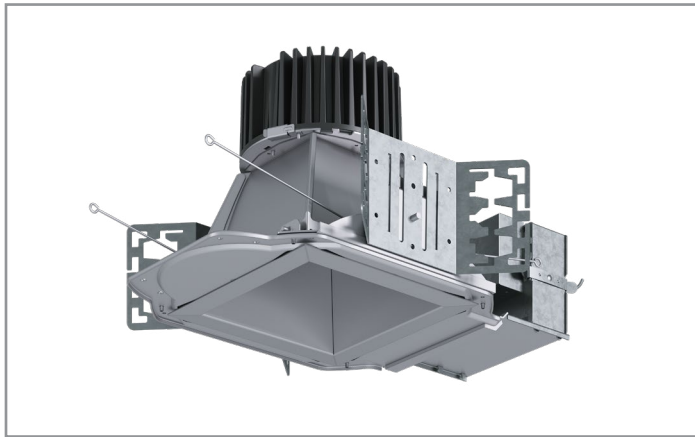


Project		Catalog #		Type	
Prepared by		Notes		Date	



Portfolio

LDSQ4D | EU4D | 4LBSQW

4" Square, 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

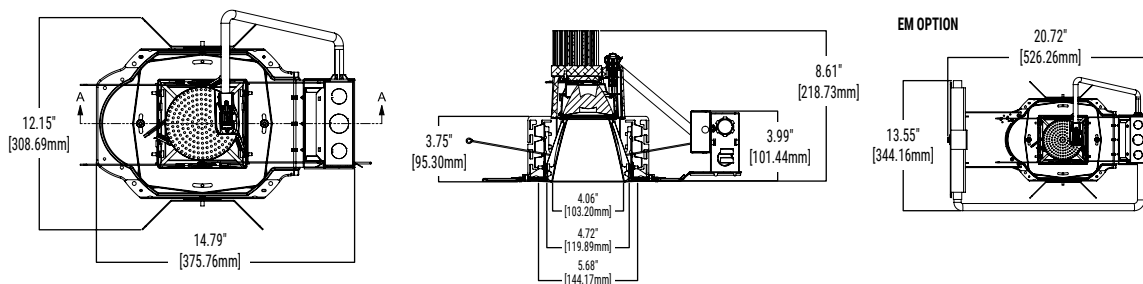
- Order Information [page 2](#)
- Product Specifications [page 4](#)
- Energy Data [page 6](#)
- Photometric Data [page 7](#)
- Connected System [page 12](#)
- Product Warranty



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; Die-cast or anodized aluminum reflectors
- Standard 0-10V driver dims to 1%; Easy disconnect for LED engine replacement and installation
- 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

Dimensional and Mounting Details



[CLICK HERE](#)
dimension information

Single Line Order Information

SAMPLE ORDER NUMBER: **LDSQ4D10R109030D010SQW1H = LDSQ4D10D010 + EU4DR100210IC9030 + 4LBSQW1H**

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.

Multi-line Ordering
Information Option

Housing	Lumen ⁽¹⁾			Optic		Color Control	CCT		Optic Position
LDSQ4D =LED Square Downlight 4" Nominal Aperture LDSQ4DCP =LED Square Downlight 4" Nominal Aperture, Chicago Plenum	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⁾	30 =3000 lumens ⁽¹⁶⁾ 35B =3500 lumens ^{(16) (21)} 40B =4000 lumens ^{(16) (21)} 45B =4500 lumens ^{(16) (21)} 50 =5000 lumens ^{(16) (21)} 55 =5500 lumens ^{(16) (21)} 60 =6000 lumens ^{(16) (21)}	65 =6500 lumens ^{(16) (21)} 70B =7000 lumens ^{(16) (21)} 75B =7500 lumens ^{(16) (21)} 80B =8000 lumens ^{(16) (21)} 85B =8500 lumens ^{(16) (21)} 90B =9000 lumens ^{(16) (21)} 95B =9500 lumens ^{(16) (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 Min. 97 =97 CRI Min.	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) DSL =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 ⁽⁹⁾	Blank = Integral driver RD100 = Remote 100ft ^{(9) (33)} RD75 = Remote 75ft ^{(9) (33)} RD50 = Remote 50ft ^{(9) (33)} RD25 = Remote 25ft ^{(9) (33)} RD15 = Remote 15ft ⁽⁹⁾ RD5 = Remote 5ft ⁽⁹⁾ RD2 = Remote 2ft ⁽⁹⁾ PD = Plug in Driver	Blank = Without hanger bars B26 = C-channel Bar Hanger, 26" Long, Pair

Trim Distribution	Trim Flange	Trim Finish	Options ^{(3) (19) (31)}
SQW = 45° cutoff Anodized Aluminum CSSQ =Cast Shallow Square, Die Cast Aluminum	0 =White Polymer Trim Ring ⁽²⁴⁾ 1 =Self-flanged ⁽¹³⁾ 2 =White Painted Self-flanged 4 =Knife edge rimless use with die cast only ^{(22) (23)}	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) MB =Matte Black ⁽⁶⁾ MMS =Matte Metallic Silver ⁽⁶⁾	EMB0D =Bodine® 7W Emergency Module with Remote Test Switch ⁽²⁵⁾ 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 EM14RSD =14W Self Diagnostic Replaceable Emergency Battery Pack with Integral Test Switch EMB0D7ST =Bodine® 7W Self Test Emergency Module ⁽²⁵⁾ IEMB0D =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⁾ IEMB0D6ST =Bodine® 6W Self Test Emergency Module with Integral Test Switch

Accessories (Sold separately) ⁽²²⁾					
PRSQ4 =Rimless Plaster Ring ⁽²⁾ RKPSQ4 =Knife Edge plaster Ring ⁽²⁴⁾ RPMSQ4MW =Rimless Millwork Ring, Matte White ⁽²⁾ RPMSQ4MB =Rimless Millwork Ring, Matte Black ⁽²⁾ RKMSQ4MW =Knife Edge Millwork Ring, Matte White ⁽²⁴⁾ RKMSQ4MB =Knife Edge Millwork Ring, Matte Black ⁽²⁴⁾	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 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 CRI and CCT.

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

6. Available with SQW open anodized Aluminum trims. Required for use with all IEMB0D, IEM7, IEM14, JEMV7 and IEMV14 housings. 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 DSL 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. 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. Available with 25° beam & above

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

23. Requires knife edge accessory ring

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

30. Offered with DLVP up to 3000 lumens

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. Not available with CSSQ Cast Shallow Square, Die Cast Aluminum reflector

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.

Product Specifications

Lower Shielding Reflector

- Painted die cast aluminum or 45° cutoff anodized aluminum reflector providing minimal source brightness.
- Anodized reflectors are offered in all Portfolio finishes.
- Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface.
- Plaster lathing ring, knife edge and millwork ring accessory for flush reflector transition

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

- Galvanized steel plaster frame with adjustable collar adjusts for up to 2" thick ceilings and rotates +/- 7.5°.

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 (4) #12 AWG (two in, two out) 90°C conductors and feed thru branch wiring for type IC and Plug in drivers for 120/277V only. For all other cases (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring for 120/277V only

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)

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/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.
- 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

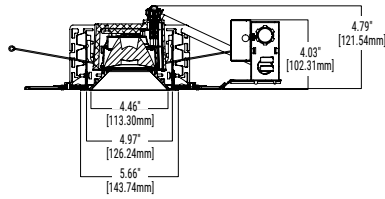
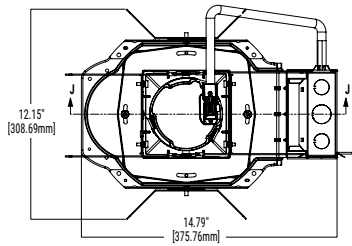
Warranty

- Five year warranty www.cooperlighting.com/legal

Marked Spacing

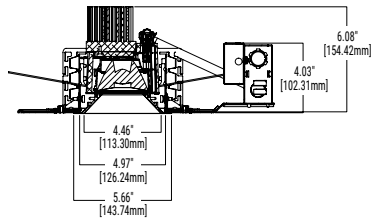
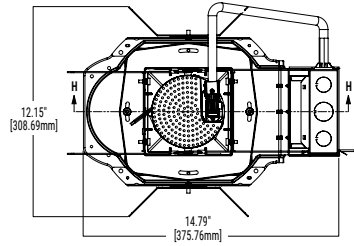
4-inch Marked spacing for 90 and 97 CRI			
Lumens	Center to Center of Adjacent Luminaire (inches)	Center Luminaire to Building Side Member (inches)	Minimum Overhead Height (inches)
5500-6500	36	18	6
7000-9500	36	18	8

Dimensional and Mounting Details



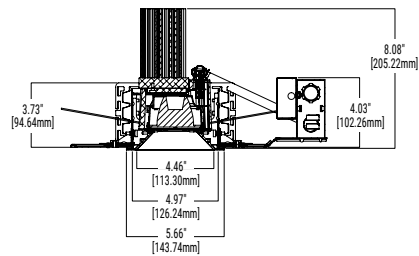
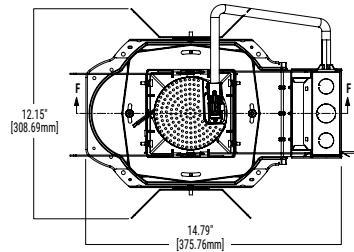
LDSQ4D-4LBCSSQ

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



LDSQ4D-4LBCSSQ

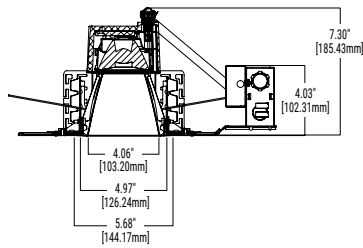
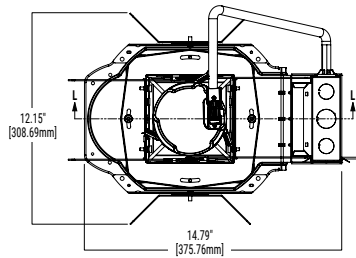
	Min-Max Lumens	Beam Angles
90/97 CRI	1500-2000	10°
	1500-3000	15°-20°
	2000-5000	25°-70°



LDSQ4D-4LBCSSQ

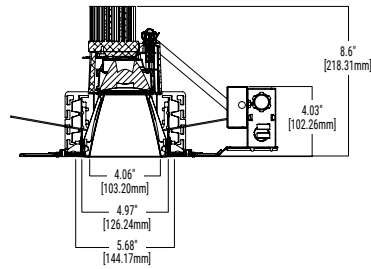
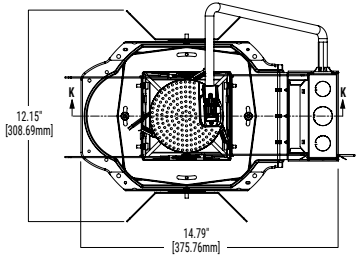
	Min-Max Lumens	Beam Angles
90/97 CRI	5500-9500	25°-70°

Dimensional and Mounting Details



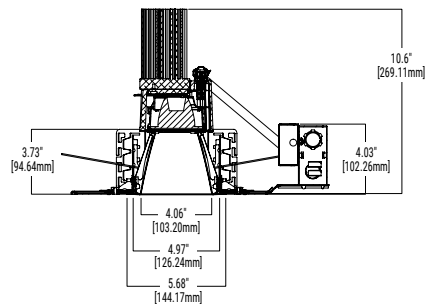
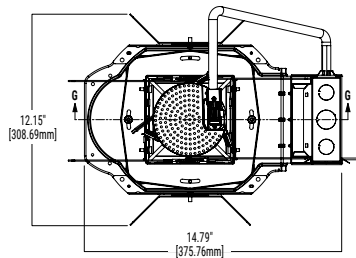
LDSQ4D-4LBSQW

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



LDSQ4D-4LBSQW

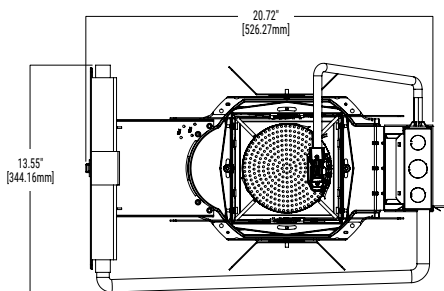
	Min-Max Lumens	Beam Angles
90/97 CRI	1500-2000	10°
	1500-3000	15°-20°
	2000-5000	25°-70°



LDSQ4D-4LBSQW

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

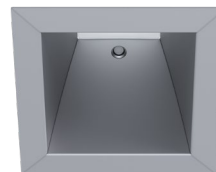
Emergency Option



Trim with E option



Trim with EM6 option



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)

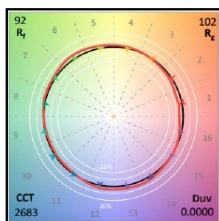
Sound Rating: Class A standards

Notes:

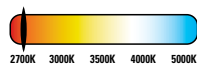
Emergency Battery packs are rated for a minimum starting temperature of 0°C.

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

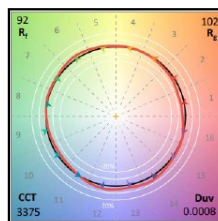
90 CRI Color Metric Summary - 2700K*



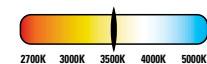
TM-30-15	Rf = 92.1
	Rg = 101.6
CRI/CIE	Ra = 93.8
	R9 = 59.7



90 CRI Color Metric Summary - 3500K*



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

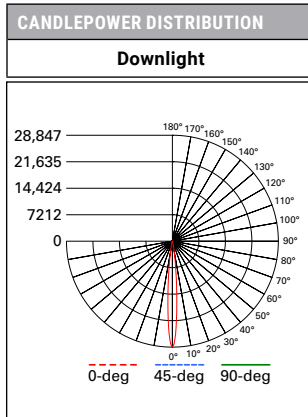


* Color values are based on haze reflector, other finishes and field results may vary.

Photometric Data



10° with 4LBCSSQ and 4LBSQw reflector	
Test Number	P735991
Housing	LD4D15D010
Module	EU4DR1015209035
Trim	4LBCSSQMW
Lumens	1325
Efficacy	83.9 Lm/W
SC	0.7
UGR	10



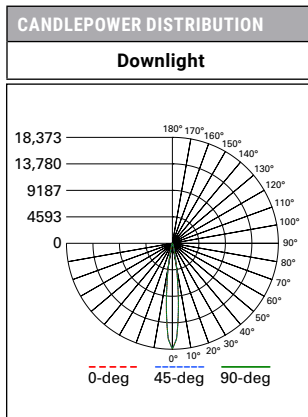
CONE OF LIGHT

D	FC	L	W
6'	801.3	0.8	0.8
8'	450.7	1.2	1.2
10'	288.5	1.6	1.6
12'	200.3	1.8	1.8
15'	128.2	2.4	2.4

CANDELA TABLE

Degrees Vertical	0-deg
0	28847
5	13627
15	744
25	151
35	52
45	20
55	7
65	0
75	0
80	0

15° with 4LBCSSQ and 4LBSQW reflector	
Test Number	P735993
Housing	LD4D15D010
Module	EU4DR1515309035
Trim	4LBCSSQMW
Lumens	1349
Efficacy	85.3 Lm/W
SC	0.22
UGR	10



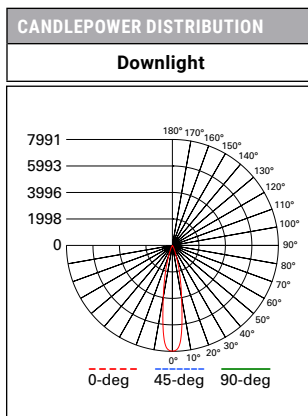
CONE OF LIGHT

D	FC	L	W
6'	510.4	1.2	1.2
8'	287.1	1.6	1.6
10'	183.7	2.2	2.2
12'	127.6	2.6	2.6
15'	81.7	3.2	3.2

CANDELA TABLE

Degrees Vertical	0-deg
0	18373
5	11954
15	1038
25	122
35	24
45	12
55	8
65	5
75	2
80	2

20° with 4LBCSSQ and 4LBSQW reflector	
Test Number	P735995
Housing	LD4D15D010
Module	EU4DR2015309035
Trim	4LBCSSQMW
Lumens	1404
Efficacy	88.9 Lm/W
SC	0.34
UGR	10



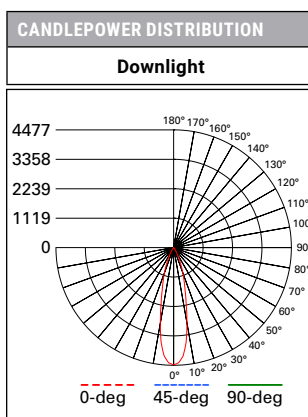
CONE OF LIGHT

D	FC	L	W
6'	222	2	2
8'	124.9	2.6	2.6
10'	79.9	3.4	3.4
12'	55.5	4	4
15'	35.5	5	5

CANDELA TABLE

Degrees Vertical	0-deg
0	7991
5	7182
15	1987
25	364
35	94
45	26
55	6
65	2
75	0
80	0

25° with 4LBCSSQ and 4LBSQW reflector	
Test Number	P735997
Housing	LD4D15D010
Module	EU4DR250215C9035
Trim	4LBCSSQMW
Lumens	1180
Efficacy	74.7 Lm/W
SC	0.42
UGR	10



CONE OF LIGHT

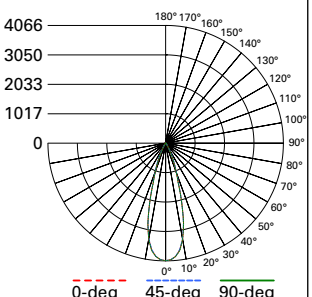
D	FC	L	W
6'	124.4	2.4	2.4
8'	70	3.2	3.2
10'	44.8	4.2	4.2
12'	31.1	5	5
15'	19.9	6.2	6.2

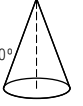
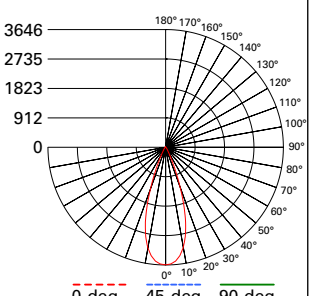
CANDELA TABLE

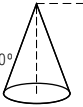
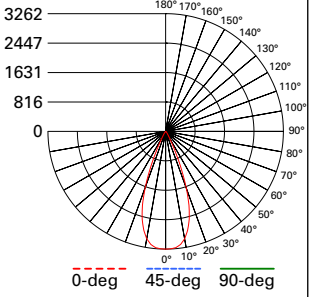
Degrees Vertical	0-deg
0	4477
5	4154
15	1692
25	542
35	85
45	20
55	4
65	2
75	0
80	0

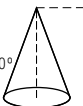
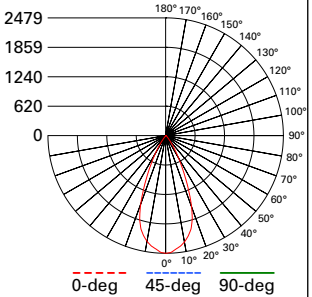
Photometric Data

 Multipliers

30° with 4LBCSSQ and 4LBSQW reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE	
Test Number	P735999	Downlight				Degrees Vertical	0-deg
Housing	LD4D15D010			D	FC	L	W
Module	EU4DR300215IC9035			6'	112.9	3	3
Trim	4LBCSSQMW			8'	63.5	4	4
Lumens	1264			10'	40.7	5.2	5.2
Efficacy	80 Lm/W			12'	28.2	6.2	6.2
SC	0.52			15'	18.1	7.8	7.8
UGR	10					80	0

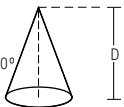
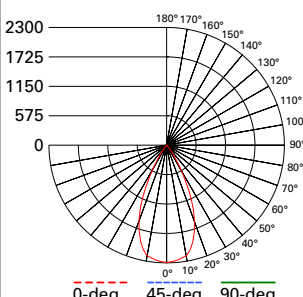
35° with 4LBCSSQ and 4LBSQW reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE	
Test Number	P736001	Downlight				Degrees Vertical	0-deg
Housing	LD4D15D010			D	FC	L	W
Module	EU4DR350215IC9035			6'	101.3	3.4	3.4
Trim	4LBCSSQMW			8'	57	4.6	4.6
Lumens	1325			10'	36.5	5.8	5.8
Efficacy	83.9 Lm/W			12'	25.3	7	7
SC	0.6			15'	16.2	8.8	8.8
UGR	10					80	0

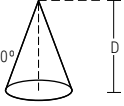
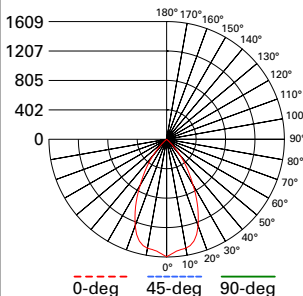
40° with 4LBCSSQ and 4LBSQW reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE	
Test Number	P736003	Downlight				Degrees Vertical	0-deg
Housing	LD4D15D010			D	FC	L	W
Module	EU4DR400215IC9035			6'	90.6	4	4
Trim	4LBCSSQMW			8'	51	5.4	5.4
Lumens	1401			10'	32.6	6.6	6.6
Efficacy	88.7 Lm/W			12'	22.7	8	8
SC	0.68			15'	14.5	10	10
UGR	10					80	0

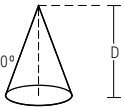
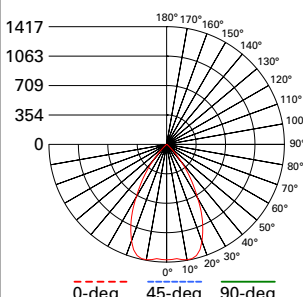
45° with 4LBCSSQ and 4LBSQW reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE	
Test Number	P736005	Downlight				Degrees Vertical	0-deg
Housing	LD4D15D010			D	FC	L	W
Module	EU4DR450215IC9035			6'	68.9	4.4	4.4
Trim	4LBCSSQMW			8'	38.7	5.8	5.8
Lumens	1402			10'	24.8	7.4	7.4
Efficacy	88.8 Lm/W			12'	17.2	8.8	8.8
SC	0.75			15'	11	11.2	11.2
UGR	10					80	0

Photometric Data

 Multipliers

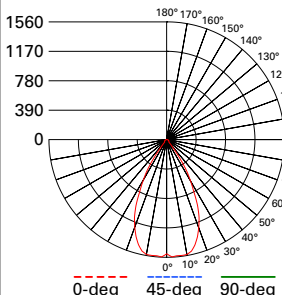
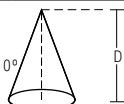
50° with 4LBCSSQ and 4LBSQW reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE	
Test Number	P736007	Downlight				Degrees Vertical	0-deg
Housing	LD4D15D010			D	FC	L	W
Module	EU4DR500215IC9035			6'	63.9	4.6	4.6
Trim	4LBCSSQMW			8'	35.9	6.2	6.2
Lumens	1427			10'	23	7.8	7.8
Efficacy	90.3 Lm/W			12'	16	9.4	9.4
SC	0.8			15'	10.2	11.8	11.8
UGR	10						

55° with 4LBCSSQ and 4LBSQW reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE	
Test Number	P736009	Downlight						Degrees Vertical	0-deg
Housing	LD4D15D010			D	FC	L	W	0	1609
Module	EU4DR550215IC9035			6'	44.7	5.2	5.2	5	1539
Trim	4LBCSSQMW			8'	25.1	7	7	15	1444
Lumens	1435			10'	16.1	8.8	8.8	25	1004
Efficacy	90.8 Lm/W			12'	11.2	10.6	10.6	35	497
SC	0.89			15'	7.1	13.2	13.2	45	125
UGR	13							55	14
								65	1
								75	0
								80	0

60° with 4LBCSSQ reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE	
Test Number	P736011	Downlight				Degrees Vertical	0-deg
Housing	LD4D15D010			D	FC	L	W
Module	EU4DR600215IC9035			6'	38.8	5.8	5.8
Trim	4LBCSSQMW			8'	21.8	7.8	7.8
Lumens	1395			10'	14	9.6	9.6
Efficacy	88.3 Lm/W			12'	9.7	11.6	11.6
SC	0.98			15'	6.2	14.6	14.6
UGR	13						

0-deg		45-deg		90-deg	
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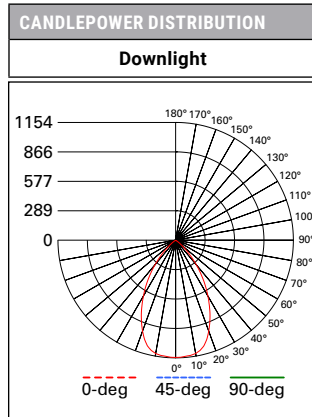
0	1396
5	1387
15	1391
25	1021
35	497
45	102
55	13
65	1
75	0
80	0

60° with 4LBSQW reflector		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE	
Test Number	P736014	Downlight					Degrees Vertical	0-deg	
Housing	LD4D15D010				D	FC	L	W	0
Module	EU4DR600215IC9035			6'	43.2	5.2	5.2	5	1549
Trim	4LBSQW1MW			8'	24.3	7	7	15	1448
Lumens	1278			10'	15.6	8.8	8.8	25	969
Efficacy	80.9 Lm/W			12'	10.8	10.6	10.6	35	297
SC	0.91			15'	6.9	13.4	13.4	45	41
UGR	14							55	34
								65	26
								75	17
								80	11

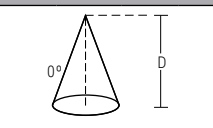
Photometric Data

 Multipliers

65° with 4LBCSSQ reflector	
Test Number	P736015
Housing	LD4D15D010
Module	EU4DR650215IC9035
Trim	4LBCSSQMW
Lumens	1271
Efficacy	80.4 Lm/W
SC	0.95
UGR	14



CONE OF LIGHT

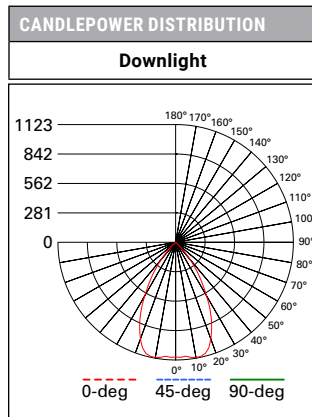


D	FC	L	W
6'	32	5.6	5.6
8'	18	7.6	7.6
10'	11.5	9.4	9.4
12'	8	11.4	11.4
15'	5.1	14.2	14.2

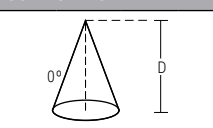
CANDELA TABLE

Degrees Vertical	0-deg
0	1154
5	1146
15	1076
25	801
35	477
45	188
55	42
65	9
75	2
80	1

65° with 4LBSQW reflector	
Test Number	P736018
Housing	LD4D15D010
Module	EU4DR650215IC9035
Trim	4LBSQW1MW
Lumens	1118
Efficacy	70.7 Lm/W
SC	0.98
UGR	14



CONE OF LIGHT

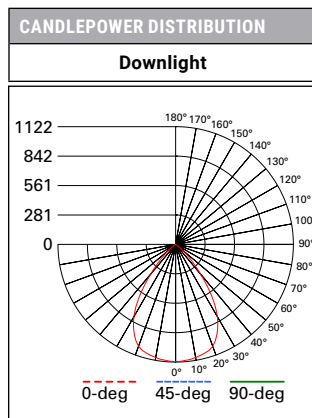


D	FC	L	W
6'	30.6	5.8	5.8
8'	17.2	7.8	7.8
10'	11	9.8	9.8
12'	7.7	11.8	11.8
15'	4.9	14.6	14.6

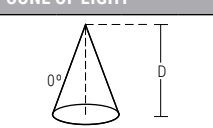
CANDELA TABLE

Degrees Vertical	0-deg
0	1100
5	1097
15	1103
25	812
35	397
45	82
55	14
65	3
75	2
80	1

70° with 4LBCSSQ reflector	
Test Number	P736019
Housing	LD4D15D010
Module	EU4DR700215IC9035
Trim	4LBCSSQMW
Lumens	1421
Efficacy	90 Lm/W
SC	1.1
UGR	16



CONE OF LIGHT

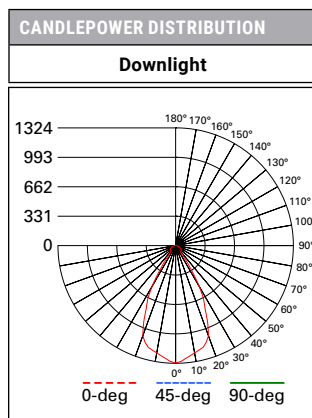


D	FC	L	W
6'	31.2	6.6	6.6
8'	17.5	8.8	8.8
10'	11.2	11	11
12'	7.8	13.2	13.2
15'	5	16.4	16.4

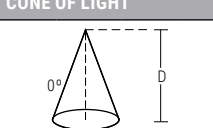
CANDELA TABLE

Degrees Vertical	0-deg
0	1122
5	1115
15	1078
25	941
35	605
45	207
55	46
65	0
75	0
80	0

70° with 4LBSQW reflector	
Test Number	P736022
Housing	LD4D15D010
Module	EU4DR700215IC9035
Trim	4LBSQW1MW
Lumens	1177
Efficacy	74.5 Lm/W
SC	0.88
UGR	18



CONE OF LIGHT



D	FC	L	W
6'	36.8	5.2	5.2
8'	20.7	7	7
10'	13.2	8.8	8.8
12'	9.2	10.4	10.4
15'	5.9	13.2	13.2

CANDELA TABLE

Degrees Vertical	0-deg
0	1324
5	1279
15	1190
25	783
35	177
45	86
55	73
65	53
75	28
80	17

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

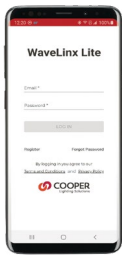
2700K	3000K	3500K	4000K	5000K
0.88	0.95	1	1.016	1.07

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



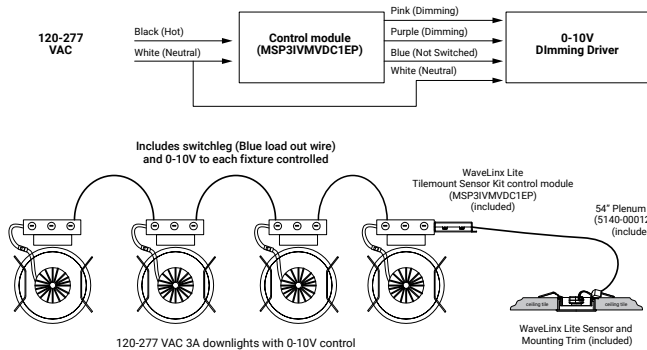
WaveLinX LITE - WLST Tilemount Sensor

WaveLinX LITE devices only compatible with the WaveLinX LITE system.

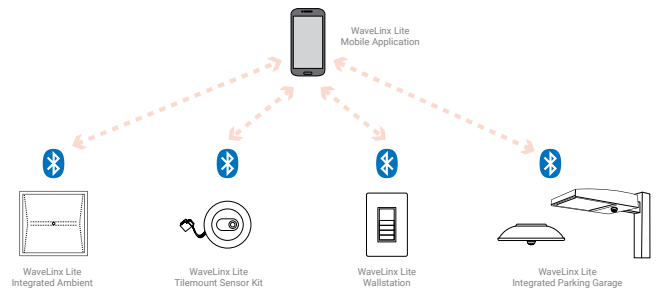
- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinX system specifications for details



WaveLinX LITE WLST Tilemount Wiring Diagram



WaveLinX LITE Bluetooth Enabled System

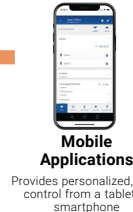
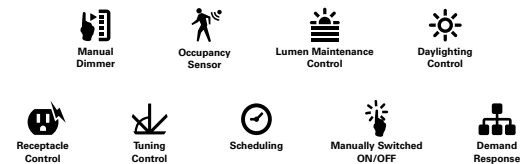


WaveLinX PRO Wireless – WPST Tilemount Sensor

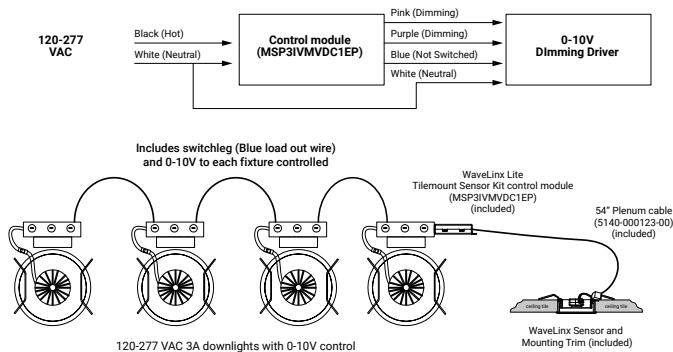
WaveLinX PRO devices only compatible with the WaveLinX PRO system.

- 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

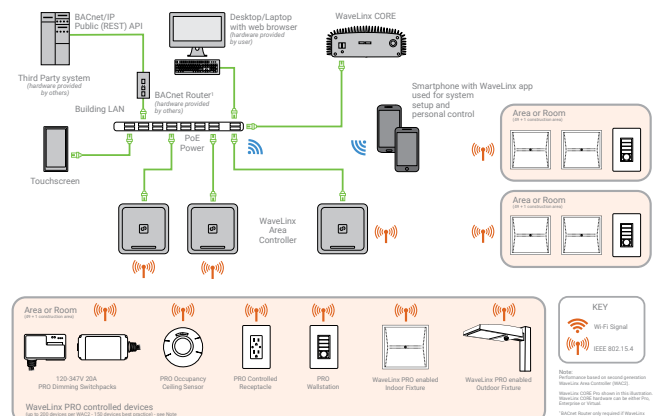
WaveLinX mobile app settings



WaveLinX PRO WPST Tilemount Wiring Diagram



WaveLinX CORE Building Management Integration



Portfolio

Connected Solutions



WaveLinX LITE Wireless Node - WLN

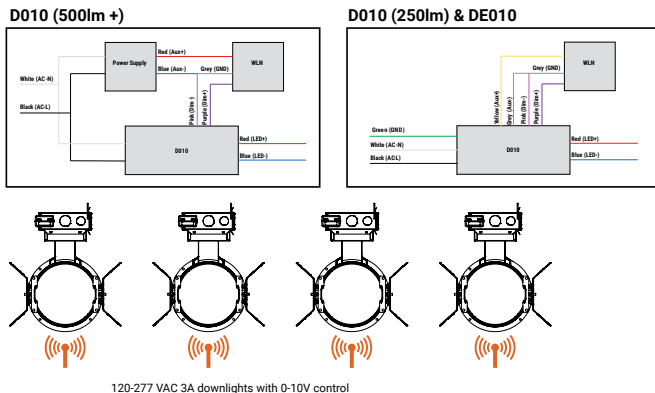
WaveLinX LITE devices only compatible with the WaveLinX LITE system.

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Refer to the WaveLinX system specifications for details
- Not available with BioUp or Tunable White

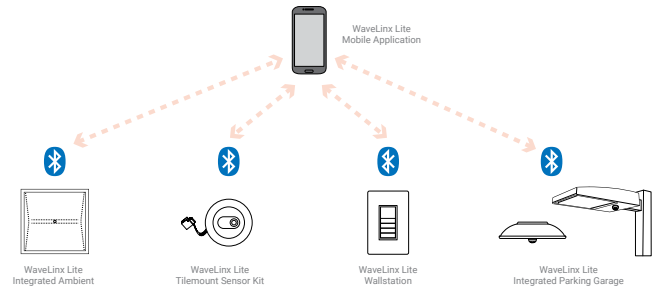
WaveLinX mobile app settings



WaveLinX LITE Wireless Node (WLN) Wiring Diagram



WaveLinX LITE Bluetooth Enabled System



WaveLinX PRO Wireless Node - WPN

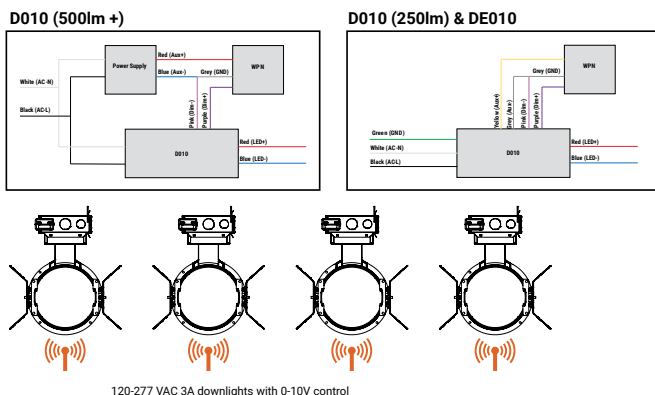
WaveLinX PRO devices only compatible with the WaveLinX PRO system.

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

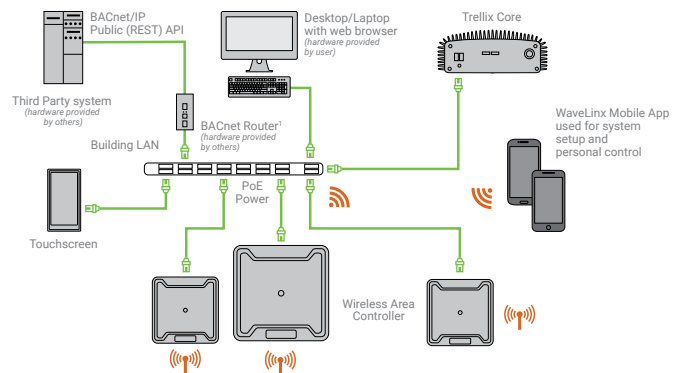
WaveLinX mobile app settings



WaveLinX PRO Wireless Node (WPN) Wiring Diagram



WaveLinX CORE Building Management Integration



Multi-line Order Information

SAMPLE ORDER NUMBER: **LDSQ4D10D010TRIEM14** (All components may ship separately)

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

Single line Ordering
Information Option

Domestic Preferences ⁽¹⁾	Housing	Lumens ⁽²⁾		
[Blank] =Standard BAA =Buy American Act TAA =Trade Agreements Act	LDSQ4D =LED Square Downlight 4" Nominal Aperture LDSQ4DCP =LED Square Downlight 4" 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⁾ 70B =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 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 ⁽²³⁾ WLN = WaveLinX LITE Wireless Node without sensor ⁽³⁵⁾

SAMPLE ORDER NUMBER: **EU4DR100210IC9727**

Domestic Preferences ⁽¹⁾	Power Module	Optics	Lumen Levels ⁽²⁾	CRI ⁽²⁾	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: **4LBSQW2H**

Trim	Reflector	Flange	Finish	Options
4LB =4" LED	SQW =Square Wide Anodized Aluminum CSSQ =Cast Shallow Square, Die Cast Aluminum	0 =White polymer trim ring ⁽³⁴⁾ 1 =Self flanged ⁽¹⁸⁾ 2 =White painted self flanged 4 =Knife edge rimless use with die cast only ⁽¹⁹⁾	LI =Specular Clear ⁽²⁰⁾ H =Semi-Specular Clear ⁽²⁰⁾ WMH =Warm Haze ⁽²⁰⁾ WH =Wheat ⁽²⁰⁾ GPH =Graphite Haze ⁽²⁰⁾ B =Specular Black ⁽²⁰⁾ MW =Matte White (Antimicrobial) ⁽²⁰⁾ MB =Matte Black ⁽²¹⁾ MMS =Matte Metallic Silver ⁽²¹⁾	E =Integral Emergency Test Switch Hole, for use with IEM7, IEM14, IEMBOD ⁽²²⁾ EM6 =Integral Emergency Test Switch Hole, for use with IEMBOD6ST ⁽²²⁾

Continued on next page.

Multi-line Order Information

REQUIRED if Remote Driver (R) is specified

SAMPLE ORDER NUMBER: RD10010D010TREM7

Domestic Preferences ⁽¹⁾	Remote Drivers ⁽⁴⁾	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 (20° beams and above) ⁽³²⁾ 30=3000 lumens (20° 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) ⁽³⁾ 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: ⁽⁴⁾ (29) (30) (32)	Controls: ⁽⁴⁾ (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 ⁽²³⁾ WLN = WaveLinX LITE Wireless Node without sensor ⁽³⁵⁾

Accessories (Order separately) ⁽²⁵⁾				
PRSQ4=rimless Plaster Ring ⁽²⁶⁾ RKPSQ4=Knife Edge plaster Ring ⁽²⁷⁾ RPMSQ4MW=rimless Millwork Ring, Matte White ⁽²⁾ RPMSQ4MB=rimless Millwork Ring, Matte Black ⁽²⁾ RKMSQ4MW=Knife Edge Millwork Ring, Matte White ⁽²⁷⁾ RKMSQ4MB=Knife Edge Millwork Ring, Matte Black ⁽²⁷⁾	Connected Lighting Systems ^{(4) (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 HB26=C-channel Bar Hanger, 26" Long, Pair HB50=C-channel Bar Hanger, 50" Long, Pair RMB22=Wood Joist Bar Hanger, 22" Long, Pair	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:**

 - 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.
 - Nominal Lumens will vary depending on selected color, CRI, driver and reflector finish. Reference [Multiplier tables](#).
 - Product is marked spacing. [Reference table on page 4 for the spacing details](#).
 - DMX fixtures default to full on upon loss of DMX signal.
 - Not available with Chicago Plenum.
 - ULUS listed only
 - Not available with 7000-9500 lumens, DLVP up to 3000 lumens
 - Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver.
 - WLST = WaveLinX LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX LITE system specifications)
- WPST = WaveLinX wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
 - For use with DE010 and D5LT drivers
 - Flange is the same finish as the reflector
 - Requires knife edge accessory ring
 - Spun aluminum only
 - Die cast only
 - Available with 45D cutoff (SQW) trim only. Required for use with all IEMBOD, IEM7, IEM14, IEMV7 and IEMV14 housings. Not offered with remote driver.
 - 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.
 - Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
 - Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
 - Order die cast trim with flange type 4.
- If using remote driver order battery and controls with the remote driver.
 - 120V-277V
 - Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others).
 - Non-IC
 - Not available with Lutron drivers
 - Not available with CSSQ cast shallow square, die cast aluminum reflector
 - 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.
 - Offered with 25° and above distribution.
 - Requires 2M designation on light engine.