

Project		Catalog #		Type	
Prepared by		Notes		Date	



Portfolio

LER4D/LESQ4D Cylinders

4" Round and Square Cylinder
Surface, Ceiling, Wall, Up/Down, Yoke,
and Stem Mount with high center beam optics
250-5000 Lumens

Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Residential

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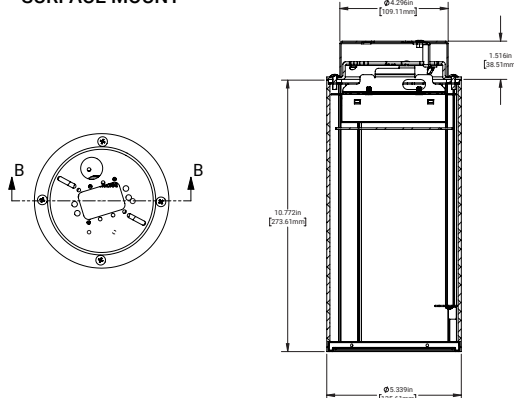


Top Product Features

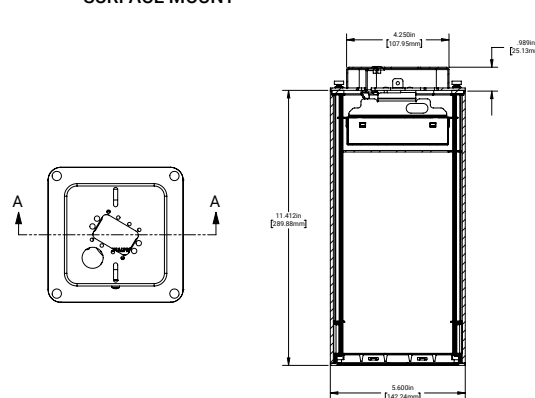
- 250 to 5000 lumens; Offered in 90 and 97 CRI; Downlight
- Optics in 6°, 8°, and 5° increments from 10°-70°; Optional media holder accepts two lens media
- Extruded aluminum housing; Matte Black, White, Bronze and Silver paint finishes, custom finishes available
- 6 color temperatures: 2400K, 2700K, 3000K, 3500K, 4000K and 5000K CCT
- Options to meet Trade Agreements Act requirements

Dimensional and Mounting Details

4IN ROUND CYLINDER SURFACE MOUNT



4IN SQUARE CYLINDER SURFACE MOUNT



[additional product diagrams](#)

Order Information

SAMPLE ORDER NUMBER: LER4D10D010TRP

Domestic Preferences ⁽³⁰⁾	Cylinder	Lumens	Driver	Remote ⁽⁸⁾	Finish ⁽¹⁰⁾	Factory Installed Connected Lighting Options
[Blank] =Standard BAA =Buy American Act TAA = Trade Agreements Act	Ceiling surface mount LER4D =4-inch round surface mount LESQ4D = 4-inch square surface mount square aperture ⁽¹⁾ LESQR4D = 4-inch square surface mount round aperture ⁽²⁾ Ceiling surface mount Square with conduit canopy (for round use Conduit Canopy Kit accessory) LESQSM4D = 4-inch square surface mount square aperture with surface mount conduit canopy ⁽¹⁾ LESQRS4D = 4-inch square surface mount, round aperture with surface mount conduit canopy ⁽²⁾ Wall mount Downlight LERWM4D = 4-inch round wall mount LESQRWM4D = 4-inch square wall mount round aperture ⁽²⁾ LESQWM4D = 4-inch square wall mount square aperture ⁽¹⁾ Wall mount Up/down ⁽⁷⁾ LERUD4D = 4-inch round wall mount up/down ^{(4) (36)} LESQUD4D = 4-inch square wall mount up/down square aperture ^{(3) (36)} LESQRUD4D = 4-inch square wall mount up/down round aperture ^{(4) (36)} Yoke mount LERYM4D = 4-inch round yoke mount ⁽²⁴⁾ LESQYM4D = 4-inch square yoke mount square aperture ^{(1) (24)} LESQRYM4D = 4-inch square yoke mount round aperture ^{(2) (24)}	02 =250 lumens 02B =250 lumens for use with 6° optic ⁽¹⁶⁾ 05 =500 lumens 08 =800 lumens 10 =1000 lumens 15 =1500 lumens 20 =2000 lumens 25 =2500 lumens ⁽³⁷⁾ 30 =3000 lumens ⁽³⁷⁾ 35B =3500 lumens ⁽³⁸⁾ 40B =4000 lumens ⁽³⁸⁾ 45B =4500 lumens ⁽³⁸⁾ 50 =5000 lumens ⁽³⁸⁾	D010 =0-10V Dimming, 1% to 100%, 120V-277V, 500-5000 lumens, Up/Down integral 500-1500 lumens 3D010 =0-10V Dimming, 1% to 100%, 347V, 800-3500 lumens, Up/Down integral 800-1500 lumens (500, 4000-5000 lumens require Remote Driver) D010TR =0-10V (120-277V) or line voltage (120V) dimming, 1% to 100% (250-5000 lumens, Up/Down integral 250-1500 lumens) DE010 =0-10V Linear Dimming, 0.1% to 100%, 120V-277V, 250 lumen (02B only), 800-5000 lumens, Up/Down integral 800-1500 Lumens DSL =Fifth Light® DALI DT6 Logarithmic Dimming, 0.1% to 100%, 120V-277V, 250 lumen (02B only), 800-5000 lumens, Up/Down integral 800-1500 lumens DMX =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 120V-277V, 1000-5000 lumens, Up/Down integral 1000-1500 lumens ⁽⁵⁾ DMXCS =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 120V-277V, with RJ45 connection, 1000-5000, Up/Down integral 1000-1500 lumens ⁽⁵⁾ DLE =Lutron Ecosystem dimming 1% to 100%, 120-277V, 1000-3500 lumens, Up/Down integral 1000-1500 lumens DLV =Low Voltage System, 1000-3500 lumens, Up/Down integral 1000 lumens, remote 1000-1500 lumens	blank =Integral driver R =Remote driver ⁽⁹⁾	P =White MB =Matte Black SL =Silver BZ =Bronze	WPN = WaveLinX PRO Wireless Node without sensor ^{(14) (39)} WLN = WaveLinX LITE Wireless Node without sensor ^{(14) (40)}

SAMPLE ORDER NUMBER: EC4DR3015309035

Domestic Preferences ⁽³⁰⁾	Power Module	Optics	Lumen Levels ⁽¹⁵⁾	Color	Media
[Blank] =Standard BAA =Buy American Act TAA = Trade Agreements Act	EC4D =4-inch cylinder light engine	X =No optic order separately ⁽³⁸⁾ R06 =6° limited to 250 lumens R08 =8° limited to 1000 lumens R10 =10° limited to 2000 lumens R15 =15° limited to 3000 lumens R20 =20° limited to 3000 lumens R25 =25° R30 =30° R35 =35° R40 =40° R45 =45° R50 =50° R55 =55° R60 =60° R65 =65° R70 =70°	For use with 6° Optic 02 =250 Lumens For use with 8° Optic 0210 =250, 500, 800, 1000 Lumens For use with 10° Optic 0210 =250, 500, 800, 1000 Lumens 1520 = 1500, 2000 Lumens For use with 15° and 20° Optic 0210 =250, 500, 800, 1000 lumens 1530 =1500, 2000, 2500, 3000 Lumens For use with 25° to 70° Optic 0215 =250, 500, 800, 1000, 1500 Lumens 2050 =2000, 2500, 3000, 3500, 4000, 4500, 5000 Lumens	90 CRI 9024 = 90CRI, 2400K 9027 = 90CRI, 2700K 9030 = 90CRI, 3000K 9035 = 90CRI, 3500K 9040 = 90CRI, 4000K 9050 = 90CRI, 5000K 97 CRI 9727 = 97CRI, 2700K 9730 = 97CRI, 3000K	Blank =Engine accepts optic only (preferred if media will not be used) 2M =Engine accepts up to 2 lenses or media (optic is recessed in engine)

SAMPLE ORDER NUMBER: 4LBDP3H

Domestic Preferences ⁽¹⁾	Trim	Reflector	Finish
[Blank] =Standard BAA =Buy American Act (S3 spun trim only)	4LB =4" LED	DP3 =45° Cutoff Downlight ⁽⁴¹⁾ S3 =Shallow Downlight CS3 =Cast Shallow Downlight Square (for use with LESQ) SQW3 = 45° Cutoff Anodized Aluminum Downlight ⁽⁴¹⁾ CSSQ3 =Shallow Die Cast Aluminum	LI =Specular Clear ⁽¹⁷⁾ H =Semi-Specular Clear ⁽¹⁷⁾ WMH =Warm Haze ⁽¹⁷⁾ WH =Wheat ⁽¹⁷⁾ GPH =Graphite Haze ⁽¹⁷⁾ B =Specular Black ⁽¹⁷⁾ MW =Matte White ⁽¹⁷⁾ MB =Matte Black ⁽¹⁸⁾ MMS =Matte Metallic Silver ⁽¹⁸⁾

Order Information

REQUIRED if Remote Driver (R) is specified on Cylinder

Domestic Preferences ⁽³⁰⁾	Remote Drivers ⁽⁸⁾	Lumens	Voltage	Driver
[Blank] =Standard TAA = Trade Agreements Act	RD100 =Remote 100 ft RD75 = Remote 75 ft RD50 = Remote 50 ft RD25 = Remote 25 ft RD15 = Remote 15 ft RD5 = Remote 5 ft RD2 = Remote 2 ft	02 =250 lumens 02B =250 lumens for use with 6" optic ⁽¹⁶⁾ 05 =500 lumens 08 =800 lumens 10 =1000 lumens 15 =1500 lumens 20 =2000 lumens 25 =2500 lumens ⁽³⁷⁾ 30 =3000 lumens ⁽³⁷⁾ 35B =3500 lumens ⁽³⁸⁾ 40B =4000 lumens ⁽³⁸⁾ 45B =4500 lumens ⁽³⁸⁾ 50 =5000 lumens ⁽³⁸⁾	blank =120-277V (250-1500 lumens) ⁽¹¹⁾ 1 =120V (2000-5000 lumens only) 2 =277V (2000-5000 lumens only) 3 =347V ⁽³⁴⁾	D010 =0-10V Dimming, 1% to 100%, 120V-277V, 500 to 1500 lumens 1D010 =0-10V Dimming, 1% to 100%, 120V, 2000 to 5000 lumens 2D010 =0-10V Dimming, 1% to 100%, 277V, 2000 to 5000 lumens 3D010 =0-10V Dimming, 1% to 100%, 347V, 250 to 5000 lumens D010TR =0-10V (120-277V) or line voltage (120V) dimming, 1% to 100% 250 to 1500 lumens 1D010TR = 0-10V or line voltage Dimming, 1% to 100%, 120V, 2000 to 5000 lumens 2D010TR = 0-10V or line voltage Dimming, 1% to 100%, 277V, 2000 to 5000 lumens 3D010TR = 0-10V Dimming, 1% to 100%, 347V step down transformer, 250 to 5000 lumens DE010 =0-10V Linear Dimming, 0.1% to 100%, 120V-277V, 250 lumen (02B only), 800 to 1500 lumens 1DE010 =0-10V Dimming, 0.1% to 100%, 120V, 2000 to 5000 lumens 2DE010 =0-10V Dimming, 0.1% to 100%, 277V, 2000 to 5000 lumens 3DE010 =0-10V Dimming, 0.1% to 100%, 0-10V Dimming, 347V step down transformer, 800 to 5000 lumens D5LT =Fifth Light® DALI DT6 Logarithmic Dimming, 0.1% to 100%, 120V-277V, 250 lumen (02B only), 800 to 1500 lumens, 1D5LT =Fifth Light® DALI DT6 Logarithmic Dimming, 0.1% to 100%, 120V, 2000 to 5000 lumens 2D5LT =Fifth Light® DALI DT6 Logarithmic Dimming, 0.1% to 100%, 277V, 2000 to 5000 lumens 3D5LT =Fifth Light® DALI DT6 Logarithmic Dimming, 0.1% to 100% 347V step down transformer, 800 to 5000 lumens DMX =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 120V-277V, 1000 to 1500 lumens ⁽⁶⁾ 1DMX = DMX/RDM Logarithmic Dimming, 0.1% to 100%, 120V, 2000 to 5000- lumens ⁽⁶⁾ 2DMX =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 277V, 2000 to 5000 lumens ⁽⁶⁾ 3DMX =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 347V step down transformer, 1000 to 5000 lumens ⁽⁶⁾ DMXC5 =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 120V-277V, with RJ45 connection, 1000 to 1500 ⁽⁶⁾ 1DMXC5 =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 120V, 2000 to 5000 lumens ⁽⁶⁾ 2DMXC5 =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 277V, 2000 to 5000 lumens ⁽⁶⁾ 3DMXC5 =DMX/RDM Logarithmic Dimming, 0.1% to 100%, 347V step down transformer, 1000 to 5000 lumens, RJ45 Connection DLE =Lutron Ecosystem dimming 1% to 100%, 120-277V; 1000 to 1500 lumens ⁽¹²⁾ 1DLE =Lutron Ecosystem dimming 1% to 100%, 120V, 2000 to 3500 lumens ⁽¹²⁾ 2DLE =Lutron Ecosystem dimming 1% to 100%, 277V, 2000 to 3500 lumens ⁽¹²⁾ 3DLE =Lutron Ecosystem dimming 1% to 100%, 347V step down transformer, 1000 to 3500 lumens ⁽¹²⁾ DLV =Low Voltage System, 1000 to 1500 lumens
Options ^{(31) (33)}				Controls
EMB0D =Bodine® 7W Emergency Module with Remote Test Switch EMB0D6ST =Bodine® 6W Self Test Emergency Module with Remote Test Switch EM7 =7W Emergency Module with Remote Test Switch EM14 =14W Emergency Module with Remote Test Switch EMB0D7ST =Bodine® Self Test Emergency Module EMV7 =7W Low Voltage Emergency Module with Remote Test Switch ⁽²¹⁾ EMV14 =14W Low Voltage Emergency Module with Remote Test Switch ⁽²¹⁾ ETRD =Emergency transfer device ⁽³²⁾				WPST =Factory installed Wavelinx (includes control module, sensor, cable, tile mount and ceiling mount sensor) ^{(14) (28)} WLST =Factory installed WaveLinX Lite Sensor Kit ^{(14) (27)} WPN = WaveLinX PRO Wireless Node without sensor ^{(14) (39)} WLN = WaveLinX LITE Wireless Node without sensor ^{(14) (40)}

continued on next page

Order Information

Domestic Preferences ⁽³⁰⁾	Accessories			Type	Lengths
[Blank] =Standard TAA = Trade Agreements Act BAA =Buy American Act	Pendant Kit ^{(19) (20)} P436P =White pendant stem kit for suspended mount cylinder P436BZ =Bronze pendant stem kit for suspended mount cylinder P436MB =Matte black pendant stem kit for suspended mount cylinder P436SL =Silver pendant stem kit for suspended mount cylinder			Blank =5 conductor for use with 0-10V driver 3C =3 conductor for use with 120 or 277V 5C = 5 conductor for use with D5LT drivers DMX =No conductors for use with DMX and remote drivers RM = for Remote drivers	Blank =36" SP =* Specify 6" to 144" in 1" increments
	Conduit pendant kit ^{(19) (26)} PMRCC4P = Round pendant stem kit for use with round surface cylinder with conduit knockout cover, white PMRCC4MB = Round pendant stem kit for use with round surface cylinder with conduit knockout cover, black PMRCC4CZ = Round pendant stem kit for use with round surface cylinder with conduit knockout cover, bronze PMRCC4SL = Round pendant stem kit for use with round surface cylinder with conduit knockout cover, silver PMSQCC4P = Square pendant stem kit for use with round surface cylinder with conduit knockout cover, white PMSQCC4MB = Square pendant stem kit for use with round surface cylinder with conduit knockout cover, black PMSQCC4CZ = Square pendant stem kit for use with round surface cylinder with conduit knockout cover, bronze PMSQCC4SL = Square pendant stem kit for use with round surface cylinder with conduit knockout cover, silver				Blank =36" SP =* Specify 6" to 144" in 1" increments
	Aircraft cable ^{(19) (26)} AC4120P =120" white aircraft cable kit AC448P =48" white aircraft cable kit AC4120MB =120" black aircraft cable kit AC448MB =48" black aircraft cable kit			Blank =5 conductor DMXC5 =DMX/RDM logarithmic Dimming with RJ45 connection	
[Blank] =Standard TAA = Trade Agreements Act	LNE4RUD =up/down gasketed lens, wet location, round LNS4SQUD = up/down gasketed lens, wet location square Conduit Kit ⁽²⁶⁾ SMRCC4P = Round conduit canopy for round surface mount, white SMRCC4MB = Round conduit canopy for round surface mount, black SMRCC4CZ = Round conduit canopy for round surface mount, bronze SMRCC4SL = Round conduit canopy for round surface mount, silver Connected Lighting Systems ⁽¹⁴⁾ WPST =Field installed WaveLinX sensor Kit ⁽²⁸⁾ WLST =Field installed WaveLinX Lite Sensor Kit ⁽²⁷⁾	Optics 46R25 =25° 46R30 = 30° 46R35 = 35° 46R40 = 40° 46R45 = 45° 46R50 = 50° 46R55 = 55° 46R60 = 60° 46R65 = 65° 46R70 = 70°	Color Filters ⁽⁴²⁾ F22-20 =Red F33-20 =Blue F44-20 =Green F55-20 =Yellow F66-20 =Mercury	Dichronic Filters ⁽⁴²⁾ 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 ⁽⁴²⁾ LSL-20 =Linear Spread Lens OSL-20 =Overall Spread Lens DIF-20 =Diffused Lens Asymmetric Film ⁽⁴²⁾ 46ASYMFILM =Asymmetric Film (see chart for distribution) Louvers ⁽⁴²⁾ LVR-20 =Hex Cell Louver

Notes

1. Square reflector
2. Round reflector
3. Square reflector, requires two reflectors and light engines
4. Round reflector, requires two reflectors and light engines
5. 347V integral D010 only. 800-3500 lumens for integral driver. 250, 500, 4000 lumens for remote driver.
6. DMX fixtures default to full on upon loss of DMX signal
7. Limited to 1500 lumens with integral driver, 5000 lumens with remote driver
8. Up down surface mount require 2 driver assemblies
9. Order remote driver separately. See below to order.
10. Consult factory for custom finishes.
11. 1500 and below. Up to 1500 lumens does not need voltage specified.
12. Only available up to 25 ft.
13. Not available with up/down

14. Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver. Factory installed only when using with remote driver. Specify on remote driver assembly.
15. Nominal Lumens will vary depending on selected color, driver and reflector finish.
16. For use with DE010 and D5LT drivers
17. Not available on CS distributions
18. Available with CS distributions
19. Order with ceiling mount cylinder.
20. 0-45° slope.
21. ULus listed only
24. Ceiling mount only
26. Not for use with remote driver
27. WLST = WaveLinX Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX Lite system specifications)
28. WPST = WaveLinX wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only

30. To order product that is compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act (TAA), use the online specification configurator to specify BAA or TAA. Please refer to [DOMESTIC PREFERENCES LINK](#) 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.
31. 120V-277V
32. Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others).
33. Non-IC
34. D010 800 to 4000 lumens. 250, 500 and 4000 lumens use step down transformer) All other drivers use step down transformer.
36. DMX drivers with shallow trim only.
37. Offered with 15° and above distributions.
38. Offered with 25° and above distributions.

39. 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.
40. 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.
41. Not available with up/down cylinder.
42. Requires 2M designation on light engine.

Product Specifications

Lower Reflector

- Painted die-cast aluminum or spun aluminum reflector provides superior lumen output with minimal source brightness
- Square surface mount available with square or round reflectors
- Spun reflectors are available in all Portfolio finishes
- Upper portion of specular clear and wheat finish, 45° (DP) reflector is painted black to ensure a quiet appearance without image reflection

Optic

- Interchangeable silicone optic in 5° increments from 25°-70° providing smooth beam without color separation
- Available media holder fits onto optic holder and holds up to two lens media

Trim retention

- Two torsion springs hold flange tightly to the cylinder lip

Cylinder

- Round and soft square extruded aluminum
- Matte white, bronze, silver or matte black. Contact 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
- Conduit canopy allows for mounting pendant and surface cylinder on hard ceilings provided in painted finish to match the cylinder accommodates ½" or ¾" conduit.

Thermal

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

LED System

- Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded
- Quick disconnect allows for tool-less replacement of LED engine from below ceiling
- 90 and 97 CRI
- 90 & 97CRI: L78 55,000 hours for 1000-2000 lumens, L90 55,000 for all other lumen output
- Color variation within 2-step MacAdam ellipses
- Available in 2400K, 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)

Vividthune and BioUp (Available Option)

- W2N: L70 55,000 hours
- 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. Standard
- See dedicated specification sheet for more details.

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®
- Remote driver option up to 100' based on driver selection
- Distributed low voltage power system combines power, lighting, and controls with ease of installation.

Emergency Option

- Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- Available Self-Test (self-diagnostic) with remote charge indicator and test switch
- Emergency Transfer Relay Device bypasses local control during a power outage
- UL 924 listed

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

- cULus Certified to UL 1598 / C22.2 No. 250.0 suitable for damp locations with covered ceiling
- Wall mount cULus Listed for wet locations, requires lens accessory
- 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

Energy and Performance Data

D010 DRIVER ENERGY DATA

Series	250 Lumen		500 Lumen		750 Lumen		1000 Lumen		1500 Lumen		2000 Lumen	
Input Voltage 120-277 VAC	120	277	120	277	120	277	120	277	120	277	120	277
Input Current (A)	0.029	0.017	0.054	0.027	0.065	0.031	0.09	0.045	0.129	0.057	0.194	0.086
Input Power (W)	3.4	3.9	6.5	6.9	7.7	8.1	10.7	11.1	15.5	15.4	23.2	23.1
In-rush (A)	2.1	9.15	2.1	9	2.1	9	2.1	9.1	2.1	9.3		11.1
Inrush duration	250	127	254	128	249	142	255	153	255	236	246	115
THDi (%)	8.2	19.9	7.8	14	8.1	11.2	6.6	9.7	11.5	6.6	9.1	11.1
PF	0.99	0.83	0.99	0.91	0.99	0.93	1.0	0.97	0.99	0.98	0.97	0.97

Series	2500 Lumen		3000 Lumen		3500 Lumen		4000 Lumen		4500 Lumen		5000 Lumen	
Input Voltage 120-277 VAC	120	277	120	277	120	277	120	277	120	277	120	277
Input Current (A)	0.23	0.103	0.27	0.128	0.278	0.133	0.294	0.137	0.33	0.153	0.414	0.185
Input Power (W)	27.5	276	32.3	32.5	33.2	34.2	35.20	35.6	39.5	40	49.5	49
In-rush (A)	2.6	12.5	2.6	12.9	1.1	2.6	3.03	14.4	1.1	2.5	3.2	14.4
Inrush duration	231	197	212	124	59	38	214	167	60	39	194	169
THDi (%)	7.6	8.8	9.1	16.5	7.3	15.9	4.3	10.9	4.6	12.1	4.7	7.7
PF	1.0	0.97	1.0	0.97	1.0	0.93	1.0	0.93	1.0	0.95	1.0	0.96

Minimum starting temperature -30°C (-22°F)*
(Nominal input 120-277VAC & 100% of rated output power)

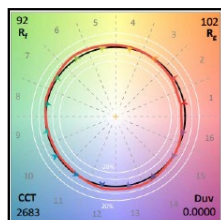
Sound Rating: Class A standards

Notes:

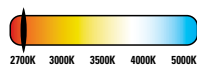
Emergency Battery packs are rated for a minimum starting temperature of 0°C.

COLOR METRICS - TM-30-15 & CRI/CIE

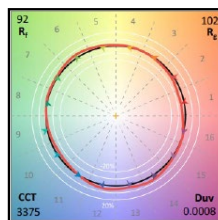
90 CRI Color Metric Summary - 2700K*



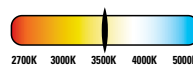
TM-30-15	Rf = 92.1
	Rg = 101.6
CRI/CIE	Ra = 93.8
	R9 = 59.7



90 CRI Color Metric Summary - 3500K*



TM-30-15	Rf = 91.9
	Rg = 101.6
CRI/CIE	Ra = 93.0
	R9 = 62.8

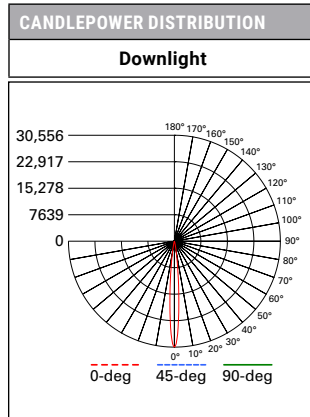


* Color values are based on haze reflector, other finishes and field results may vary.

Photometric Data



10° with 4LBS and 4LBDP reflector	
Test Number	P735992
Housing	LE*4D15D010
Module	EC4DR1015209035
Lumens	1403
Efficacy	88.8 Lm/W
SC	0.17
UGR	10



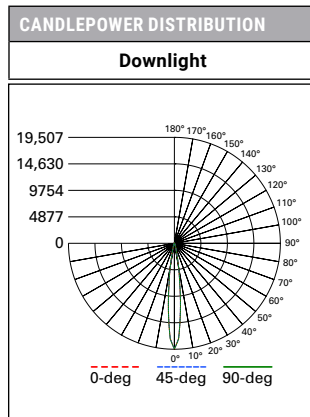
CONE OF LIGHT

D	FC	L	W
6'	848.8	0.8	0.8
8'	477.4	1.2	1.2
10'	305.6	1.6	1.6
12'	212.2	1.8	1.8
15'	135.8	2.4	2.4

CANDELA TABLE

Degrees Vertical	0-deg
0	30556
5	14434
15	788
25	160
35	56
45	21
55	7
65	0
75	0
80	0

15° with 4LBS and 4LBDP reflector	
Test Number	P735994
Housing	LE*4D15D010
Module	EC4DR1015209035
Lumens	1432
Efficacy	90.6 Lm/W
SC	0.22
UGR	10



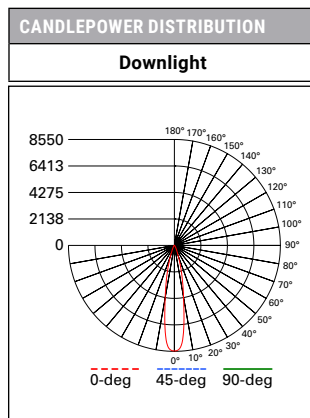
CONE OF LIGHT

D	FC	L	W
6'	541.9	1.2	1.2
8'	304.8	1.6	1.6
10'	195.1	2.2	2.2
12'	135.5	2.6	2.6
15'	86.7	3.2	3.2

CANDELA TABLE

Degrees Vertical	0-deg
0	19507
5	12692
15	1102
25	130
35	26
45	12
55	8
65	5
75	2
80	2

20° with 4LBS and 4LBDP reflector	
Test Number	P735996
Housing	LE*4D15D010
Module	EC4DR1015209035
Lumens	1502
Efficacy	95.1 Lm/W
SC	0.34
UGR	10



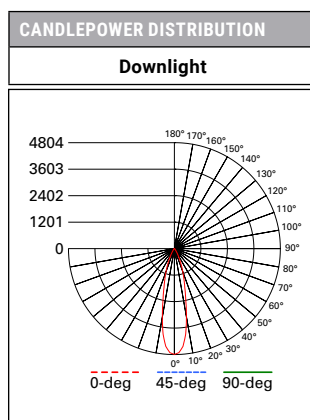
CONE OF LIGHT

D	FC	L	W
6'	237.5	2	2
8'	133.6	2.6	2.6
10'	85.5	3.4	3.4
12'	59.4	4	4
15'	38	5	5

CANDELA TABLE

Degrees Vertical	0-deg
0	8550
5	7685
15	2126
25	390
35	100
45	27
55	7
65	2
75	0
80	0

25° with 4LBS and 4LBDP reflector	
Test Number	P735998
Housing	LE*4D15D010
Module	EU4DR2502151C9035
Trim	4LBS1MW
Lumens	1267
Efficacy	80.2 Lm/W
SC	0.42
UGR	10



CONE OF LIGHT

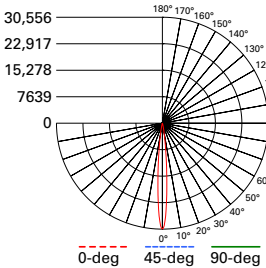
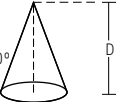
D	FC	L	W
6'	133.5	2.4	2.4
8'	75.1	3.2	3.2
10'	48	4.2	4.2
12'	33.4	5	5
15'	21.4	6.2	6.2

CANDELA TABLE

Degrees Vertical	0-deg
0	4804
5	4458
15	1816
25	582
35	91
45	21
55	5
65	2
75	0
80	0

Photometric Data



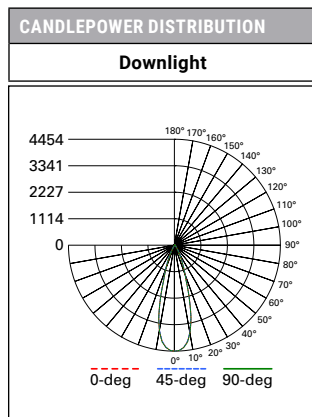
10° with 4LBS and 4LBDP reflector		CANDLEPOWER DISTRIBUTION	CONE OF LIGHT				CANDELA TABLE	
Test Number	P735992	Downlight 					Degrees Vertical	0-deg
Housing	LE*4D15D010		0	30556				
Module	EU4DR1015209035	5	14434					
Trim	4LBS1MW	15	788					
Lumens	1403	25	160					
Efficacy	88.8 Lm/W	35	56					
SC	0.17	45	21					
UGR	10	55	7					
		65	0					
		75	0					
		80	0					

15° with 4LBS and 4LBDP reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE					
Test Number	P735994	Downlight										Degrees Vertical	0-deg
Housing	LE*4D15D010							D	FC	L	W		
Module	EU4DR1515309035							6'	541.9	1.2	1.2	0	19507
Trim	4LBS1MW							8'	304.8	1.6	1.6	5	12692
Lumens	1432							10'	195.1	2.2	2.2	15	1102
Efficacy	90.6 Lm/W							12'	135.5	2.6	2.6	25	130
SC	0.22							15'	86.7	3.2	3.2	35	26
UGR	10											45	12
												55	8
												65	5
												75	2
												80	2

20° with 4LBS and 4LBDP reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE	
Test Number P735996		Downlight						Degrees Vertical	0-deg
Housing	LE*4D15D010			D	FC	L	W	0	8550
Module	EU4DR2015309035			6'	237.5	2	2	5	7685
Trim	4LBS1MW			8'	133.6	2.6	2.6	15	2126
Lumens	1502			10'	85.5	3.4	3.4	25	390
Efficacy	95.1 Lm/W			12'	59.4	4	4	35	100
SC	0.34			15'	38	5	5	45	27
UGR	10							55	7
								65	2
								75	0
								80	0

25° with 4LBS and 4LBDP reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE	
Test Number P735998		Downlight						Degrees Vertical	0-deg
Housing	LE*4D15D010			D	FC	L	W	0	4804
Module	EU4DR2502151C9035			6'	133.5	2.4	2.4	5	4458
Trim	4LBS1MW			8'	75.1	3.2	3.2	15	1816
Lumens	1267			10'	48	4.2	4.2	25	582
Efficacy	80.2 Lm/W			12'	33.4	5	5	35	91
SC	0.42			15'	21.4	6.2	6.2	45	21
UGR	10							55	5
								65	2
								75	0
								80	0

30° with 4LBS and 4LBDP reflector	
Test Number	P736000
Housing	LE*4D15D010
Module	EU4DR300215IC9035
Trim	4LBS1MW
Lumens	1385
Efficacy	87.7 Lm/W
SC	0.52
UGR	10



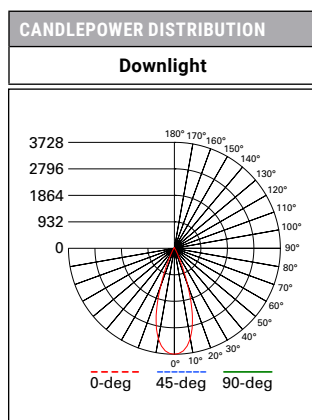
CONE OF LIGHT

D	FC	L	W
6'	123.7	3	3
8'	69.6	4	4
10'	44.5	5.2	5.2
12'	30.9	6.2	6.2
15'	19.8	7.8	7.8

CANDELA TABLE

Degrees Vertical	0-deg
0	4454
5	4310
15	2362
25	555
35	93
45	24
55	4
65	1
75	0
80	0

35° with 4LBS and 4LBDP reflector	
Test Number	P736002
Housing	LE*4D15D010
Module	EU4DR350215IC9035
Trim	4LBS1MW
Lumens	1355
Efficacy	85.8 Lm/W
SC	0.6
UGR	10



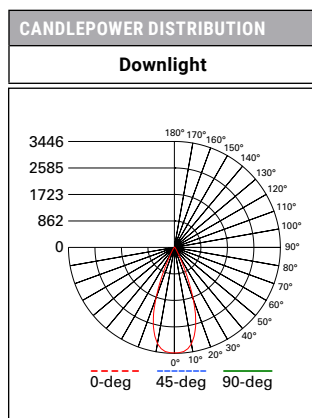
CONE OF LIGHT

D	FC	L	W
6'	103.6	3.4	3.4
8'	58.2	4.6	4.6
10'	37.3	5.8	5.8
12'	25.9	7	7
15'	16.6	8.8	8.8

CANDELA TABLE

Degrees Vertical	0-deg
0	3728
5	3627
15	2460
25	509
35	94
45	32
55	12
65	3
75	0
80	0

40° with 4LBS and 4LBDP reflector	
Test Number	P736004
Housing	LE*4D15D010
Module	EU4DR400215IC9035
Trim	4LBS1MW
Lumens	1480
Efficacy	93.7 Lm/W
SC	0.68
UGR	10



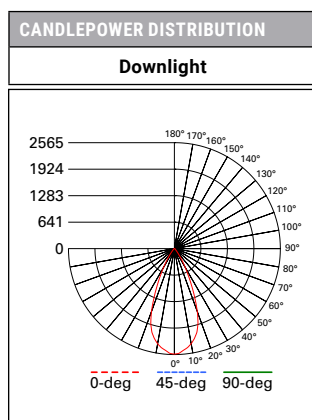
CONE OF LIGHT

D	FC	L	W
6'	95.7	4	4
8'	53.8	5.4	5.4
10'	34.5	6.6	6.6
12'	23.9	8	8
15'	15.3	10	10

CANDELA TABLE

Degrees Vertical	0-deg
0	3446
5	3416
15	2661
25	710
35	94
45	20
55	4
65	1
75	0
80	0

45° with 4LBS and 4LBDP reflector	
Test Number	P736006
Housing	LE*4D15D010
Module	EU4DR450215IC9035
Trim	4LBS1MW
Lumens	1451
Efficacy	91.8 Lm/W
SC	0.75
UGR	10



CONE OF LIGHT

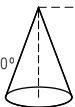
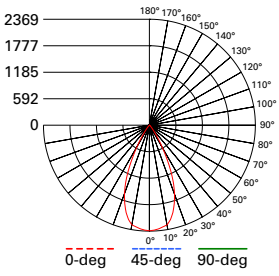
D	FC	L	W
6'	71.3	4.4	4.4
8'	40.1	5.8	5.8
10'	25.7	7.4	7.4
12'	17.8	8.8	8.8
15'	11.4	11.2	11.2

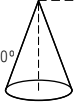
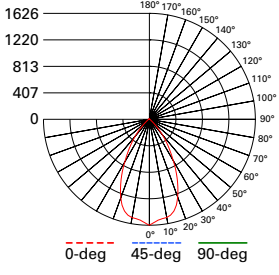
CANDELA TABLE

Degrees Vertical	0-deg
0	2565
5	2482
15	2108
25	980
35	219
45	35
55	7
65	1
75	0
80	0

Photometric Data



50° with 4LBS and 4LBDP reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE	
Test Number	P736008	Downlight				Degrees Vertical	0-deg
Housing	LE*4D15D010			D	FC	L	W
Module	EU4DR500215IC9035			6'	65.8	4.6	4.6
Trim	4LBS1MW			8'	37	6.2	6.2
Lumens	1471			10'	23.7	7.8	7.8
Efficacy	93.1 Lm/W			12'	16.5	9.4	9.4
SC	0.8	15'	10.5	11.8	11.8		
UGR	10						

55° with 4LBS and 4LBDP reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE	
Test Number	P736010	Downlight						Degrees Vertical	0-deg
Housing	LE*4D15D010			D	FC	L	W	0	1626
Module	EU4DR550215IC9035			6'	45.2	5.2	5.2	5	1555
Trim	4LBS1MW			8'	25.4	7	7	15	1459
Lumens	1450			10'	16.3	8.8	8.8	25	1014
Efficacy	91.8 Lm/W			12'	11.3	10.6	10.6	35	502
SC	0.89	15'	7.2	13.2	13.2	45	127		
UGR	13					55	14		
						65	1		
						75	0		
						80	0		

60° with 4LBS reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE	
Test Number	P736013	Downlight					Degrees Vertical	0-deg	
Housing	LE*4D15D010				D	FC	L	W	
Module	EU4DR600215IC9035			6'	39.5	5.8	5.8	0	1423
Trim	4LBS1MW			8'	22.2	7.8	7.8	5	1414
Lumens	1422			10'	14.2	9.8	9.8	15	1418
Efficacy	90 Lm/W			12'	9.9	11.6	11.6	25	1042
SC	0.98			15'	6.3	14.6	14.6	35	507
UGR	13							45	104
								55	14
								65	1
								75	0
								80	0

60° with 4LDP reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE			
Test Number	P736012	Downlight								Degrees Vertical	0-deg
Housing	LE*4D15D010					D	FC	L	W	0	1529
Module	EU4DR600215IC9035			6'	43.5	5.2	5.2	5	1561		
Trim	4LBDP1MW			8'	24.5	7	7	15	1459		
Lumens	1287			10'	15.7	8.8	8.8	25	976		
Efficacy	81.5 Lm/W			12'	10.9	10.6	10.6	35	299		
SC	0.91			15'	7	13.4	13.4	45	41		
UGR	14							55	34		
								65	27		
								75	17		
								80	11		

Photometric Data

Photometric Multipliers (Nominal Lumen Values)

250 Lumen	500 Lumen	800 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen	4000 Lumen	4500 Lumen
0.26	0.47	0.56	0.74	1.00	1.37	1.77	1.99	1.31	1.54	1.68
5000 Lumen	5500 Lumen	6000 Lumen	6500 Lumen	7000 Lumen	7500 Lumen	8000 Lumen	8500 Lumen	9000 Lumen	9500 Lumen	
1.98	2.23	2.46	2.72	2.77	2.93	3.11	3.31	3.51	3.60	

Multipliers for relative lumen values with other series models.

CCT Multipliers – 90CRI

2400K	2700K	3000K	3500K	4000K	5000K
0.81	0.92	0.92	0.96	1	1.01

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers – 97CRI

2700K	3000K	3500K	4000K	5000K
0.88	0.95	1	1.016	1.07

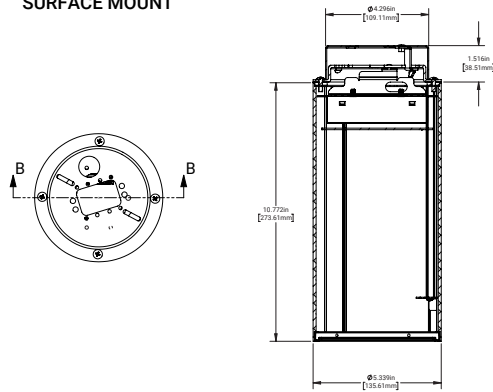
Multipliers for relative lumen values with other series color temperatures.

Asymmetric Film Distribution

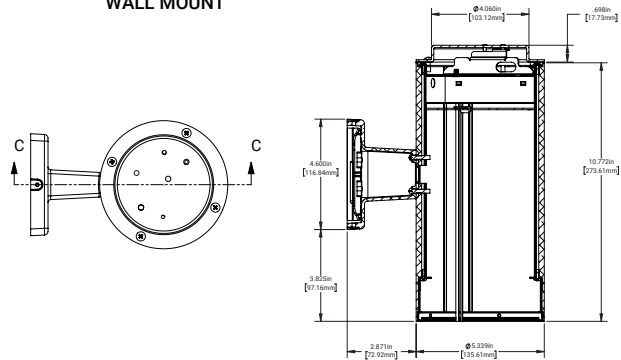
TIR	Short Axis Beam angle	Long Axis Beam angle
R10	12°	27.4°
R15	15°	28°
R20	21°	32°
R30	32°	37°
R35	32°	40°
R40	28°	37°
R45	41°	45°
R50	42°	46°

Dimensional and Mounting Details

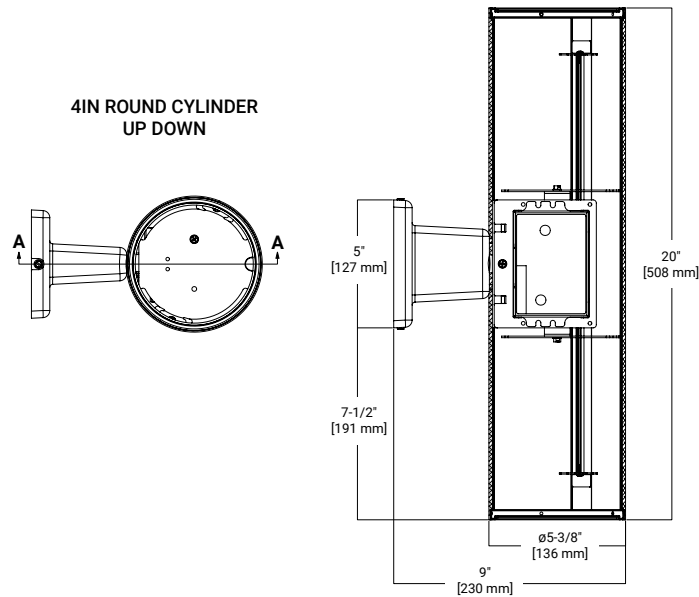
4IN ROUND CYLINDER
SURFACE MOUNT



4IN ROUND CYLINDER
WALL MOUNT

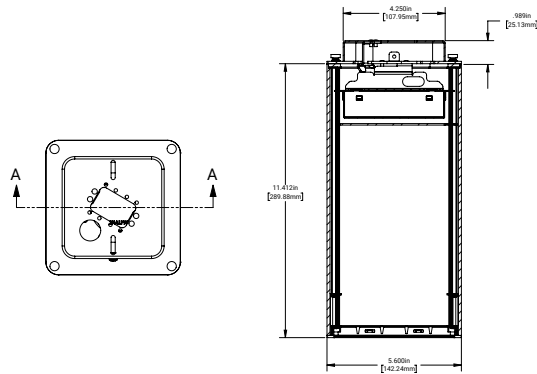


4IN ROUND CYLINDER
UP DOWN

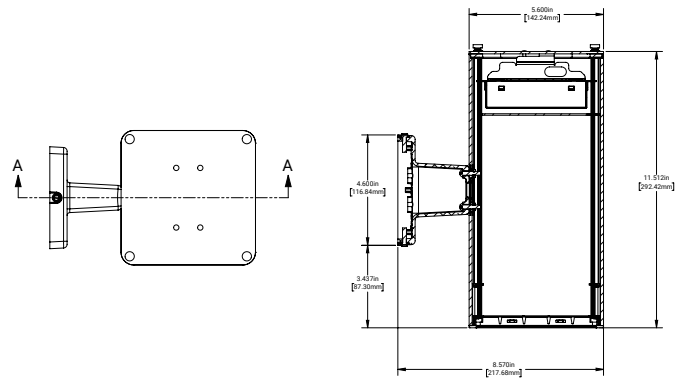


Dimensional and Mounting Details

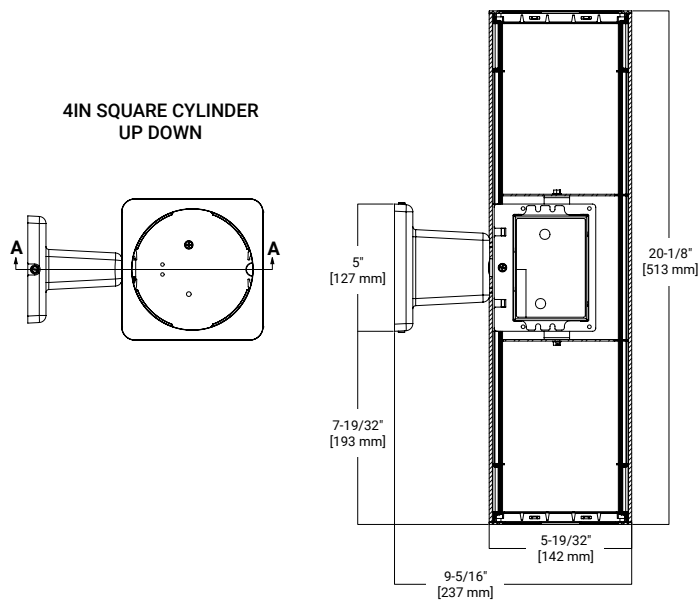
4IN SQUARE CYLINDER
SURFACE MOUNT



4IN SQUARE CYLINDER
WALL MOUNT

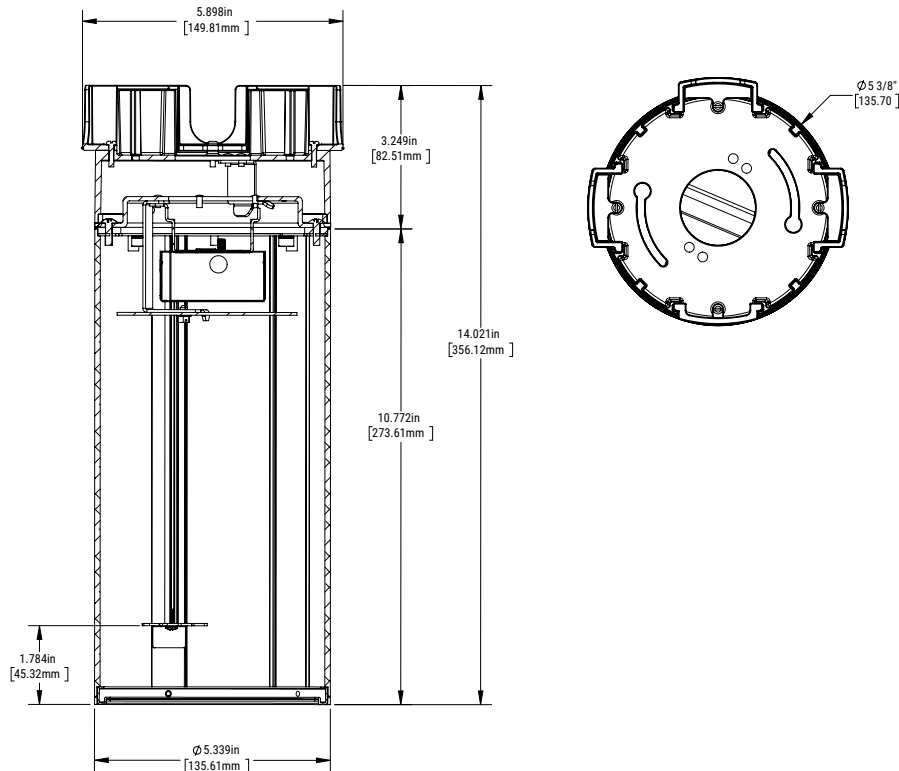


4IN SQUARE CYLINDER
UP DOWN

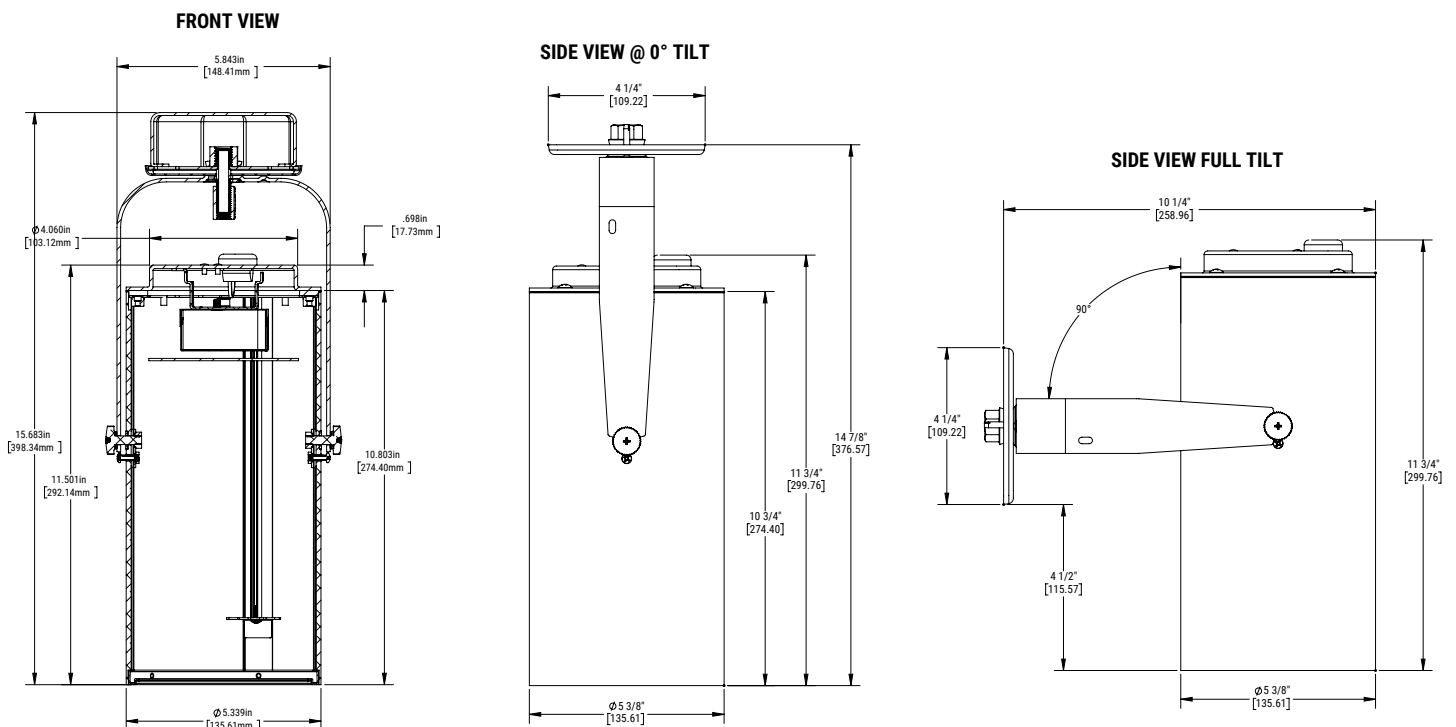


Dimensional and Mounting Details

4" ROUND CONDUIT CANOPY

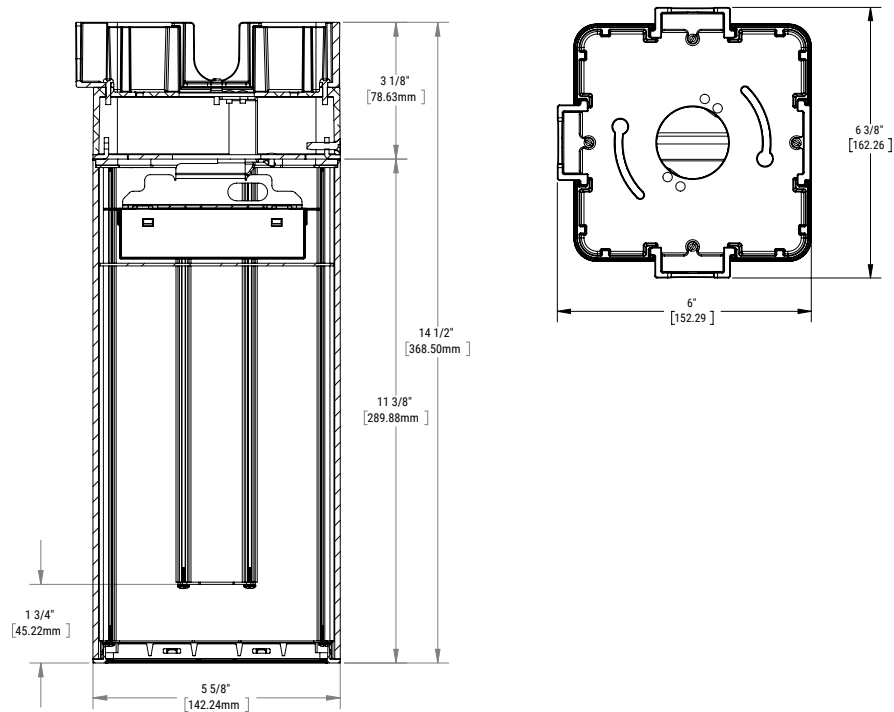


4" ROUND, YOKE MOUNT



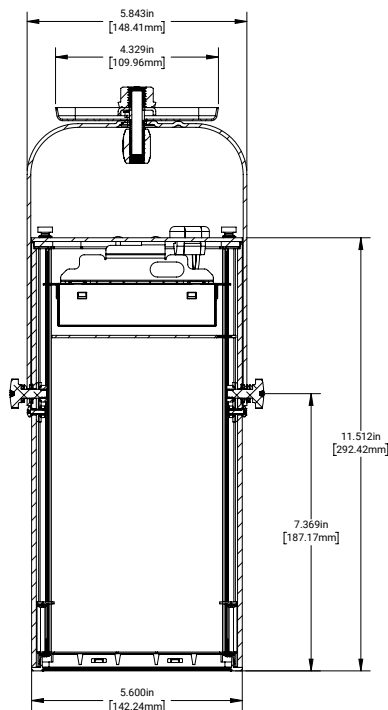
Dimensional and Mounting Details

4" SQUARE CONDUIT CANOPY

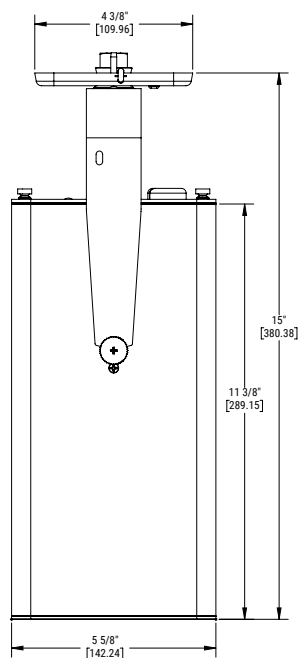


4" SQUARE YOKE MOUNT

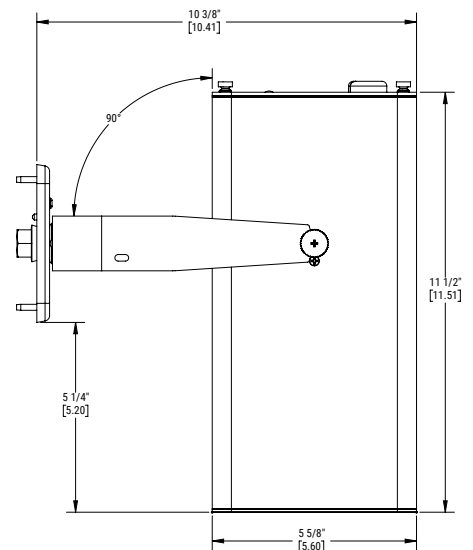
FRONT VIEW



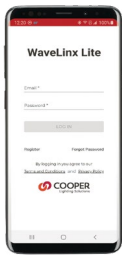
SIDE VIEW @ 0° TILT



SIDE VIEW FULL TILT



Connected Systems



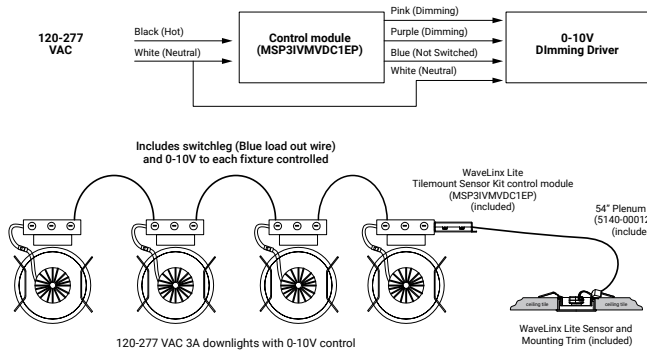
WaveLinX LITE - WLST Tilemount Sensor

WaveLinX LITE devices only compatible with the WaveLinX LITE system.

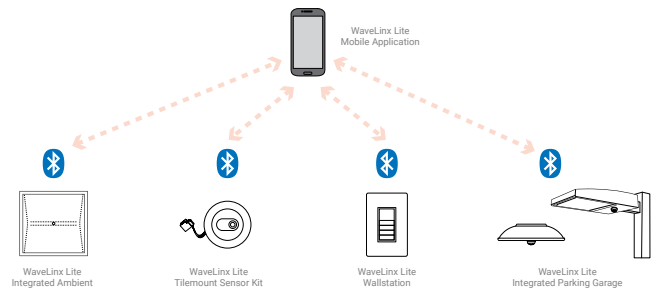
- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic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

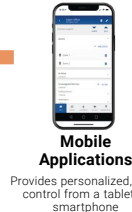
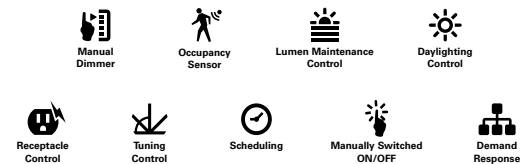


WaveLinX PRO Wireless – WPST Tilemount Sensor

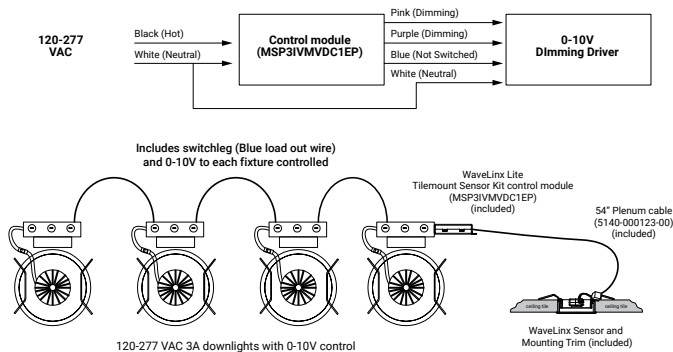
WaveLinX PRO devices only compatible with the WaveLinX PRO system.

- 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

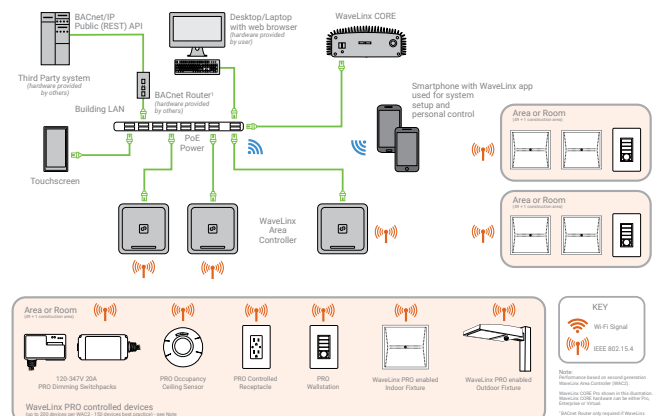
WaveLinX mobile app settings



WaveLinX PRO WPST Tilemount Wiring Diagram



WaveLinX CORE Building Management Integration



Connected Solutions



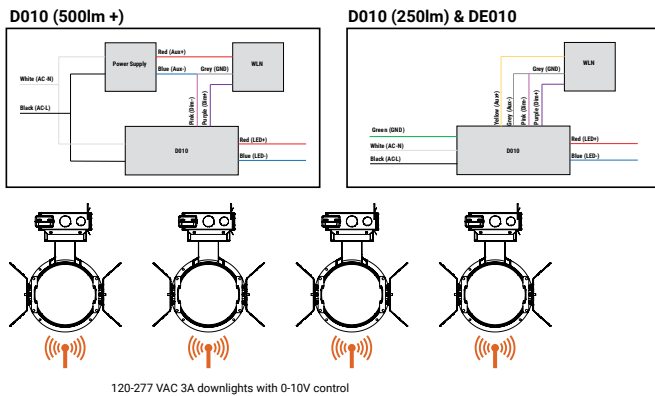
WaveLinX LITE Wireless Node - WLN

- 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



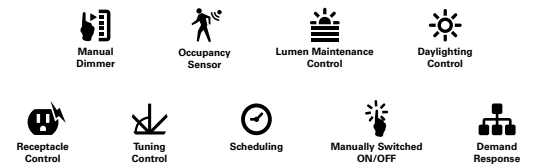
WaveLinX PRO Wireless Node - WPN

- 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

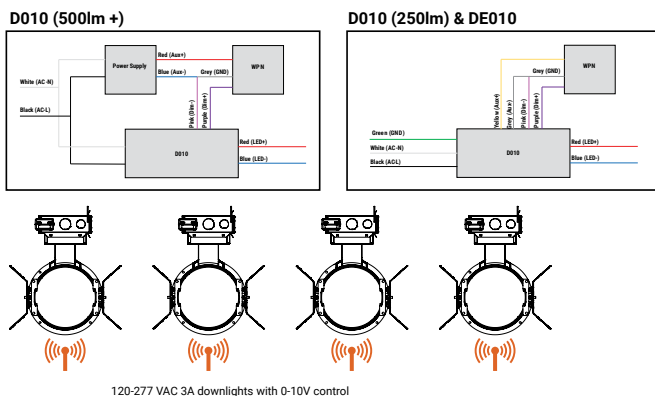
WaveLinX PRO devices only compatible with the WaveLinX PRO system.



WaveLinX mobile app settings



WaveLinX PRO Wireless Node (WPN) Wiring Diagram



WaveLinX CORE Building Management Integration

