Project		Catalog #		Type	
Prepared by		**Notes**		**Date**	
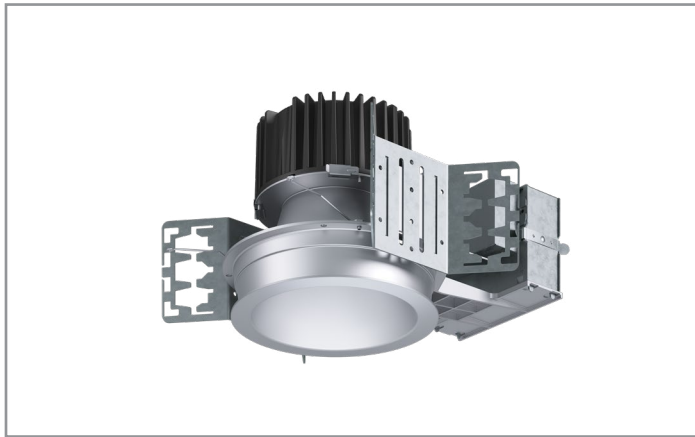
Portfolio
LD4D | EU4D | 4LB

4" Round, New Construction Downlight
with high center beam optics
250-9500 Lumens

Typical Applications

Office • Education • Healthcare • Hospitality • Retail •
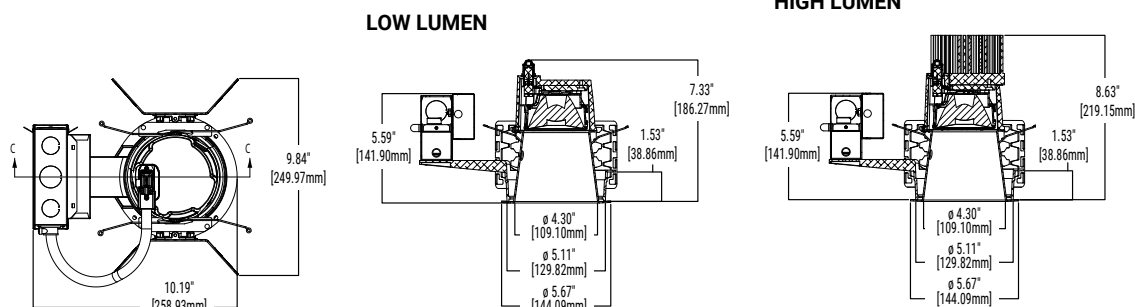Code-Compliance Areas • Sports Venues

🚀 Interactive Menu

ENERGY STAR · UL CERTIFIED · Efficiency Standards T24 Can be used to comply with Title 24 Part 6 LED Enclosed Light Source Requirements (JA8) · RoHS COMPLIANT · CHICAGO PLENUM APPROVED

WaveLinx LITE · WaveLinx PRO · powered by fifthlight technology · BAA BUY AMERICAN ACT AVAILABLE · TAA TRADE AGREEMENTS ACT AVAILABLE

2022 PROGRESS Report SELECTION · 2024 PROGRESS Report SELECTION

Top Product Features

- 250-9500 lumens; Offered in 90 and 97 CRI; ENERGY STAR® qualified
- Optics in 6°, 8°, and 5° increments from 10°-70°; Optional media holder accepts two lens media
- Optional snap in driver for ease of replacement
- Standard 0-10V driver dims to 1%
- 2400K, 2700K, 3000K, 3500K, 4000K, 5000K; D2W™ option from 3000K to 1850K
- Available W2N tunable white CCT range 2700K to 6500K or 2000K to 5000K
- Options to meet Buy American and other domestic preference requirements

Dimensional and Mounting Details

LOW LUMEN

HIGH LUMEN

9.84" [249.97mm]
10.19" [258.93mm]

5.59" [141.90mm]
7.33" [186.27mm]
1.53" [38.86mm]
ø 4.30" [109.10mm]
ø 5.11" [129.82mm]
ø 5.67" [144.09mm]

5.59" [141.90mm]
8.63" [219.15mm]
1.53" [38.86mm]
ø 4.30" [109.10mm]
ø 5.11" [129.82mm]
ø 5.67" [144.09mm]

DT4RF=4 inch frosted acrylic ring
See Accessories for Ordering

🚀 **CLICK HERE dimension information**

*T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

COOPER Lighting Solutions
a Signify business

Single Line Order Information

SAMPLE ORDER NUMBER: **LD4D10R109030D010DP1H = LD4D10D010 + EU4DR100210IC9030 + 4LBDP1H**

Multi-line Ordering Information Option

Invoice will indicate separate fixture components (housing, trim, module) which will ship complete from a single CLS facility in separate cartons.
To receive separate components (housing, trim, module) shipment, click on the "Multi-Line Ordering Information Option" button to the right.

Housing	Lumen [1]			Optic		Color Control	CCT		Optic Position
LD4D=LED Downlight 4" Nominal Aperture **LD4DCP**=LED Downlight 4" Nominal Aperture, Chicago Plenum For BAA or TAA use Multi-line Ordering	**02**=250 lumens **02B**=250 lumens for use with 6° optic [11] **05**=500 lumens **08**=800 lumens **10**=1000 lumens **15**=1500 lumens **20**=2000 lumens [16] **25**=2500 lumens [16] [19]	**30**=3000 lumens [16] [19] **35B**=3500 lumens [16] [21] **40B**=4000 lumens [16] [21] **45B**=4500 lumens [16] [21] **50**=5000 lumens [16] [21] **55**=5500 lumens [10] [21] **60**=6000 lumens [10] [21]	**65**=6500 lumens [10] [21] **70B**=7000 lumens [10] [21] **75B**=7500 lumens [10] [21] **80B**=8000 lumens [10] [21] **85B**=8500 lumens [10] [21] **90B**=9000 lumens [10] [21] **95B**=9500 lumens [10] [21]	**X**=No optic order separately [21] **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°	**90**=90 CRI Minimum **97**=97 CRI Minimum	**90 CRI** **24**=2400K **27**=2700K **30**=3000K **35**=3500K **40**=4000K **50**=5000K	**97 CRI** **27**=2700K **30**=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)

Voltage	Driver	Driver Options	Hanger Bars
Blank=120-277V used with all integral drivers and remote drivers 1500 lumens and below **1**=120V Only required when using remote driver 2000 lumens and above **2**=277V Only required when using remote driver 2000 lumens and above **3**=347V (D010 driver 800-4500). 250, 500, 5000-7000, remote drivers from 2000-7000 lumens and all other drivers use step down transformer	**D010**=0-10V, 1-100% (500-9500 lumens) **D010TR**=0-10V or (120V) phase cut dimming 1-100% (250-5000 lumens) **DE010**=0-10V linear dimming, 0.1-100% (250 lumen [**02B** only], 800-6500 lumens) **D5LT**=DALI T6 Logarithmic Dimming, 0.1-100% (250 lumen [**02B** only], 800-6500 lumens) **DMX**=DMX/RDM Logarithmic Dimming, 0.1-100% (1000-5000 lumens) [14] **DMXC5**=DMX/RDM Logarithmic Dimming, 0.1-100% with RJ45 connection (1000-5000 lumens) [14] **DLE**=Lutron Ecosystem dimming 1-100% (1000-3500 lumens) **DLVP**=Low voltage dimming 1-100% for use with DLVP system, 1000-3000 lumens [3]	**Blank** = Integral driver **RD100** = Remote 100ft [3] [33] **RD75** = Remote 75ft [3] [33] **RD50** = Remote 50ft [3] [33] **RD25** = Remote 25ft [3] **RD15** = Remote 15ft [3] **RD5** = Remote 5ft [3] **RD2** = Remote 2ft [3] **PD** = Plug in Driver	**Blank** = Without hanger bars **B26** = C-channel Bar Hanger, 26" Long, Pair

Trim Distribution	Trim Flange	Trim Finish	Options [3] [16] [31]	
DP=45° cutoff downlight **S**=Shallow trim **CS**=Cast shallow trim	**0**=White Polymer Trim Ring **1**=Self-flanged [13] **2**=White Painted Self-flanged **4**=Knife edge [34]	**LI**=Specular Clear [9] **H**=Semi-Specular Clear [9] **WMH**=Warm Haze [9] **WH**=Wheat [9] **GPH**=Graphite Haze [9] **B**=Specular Black [9] **MW**=Matte White (Antimicrobial) [9] **MB**=Matte Black [8] **MMS**=Matte Metallic Silver [8]	**EMBOD**=Bodine® 7W Emergency Module with Remote Test Switch [25] **EMBOD6ST**=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 **EM14RSD** =14W Self Diagnostic Replaceable Emergency Battery Pack with Integral Test Switch **EMBOD7ST**=Bodine® 7W Self Test Emergency Module [25] **IEMBOD**=Bodine® 7W Emergency Module with Integral Test Switch [6] [25] **IEM7**=7W Emergency Module with Integral Test Switch [6] **IEM14**=14W Emergency Module with Integral Test Switch [6]	**IEM14RSD** =14W Self Diagnostic Replaceable Emergency Battery Pack with Remote Test Switch [6] **IEMBOD6ST** =Bodine® 6W Self Test Emergency Module with Integral Test Switch [5] **EMV7**=7W Low Voltage Emergency Module with Remote Test Switch [4] **EMV14**=14W Low Voltage Emergency Module with Remote Test Switch [4] **ETRD**=Emergency transfer device [32] **WPST** = Factory installed Wavelinx (includes control module, sensor, cable, tilemount and ceiling mount sensor) [15] [18] **WLST** = Factory installed WaveLinx LITE Sensor Kit [15] [17] **WPN** = WaveLinx PRO Wireless Node without sensor [20] **WLN** = WaveLinx LITE Wireless Node without sensor [35]

| Accessories (*Sold separately*) [22]						
TRM4P=White metal trim ring [2] **DT4RF**=4" frosted acrylic ring [29] **PRR4**=Rimless Plaster Ring [2] **RKP4**=Knife Edge plaster Ring [27] **HSA4**=Slope Adapter for 4" Aperture Housings, Specify Slope **RPM4MW**=Rimless Millwork Ring, Matte White [2] **RPM4MB**=Rimless Millwork Ring, Matte Black [2] **RKM4MW**=Knife Edge Millwork Ring, Matte White [27] **RKM4MB**=Knife Edge Millwork Ring, Matte Black [27]	**Connected Lighting Systems** [3] [15] [16] [31] **WPST** = Field installed WaveLinx sensor Kit [18] **WLST** = Field installed WaveLinx LITE Sensor Kit [17] **Transformers** **H347**=H347 for 7000 lumens and below **Bar Hangers** **HB50**=C-channel Bar Hanger, 50" Long, Pair **RMB22**=Wood Joist Bar Hanger, 22" Long, Pair	**Optics** [37] **46R25** = 25° **46R30** = 30° **46R35** = 35° **46R40** = 40° **46R45** = 45° **46R50** = 50° **46R55** = 55° **46R60** = 60° **46R65** = 65° **46R70** = 70	**Color Filters** [37] **F22-20**=Red **F33-20**=Blue **F44-20**=Green **F55-20**=Yellow **F66-20**=Mercury	**Dichronic Filters** [37] **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** [37] **LSL-20**=Linear Spread Lens **OSL-20**=Overall Spread Lens **DIF-20**=Diffused Lens **Asymmetric Film** [37] **46ASYMFILM**=Asymmetric Film (see chart for distribution) **Louvers** [37] **LVR-20**=Hex Cell Louver

Notes:

1. Nominal Lumens will vary depending on selected color, CRI, driver and reflector finish. Reference Multiplier tables.
2. Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
3. Not available with Chicago Plenum.
4. ULus listed only
5. Available with 45D cutoff (DP) trim only. Not available with LI or WH finishes. Required for use with IEMBOD6ST. Not offered with remote driver.
6. Available with 45° cutoff (DP) trim only. Required for use with all, IEMBOD, IEM7, IEM14,IEMV7 and IEMV14 housings. Not offered with remote driver.
7. Available with 45D cutoff (DP) trim only. Not available with LI or WH finishes. Required for use with IEMBOD6ST. Not offered with remote driver.
8. Available only on CS distributions.
9. Not available on CS distributions.
10. Product is marked spacing. Reference table on page 4.

11. For use with DE010 and D5LT drivers
13. Flange is the same finish as the reflector
14. DMX fixtures default to full on upon loss of DMX signal.
15. Refer to system specifications for additional information,features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver.
16. Non-IC
17. WLST = WaveLinx LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx LITE system specifications)
18. WPST = WaveLinx wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
19. Offered with 15° and above distributions.
20. 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.
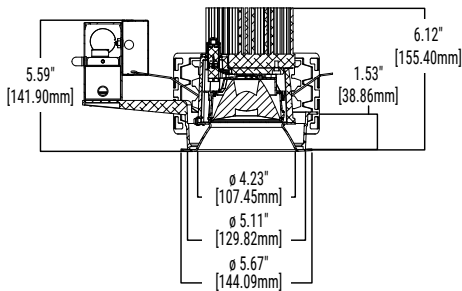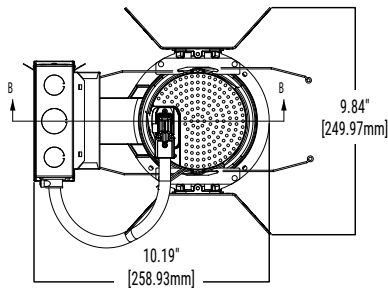
21. Offered with 25° and above distributions.
25. Not available with 7000-9500 lumens, DLVP up to 3000 lumens.
27. Order trim with knife edge.
29. Order with self-flanged trim.
31. 120V-277V
32. Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others)
33. Not available with Lutron drivers
34. Available with cast shallow trims only.
35. 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.
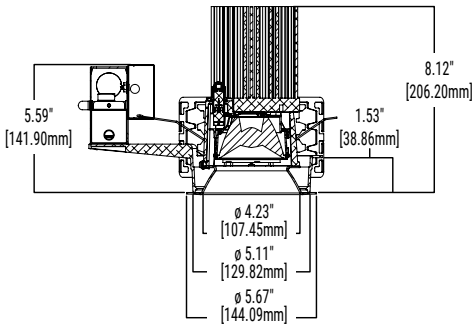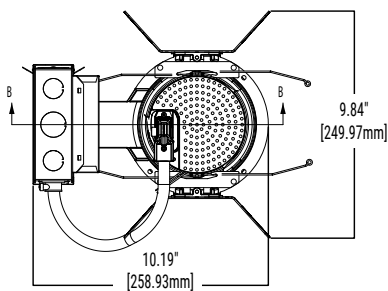**37.** Requires 2M designation on light engine.

COOPER Lighting Solutions
a signify business

Dimensional and Mounting Details
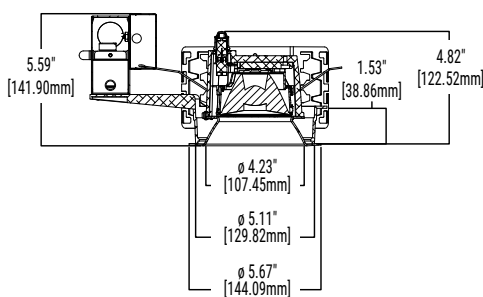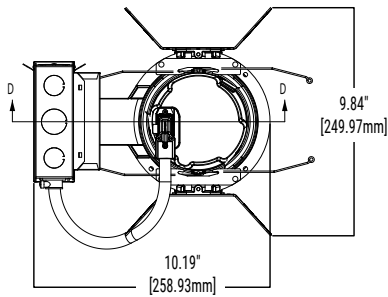
LD4D-4LBS

90/97 CRI	Min-Max Lumens	Beam Angles
	250-1000	10°-20°
	250-1500	25°-70°

LD4D-4LBS

90/97 CRI	Min-Max Lumens	Beam Angles
	1500-2000	10°
	1500-3000	15°-20°
	2000-5000	25°-70°

LD4D-4LBS

90/97 CRI	Min-Max Lumens	Beam Angles
	5500-9500	25°-70°

Dimensional and Mounting Details
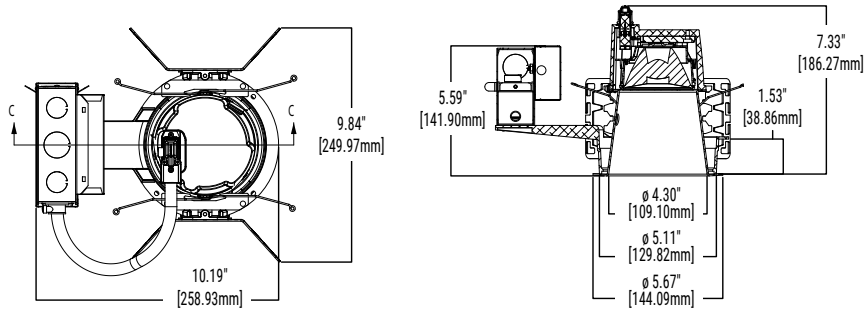
LD4D-4LBDP
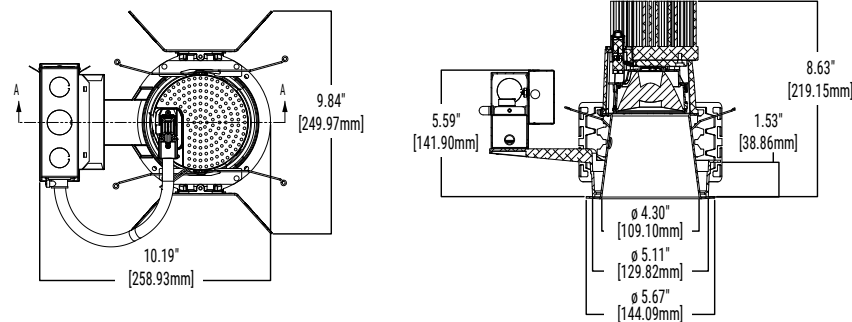
90/97 CRI	Min-Max Lumens	Beam Angles
	250-1000	10°-20°
	250-1500	25°-70°

LD4D-4LBDP

90/97 CRI	Min-Max Lumens	Beam Angles
	1500-2000	10°
	1500-3000	15°-20°
	2000-5000	25°-70°
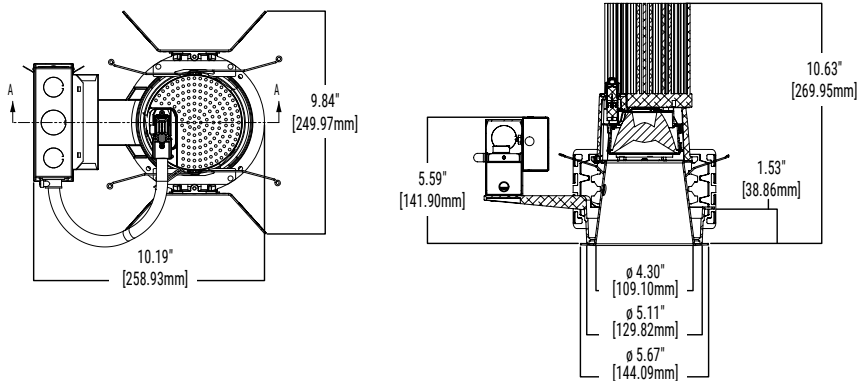
LD4D-4LBDP

90/97 CRI	Min-Max Lumens	Beam Angles
	5500-9500	25°-70°

Emergency Option
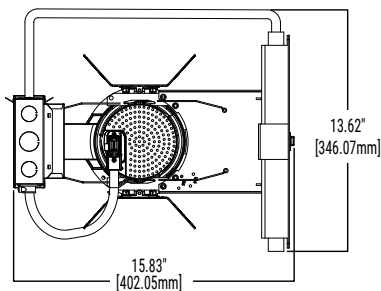
Trim with E option

Trim with EM6 option

COOPER
Lighting Solutions
a signify business

Product Specifications

Lower Shielding Reflector
- Spun aluminum reflector provides superior lumen output with minimal source brightness
- Spun reflectors are available in all Portfolio anodized finishes
- Upper portion of specular clear and wheat finish, 45° (DP) reflector is painted black to ensure a quiet appearance without image reflection
- Plaster lathing ring and millwork ring accessory for flush reflector transition
- Decorative frosted acrylic ring provides a light glow in the ceiling

Optic
- Interchangeable silicone optic in 5° increments from 10°-70° providing smooth beam without color separation
- Elliptical beams
- Available media holder fits onto optic holder and holds up to two lens media

Trim Retention
- Two torsion springs hold reflector flange tightly to the finished ceiling surface

Plaster Frame/Collar
- Die-cast aluminum 1 ½" deep collar
- Accommodates up to 2" ceiling thickness

Universal Mounting Bracket
- Accepts 1/2" Electric Metallic Tube (EMT), C-channel and bar hangers
- Adjusts 5" vertically from above and below the ceiling

Junction box
- Four 1/2" and two 3/4" trade size pry outs positioned to allow straight conduit runs
- Lever connectors for simple push in wiring
- Listed for eight #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring

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

LED System
- Contains a plurality of high brightness white LED's combined with a high reflectance upper reflector and convex transitional lens producing even distribution without pixilation
- 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)

Vividtune 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/0-10V, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem
- Driver can be serviced from above or through the aperture
- Distributed low voltage power system combines power, lighting, and controls with ease of installation.
- Optional magnetically guided snap in driver for ease of maintenance.

Emergency Option
- Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch
- Available Self-Test with remote charge indicator and test switch
- Emergency transfer device (ETRD) senses the loss of power regardless of local control settings allowing emergency power to the fixture.
- UL 924 listed
- EM14RSD with simplified battery replacement and self diagnostics

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.**

Code Compliance
- Thermally protected
- cULus Certified to UL 1598 / C22.2 No. 250.0 suitable for damp locations with covered ceiling
- Optional City of Chicago environmental air (CCEA) marking for plenum applications
- FCC CFR Title 47 Part 15 Class B at 120VAC and Class A at 277VAC
- Insulated ceiling (IC) rated up to 1000 lumens for 10°, 15° and 20° beams, 1500 lumens for 25° beam and above. All others are non-IC rated (insulation must be kept 3" from top and sides of housing).
- Can be used for State of California Title 24 high efficacy LED compliance under JA8*, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2016 JA8 High Efficacy Lighting
- RoHS compliant*
- Photometric testing completed in accordance with IES LM-79
- LED life testing completed in accordance with IES LM-80-08 and TM-21-11 standards
- See below for marked spacing requirements

Warranty
- Five year warranty www.cooperlighting.com/legal

Marked Spacing

4-inch Marked spacing for 90 and 97 CRI			
Lumens	Center to Center of Adjacent Luminaire (inches)	Center Luminaire to Building Side Member (inches)	Minimum Overhead Height (inches)
5500-6500	36	18	6
7000-9500	36	18	8

COOPER
Lighting Solutions
a ⓢignify business

*T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

PS52014024 **page 5**
February 5, 2025 5:33 PM

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

Series	5500 Lumen		6000 Lumen		6500 Lumen		7000 Lumen		7500 Lumen		8000 Lumen	
Input Voltage 120-277 VAC	120	277	120	277	120	277	120	277	120	277	120	277
Input Current (A)	0.51	0.23	0.568	0.273	0.428	0.19	0.579	0.258			0.677	0.297
Input Power (W)	61	59.6	67.7	66.5	51	50.6	69.1	67.6			80.1	78.9
In-rush (A)	22.1	31.7	23.1	30.4	3.3	15.1	23.7	33			23.7	30.4
Inrush duration	191	62	196	37	190	156	150	69.8			203	40
THDi (%)	6.9	13.7	6.1	10.9	5.1	7.3	6.5	12.8			6.1	11.7
PF	1.0	0.93	1.0	0.88	1.0	0.96	1.0	0.95			1.0	0.96

Series	8500 Lumen		9000 Lumen		9500 Lumen	
Input Voltage 120-277 VAC	120	277	120	277	120	277
Input Current (A)	0.741	0.338	0.829	0.371	0.851	0.38
Input Power (W)	88.5	85.9	99.1	96	101.7	98.5
In-rush (A)	22.74	33.37	23.1	6.1	23.0	48.6
Inrush duration	174	47	198	61	258	262
THDi (%)	4.7	10	4.3	8.4	4	8.4
PF	1.0	0.9	1.0	0.93	1.0	0.9

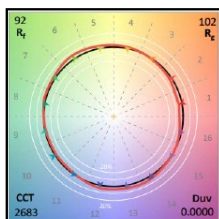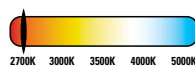| |
|---|
| Minimum starting temperature -30°C (-22°F)*
(Nominal input 120-277VAC & 100% of rated output power) |
| Sound Rating: Class A standards |

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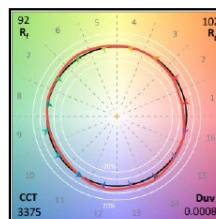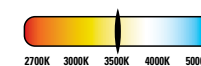
* Color values are based on haze reflector, other finishes and field results may vary.

Photometric Data

10° with 4LBS and 4LBDP reflector

Test Number	P735992
Housing	LD4D15D010
Module	EU4DR1015209035
Trim	4LBS1MW
Lumens	1403
Efficacy	88.8 Lm/W
SC	0.17
UGR	10

CANDLEPOWER DISTRIBUTION

Downlight

30,556
22,917
15,278
7639
0

180° 170° 160° 150° 140° 130° 120° 110° 100° 90° 80° 70° 60° 50° 40° 30° 20° 10° 0°

0-deg   45-deg   90-deg

CONE OF LIGHT

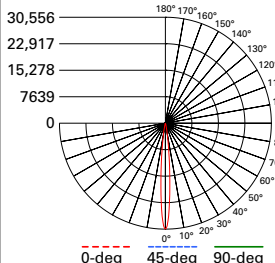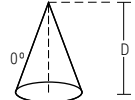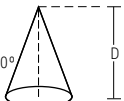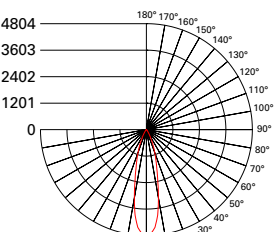| D	FC	L	W
6'	848.8	0.8	0.8
8'	477.4	1.2	1.2
10'	305.6	1.6	1.6
12'	212.2	1.8	1.8
15'	135.8	2.4	2.4

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	LD4D15D010
Module	EU4DR1515309035
Trim	4LBS1MW
Lumens	1432
Efficacy	90.6 Lm/W
SC	0.22
UGR	10

CANDLEPOWER DISTRIBUTION

Downlight

19,507
14,630
9754
4877
0

180° 170° 160° 150° 140° 130° 120° 110° 100° 90° 80° 70° 60° 50° 40° 30° 20° 10° 0°

0-deg   45-deg   90-deg

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	LD4D15D010
Module	EU4DR2015309035
Trim	4LBS1MW
Lumens	1502
Efficacy	95.1 Lm/W
SC	0.34
UGR	10

CANDLEPOWER DISTRIBUTION

Downlight

8550
6413
4275
2138
0

180° 170° 160° 150° 140° 130° 120° 110° 100° 90° 80° 70° 60° 50° 40° 30° 20° 10° 0°

0-deg   45-deg   90-deg

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	LD4D15D010
Module	EU4DR250215IC9035
Trim	4LBS1MW
Lumens	1267
Efficacy	80.2 Lm/W
SC	0.42
UGR	10

CANDLEPOWER DISTRIBUTION

Downlight

4804
3603
2402
1201
0

180° 170° 160° 150° 140° 130° 120° 110° 100° 90° 80° 70° 60° 50° 40° 30° 20° 10° 0°

0-deg   45-deg   90-deg

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

30° with 4LBS and 4LBDP reflector

Test Number	P736000
Housing	LD4D15D010
Module	EU4DR300215IC9035
Trim	4LBS1MW
Lumens	1385
Efficacy	87.7 Lm/W
SC	0.52
UGR	10

CANDLEPOWER DISTRIBUTION

Downlight

4454
3341
2227
1114
0

0-deg   45-deg   90-deg

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
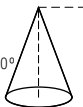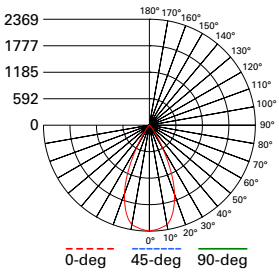
35° with 4LBS and 4LBDP reflector

Test Number	P736002
Housing	LD4D15D010
Module	EU4DR350215IC9035
Trim	4LBS1MW
Lumens	1355
Efficacy	85.8 Lm/W
SC	0.6
UGR	10

CANDLEPOWER DISTRIBUTION

Downlight

3728
2796
1864
932
0

0-deg   45-deg   90-deg

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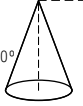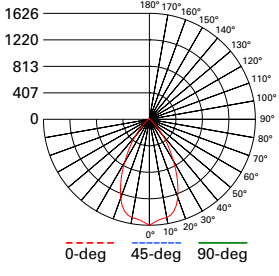
Degrees Vertical	0-deg
0	3728
5	3627
15	2460
25	509
35	94
45	32
55	12
65	3
75	0
80	0

40° with 4LBS and 4LBDP reflector

Test Number	P736004
Housing	LD4D15D010
Module	EU4DR400215IC9035
Trim	4LBS1MW
Lumens	1480
Efficacy	93.7 Lm/W
SC	0.68
UGR	10

CANDLEPOWER DISTRIBUTION

Downlight

3446
2585
1723
862
0

0-deg   45-deg   90-deg

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
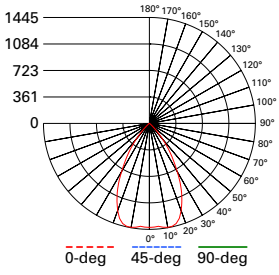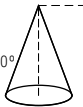
45° with 4LBS and 4LBDP reflector

Test Number	P736006
Housing	LD4D15D010
Module	EU4DR450215IC9035
Trim	4LBS1MW
Lumens	1451
Efficacy	91.8 Lm/W
SC	0.75
UGR	10

CANDLEPOWER DISTRIBUTION

Downlight

2565
1924
1283
641
0

0-deg   45-deg   90-deg

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

COOPER
Lighting Solutions
a Signify business
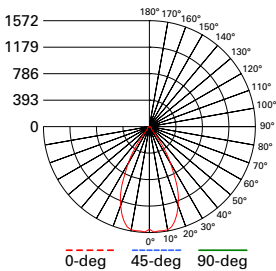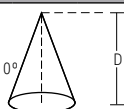
Photometric Data

50° with 4LBS and 4LBDP reflector

Test Number	P736008
Housing	LD4D15D010
Module	EU4DR500215IC9035
Trim	4LBS1MW
Lumens	1471
Efficacy	93.1 Lm/W
SC	0.8
UGR	10

CANDLEPOWER DISTRIBUTION

Downlight

2369
1777
1185
592
0

0-deg 45-deg 90-deg

CONE OF LIGHT

0°

D	FC	L	W
6'	65.8	4.6	4.6
8'	37	6.2	6.2
10'	23.7	7.8	7.8
12'	16.5	9.4	9.4
15'	10.5	11.8	11.8

CANDELA TABLE

Degrees Vertical	0-deg
0	2369
5	2336
15	2028
25	1124
35	219
45	32
55	6
65	1
75	0
80	0
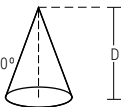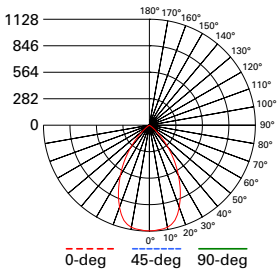
55° with 4LBS and 4LBDP reflector

Test Number	P736010
Housing	LD4D15D010
Module	EU4DR550215IC9035
Trim	4LBS1MW
Lumens	1450
Efficacy	91.8 Lm/W
SC	0.89
UGR	13

CANDLEPOWER DISTRIBUTION

Downlight

1626
1220
813
407
0

0-deg 45-deg 90-deg

CONE OF LIGHT

0°

D	FC	L	W
6'	45.2	5.2	5.2
8'	25.4	7	7
10'	16.3	8.8	8.8
12'	11.3	10.6	10.6
15'	7.2	13.2	13.2

CANDELA TABLE

Degrees Vertical	0-deg
0	1626
5	1555
15	1459
25	1014
35	502
45	127
55	14
65	1
75	0
80	0

60° with 4LBS reflector

Test Number	P736013
Housing	LD4D15D010
Module	EU4DR600215IC9035
Trim	4LBS1MW
Lumens	1422
Efficacy	90 Lm/W
SC	0.98
UGR	13

CANDLEPOWER DISTRIBUTION

Downlight

1445
1084
723
361
0

0-deg 45-deg 90-deg

CONE OF LIGHT

0°

D	FC	L	W
6'	39.5	5.8	5.8
8'	22.2	7.8	7.8
10'	14.2	9.8	9.8
12'	9.9	11.6	11.6
15'	6.3	14.6	14.6

CANDELA TABLE

Degrees Vertical	0-deg
0	1423
5	1414
15	1418
25	1042
35	507
45	104
55	14
65	1
75	0
80	0

60° with 4LDP reflector

Test Number	P736012
Housing	LD4D15D010
Module	EU4DR600215IC9035
Trim	4LBDP1MW
Lumens	1287
Efficacy	81.5 Lm/W
SC	0.91
UGR	14

CANDLEPOWER DISTRIBUTION

Downlight

1572
1179
786
393
0

0-deg 45-deg 90-deg

CONE OF LIGHT

0°
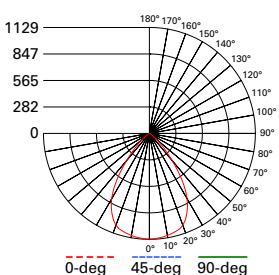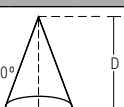
D	FC	L	W
6'	43.5	5.2	5.2
8'	24.5	7	7
10'	15.7	8.8	8.8
12'	10.9	10.6	10.6
15'	7	13.4	13.4

CANDELA TABLE

Degrees Vertical	0-deg
0	1529
5	1561
15	1459
25	976
35	299
45	41
55	34
65	27
75	17
80	11
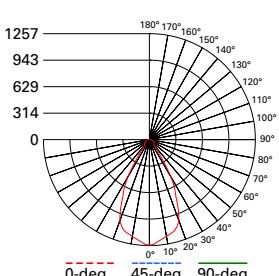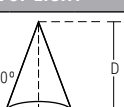
Photometric Data

65° with 4LBS reflector

Test Number	P736017
Housing	LD4D15D010
Module	EU4DR650215IC9035
Trim	4LBS1MW
Lumens	1242
Efficacy	78.6 Lm/W
SC	0.95
UGR	14

CANDLEPOWER DISTRIBUTION

Downlight

1128 / 846 / 564 / 282 / 0

0-deg · 45-deg · 90-deg

CONE OF LIGHT

D	FC	L	W
6'	31.3	5.6	5.6
8'	17.6	7.6	7.6
10'	11.3	9.4	9.4
12'	7.8	11.4	11.4
15'	5	14.2	14.2

CANDELA TABLE

Degrees Vertical	0-deg
0	1128
5	1121
15	1053
25	784
35	467
45	184
55	41
65	9
75	2
80	1

65° with 4LBDP reflector

Test Number	P736016
Housing	LD4D15D010
Module	EU4DR650215IC9035
Trim	4LBDP1MW
Lumens	1072
Efficacy	67.8 Lm/W
SC	0.98
UGR	14

CANDLEPOWER DISTRIBUTION

Downlight

1077 / 808 / 539 / 269 / 0

0-deg · 45-deg · 90-deg

CONE OF LIGHT

D	FC	L	W
6'	29.4	5.8	5.8
8'	16.5	7.8	7.8
10'	10.6	9.8	9.8
12'	7.3	11.8	11.8
15'	4.7	14.6	14.6

CANDELA TABLE

Degrees Vertical	0-deg
0	1055
5	1052
15	1058
25	778
35	381
45	79
55	13
65	3
75	2
80	1

70° with 4LBS reflector

Test Number	P736021
Housing	LD4D15D010
Module	EU4DR700215IC9035
Trim	4LBS1MW
Lumens	1430
Efficacy	90.5 Lm/W
SC	1.1
UGR	16

CANDLEPOWER DISTRIBUTION

Downlight

1129 / 847 / 565 / 282 / 0

0-deg · 45-deg · 90-deg

CONE OF LIGHT

D	FC	L	W
6'	31.4	6.6	6.6
8'	17.6	8.8	8.8
10'	11.3	11	11
12'	7.8	13.2	13.2
15'	5	16.4	16.4

CANDELA TABLE

Degrees Vertical	0-deg
0	1129
5	1122
15	1085
25	947
35	608
45	208
55	46
65	0
75	0
80	0

70° with 4LBDP reflector

Test Number	P736020
Housing	LD4D15D010
Module	EU4DR700215IC9035
Trim	4LBDP1MW
Lumens	1118
Efficacy	70.7 Lm/W
SC	0.88
UGR	18

CANDLEPOWER DISTRIBUTION

Downlight

1257 / 943 / 629 / 314 / 0

0-deg · 45-deg · 90-deg

CONE OF LIGHT

D	FC	L	W
6'	34.9	5.2	5.2
8'	19.6	7	7
10'	12.6	8.8	8.8
12'	8.7	10.4	10.4
15'	5.6	13.2	13.2

CANDELA TABLE

Degrees Vertical	0-deg
0	1257
5	1215
15	1130
25	744
35	168
45	81
55	70
65	50
75	27
80	16

COOPER Lighting Solutions
a Signify business

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

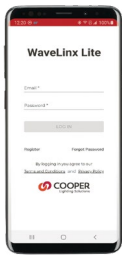| 2700K	3000K	3500K	4000K	5000K
0.88	0.95	1	1.016	1.07

Multipliers for relative lumen values with other series color temperatures.

Asymmetric Film Distribution

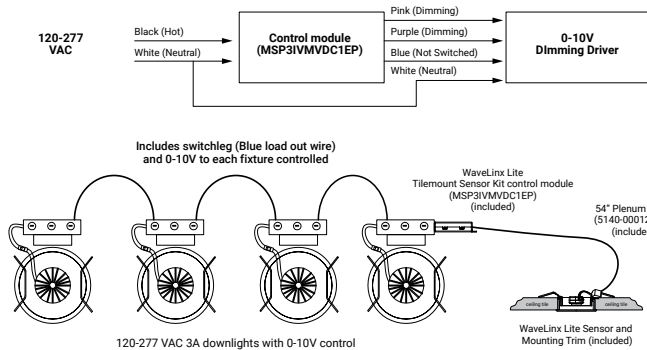| TIR	Short Axis Beam angle	Long Axis Beam angle
R10	12°	27.4°
R15	15°	28°
R20	21°	32°
R30	32°	37°
R35	32°	40°
R40	28°	37°
R45	41°	45°
R50	42°	46°

Connected Systems

WaveLinx LITE - WLST Tilemount Sensor

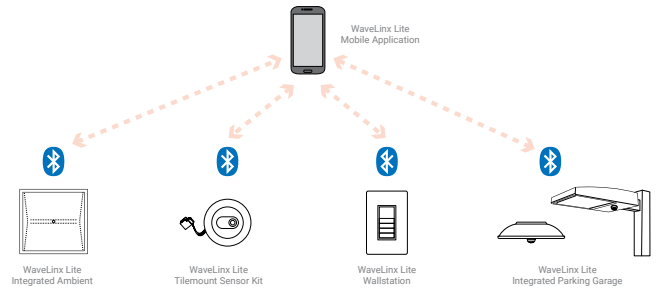**WaveLinx LITE devices only compatible with the WaveLinx LITE system.**

• 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

| Device Security | Manual Dimmer | Occupancy Sensor | Daylighting Control | Manually Switched ON/OFF | Tuning Control | Lumen Maintenance Control | Scenes |

WaveLinx LITE WLST Tilemount Wiring Diagram

120-277 VAC
Black (Hot)
White (Neutral)
Control module (MSP3IVMVDC1EP)
Pink (Dimming)
Purple (Dimming)
Blue (Not Switched)
White (Neutral)
0-10V Dimming Driver

Includes switchleg (Blue load out wire) and 0-10V to each fixture controlled

WaveLinx Lite Tilemount Sensor Kit control module (MSP3IVMVDC1EP) (included)

54" Plenum cable (5140-000123-00) (included)

120-277 VAC 3A downlights with 0-10V control

WaveLinx Lite Sensor and Mounting Trim (included)

WaveLinx LITE Bluetooth Enabled System

WaveLinx Lite Mobile Application

WaveLinx Lite Integrated Ambient

WaveLinx Lite Tilemount Sensor Kit

WaveLinx Lite Wallstation

WaveLinx Lite Integrated Parking Garage

---

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
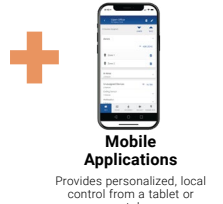• Stand-Alone Offices or Entire Building Network Installations
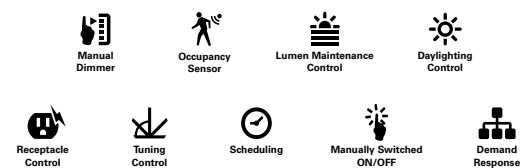
Downlights with tilemount sensor wireless communication
Highly efficient LED fixtures

+

WaveLinx Area Controller
Provides centralized coordination of multiple area control options
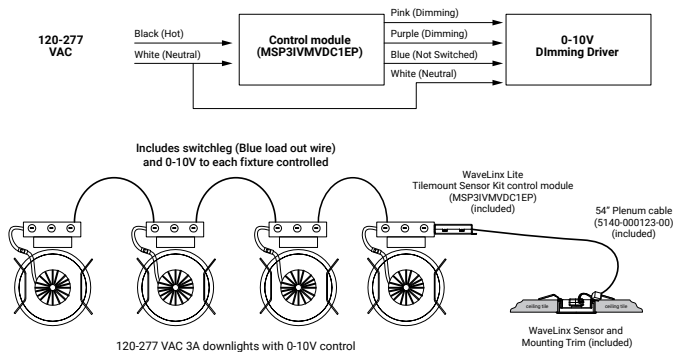
+

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

+

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

WaveLinx mobile app settings

| Manual Dimmer | Occupancy Sensor | Lumen Maintenance Control | Daylighting Control |
| Receptacle Control | Tuning Control | Scheduling | Manually Switched ON/OFF | Demand Response |

WaveLinx PRO WPST Tilemount Wiring Diagram

120-277 VAC
Black (Hot)
White (Neutral)
Control module (MSP3IVMVDC1EP)
Pink (Dimming)
Purple (Dimming)
Blue (Not Switched)
White (Neutral)
0-10V Dimming Driver

Includes switchleg (Blue load out wire) and 0-10V to each fixture controlled

WaveLinx Lite Tilemount Sensor Kit control module (MSP3IVMVDC1EP) (included)

54" Plenum cable (5140-000123-00) (included)

120-277 VAC 3A downlights with 0-10V control

WaveLinx Sensor and Mounting Trim (included)

WaveLinx CORE Building Management Integration

BACnet/IP Public (REST) API
Desktop/Laptop with web browser (hardware provided by user)
WaveLinx CORE
Third Party system (hardware provided by others)
BACnet Router (hardware provided by others)
Smartphone with WaveLinx app used for system setup and personal control
Building LAN
PoE Power
Touchscreen
WaveLinx Area Controller
Area or Room
120-347v 20A PRO Dimming Switchpacks
PRO Occupancy Ceiling Sensor
PRO Controlled Receptacle
PRO Wallstation
WaveLinx PRO enabled Indoor Fixture
WaveLinx PRO enabled Outdoor Fixture
WaveLinx PRO controlled devices

KEY
Wi-Fi Signal
IEEE 802.15.4

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

Device Security | Manual Dimmer | Occupancy Sensor | Daylighting Control | Manually Switched ON/OFF | Tuning Control | Lumen Maintenance Control | Scenes

WaveLinx LITE Wireless Node (WLN) Wiring Diagram

D010 (500lm +)

D010 (250lm) & DE010

120-277 VAC 3A downlights with 0-10V control

WaveLinx LITE Bluetooth Enabled System

WaveLinx Lite Mobile Application

WaveLinx Lite Integrated Ambient | WaveLinx Lite Tilemount Sensor Kit | WaveLinx Lite Wallstation | WaveLinx Lite Integrated Parking Garage

---

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

Downlights with wireless communication
Highly efficient LED fixtures

WaveLinx Area Controller
Provides centralized coordination of multiple area control options

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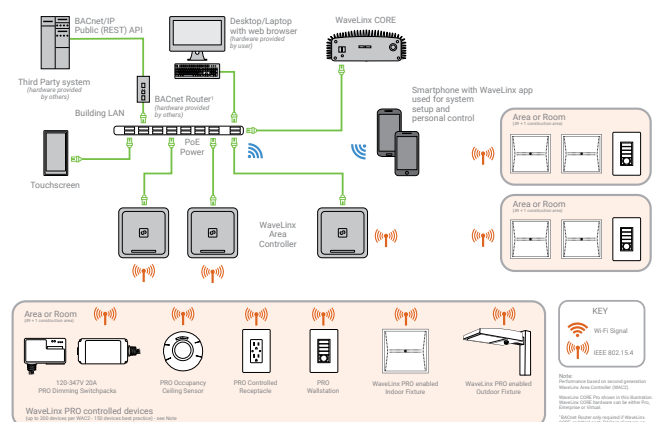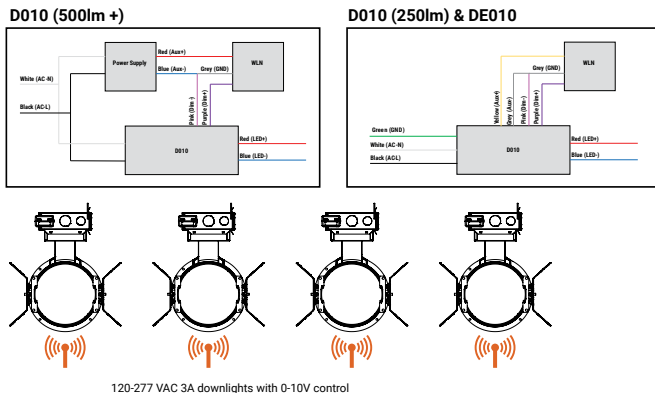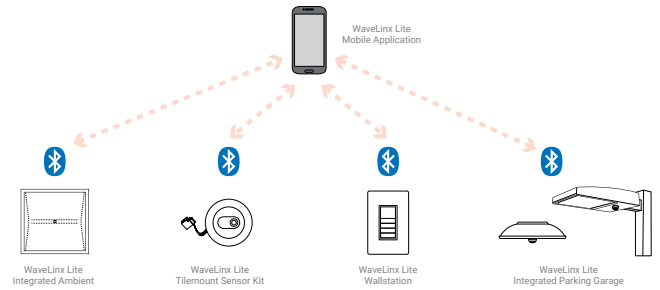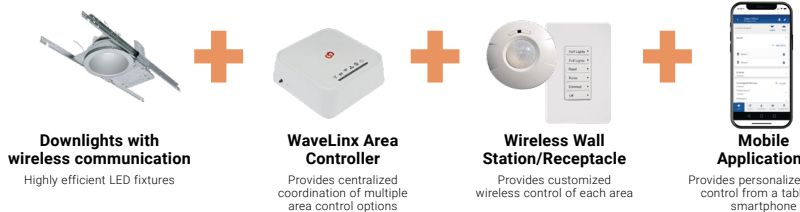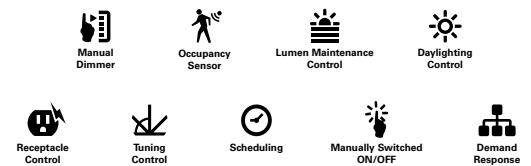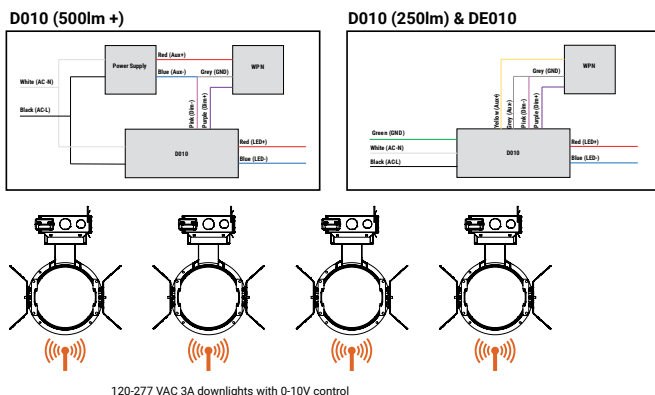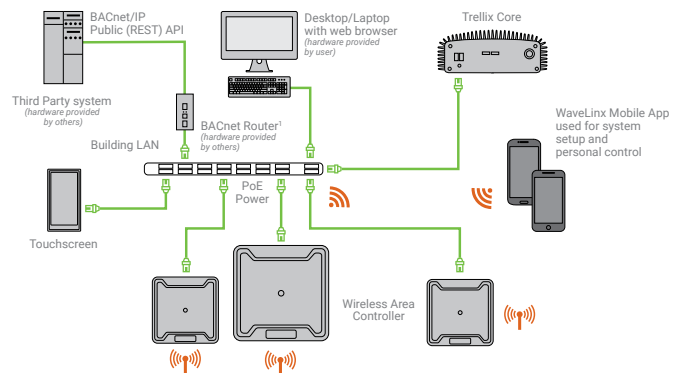Provides customized wireless control of each area

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

WaveLinx mobile app settings

Manual Dimmer | Occupancy Sensor | Lumen Maintenance Control | Daylighting Control

Receptacle Control | Tuning Control | Scheduling | Manually Switched ON/OFF | Demand Response

WaveLinx PRO Wireless Node (WPN) Wiring Diagram

D010 (500lm +)

D010 (250lm) & DE010

120-277 VAC 3A downlights with 0-10V control

WaveLinx CORE Building Management Integration

BACnet/IP Public (REST) API

Desktop/Laptop with web browser *(hardware provided by user)*

Trellix Core

Third Party system *(hardware provided by others)*

BACnet Router[1] *(hardware provided by others)*

Building LAN

PoE Power

Touchscreen

WaveLinx Mobile App used for system setup and personal control

Wireless Area Controller

Multi-line Order Information

SAMPLE ORDER NUMBER: **LD4D10D010TRIEM14 (All components may ship separately)**

Invoice will indicate separate fixture components (housing, trim, module) and may ship from multiple CLS facilities in separate cartons.

Domestic Preferences [1]	Housing	Lumens [2]		
[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act	LD4D=LED Downlight 4-inch Nominal Aperture LD4DCP=LED Downlight 4-inch Nominal Aperture, Chicago Plenum	02=250 lumens 02B=250 lumens for use with 6° optic [14] 05=500 lumens 08=800 lumens 10=1000 lumens 15=1500 lumens 20=2000 lumens [32] 25=2500 lumens [32]	30=3000 lumens [32] 35B=3500 lumens [32] 40B=4000 lumens [32] 45B=4500 lumens [32] 50=5000 lumens [32] 55=5500 lumens [3] 60=6000 lumens [3] 65=6500 lumens [3]	70=7000 lumens [3] 75B=7500 lumens [3] 80B=8000 lumens [3] 85B=8500 lumens [3] 90B=9000 lumens [3] 95B=9500 lumens [3]

Voltage	Driver	Driver Options
Blank=120-277V 3=347V (D010 driver 800-4500) 250, 500, 5000 and above and all other drivers use step down transformer	D010=0-10V , 1-100% (500-9500 lumens) D010TR=0-10V or (120V) phase cut dimming 1-100% (250-5000 lumens) DE010=0-10V linear dimming, 0.1-100% (250 lumen [02B only], 800-6500 lumens) D5LT=DALI T6 Logarithmic Dimming, 0.1-100% (250 lumen [02B only], 800-6500 lumens) DMX=DMX/RDM Logarithmic Dimming, 0.1-100% (1000-5000 lumens) [5] DMXC5=DMX/RDM Logarithmic Dimming, 0.1-100% with RJ45 connection (1000-5000 lumens) [5] DLE=Lutron Ecosystem dimming 1-100% (1000-3500 lumens) DLVP= Low voltage dimming 1-100% for use with DLVP system, 1000-3000 lumens [6]	PD = Plug in Driver R = Remote driver(order remote driver separately) (not available with CP)

Options [6] [29] [30] [32]	
EMBOD=Bodine® 7W Emergency Module with Remote Test Switch [10] EMBOD6ST=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 EM14RSD =14W Self Diagnostic Replaceable Emergency Battery Pack with Integral Test Switch EMBOD7ST=Bodine® 7W Self Test Emergency Module [10] IEMBOD=Bodine® 7W Emergency Module with Integral Test Switch [10] [22] IEM7=7W Emergency Module with Integral Test Switch [22] IEM14=14W Emergency Module with Integral Test Switch [22]	IEM14RSD =14W Self Diagnostic Replaceable Emergency Battery Pack with Remote Test Switch [22] IEMBOD6ST =Bodine® 6W Self Test Emergency Module with Integral Test Switch [23] EMV7=7W Low Voltage Emergency Module with Remote Test Switch [7] EMV14=14W Low Voltage Emergency Module with Remote Test Switch [7] ETRD=Emergency transfer device [31] WPST =Factory installed Wavelinx (includes control module, sensor, cable, tilemount and ceiling mount sensor) [11] [13] WLST =Factory installed WaveLinx LITE Sensor Kit [11] [12] WPN = WaveLinx PRO Wireless Node without sensor [34] WLN = WaveLinx LITE Wireless Node without sensor [35]

SAMPLE ORDER NUMBER: **EU4DR100210IC9727**

Domestic Preferences [1]	Power Module	Optics [36]	Lumen Levels [2]	CRI	Color		Media
[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act	EU4D=4-inch Universal LED Module	X=No optic order separately [36] 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** 0210IC=250, 500, 800, 1000 Lumens IC 1520= 1500, 2000 Lumens **For use with 15° and 20° Optic** 0210IC=250, 500, 800, 1000 lumens IC 1530=1500, 2000, 2500, 3000 Lumens **For use with 25° to 70° and X optic** 0215IC=250, 500, 800, 1000, 1500 Lumens IC 2035=2000, 2500, 3000, 3500 Lumens 4050=4000, 4500, 5000 Lumens 5565=5500, 6000, 6500 Lumens [3] 7095=7000, 7500, 8000, 8500, 9000, 9500 Lumens [3]	90=90 CRI Minimum 97=97 CRI Minimum	**90 CRI** 24=2400K 27=2700K 30=3000K 35=3500K 40=4000K 50=5000K	**97 CRI** 27=2700K 30=3000K	Blank=No Media Holder 2M=Media Holder included for 1 - 2 media

SAMPLE ORDER NUMBER: **4LBDP1H**

Domestic Preferences [1]	Trim	Reflector	Flange	Finish	Options
[Blank]=Standard BAA=Buy American Act	4LB=4" LED	DP=45° cutoff downlight S=Shallow trim CS=Cast shallow trim	0=White polymer trim ring 1=Self flanged [18] 2=White painted self flanged 4=Knife edge	LI=Specular Clear [9] H=Semi-Specular Clear [9] WMH=Warm Haze [9] WH=Wheat [9] GPH=Graphite Haze [9] B=Specular Black [9] MW=Matte White (Antimicrobial) [9] MB=Matte Black [8] MMS=Matte Metallic Silver [8]	E=Integral Emergency Test Switch Hole, for use with IEM7, IEM14, IEMBOD [22] EM6=Integral Emergency Test Switch Hole, for use with IEMBOD6ST [23]

Multi-line Order Information

REQUIRED if Remote Driver (R) is specified

SAMPLE ORDER NUMBER: **RC10010D010TREM7**

Domestic Preferences [1]	Remote Drivers [6]	Lumens [2]		
[Blank]=Standard **BAA**=Buy American Act **TAA**=Trade Agreements Act	**RD100**=Remote 100ft [33] **RD75**=Remote 75ft [33] **RD50**=Remote 50ft [33] **RD25**=Remote 25ft **RD15**=Remote 15ft **RD5**=Remote 5ft **RD2**=Remote 2ft	**02**=250 lumens **02B**=250 lumens for use with 6° optic [14] **05**=500 lumens **08**=800 lumens **10**=1000 lumens **15**=1500 lumens **20**=2000 lumens [32]	**25**=2500 lumens (15° beams and above) [32] **30**=3000 lumens (15° beams and above) [32] **35B**=3500 lumens (25° beams and above) [32] **40B**=4000 lumens (25° beams and above) [32] **45B**=4500 lumens (25° beams and above) [32] **50**=5000 lumens (25° beams and above) [32] **55**=5500 lumens (25° beams and above) [3]	**60**=6000 lumens (25° beams and above) [3] **65**=6500 lumens (25° beams and above) [3] **70B**=7000 lumens (25° beams and above) [3] **75B**=7500 lumens (25° beams and above) [3] **80B**=8000 lumens (25° beams and above) [3] **85B**=8500 lumens (25° beams and above) [3] **90B**=9000 lumens (25° beams and above) [3] **95B**=9500 lumens (25° beams and above) [3]

Voltage	Driver
Blank=120-277V For 1500 lumens and below **1**=120V 2000 lumens and above **2**=277V 2000 lumens and above **3**=347V (D010 driver 800-1500) 2000 to 7000 lumens use step down transformer.	**D010**= 0-10V , 1-100% (500-9500 lumens) **D010TR**=0-10V or (120V) phase cut dimming 1-100% (250-5000 lumens) **DE010**= 0-10V linear dimming, 0.1-100% (250 lumen [**02B** only],800-6500 lumens) **D5LT**=DALI T6 Logarithmic Dimming, 0.1-100% (250 lumen [**02B** only],800-6500 lumens) **DMX**=DMX/RDM Logarithmic Dimming, 0.1-100% (1000-5000 lumens) [5] **DMXC5**=DMX/RDM Logarithmic Dimming, 0.1-100% with RJ45 connection (1000-5000 lumens) [5] **DLE**=Lutron Ecosystem dimming 1-100% (1000-3500 lumens) **DLVP**= Low voltage dimming 1-100% for use with DLVP system, 1000-3000 lumens [6]

Options [6] [29] [30] [32]		Controls [6] [29] [30] [32]
EMBOD=Bodine® Emergency Module with Remote Test Switch [10] **EMBOD6ST**=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	**EMBOD7ST**=Bodine® Self Test Emergency Module with Remote Test Switch [10] **EMV7**=7W Low Voltage Emergency Module with Remote Test Switch [7] **EMV14**=14W Low Voltage Emergency Module with Remote Test Switch [7] **ETRD**=Emergency transfer device [31]	**WPST**=Factory installed Wavelinx (includes control module, sensor, cable, tilemount and ceiling mount sensor) [11] [13] **WLST**=Factory installed WaveLinx LITE Sensor Kit [11] [12] **WPN** = WaveLinx PRO Wireless Node without sensor [34] **WLN** = WaveLinx LITE Wireless Node without sensor [35]

Accessories (Order separately) [25]

TRM4P=White metal trim ring [26] DT4RF=4" frosted acrylic ring [28] PRR4=Rimless Plaster Ring [26] RKP4=Knife Edge plaster Ring [27] RPM4MW=Rimless Millwork Ring, Matte White [26] RPM4MB=Rimless Millwork Ring, Matte Black [26] RKM4MW=Knife Edge Millwork Ring, Matte White [27] RKM4MB=Knife Edge Millwork Ring, Matte Black [27] HSA4=Slope Adapter for 4" Aperture Housings, Specify Slope	**Connected Lighting Systems** [6] [11] [29] [30] [32] **WPST** = Field installed WaveLinx sensor Kit [13] **WLST** = Field installed WaveLinx LITE Sensor Kit [12] **Transformers** **H347**=H347 for 7000 lumens and below **Bar Hangers** **HB50**=C-channel Bar Hanger, 50" Long, Pair **RMB22**=Wood Joist Bar Hanger, 22" Long, Pair **HB26** = C-channel Bar Hanger, 26" long, Pair **BAA-HB26**=C-channel Bar Hanger, 26" long, Pair, BAA compliant [1] **TAA-HB26**=C-channel Bar Hanger, 26" Long, Pair, TAA compliant [1]	**Optics** **46R25**=25° **46R30** = 30° **46R35** = 35° **46R40** = 40° **46R45** = 45° **46R50** = 50° **46R55** = 55° **46R60** = 60° **46R65** = 65° **46R70** = 70°	**Color Filters** [37] **F22**-20=Red **F33**-20=Blue **F44**-20=Green **F55**-20=Yellow **F66**-20=Mercury	**Dichronic Filters** [37] **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** [37] **LSL**-20=Linear Spread Lens **OSL**-20=Overall Spread Lens **DIF**-20=Diffused Lens **Asymmetric Film** [37] **46ASYMFILM**=Asymmetric Film (see chart for distribution) **Louvers** [37] **LVR**-20=Hex Cell Louver

Notes:

1. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analysed under domestic preference requirements. Offered with spun aluminum shallow (S) trims.

2. Nominal Lumens will vary depending on selected color, CRI, driver and reflector finish. Reference Multiplier tables.

3. Product is marked spacing. Reference table on page 4 for the spacing details.

5. DMX fixtures default to full on upon loss of DMX signal.

6. Not available with Chicago Plenum.

7. ULus listed only

8. Available only on CS distributions.

9. Available only with DP and S distributions.

10. Not available with 7000-9500 lumens, DLVP up to 3000 lumens.

11. Refer to system specifications for additional information,features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver.

12. WLST = WaveLinx LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx LITE system specifications)

13. WPST = WaveLinx wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.

14. For use with DE010 and D5LT drivers.

18. Flange is the same finish as the reflector

22. Available with 45° cutoff (DP) trim only. Required for use with all IEMBOD, IEM7, IEM14,IEMV7 and IEMV14 housings. Not offered with remote driver.

23. Available with 45D cutoff (DP) trim only. Not available with LI or WH finishes. Required for use with IEMBOD6ST. Not offered with remote driver.

25. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

26. Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).

27. Order trim with knife edge.

28. Order with self-flanged trim.

29. If using remote driver order battery and controls with the remote driver.

30. 120V-277V

31. Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others).

32. Non-IC

33. Not available with Lutron drivers.

34. 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.

35. 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.

36. Offered with 25° and above distribution.

37. Requires 2M designation on light engine.

COOPER
Lighting Solutions
a **signify** business