Project		Catalog #		Type	
Prepared by		Notes		Date	

Downlight

Wall Wash

Portfolio

LD4C | EU4C | 4LB

4" Round, New Construction Downlight
Narrow, Medium, Wide Beam or Wall Wash
250-7500 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 14
- Product Warranty

Product Certification

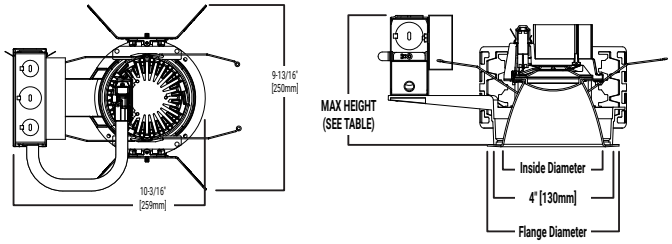
Product Features

Top Product Features

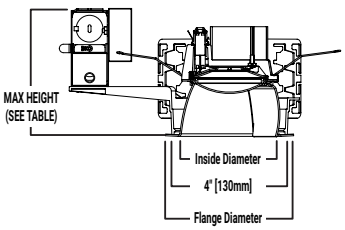
- 250-7500 lumens; Offered in 90 and 97 CRI; ENERGY STAR® qualified
- Easy disconnect for LED engine replacement and installation
- Optional snap in driver for ease of replacement
- Standard 0-10V driver dims to 1%
- 2400K, 2700K, 3000K, 3500K, 4000K, 5000K; D2W™ option from 3000K to 1850K
- Available 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

DOWNLIGHT



WALL WASH



CLICK HERE
dimension information

Single Line Order Information

Multi-line Ordering Information Option

SAMPLE ORDER NUMBER: **LD4C109030D010M1H**

Invoice will indicate separate fixture components (housing, trim, module) which will ship complete from a single CLS facility in separate cartons.

Domestic Preferences [19]	Housing	Lumen [1]				Color Control	CCT [20]	
[Blank]=Standard **BAA**=Buy American Act **TAA**=Trade Agreements Act	**LD4C**=LED Downlight 4" Nominal Aperture **LD4CCP**=LED Downlight 4" Nominal Aperture, Chicago Plenum	**02** = 250 lumens, IC rated **05** = 500 lumens, IC rated **08** = 800 lumens, IC rated **10** = 1000 Lumens **10IC** = 1000 Lumens, IC rated	**15** = 1500 Lumens **15IC** = 1500 Lumens, IC rated **20** = 2000 Lumens **25** = 2500 lumens **30** = 3000 Lumens	**35** = 3500 lumens **40** = 4000 Lumens **45** = 4500 Lumens [10] **50** = 5000 Lumens [10] **55** = 5500 Lumens [10]	**60** = 6000 Lumens [10] **65** = 6500 Lumens [10] **70** = 7000 Lumens [10] **75** = 7500 Lumens [10]	**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

Driver	*Specify from Driver column. Information below for reference only.* Remote driver & plug in driver
D010=0-10V Dimming, 1% to 100%, 120V-277V up to 7000 lumens (up to 3000 lumens for remote driver) **1D010**=0-10V Dimming, 1% to 100%, 120V 7500 lumens (3500 to 7000 lumens for remote driver) **2D010**=0-10V Dimming, 1% to 100%, 277V 7500 lumens (3500 to 7000 lumens for remote driver) **3D010**=0-10V Dimming, 1% to 100%, 347V dedicated drivers for 800 to 4000 lumens; 250, 500, 4500 and above use step down transformer (250 to 7000 lumens for remote driver)	250-7000
D010TR=0-10V Dimming, 5% to 100%,120V-277V or 120V line voltage dimming 250- 4500 lumens (up to 3000 lumens for remote driver) **1D010TR**=0-10V or line voltage Dimming, 5% to 100%, 120V 5000-7500 lumens (3500 to 4500 lumens for remote driver) **2D010TR**=0-10V Dimming, 5% to 100%, 277V 5000-7500 lumens (3500 to 4500 lumens for remote driver) **3D010TR**=0-10V or line voltage Dimming, 5% to 100%, 347V step down transformer 250-7500 lumens (250 to 4500 lumens for remote driver)	250-4500
DE010=0-10V Dimming, 0% to 100%, 120V-277V 500-7000 lumens (up to 3000 lumens for remote driver) **1DE010**=0-10V Dimming, 0% to 100%, 120V 7500 lumens (3500 to 7000 lumens for remote driver) **2DE010**=0-10V Dimming, 0% to 100%, 277V 7500 lumens (3500 to 7000 lumens for remote driver) **3DE010**=0-10V Dimming, 0% to 100%, 347V step down transformer, 500-7500 lumens (500 to 7000 lumens for remote driver)	500-7000
D5LT=Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V-277V, 500-7000 lumens (up to 3000 lumens for remote driver) **1D5LT**=Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V 7500 lumens (3500 to 7000 lumens for remote driver) **2D5LT**=Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 277V 7500 lumens (3500 to 7000 lumens for remote driver) **3D5LT**=Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100% 347V step down transformer, 500-7500 lumens (500 to 7000 lumens for remote driver)	500-7000
DMX=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V 800-4500 lumens (up to 3000 lumens for remote driver) [14] **1DMX**= DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 5000-7500 lumens (3500 to 4500 lumens for remote driver) [14] **2DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 5000-7500 lumens (3500 to 4500 lumens for remote driver) [14] **3DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-7500 lumens (800 to 4500 lumens for remote driver) [14]	800-4500
DMXC5=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, 800-4500 lumens, RJ45 Connection (up to 3000 lumens for remote driver) [14] **1DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 5000-7500 lumens, RJ45 Connection (3500 to 4500 lumens for remote driver) [14] **2DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 5000-7500 lumens, RJ45 Connection (3500 to 4500 lumens for remote driver) [14] **3DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-7500 lumens, RJ45 Connection (800 to 4500 lumens for remote driver) [14]	800-4500
1DL2 = Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only 800-7500 lumens (800 to 3500 lumens for remote driver) **3DL2** = Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 347V step down transformer, 800-7500 lumens (800 to 3500 lumens for remote driver)	800-3500
DLE=Lutron Ecosystem dimming 1% to 100%, 120V-277V, 800-3500 lumens (up to 3000 lumens for remote driver) **1DLE**=Lutron Ecosystem dimming 1% to 100%, 120V, 4000-7500 lumens (3500 lumens for remote driver) **2DLE**=Lutron Ecosystem dimming 1% to 100%, 277V, 4000-7500 lumens (3500 lumens for remote driver) **3DLE**=Lutron Ecosystem dimming 1% to 100%, 347, step down transformer, 800-7500 lumens (800-3500 lumens for remote driver)	800-3500
DLV = Low voltage dimming driver (1-100%) for use with DLVP system 800-3000 lumens [3]	800-3000 (Remote driver only)

Driver Options		Hanger Bars
Blank = Integral driver **RC100** = Remote 100ft [3] [33] **RC75** = Remote 75ft [3] [33] **RC50** = Remote 50ft [3] [33] **RC25** = Remote 25ft [3]	**RC15** = Remote 15ft [3] **RC5** = Remote 5ft [3] **RC2** = Remote 2ft [3] **PD** = Plug in Driver	**Blank** = Without hanger bars **B26** = C-channel Bar Hanger, 26" Long, Pair

Trim Distribution [5]	Trim Flange	Trim Finish	Options [3] [16] [31]
N=Narrow, Spun Aluminum [26] **M**=50° Cutoff, Medium Beam Reflector, Spun Aluminum **MD**=45° Cutoff, Medium Beam Reflector, Spun Aluminum **W**=Wide, Spun Aluminum **S**=Shallow, Spun Aluminum **HY**=Hyperbolic medium beam [12] **PS**=Non-Conductive Shallow, Injection Molded white [11] [12] **CS**=Cast Shallow, Die Cast Aluminum **BA**= Spun Aluminum Baffle [7] **Wall Wash** **SWN** = Single Wall Wash, Spun Aluminum **DWN** = Double Wall Wash, Spun Aluminum **CW** = Corner Wall Wash, Spun Aluminum **LSWW** = Lensed Single wall wash, Spun Aluminum **LDWW** = Lensed Double wall wash, Spun Aluminum	**0**=White Polymer Trim Ring **1**=Self-flanged [13] **2**=White Painted Self-flanged **4**=Knife edge rimless use with die cast only [8] [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 [8] **MMS**=Matte Metallic Silver [8]	**EMBOD**=Bodine® 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 **EMBOD7ST**=Bodine® Self Test Emergency Module [25] **IEMBOD**=Bodine® 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] **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, tile mount and ceiling mount sensor) [15] [18] **WLST** = Factory installed WaveLinx Lite Sensor Kit [15] [17]

Continued on next page.

Single Line Order Information

Accessories (*Sold separately*) [22]

TRM4P=White metal trim ring [2]
LGSKT4IP66=IP66 Gasket Kit
DT4RF=6 inch frosted acrylic ring [29]

PRR4=Rimless Plaster Ring [2]
RKP4=Knife Edge plaster Ring [24]

RPM4MW=Rimless Millwork Ring, Matte White [2]
RPM4MB=Rimless Millwork Ring, Matte Black [2]
RKM4MW=Knife Edge Millwork Ring, Matte White [24]
RKM4MB=Knife Edge Millwork Ring, Matte Black [24]

HSA4=Slope Adapter for 4" Aperture Housings, Specify Slope [34]

Connected Lighting Systems [3] [15]
WPST = Field installed WaveLinx sensor Kit [17]
WLST = Field installed WaveLinx Lite Sensor Kit [18]

Transformers
H347=H347 for 5500 lumens and below
H347200=347 to 120V Step Down Transformer, 200VA

Bar Hangers
HB50=C-channel Bar Hanger, 50" Long, Pair
RMB22=Wood Joist Bar Hanger, 22" Long, Pair

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. Beam angles are nominal with LI finish trims.
6. Available with narrow (N), medium (M) and medium 45 degree (MD) Spun Aluminum trims. Required for use with all, IEMBOD, IEM7, IEM14,IEMV7 and IEMV14 housings. Not offered with remote driver.
7. Only available with Matte White and Matte Black Finishes.
8. Available only on CS distributions.
9. Not available on PS, CS or BA distributions.
10. Product is marked spacing. Reference table on page 4.
11. PS available in self-flanged MW finish only.
12. Offered up to 2000 lumens
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 tile mount 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. 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 narrow (N), medium (M), and wide (W) trims.
22. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
23. Accessory (Requires knife edge accessory ring)
24. Order die cast trim with flange type 4
25. Not available with 6500-7000 lumens, DLVP up to 3000 lumens
26. Offered with
- D010, D5LT, DE010 up to 7000 lumens
- D010TR, DMX up to 4500 lumens
- DLE, DL2 up to 3500 lumens
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. Not recommended for use with Wall Wash

Product Specifications

Lower Shielding Reflector
- Painted die-cast aluminum or spun aluminum lower reflector with lensed upper optical chamber provides superior lumen output with minimal source brightness
- Spun reflectors are available in all Portfolio anodized finishes
- Hyperbolic reflector provides minimal aperture brightness and glare.
- Available with non-conductive polymer reflector up to 2000 lumens
- Plaster lathing ring, knife edge and millwork ring accessory for flush reflector transition
- Decorative frosted acrylic ring provides a light glow in the ceiling

Wall Wash Reflector
- **Open Wall Wash** - wall wash reflector with gradient kicker offered in single, double and corner wall wash provides even vertical illumination with minimal source brightness.
- **Rotatable Lensed Wall Wash** - Rotatable Lensed wall wash reflector offered in single and double wall wash provides even vertical illumination with minimal source brightness.

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 High CRI
- 98 CRI and 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
- **98 CRI** With a full-spectrum approach using broad-blue chip technology and special phosphor blends, Thrive is able to closely match the spectrum of the sun across all color temperatures. Benefits of the natural spectrum of the sun using Thrive include superior accurate color rendering, reduced eye strain, and a higher sense of emotional well-being.
- 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

Connected Lighting System
Two WaveLinx connected systems to choose from. Refer to WaveLinx system specifications and application guides for details.

WaveLinx Wireless System Tilemount Sensor Kit
- WaveLinx Wireless WTA tile mount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinx Lite System Tilemount Sensor Kit
- WaveLinx Lite WTK tile mount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx Tilemount Kits Application
- The WTA and WTK tilemount 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 WTA and WTK tilemount kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

Code Compliance
- Thermally protected
- cULus Listed for wet locations with downlight; damp location with wall wash and hyperbolic with covered ceiling
- IP66 rated when used with IP66 gasket kit accessory
- 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 1,500 lumens (90 and 97CRI). 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 table on page 3 for marked spacing requirements

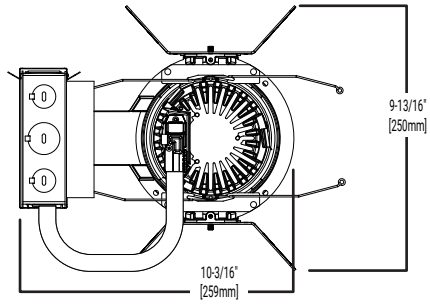
Warranty
- Five year warranty

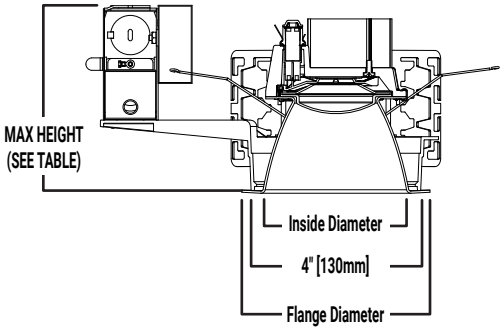
Marked Spacing

4-inch Marked spacing for 90 and 97 CRI			
4000	36	36	0.5
4000-7500 (Lutron)	36	36	8
4500-7500	36	36	8

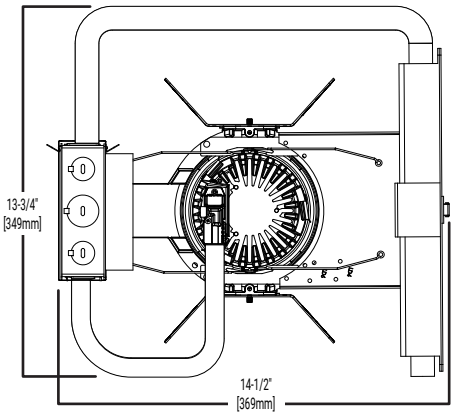
Dimensional and Mounting Details

DOWNLIGHT

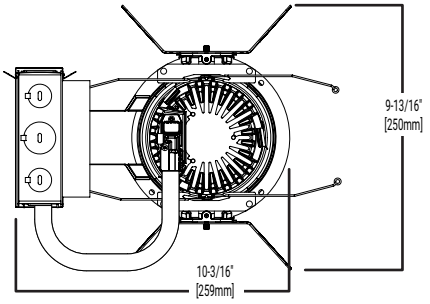


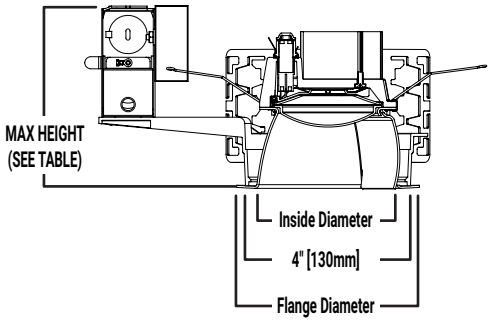


EM OPTION



WALL WASH





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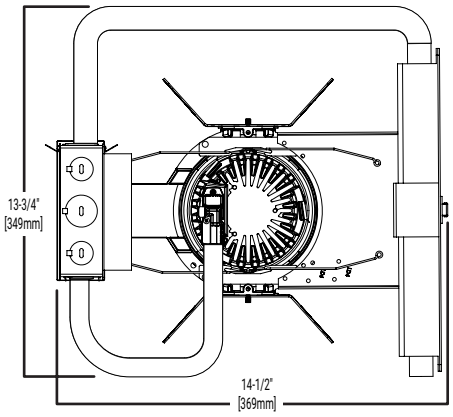
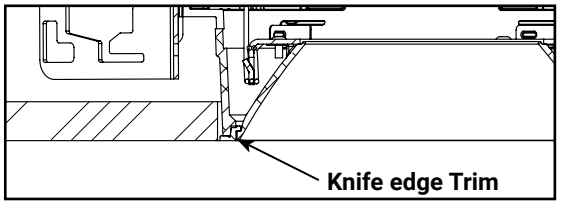
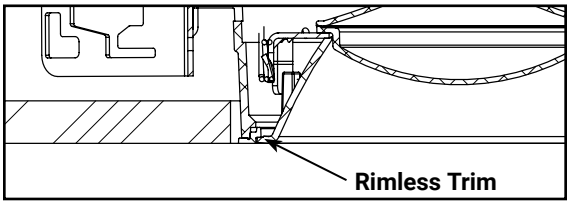






CATALOG #	Flange DIAMETER or WIDTH [IN]	INSIDE DIAMETER or WIDTH [IN]	MAX HEIGHT				
			250-2000 LUMENS (90/97CRI)	2500-4000 LUMENS (90/97CRI)	4500-6000 LUMENS (90/97CRI)	1000-1500IC LUMENS (90/97CRI) 6500-7000 LUMENS (90/97CRI)	2 LEDs 4500-7500 LUMENS (90/97CRI)
4LBN	5.67	4.24	5.6	5.6	5.6	6.1	8.1
4LBM	5.67	4.26	5.6	5.6	5.6	6.1	8.1
4LBW	5.67	4.27	5.6	5.6	5.6	5.7	7.7
4LBBA	5.67	4.28	5.6	5.6	5.6	6.1	8.1
4LBMD	5.67	4.26	5.8	5.9	6.4	6.9	8.9
4LBHY	5.67	4.34	5.6	5.6	5.6	6.1	8.1
4LBS	5.67	4.23	5.6	5.6	5.6	5.6	6.4
4LBPS	5.67	4.23	5.6	5.6	5.6	5.6	6.5
4LBCS	5.67	4.23	5.6	5.6	5.6	5.6	6.5
4LBSWN	5.67	4.27	5.6	5.6	5.6	5.7	7.7
4LBDWN	5.67	4.27	5.6	5.6	5.6	5.7	7.7
4LBCW	5.67	4.01	5.6	5.6	5.6	5.7	7.7
4LBLSWW	5.67	4.27	5.6	5.6	5.6	5.7	7.7
4LBLDWW	5.67	4.27	5.6	5.6	5.6	5.7	7.7

Energy and Performance Data

D010 DRIVER ENERGY DATA

Series	250 lumen		500 lumen		800 lumen		1000 lumen		1500 lumen		2000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.029	0.017	0.061	0.032	0.085	0.041	0.084	0.042	0.135	0.063	0.189	0.084
Input Power (W)	3.45	3.87	7.33	7.78	10.15	10.52	10.04	10.43	16.17	16.56	22.58	22.63
In-rush (A)	2.1	8.5	3.7	8.5	3.6	8.3	3.6	8.4	2.3	9.5	2.1	9.7
Inrush duration (µs)	250	131	190	136	220	135	226	136	230	125	243	132
THDi (%)	7.21	16.92	7.82	10.78	5.57	9.63	7.78	9.24	4.75	9.93	8.03	7.44
PF	≥ 0.98	≥ 0.9	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.96

Series	2500 lumen		3000 lumen		3500 lumen		4000 lumen		4500 lumen		5000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.276	0.121	0.276	0.041	0.333	0.152	0.404	0.181	0.421	0.192	0.491	0.216
Input Power (W)	32.98	32.57	32	10.52	39.83	39.84	48.38	47.94	50.22	50.17	58.69	58.01
In-rush (A)	2.5	11.8	3.6	8.3	3.1	14.3	3.1	14.5	5.6	22.6	5.6	22.6
Inrush duration (µs)	215	111	220	135	200	94	197	95	215	120	213	135
THDi (%)	9.86	6.57	5.57	9.63	4.25	10.05	5.02	7.97	6.12	8.35	8.51	7.92
PF	≥ 0.99	≥ 0.97	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.96

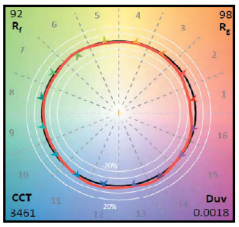
Series	5500 lumen		6000 lumen		6500 lumen		7000 lumen		7500 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.526	0.231	0.542	0.256	0.572	0.266	0.632	0.292	0.668	0.306
Input Power (W)	62.97	61.97	64.88	65.7	68.35	69.02	75.56	75.85	79.89	80.09
In-rush (A)	5.1	23.1	6.2	27.5	6.3	28.4	6.4	29.1	6.4	28.7
Inrush duration (µs)	217	138	188	101	189	92	187	90	185	100
THDi (%)	9.42	7.16	4.33	11.86	4.38	11.33	4.84	10.32	4.46	9.85
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.94

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

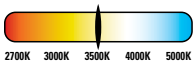
Notes:
Emergency Battery packs are rated for a minimum starting temperature of 0°C.

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

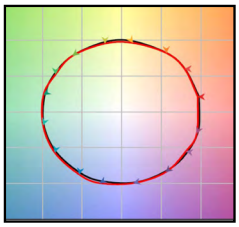
90 CRI Color Metric Summary - 3500K*



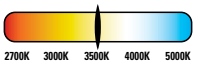
TM-30-15	Rf = 92
	Rg = 98
CRI/CIE	Ra = 92.2
	R9 = 51.4



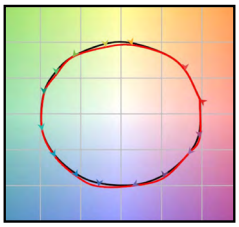
97 CRI Color Metric Summary - 2700K*



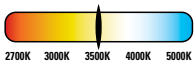
TM-30-15	Rf = 95
	Rg = 99.8
CRI/CIE	Ra = 92.2
	R9 = 85.8



97 CRI Color Metric Summary - 3000K*



TM-30-15	Rf = 93.9
	Rg = 100.2
CRI/CIE	Ra = 92.2
	R9 = 98.7



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

Photometric Data

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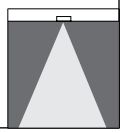
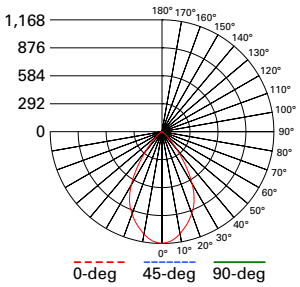
MEDIUM BEAM 50° CUTOFF 65° BEAM (H)

Test Number	P571636
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LBMH
Lumens	1178
Efficacy	74.6 Lm/W
SC	0.95
UGR	11.9

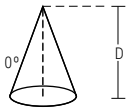


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	73	3.6	3.6
7'	23.8	6.6	6.6
9'	14.4	8.4	8.4
13'	6.9	12.2	12.2
16'	4.6	15	15

CANDELA TABLE

Degrees Vertical	Candela
0	1168
5	1147
15	1006
25	800
35	437
45	135
55	32
65	9
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

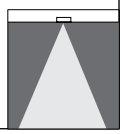
Zone	Lumens	% Fixture
0-30	752	63.8
0-40	1024	87
0-60	1165	98.9
0-90	1178	100
90-180	0	0
0-180	1178	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	55459
45	23472
55	6854
65	2587
75	854
85	0

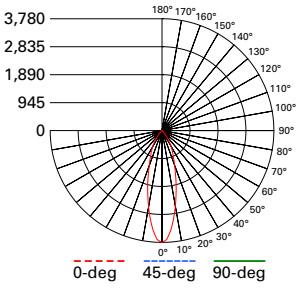
MEDIUM BEAM 50° CUTOFF 45° BEAM (LI)

Test Number	P571637
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LBMLI
Lumens	1469
Efficacy	93 Lm/W
SC	0.48
UGR	0

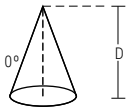


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	236.3	1.8	1.8
7'	77.2	3.2	3.2
9'	46.7	4.2	4.2
13'	22.4	6.2	6.2
16'	14.8	7.6	7.6

CANDELA TABLE

Degrees Vertical	Candela
0	3780
5	3389
15	1844
25	873
35	339
45	38
55	2
65	2
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

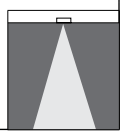
Zone	Lumens	% Fixture
0-30	1213	82.6
0-40	1428	97.2
0-60	1468	99.9
0-90	1469	100
90-180	0	0
0-180	1469	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	38008
45	6672
55	493
65	669
75	0
85	0

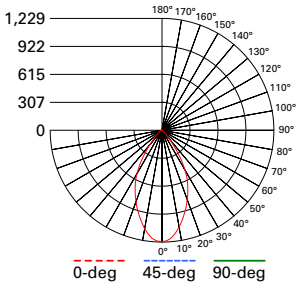
NARROW 55° BEAM (H)

Test Number	P571638
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LBNH
Lumens	979
Efficacy	62 Lm/W
SC	0.81
UGR	8.2

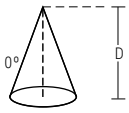


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	76.8	3.2	3.2
7'	25.1	5.6	5.6
9'	15.2	7.2	7.2
13'	7.3	10.4	10.4
16'	4.8	12.8	12.8

CANDELA TABLE

Degrees Vertical	Candela
0	1229
5	1197
15	963
25	685
35	332
45	67
55	16
65	5
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

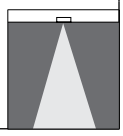
Zone	Lumens	% Fixture
0-30	692	70.7
0-40	899	91.8
0-60	972	99.2
0-90	979	100
90-180	0	0
0-180	979	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	39457
45	11710
55	3406
65	1541
75	854
85	0

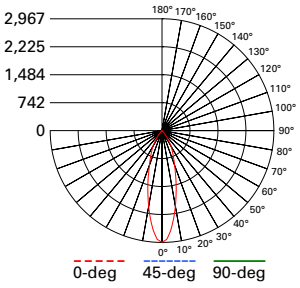
NARROW 30° BEAM (LI)

Test Number	P571639
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LBNLI
Lumens	1153
Efficacy	73 Lm/W
SC	0.48
UGR	0

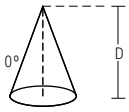


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	185.4	1.8	1.8
7'	60.6	3.2	3.2
9'	36.6	4.2	4.2
13'	17.6	6.2	6.2
16'	11.6	7.6	7.6

CANDELA TABLE

Degrees Vertical	Candela
0	2967
5	2660
15	1447
25	685
35	266
45	30
55	2
65	2
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	952	82.6
0-40	1121	97.2
0-60	1152	99.9
0-90	1153	100
90-180	0	0
0-180	1153	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	29831
45	5247
55	386
65	523
75	0
85	0

Photometric Data

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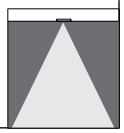
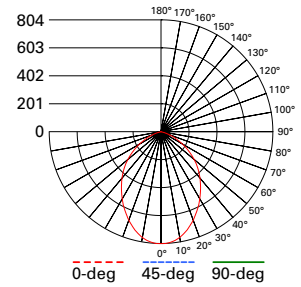
SHALLOW 85° BEAM (H)

Test Number	P571640
Housing	LD4C15D010
Module	EU4B10209035
Trim	4LBSH
Lumens	1538
Efficacy	97.3 Lm/W
SC	1.06
UGR	26.5

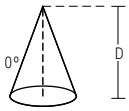


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	50.3	4.2	4.2
7'	16.4	7.4	7.4
9'	9.9	9.4	9.4
13'	4.8	13.6	13.6
16'	3.1	16.8	16.8

CANDELA TABLE

Degrees Vertical	Candela
0	804
5	798
15	730
25	618
35	496
45	376
55	246
65	120
75	29
85	0
90	0

ZONAL LUMEN SUMMARY

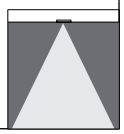
Zone	Lumens	% Fixture
0-30	565	36.7
0-40	875	56.9
0-60	1384	90
0-90	1538	100
90-180	0	0
0-180	1538	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	72577
45	65309
55	52605
65	34942
75	13670
85	0

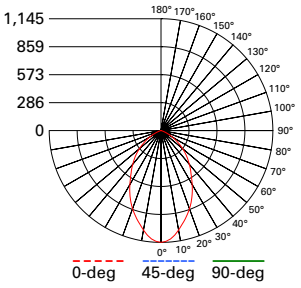
SHALLOW 65° BEAM (LI)

Test Number	P571641
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LBSLI
Lumens	1604
Efficacy	101.5 Lm/W
SC	0.91
UGR	23.9

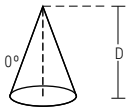


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	71.6	3.6	3.6
7'	23.4	6.2	6.2
9'	14.1	8.2	8.2
13'	6.8	11.8	11.8
16'	4.5	14.4	14.4

CANDELA TABLE

Degrees Vertical	Candela
0	1145
5	1115
15	945
25	749
35	534
45	371
55	208
65	73
75	4
85	0
90	0

ZONAL LUMEN SUMMARY

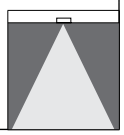
Zone	Lumens	% Fixture
0-30	712	44.4
0-40	1048	65.3
0-60	1520	94.8
0-90	1604	100
90-180	0	0
0-180	1604	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	77201
45	64475
55	44508
65	21163
75	1709
85	0

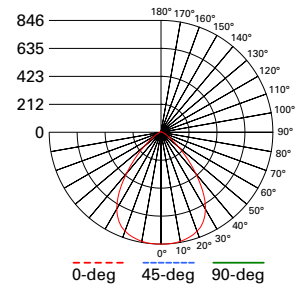
WIDE 80° BEAM (H)

Test Number	P571642
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LBWH
Lumens	1309
Efficacy	82.8 Lm/W
SC	1.18
UGR	17.9

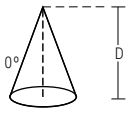


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	52.7	4.6	4.6
7'	17.2	8.2	8.2
9'	10.4	10.4	10.4
13'	5	15.2	15.2
16'	3.3	18.8	18.8

CANDELA TABLE

Degrees Vertical	Candela
0	844
5	844
15	821
25	748
35	547
45	265
55	84
65	23
75	7
85	0
90	0

ZONAL LUMEN SUMMARY

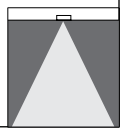
Zone	Lumens	% Fixture
0-30	653	49.9
0-40	991	75.7
0-60	1276	97.5
0-90	1309	100
90-180	0	0
0-180	1309	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	75186
45	45989
55	17885
65	6715
75	3370
85	0

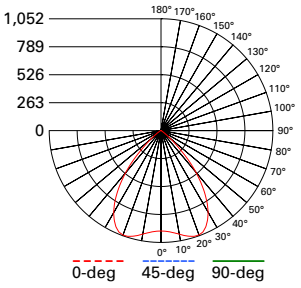
WIDE 80° BEAM (LI)

Test Number	P571643
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LBWLI
Lumens	1551
Efficacy	98.2 Lm/W
SC	1.29
UGR	6.9

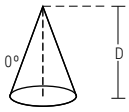


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	59.5	5	5
7'	19.4	9	9
9'	11.8	11.6	11.6
13'	5.6	16.6	16.6
16'	3.7	20.6	20.6

CANDELA TABLE

Degrees Vertical	Candela
0	950
5	963
15	1036
25	1005
35	723
45	279
55	28
65	4
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	844	54.4
0-40	1289	83.1
0-60	1546	99.7
0-90	1551	100
90-180	0	0
0-180	1551	100

LUMINANCE

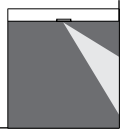
Average Candela Degrees	Average 0° Luminance
37	-
45	-
55	-
65	-
75	-
85	-

Photometric Data

View IES files

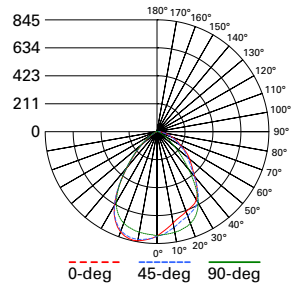
SINGLE WALL WASH (H)

Test Number	P571644
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LCSWH
Lumens	1390
Efficacy	88 Lm/W
SC	1.17
UGR	29.6

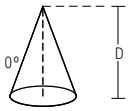


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	51	4.4	4.6
7'	16.6	7.9	8
9'	10.1	10.1	10.2
13'	4.8	14.7	15
16'	3.2	18.1	18.4

CANDELA TABLE

Degrees Vertical	Candela
0	793
5	746
15	669
25	625
35	527
45	371
55	262
65	159
75	74
85	17
90	0

ZONAL LUMEN SUMMARY

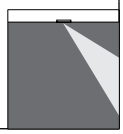
Zone	Lumens	% Fixture
0-30	608	43.8
0-40	928	66.7
0-60	1283	92.3
0-90	1390	100
90-180	0	0
0-180	1390	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	75835
45	64441
55	56032
65	46337
75	34936
85	24527

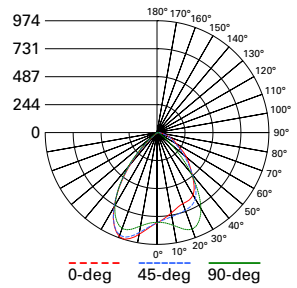
SINGLE WALL WASH (LI)

Test Number	P571645
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LCSWLI
Lumens	1445
Efficacy	91.5 Lm/W
SC	1.3
UGR	28.3

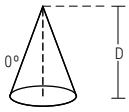


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	54.2	4.5	4.8
7'	17.7	8	8.6
9'	10.7	10.3	11
13'	5.1	14.9	16
16'	3.4	18.4	19.6

CANDELA TABLE

Degrees Vertical	Candela
0	783
5	745
15	673
25	648
35	548
45	384
55	235
65	143
75	57
85	10
90	0

ZONAL LUMEN SUMMARY

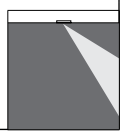
Zone	Lumens	% Fixture
0-30	680	47.1
0-40	1041	72.1
0-60	1362	94.2
0-90	1445	100
90-180	0	0
0-180	1445	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	78745
45	66786
55	50356
65	41599
75	27151
85	14378

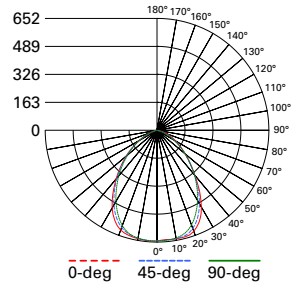
LENSED WALL WASH (LI)

Test Number	P571646
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LBLWWLI
Lumens	1246
Efficacy	78.9 Lm/W
SC	1.12
UGR	26.3

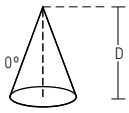


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	40.7	4.6	4.4
7'	13.3	8.2	7.8
9'	8	10.6	10
13'	3.8	15.4	14.4
16'	2.5	19	17.8

CANDELA TABLE

Degrees Vertical	Candela
0	650
5	644
15	647
25	591
35	439
45	278
55	174
65	99
75	42
85	3
90	0

ZONAL LUMEN SUMMARY

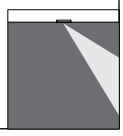
Zone	Lumens	% Fixture
0-30	499	40
0-40	766	61.5
0-60	1139	91.4
0-90	1246	100
90-180	0	0
0-180	1246	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	61806
45	48248
55	37226
65	28866
75	19936
85	4088

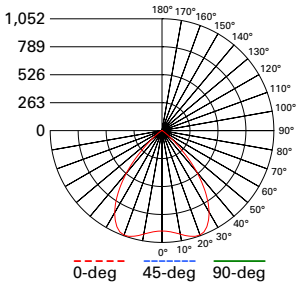
LENSED WALL WASH (H)

Test Number	P571647
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LBLWWH
Lumens	1196
Efficacy	75.7 Lm/W
SC	1.09
UGR	26.5

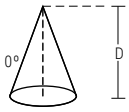


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	39.7	4.5	4.2
7'	13	8	7.6
9'	7.8	10.2	9.8
13'	3.8	14.8	14
16'	2.5	18.3	17.4

CANDELA TABLE

Degrees Vertical	Candela
0	635
5	639
15	639
25	586
35	441
45	280
55	174
65	100
75	43
85	4
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	471	39.4
0-40	724	60.5
0-60	1084	90.6
0-90	1196	100
90-180	0	0
0-180	1196	100

LUMINANCE

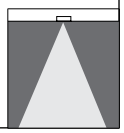
Average Candela Degrees	Average 0° Luminance
37	62135
45	48734
55	37269
65	29099
75	20268
85	5497

Photometric Data

View IES files

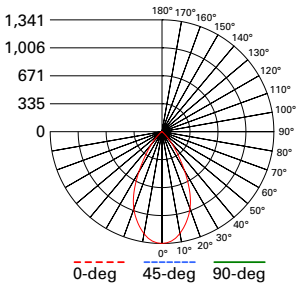
MEDIUM BEAM 45° CUTOFF 55° BEAM (H)

Test Number	P571648
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LBMDH
Lumens	1113
Efficacy	70.4 Lm/W
SC	0.86
UGR	9.5



CANDLEPOWER DISTRIBUTION

Downlight



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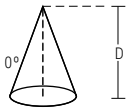


D	FC	L	W
4'	83.8	3.4	3.4
7'	27.4	6	6
9'	16.6	7.6	7.6
13'	7.9	11	11
16'	5.2	13.6	13.6

CANDELA TABLE

Degrees Vertical	Candela
0	1341
5	1318
15	1127
25	791
35	337
45	91
55	20
65	7
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

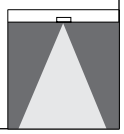
Zone	Lumens	% Fixture
0-30	793	71.3
0-40	1008	90.6
0-60	1103	99.1
0-90	1113	100
90-180	0	0
0-180	1113	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	41780
45	15758
55	4284
65	2064
75	1044
85	423

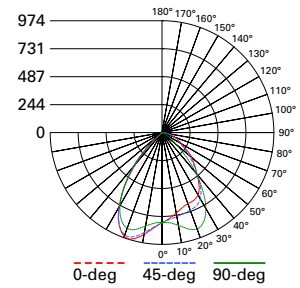
MEDIUM BEAM 45° CUTOFF 50° BEAM (LI)

Test Number	P571649
Housing	LD4C15D010
Module	EU4C10209035
Trim	4LBMDLI
Lumens	1294
Efficacy	81.9 Lm/W
SC	0.84
UGR	0.4

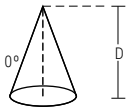


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	108.2	3.2	3.2
7'	35.3	5.6	5.6
9'	21.4	7.4	7.4
13'	10.2	10.6	10.6
16'	6.8	13.2	13.2

CANDELA TABLE

Degrees Vertical	Candela
0	1700
5	1751
15	1545
25	945
35	323
45	47
55	6
65	2
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1023	79.1
0-40	1243	96
0-60	1291	99.8
0-90	1294	100
90-180	0	0
0-180	1294	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	36556
45	8096
55	1199
65	640
75	285
85	0

Photometric Multipliers (Nominal Lumen Values)

250 Lumen	500 Lumen	800 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.22	0.42	0.57	0.65	1.00	1.29	1.62	1.90	2.25

4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen	6500 Lumen	7000 Lumen	7500 Lumen
2.61	3.02	3.42	3.82	4.13	4.32	4.54	5.34

Multipliers for relative lumen values with other series models.

CCT Multipliers – 90CRI

2400K	2700K	3000K	3500K	4000K	5000K
0.912	0.949	0.986	1	1.001	1.022

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers – 97CRI

2700K	3000K	3500K	4000K	5000K
0.889	0.955	1	1.016	1.07

Multipliers for relative lumen values with other series color temperatures.

Color Finish Multipliers (*from H = Semi Specular Clear*)

Finish code	LI	H	WMH	WH	GPH	B	MW
Finish	Specular Clear	Semi-Specular Clear	Warm Haze	Wheat	Graphite Haze	Specular Black	Matte White
Multiplier	1.25	1.00	1.02	1.02	0.72	0.55	0.95

Multipliers for relative lumen values with other color finishes.

Multi-line Order Information

Single line Ordering Information Option

SAMPLE ORDER NUMBER: **LD4C10D010TRIEM14 (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	**LD4C**=LED Downlight 4-inch Nominal Aperture **LD4CCP**=LED Downlight 4-inch Nominal Aperture, Chicago Plenum	**02**=250 lumens **05**=500 lumens **08**=800 lumens **10**=1000 lumens **15**=1500 lumens **20**=2000 lumens	**25**=2500 lumens **30**=3000 lumens **35**=3500 lumens **40**=4000 lumens **45**=4500 lumens [3] **50**=5000 lumens [3]	**55**=5500 lumens [3] **60**=6000 lumens [3] **65**=6500 lumens [3] **70**=7000 lumens [3] **75**=7500 lumens [3]

Driver	Driver Options
D010 = 0-10V Dimming, 1% to 100%, 120V-277V, up to 7000 lumens (up to 3000 lumens for remote driver) **1D010** = 0-10V or line voltage Dimming, 1% to 100%, 120V, 7500 lumens (3500 to 7000 lumens for remote driver) **2D010** = 0-10V Dimming, 1% to 100%, 277V, 7500 lumens (3500 to 7000 lumens for remote driver) **3D010** = 0-10V Dimming, 1% to 100%, 347V dedicated drivers for 800 to 4000 lumens; 250, 500, 4500 and above use step down transformer (250 to 7000 lumens for remote driver) **1 driver:** 250-7000 / **2 drivers:** 7500	**Blank**=Integral driver **R**=Remote driver (offered with single driver, order remote driver separately) [6] **PD**=Plug in Driver (offered with single driver) [8]
D010TR = 0-10V Dimming, 5% to 100%,120V-277V or 120V line voltage dimming, 250- 4500 lumens (up to 3000 lumens for remote driver) **1D010TR** = 0-10V or line voltage Dimming, 5% to 100%, 120V, 5000-7500 lumens (3500 to 4500 lumens for remote driver) **2D010TR** = 0-10V or line voltage Dimming, 5% to 100%, 277V, 5000-7500 lumens (3500 to 4500 lumens for remote driver) **3D010TR** = 0-10V Dimming, 5% to 100%, 347V step down transformer, 250-7500 lumens (250 to 4500 lumens for remote driver) **1 driver:** 250-4500 / **2 drivers:** 5000-7500	
DE010 = 0-10V Dimming, 0% to 100%, 120V-277V, 500-7000 lumens (up to 3000 lumens for remote driver) **1DE010** = 0-10V Dimming, 0% to 100%, 120V, 7500 lumens (3500 to 7000 lumens for remote driver) **2DE010** = 0-10V Dimming, 0% to 100%, 277V, 7500 lumens (3500 to 7000 lumens for remote driver) **3DE010** = 0-10V Dimming, 0% to 100%, 0-10V Dimming, 347V step down transformer, 500-7500 lumens (500 to 7000 lumens for remote driver) **1 driver:** 500-7000 / **2 drivers:** 7500	
D5LT = Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V-277V, 500-7000 lumens (up to 3000 lumens for remote driver) **1D5LT** = Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V, 7500 lumens (3500 to 7000 lumens for remote driver) **2D5LT** =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 277V, 7500 lumens (3500 to 7000 lumens for remote driver) **3D5LT** =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100% 347V step down transformer, 500-7500 lumens (500 to 7000 lumens for remote driver) **1 driver:** 500-7000 / **2 drivers:** 7500	
DMX=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, 800-4500 lumens (up to 3000 lumens for remote driver) [5] **1DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 5000-7500 lumens (3500 to 4500 lumens for remote driver) [5] **2DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 5000-7500 lumens (3500 to 4500 lumens for remote driver) [5] **3DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-7500 lumens, RJ45 Connection (800 to 4500 lumens for remote driver) [5] **1 driver:** 800-4500 / **2 drivers:** 5000-7500	
DMXC5=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, up to 800-4500 lumens, RJ45 Connection (up to 3000 lumens for remote driver) [5] **1DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 5000-7500 lumens, RJ45 Connection (3500 to 4500 lumens for remote driver) [5] **2DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 5000-7500 lumens, RJ45 Connection (3500 to 4500 lumens for remote driver) [5] **3DMXCF**=DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 250-7500 lumens, RJ45 Connection (800 to 4500 lumens for remote driver) [5] **1 driver:** 800-4500 / **2 drivers:** 5000-7500	
1DL2=Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only, 800-7500 lumens (800 to 3500 lumens for remote driver) **3DL2** = Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 347V step down transformer, 800-7500 lumens (800 to 3500 lumens for remote driver) **1 driver:** 800-3500 / **2 drivers:** 4000-7500	
DLE=Lutron Ecosystem dimming 1% to 100%, 120V-277V, 800-3500 lumens (up to 3000 lumens for remote driver) **1DLE**=Lutron Ecosystem dimming 1% to 100%, 120V, 4000-7500 lumens (3500 lumens for remote driver) **2DLE**=Lutron Ecosystem dimming 1% to 100%, 120V-277V, 4000-7500 lumens (3500 lumens for remote driver) **3DLE**=Lutron Ecosystem dimming 1% to 100%, 347V, step down transformer, 800-7500 lumens (800-3500 lumens for remote driver) **1 driver:** 800-3500 / **2 drivers:** 4000-7500	
DLV=Low voltage dimming driver (1-100%) for use with DLVP system 800-3000 lumens [6]	

Options [6]	
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 [10] **IEMBOD**=Bodine® 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] **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, tile mount and ceiling mount sensor) [11] [13] **WLST** =Factory installed WaveLinx Lite Sensor Kit [11] [12]

Continued on next page.

Multi-line Order Information

SAMPLE ORDER NUMBER: **EU4C10209035**

Domestic Preferences [1]	Power Module	Lumen Levels [2]	CRI [2]	Color	
[Blank]=Standard **BAA**=Buy American Act **TAA**=Trade Agreements Act	**EU4C**=4-inch Universal LED Module	**For use with one driver** **0208IC**=250, 500, 800 lumens, IC Rated (for use with all drivers, min 500 lumen with DE010 and D5LT, min 800 lumens with DLVP, Lutron and DMX) **1020**= 1000, 1500, 2000 lumens **1015IC**=1000, 1500 lumens IC Rated **2540**=2500, 3000, 3500, 4000 lumens (For use with Lutron 3000-3500, DLVP 3000 lumens, DMX, D010, D010TR, D5LT and DE010 3000-4000) **4560**=4500, 5000, 5500, 6000 lumens (For use with DMX and D010TR 4500 lumens, D010, D5LT and DE010 4500-6000) [3] **6570**=6500, 7000 lumens (For use with D010, D5LT and DE010) [3] **For use with two drivers** **4075**=4000, 4500, 5000, 5500, 6000, 6500, 7000, 7500 lumens (For use with Lutron 4000-7500, D010TR & DMX 5000, D010, D5LT & DE010 7500 lumen) [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

SAMPLE ORDER NUMBER: **4LBM2H**

Domestic Preferences [1]	Trim	Reflector		Flange	Finish	Options
[Blank]=Standard **BAA**=Buy American Act **TAA**=Trade Agreements Act [15]	**4LB**=4" LED	**N**=Narrow, Spun Aluminum [29] **M**=50° Cutoff, Medium Beam Reflector, Spun Aluminum **MD**=45° Cutoff, Medium Beam Reflector, Spun Aluminum **W**=Wide, Spun Aluminum **S**=Shallow, Spun Aluminum **HY**=Hyperbolic medium beam [29] **PS**=Non-Conductive Shallow, Injection Molded white [16] [17] **CS**=Cast Shallow, Die Cast Aluminum **BA**= Spun Aluminum Baffle [24]	**Wall Wash** **SWN**=Single wall wash, spun aluminum **DWN**=Double wall wash, spun aluminum **CW**=Corner wall wash, spun aluminum **LSWW**=Lensed single wall wash, spun aluminum **LDWW**=Lensed double wall wash, spun aluminum	**0**=White polymer trim ring **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 **MB**=Matte Black [21] **MMS**=Matte Metallic Silver [21]	**E**=Integral Emergency Test Switch Hole [22]

REQUIRED if Remote Driver (R) is specified

SAMPLE ORDER NUMBER: **RC10010D010TREM7**

Domestic Preferences [1]	Remote Drivers	Lumens [2] [14]		
[Blank]=Standard **BAA**=Buy American Act **TAA**=Trade Agreements Act	**RC100**=Remote 100ft **RC75**=Remote 75ft **RC50**=Remote 50ft **RC25**=Remote 25ft **RC15**=Remote 15ft **RC5**=Remote 5ft **RC2**=Remote 2ft	**02**=250 lumens **05**=500 lumens **08**=800 lumens **10**=1000 lumens **15**=1500 lumens	**20**=2000 lumens **25**=2500 lumens **30**=3000 lumens **35**=3500 lumens **40**=4000 lumens **45**=4500 lumens	**50**=5000 lumens **55**=5500 lumens **60**=6000 lumens **65**=6500 lumens **70**=7000 lumens

Continued on next page.

Multi-line Order Information

Driver
D010 = 0-10V Dimming, 1% to 100%, 120V-277V, 250-3000 lumens **1D010** = 0-10V Dimming, 1% to 100%, 120V, 3500-7000 lumens **2D010** = 0-10V Dimming, 1% to 100%, 277V, 3500-7000 lumens **3D010** = 0-10V Dimming, 1% to 100%, 347V dedicated drivers for 800 to 3000 lumens; 250, 500, 3500-7000 lumens use step down transformer
D010TR = 0-10V Dimming, 5% to 100%,120V-277V or 120V line voltage dimming, 120V-277V, 250- 3000 lumens **1D010TR** = 0-10V or line voltage Dimming, 5% to 100%, 120V, 3500-4500 lumens **2D010TR** = 0-10V Dimming, 5% to 100%, 277V, 3500-4500 lumens **3D010TR** = 0-10V or line voltage Dimming, 5% to 100% 347V step down transformer, 250-4500 lumens
DE010 = 0-10V Dimming, 0% to 100%, 120V-277V, 500-3000 lumens **1DE010** = 0-10V Dimming, 0% to 100%, 120V, 3500-7,000 lumens **2DE010** = 0-10V Dimming, 0% to 100%, 277V, 3500-7,000 lumens **3DE010** = 0-10V Dimming, 0% to 100%, 347V step down transformer, 500-7,000 lumens
D5LT = Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V-277V, 500-3000 lumens **1D5LT** = Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V, 3500-7,000 lumens **2D5LT** =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 277V, 3500-7,000 lumens **3D5LT** =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100% 347V step down transformer, 500-7,000 lumens
DMX = DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, 800-3000 lumens [5] **1DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 3500-4500 [5] **2DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 3500-4500 [5] **3DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-4500 [5]
DMXC5 = DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V up to 800-3000 lumens, RJ45 Connection [5] **1DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 3500-4500 lumens, RJ45 Connection [5] **2DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 3500-4500 lumens, RJ45 Connection [5] **3DMXCF**=DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-4500 lumens, RJ45 Connection [5]
1DL2=Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only, 25' Max remote length, 800-3500 lumens **3DL2** = Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 347V step down transformer, 25' Max remote length, 800-3500 lumens
DLE = Lutron Ecosystem dimming 1% to 100%, 120V-277V, 25' Max remote length, 800-3000 lumens **1DLE**=Lutron Ecosystem dimming 1% to 100%, 120V, 25' Max remote length, 3500 lumens **2DLE**=Lutron Ecosystem dimming 1% to 100%, 277V, 25' Max remote length, 3500 lumens **3DLE**=Lutron Ecosystem dimming 1% to 100%, 347V, step down transformer, 25' Max remote length, 800-3500 lumens
DLV = Low voltage dimming driver (1-100%) for use with DLVP system, 800-3000 lumens [6]

Options		Controls
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, tile mount and ceiling mount sensor) [11] [13] **WLST**=Factory installed WaveLinx Lite Sensor Kit [11] [12]

Accessories (*Order separately*) [25]		
TRM4P=White metal trim ring [26] **LGSKT4IP66**=IP66 Gasket Kit **DT4RF**=4 inch 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 [33] **Connected Lighting Systems** [6] [11] **WPST** = Field installed WaveLinx sensor Kit [13] **WLST** = Field installed WaveLinx Lite Sensor Kit [12] **Transformers** **H347**=H347 for 5500 lumens and below **H347200**=347 to 120V Step Down Transformer, 200VA	**Bar Hangers** **HB50**=C-channel Bar Hanger, 50" Long, Pair **RMB22**=Wood Joist Bar Hanger, 22" Long, Pair

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 narrow (N), medium (M) and wide (W) 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. Offered with

- D010, D5LT, DE010 up to 7000 lumens
- D010TR, DMX up to 4500 lumens
- DLE, DL2 up to 3500 lumens

9. Not available with 5500 lumens

10. Not available for 6500-7000 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 tile mount 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. IC rated up to 3000 lumens

15. Spun aluminum only

16. PS available in self-flanged MW finish only

17. Offered up to 2000 lumens

18. Flange is the same finish as the reflector

19. Requires knife edge accessory ring

20. Anodized or spun reflectors

21. Die cast only

22. Available with narrow (N), medium (M) and medium 45 degree (MD) Spun Aluminum trims. Required for use with all IEMBOD, IEM7, IEM14,IEMV7 and IEMV14 housings. Not offered with remote driver.

23. Offered with DLVP up to 3000 lumens.

24. Black or white paint.

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 die cast trim with flange type 4

28. Order with self flanged trim.

29. Use only with single LED/driver.

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 recommended for use with Wall Wash

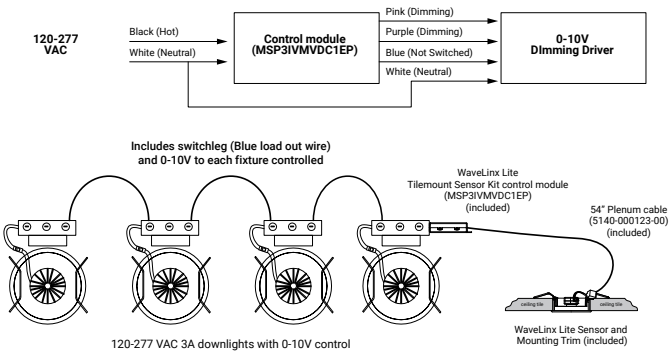
Connected Systems

WaveLinx Lite - WLST Tilemount Sensor

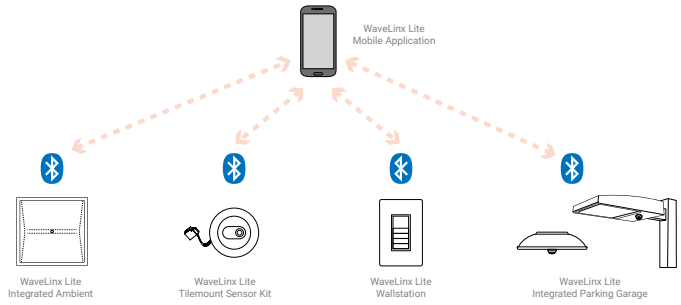
- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx Lite Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic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



WaveLinx Lite Bluetooth Enabled System



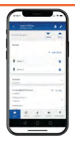
WaveLinx Wireless – WPST Tilemount Sensor

- 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 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

Wireless Area Controller
Provides centralized coordination of multiple area control options

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

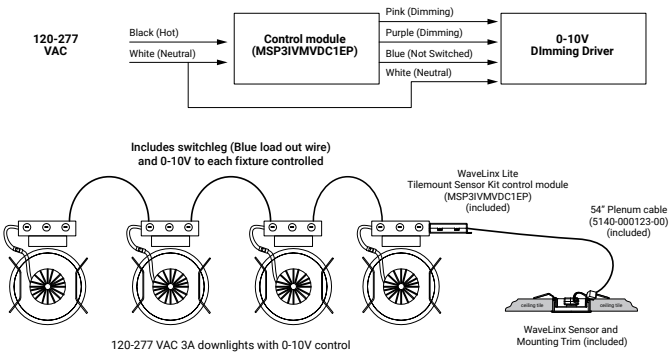


Mobile Applications
Provides personalized, local control from a tablet or smartphone

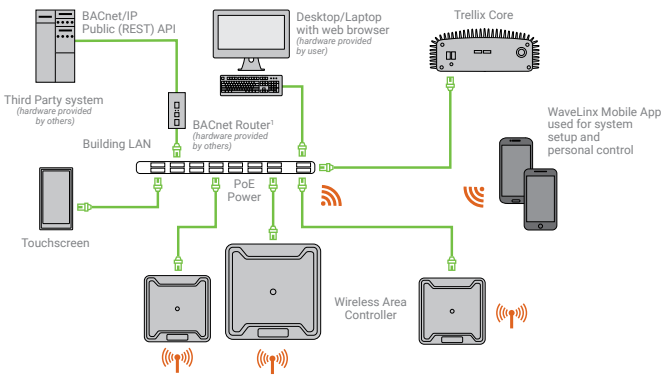
WaveLinx mobile app settings

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

WaveLinx Lite WPST Tilemount Wiring Diagram



WaveLinx Wireless Trellix Building Management Integration



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Specifications and dimensions subject to change without notice.