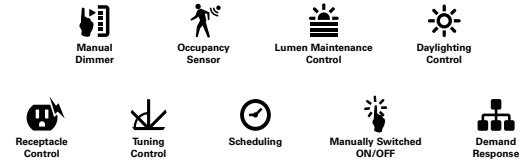
WaveLinx PRO devices only compatible with the WaveLinx PRO system.



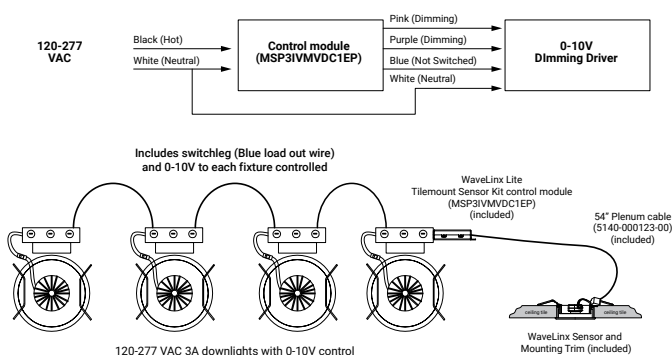
- WaveLinx PRO Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building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



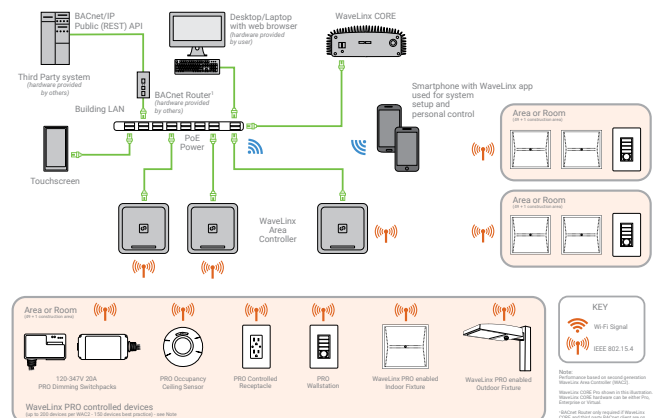
WaveLinx mobile app settings



WaveLinx PRO WPST Tilemount Wiring Diagram



WaveLinx CORE Building Management Integration



Connected Solutions



WaveLinX LITE Wireless Node - WLN

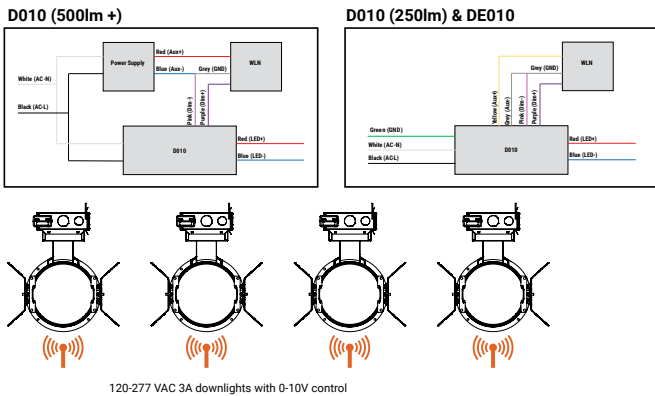
WaveLinX LITE devices only compatible with the WaveLinX LITE system.

- 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

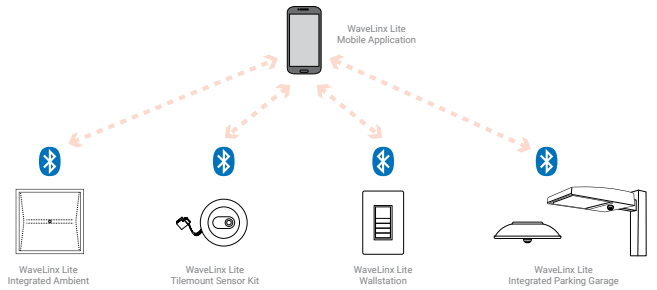
WaveLinX mobile app settings



WaveLinX LITE Wireless Node (WLN) Wiring Diagram



WaveLinX LITE Bluetooth Enabled System



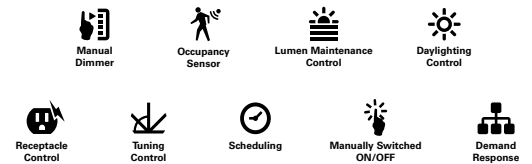
WaveLinX PRO Wireless Node - WPN

WaveLinX PRO devices only compatible with the WaveLinX PRO system.

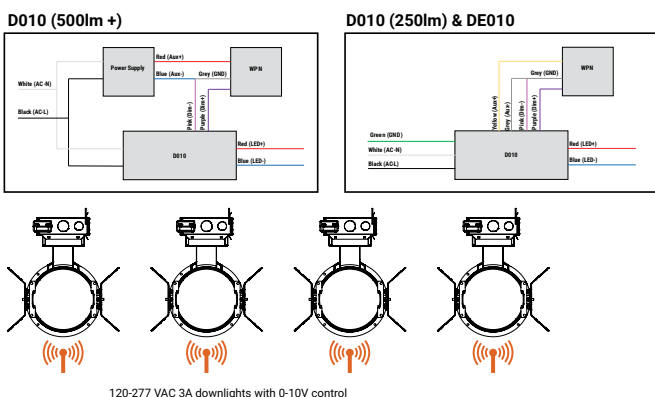


- WaveLinX Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with WaveLinX Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building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

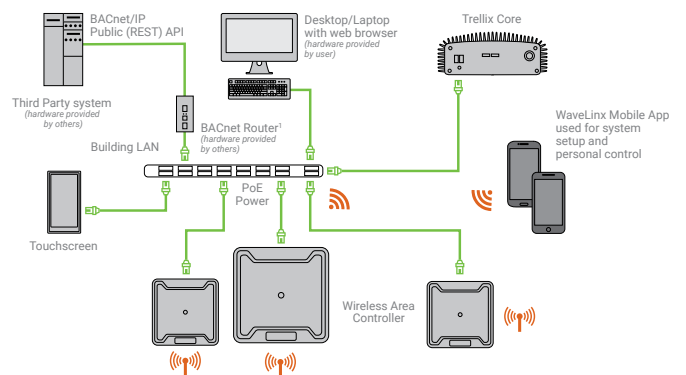
WaveLinX mobile app settings



WaveLinX PRO Wireless Node (WPN) Wiring Diagram



WaveLinX CORE Building Management Integration



# Proven Research. Industry Recognized.

## BioUp Melanopic Lighting



See better



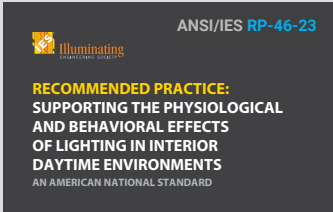
Feel better



Function better



See [BioUp brochure](#) for more details

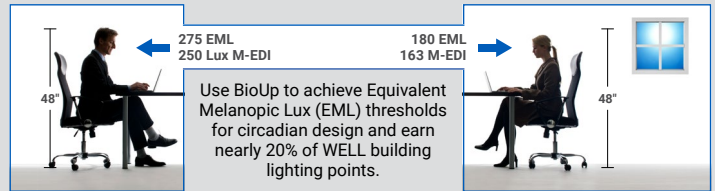


ANSI/IES RP-46-23 / TM18 published March 2024 based on over 40 years of research.

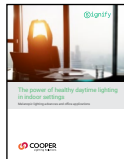
"...circadian clock synchronization is paramount to the body's efficient and appropriate functioning." – TM18



BioUp solutions maximize WELL points for Circadian Lighting Design (L03):



**MDER, M-EDI** and **EML** are key metrics used to quantify non-visual performance of indoor lighting systems.



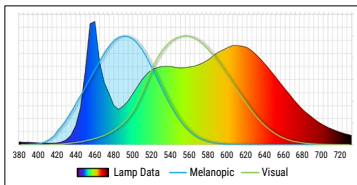
See [BioUp white paper](#) for more details

## 30% boost Biological impact compared to traditional LED sources

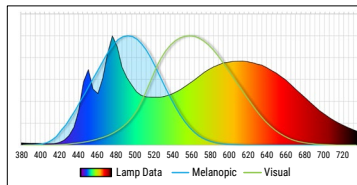
CCT	LED @ ~83 CRI	BioUp Static		BioUp Dynamic	
		MDER	CRI	MDER	CRI
2700K	0.45	-	-	0.43	95
3000K	0.50	-	-	0.57	94
3500K	0.57	0.71	90	0.71	90
4000K	0.65	0.84	87	0.84	87
5000K	0.79	1.00	84	1.00	84

**MDER** - Melanopic Daylight Efficacy Ratio (MDER) measures the amount of light stimulating to the melanopsin receptors.

**Standard 4000K LED**  
MDER = .62



**BioUp 4000K LED**  
MDER = .82

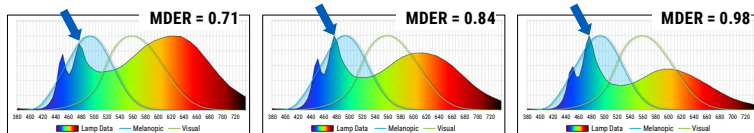


BioUp enhances the LED spectrum with cyan light at 475nm increasing the biological impact of the light to enhance our circadian rhythm which regulates our sleep/wake cycle, daytime engagement, and mood – **all without distorting visual color impression.**

### Static (non-tunable)

Static BioUp is used when simple Melanopic Lighting is desired at all times.

Arrow in graph shows BioUp spectrum boost is at 475nm where non-visual biological response is enhanced.



**3500K** or **4000K** or **5000K**

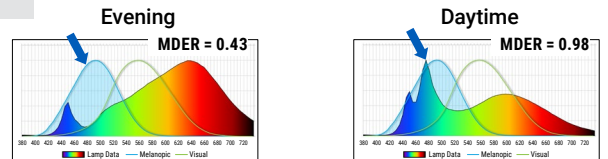
Cyan light component always present



> no CCT control needed

### Dynamic - (Tunable)

Dynamic BioUp is used when Melanopic Lighting is desired to adjust during the day.



Warmer CCT Without Cyan content ← → Cooler Light With Cyan content

**2700K – 5000K**



> Control with Wavelinx, 2ch 0-10V, or DALI