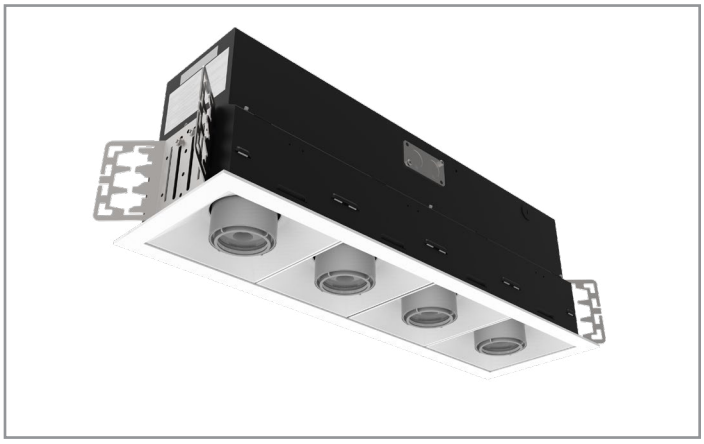
Project		Catalog #		Type	
Prepared by		Notes		Date	



Portfolio

LAM4B Recessed 1-2-3-4 Light Multi-head

LAM4B Recessed Multiples series of 1, 2, 3, or 4 multi-head

Typical Applications

Healthcare • Hospitality • Retail • Institutional • Indoor Display & Signage

Interactive Menu

Product Certification

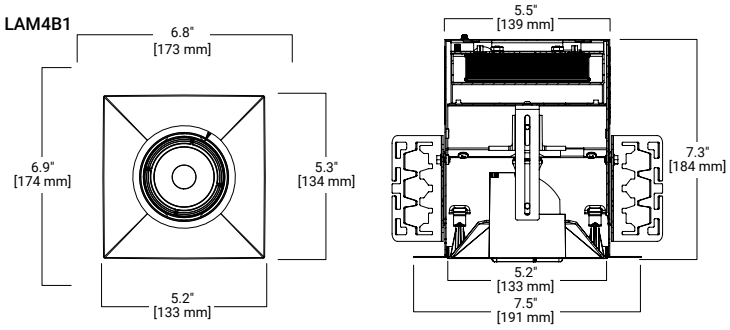
Control Compatibility

Product Features

Top Product Features

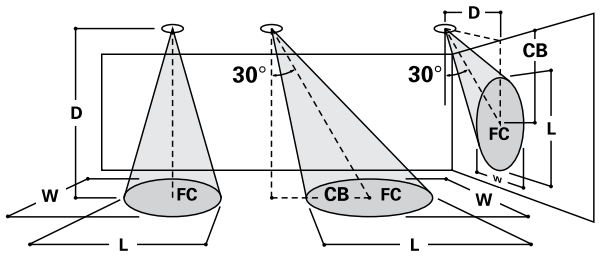
- 1, 2, 3, or 4 head adjustable telescoping multi-head recessed luminaire provides nominal 800 or 1200 lumens
- Interchangeable optics in 5° increments from 10° to 70°, and elliptical beams, 70° tilt, 355° rotation; media holder accepts two media
- 2400K, 2700K, 3000K, 3500K, 4000K and 5000K CCT options, in 90CRI
- Offered in new construction and install from below; accessory rimless mud-in field installation kit option
- Standard 120V-277V driver with 1% dimming; multitude of optional drivers
- Options to meet Trade Agreements Act requirements

Dimensional and Mounting Details



additional product diagrams

Directional Aiming



Note: 0-70° tilt from nadir, 30° illustrated.

D=Distance in feet to floor or wall.
FC=Footcandles on floor or wall at center beam aiming location.
L=Effective Visual Beam length in feet (50% of maximum footcandle level.)
W=Effective Visual Beam width in feet (50% of maximum footcandle level.)
CB=Distance in feet across or down to center beam location.

View Photometry

Order Information

SAMPLE ORDER NUMBER: **LAM4B108R309030DE0101MW**

Additional options and accessories are purchased separately.

Domestic Preferences [10]	New Construction Housing	Lumens	Optic	CRI	CCT	Voltage	Input / Control
[Blank]=Standard **TAA**=Trade Agreements Act	**LAM4B1**=4-inch adjustable 1 head multi **LAM4B2**=4-inch adjustable 2 head multi **LAM4B3**=4-inch adjustable 3 head multi **LAM4B4**=4-inch adjustable 4 head multi **LAMCP4B1**=4-inch adjustable 1 head multi Chicago Plenum **LAMCP4B2**=4-inch adjustable 2 head multi Chicago Plenum **LAMCP4B3**=4-inch adjustable 3 head multi Chicago Plenum **LAMCP4B4**=4-inch adjustable 4 head multi Chicago Plenum **LAMR4B1**=4-inch adjustable 1 head multi install from below **LAMR4B2**=4-inch adjustable 2 head multi install from below **LAMR4B3**=4-inch adjustable 3 head multi install from below **LAMR4B4**=4-inch adjustable 4 head multi install from below **LAMRCP4B1**=4-inch adjustable 1 head multi Chicago Plenum install from below **LAMRCP4B2**=4-inch adjustable 2 head multi Chicago Plenum install from below **LAMRCP4B3**=4-inch adjustable 3 head multi Chicago Plenum install from below **LAMRCP4B4**=4-inch adjustable 4 head multi Chicago Plenum install from below	**08**=800 lumens **12**=1200 lumens	**R10**=10° [1] **R15**=15° **R20**=20° **R25**=25° **R30**=30° **R35**=35° **R40**=40° **R45**=45° **R50**=50° **R55**=55° **R60**=60° **R65**=65° **R70**=70° **2R2040**=Elliptical 20° x 40° optic **2R2050**=Elliptical 20° x 50° optic **2R2060**=Elliptical 20° x 60° optic	**90**=90 CRI **97**=97 CRI	**24**=2400K **27**=2700K **30**=3000K **35**=3500K **40**=4000K **50**=5000K	**Blank**=120-277V **3**=347V	**D010TR**=0-10V or Line Voltage Dimming, 1% to 100%, 120V-277V **DE010**=0-10V Linear Dimming, 0% to 100%, 120V-277V **D5LT**=Fifth Light® (DALI) Logarithmic Dimming, 0% to 100%, 120V-277V **DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V **DLV**=Low voltage dimming driver (1-100%) for use with DLVP system

Drivers	Flange	Heads and baffle finish	Options
Blank=1 for 1 and 2 heads 2 for 3 and 4 head **M**=1 per head	**3**=for use with mud in accessory ring **2**=Matte white **1**=same as baffle	**MB**=matte black **MW**=matte white **MMS**=matte metallic silver	**EMBOD**=Bodine® Emergency Module with Remote Test Switch **IEMBOD**=Bodine® Emergency Module with Integral Test Switch **EM7**=7W Emergency Module with Remote Test Switch **EM14**=14W Emergency Module with Remote Test Switch **EMV7**=7W Low Voltage Emergency Module with Remote Test Switch **EMV14**=14W Low Voltage Emergency Module with Remote Test Switch **BOD7ST**=7.5 watt Bodine self-test diagnostic emergency module with remote test / indicator light, use with ED010 only [2] **WPST**=Factory installed WaveLinx PRO Sensor Kit [4] [5] **WLST**=Factory installed WaveLinx LITE Sensor Kit [4] [6] **WPN**=WaveLinx PRO Wireless Node without sensor [11] [13] **WLN**=WaveLinx LITE Wireless Node without Sensor (not compatible with Tuneable White) [12] [13]

Accessories [10]

RMB22=Adjustable wood joist mounting bars, pair, extend to 22"
HB26=C-Channel bar hanger, 26" long, pair

Optics
2R15SP=15°
2R20=20°
2R25NFL=25°
2R30=30°
2R35=35°
2R40FL=40°
2R45=45°
2R50=50°
2R55WFL=55°
2R60=60°
2R65=65°
2R70=70°
R2040=Elliptical 20° x 40°
2R2050=Elliptical 20° x 50°
2R2060=Elliptical 20° x 60°

Optical Lenses [3]
L110N=Diffuse Sand Blasted Lens
L111=Soft Focus Lens
L113=Prismatic Spread Lens
L115=Linear Spread Lens
L100MB=Expanded metal louver

2" 50mm UV and Color Filters [3]
L112=Red Gel Filter
L114=Ultraviolet, Dichoric Filter
L120=Red, Dichoric Filter
L121=Amber, Dichoric Filter
L122=Yellow, Dichoric Filter
L123=Green, Dichoric Filter
L124=Daylight Blue, Dichoric Filter
L125=Blue, Dichoric Filter
L127=Cosmetic (2700K), Dichoric Filter
L131=Amber, Gel Filter

Mud Ring Kits
1MRK=1-light multiple, flangeless mud ring field installation kit (new construction only)
2MRK=2-light multiple, flangeless mud ring field installation kit (new construction only)
3MRK=3-light multiple, flangeless mud ring field installation kit (new construction only)
4MRK=4-light multiple, flangeless mud ring field installation kit (new construction only)

Connected Lighting Systems [7]
WPST=Field installed WaveLinx sensor Kit [8]
WLST=Field installed WaveLinx Lite Sensor Kit [9]

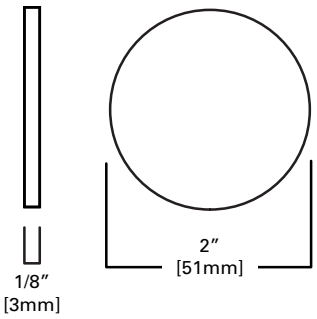
Notes
1. 800 lumen only, must be specified with housing
2. Not available with Chicago Plenum models
3. 2" nominal dia. [50mm]
4. Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory.
5. WPST=WaveLinx wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
6. WLST=WaveLinx Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx Lite system specifications)
7. Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory.
8. WPST=WaveLinx wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
9. WLST=WaveLinx Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx Lite system specifications)
10. Only product configurations with this designated prefix are built to be compliant with the Trade Agreements Act of 1979 (TAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
11. 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.
12. WLN=WaveLinx LITE wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with D010 or DE010 drivers only.
13. Not compatible with 347V or Chicago plenum.

L100 Series

2" 50mm UV and Color Filters

Make a powerful lighting statement by injecting soft or intense hues to accent any space.

L112=Red Gel Filter
L114=Ultraviolet, Dichoric Filter
L120=Red, Dichoric Filter
L121=Amber, Dichoric Filter
L122=Yellow, Dichoric Filter
L123=Green, Dichoric Filter
L124=Daylight Blue, Dichoric Filter
L125=Blue, Dichoric Filter
L127=Cosmetic (2700K), Dichoric Filter
L131=Amber, Gel Filter



L100 Series UV and Color Filters

L100 Series

Optical Lenses

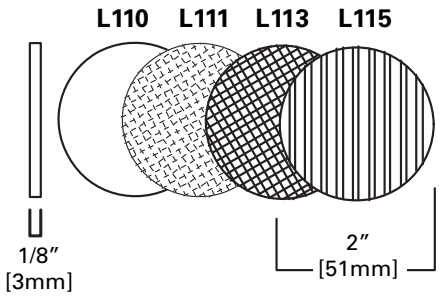
L110N=Diffuse Sandblasted Lens
Provides an even beam spread - especially useful in wall washing.

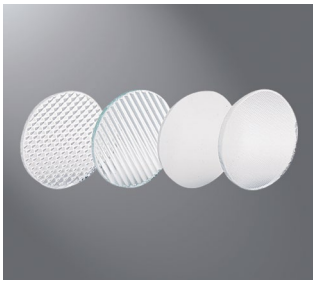
L111=Soft Focus Lens
Smooths irregular beam pattern while maintaining high controlled illumination levels and beam angles.

L113=Prismatic Spread Lens
Provides a symmetrical broadening of beams. Suitable when a wide, uniform light distribution is required.

L115=Linear Spread Lens
Fans out the beam 55° (27-1/2° to each side) to produce a wide rectangular pattern.

LHEX=Hex Cell
Miniature black finished hexagonal-cell louver - controls light spill while retaining lamp optics.





L100 Series Optical Lenses

Product Specifications

Housings
- New construction and install from below
- Die-formed steel painted matte black.

Housing Mounting
- New construction housing universal mounting bracket accepts 1/2" EMT, C-channel and bar hangers and adjusts 5" vertically from above and below the ceiling. Optional wood hanger bar kit available for field installation into wood framing
- Remodel housing speed clamps adjust to accommodate 3/8" to 2" thick ceilings. Combination hex, slot and Philips drive screws actuate clamps and speed installation. Clamps are accessible from below the ceiling. Remodel housing is designed for installation from below the finished ceiling only

Universal mounting bracket
- Accepts 1/2" Electrical Metallic Tube (EMT), C-Channel, t-bar fasteners and bar hangers
- Provides 5" total adjustment

Baffle and flange
- Seamless painted die cast offered in matte black, matte white and matte metallic silver
- Accepts 1/2" Electrical Metallic Tube (EMT), C-Channel, t-bar fasteners and bar hangers
- Removable baffle provides tool-less access to housing
- Removable flange trim offered in matte white or matte black.
- Accessory rimless plaster lathing ring offered for flush transition with new construction housing provides a seamless in new
- Flange is permanently attached to housing on remodel housings for secure fit to ceiling

Multi-heads
- Telescoping pull down adjustable with 70° tilt, 355° rotation
- Multi-heads designed for up to (2) industry standard 2-inch diameter [50mm] color or lens media
- Offered in nominal 800 lumens and 1200 lumens per head
- Heads can be controlled individually when ordered with individual drivers

Multi-head Optics
- Interchangeable silicone optics in elliptical and 5° increments from 10°-75° provide smooth beam without color separation
- Offered for field installation or replacement
- Media holders accepts two 2-inch lens media

LED
- Integral chip on board LED provides even distribution without pixilation
- Integral chip on board with proximity phosphors provides even distribution with high efficiency and no pixilation
- 90 and 97 CRI minimum, R9>50
- Color accuracy within 2 SDCM providing color uniformity
- Correlated color temperature options; 2400K, 2700K,3000K, 3500K, 4000K, and 5000K
- Passive thermal management achieves L70 at 50,000 hours

LED Driver
- Standard 120V-277VAC, 50/60Hz driver provides continuous flicker-free dimming to 1%. Consult dimming guide for reference, and dimmer manufacturer for details
- 347VAC 50/60Hz input option with 1% dimming on 0-10V dimmer controls (Canada only)
- Optional combination 0-10V trailing edge driver
- <1% 0-10V, Fifth Light (DALI or DMX)
- Driver can be serviced from above or through the aperture
- Heads can be controlled individually when ordered with individual drivers
- 1, 2, and 3 heads one driver standard, 4 head - 2 driver standard
- Distributed low voltage power system combines power, lighting, and controls with ease of installation.

Emergency Options
- Remote and integral emergency options include charge indicator and test switch
- Provides 90 minutes of standby lighting meeting most life safety codes for egress lighting

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.**

Junction box
- Integral electrical enclosure in upper section of housing with four ½" and two ¾" trade size pryouts 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 through wiring
- (2) 3/8" and (4) 1/2" trade size pry-outs (1 head)
  (2) 3/8" and (5) 1/2" trade size pry-outs (2 head)
  (2) 3/8" and (7) 1/2" trade size pry-outs (3 head)
  (2) 3/8" and (7) 1/2" trade size pry-outs (4 head)
- Voltage divider for 0-10V dimming wire connections

Compliance
- Thermally protected
- cULus Certified to UL 1598 / C22.2 No. 250.0 suitable for damp locations with downlight
- IP4X - Below finished ceiling
- Insulated ceiling (IC) rated, suitable for direct contact to air permeable insulation
- NEMA LSD57-2013
- Airtight per ASTM-E283-04
- EMI/RFI emissions per FCC 47CFR Part 15 Class B at 120VAC and Class A at 277VAC. CAN ICES-005(B)/NMB-005(B) at 120VAC. CAN ICES-005(A)/NMB-005(A) at 277VAC.
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- 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
- ENERGY STAR® certified, reference certified light fixtures database
- May be used to comply with State of California Title 24 non-residential code, as a dimmable LED luminaire

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

Energy Data

LAM4B Series 1-Multi-head	800 lm*	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.091	0.04
Input Power (W)	10.8	10.7
In-rush Current (A)	4.04	9.3
In-rush Duration (µs)	172	169
THDi (%)	16	13.7
PF (Nominal input 120-277VAC at 100% of rated output)	≥ 0.97	≥ 0.95
Minimum starting temperature -40°C (-40°F)**		
Sound Rating: Class A standards		

LAM4B Series 1-Multi-head	1200 lm*	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.127	0.058
Input Power (W)	15.2	14.9
In-rush Current (A)	6	13.2
In-rush Duration (µs)	178	93
THDi (%)	12.3	11.3
PF (Nominal input 120-277VAC at 100% of rated output)	≥ 0.98	≥ 0.93
Minimum starting temperature -40°C (-40°F)**		
Sound Rating: Class A standards		

LAM4B Series 2-Multi-head	800 lm*	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.178	0.078
Input Power (W)	21.2	20.8
In-rush Current (A)	5.6	13.8
In-rush Duration (ms)	180	185
THDi (%)	9.5	6.1
PF (Nominal input 120-277VAC at 100% of rated output)	≥ 0.99	≥ 0.96
Minimum starting temperature -40°C (-40°F)**		
Sound Rating: Class A standards		

LAM4B Series 2-Multi-head	1200 lm*	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.238	0.104
Input Power (W)	28.3	27.7
In-rush Current (A)	6.3	14.2
In-rush Duration (ms)	168	101
THDi (%)	9.9	10.2
PF (Nominal input 120-277VAC at 100% of rated output)	≥ 0.98	≥ 0.95
Minimum starting temperature -40°C (-40°F)**		
Sound Rating: Class A standards		

LAM4B Series 3-Multi-head	800 lm*	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.271	0.119
Input Power (W)	32.2	31.8
In-rush Current (A)	9.4	20.4
In-rush Duration (ms)	176	181
THDi (%)	10.7	7.6
PF (Nominal input 120-277VAC at 100% of rated output)	≥ 0.98	≥ 0.96
Minimum starting temperature -40°C (-40°F)**		
Sound Rating: Class A standards		

LAM4B Series 3-Multi-head	1200 lm*	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.357	0.157
Input Power (W)	42.3	41.02
In-rush Current (A)	6.9	15
In-rush Duration (ms)	171	111
THDi (%)	10.7	9.2
PF (Nominal input 120-277VAC at 100% of rated output)	≥ 0.98	≥ 0.94
Minimum starting temperature -40°C (-40°F)**		
Sound Rating: Class A standards		

LAM4B Series 4-Multi-head	800 lm*	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.35	0.156
Input Power (W)	42.1	41.5
In-rush Current (A)	11.6	22.6
In-rush Duration (ms)	173	172
THDi (%)	9	6
PF (Nominal input 120-277VAC at 100% of rated output)	≥ 0.99	≥ 0.96
Minimum starting temperature -40°C (-40°F)**		
Sound Rating: Class A standards		

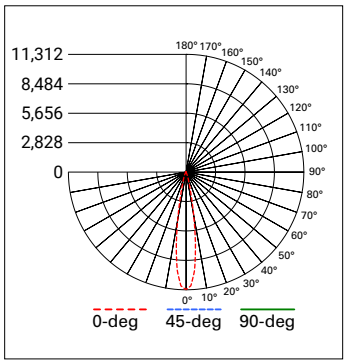
LAM4B Series 4-Multi-head	1200 lm*	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.47	0.207
Input Power (W)	56.1	54.8
In-rush Current (A)	12.1	25.1
In-rush Duration (ms)	212	69
THDi (%)	10.5	8.9
PF (Nominal input 120-277VAC at 100% of rated output)	≥ 0.988	≥ 0.95
Minimum starting temperature -40°C (-40°F)**		
Sound Rating: Class A standards		

Notes:
***** Nominal lumen value per head, field results may vary.
****** Emergency Battery packs are rated for a minimum starting temperature of 0°C.

View IES files

Photometric Data

HCM-1-Head @3500K, 90 CRI, Spot (15˚)	
Filename	LAM4B112R159035DE010x1MW.ies
Test No.	P429777
Lumcat	LAM4B112R159035DE010x1MW
Lumens	1274 Lm
Watts	14.3 W
LPW	89.1 Lm/W
CCT	3500K
SC (0/90/45)	0.3 / 0.3 / 0.29
Beam Angle	15°
UGR	10



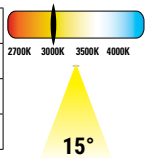
ZONAL LUMENS SUMMARY		
Zone	Lumens	% Fixture
0-30	1264	99.2
0-40	1274	100
0-60	1274	100
0-90	1274	100
90-180	0	0
0-180	1274	100

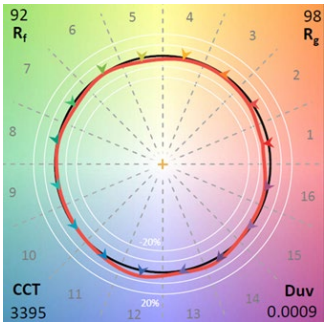
LUMINANCE DATA (CD/M²)			
Angle	0º	45º	90º
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

CANDELA TABLE	
Degrees Vertical	Candela
0	11312
5	9510
15	1321
25	166
35	10
45	0
55	0
65	0
75	0
85	0
90	0

COLOR METRIC SUMMARY

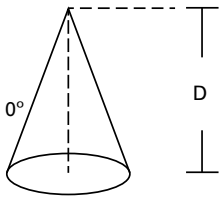
TM-30-15	Rf=92
	Rg=98
CRI/CIE	Ra=93.67
	R9=58.8





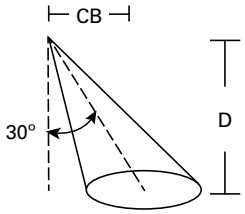
CONE OF LIGHT

0˚ AIMING ANGLE HORIZONTAL ILLUMINANCE ON FLOOR



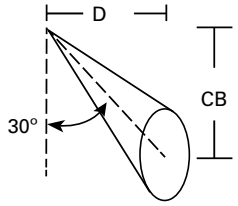
D	FC	L	W
5.5'	373.9	1.6	1.6
7'	230.9	2	2
8'	176.7	2.4	2.4
9'	139.7	2.6	2.6
10'	113.1	3	3
12'	78.6	3.6	3.6

30˚ AIMING ANGLE HORIZONTAL ILLUMINANCE ON FLOOR



D	FC	L	W	CB
5.5'	252.7	2	1.8	3.2
7'	156	2.6	2.2	4
8'	119.5	3	2.6	4.6
9'	94.4	3.3	3	5.2
10'	76.4	3.8	3.4	5.8
12'	53.1	4.4	4	6.9

30˚ AIMING ANGLE VERTICAL ILLUMINANCE ON WALL



D	FC	L	W	CB
1'	1794.6	0.8	0.4	1.7
2'	448.7	1.7	1	3.5
3'	199.4	2.6	1.4	5.2
4'	112.2	3.4	2	6.9
5'	71.8	4.4	2.6	8.7
6'	49.9	5.3	3	10.4

CCT Multipliers – 90CRI

2700K	3000K	3500K	4000K
0.88	0.93	1.00	1.01

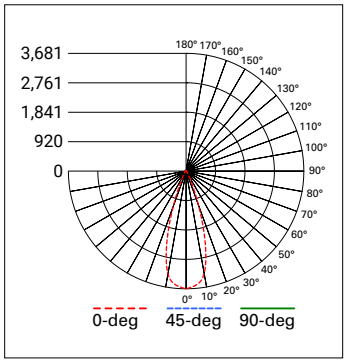
Multipliers for nominal values with other series models

D=Distance in feet to floor or wall.
FC=Footcandles on floor or wall at center beam aiming location.
L=Effective Visual Beam length in feet (50% of maximum footcandle level.)
W=Effective Visual Beam width in feet (50% of maximum footcandle level.)
CB=Distance in feet across or down to center beam location.

View IES files

Photometric Data

HCM-1-Head @3500K, 90 CRI, Narrow Flood (35˚)	
Filename	LAM4B112R359035DE010x1MW.ies
Test No.	P429873
Lumcat	LAM4B112R359035DE010x1MW
Lumens	1269 Lm
Watts	14.3 W
LPW	88.8 Lm/W
CCT	3500K
SC (0/90/45)	0.57 / 0.57 / 0.51
Beam Angle	35°
UGR	10



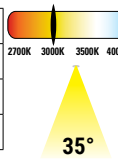
ZONAL LUMENS SUMMARY		
Zone	Lumens	% Fixture
0-30	1153	90.9
0-40	1212	95.5
0-60	1252	98.7
0-90	1269	100
90-180	0	0
0-180	1269	100

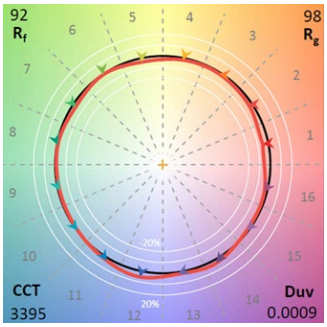
LUMINANCE DATA (CD/M²)			
Angle	0º	45º	90º
45	22049	22049	22049
55	14107	14107	14107
65	11791	11791	11791
75	9722	9722	9722
85	7359	7359	7359

CANDELA TABLE	
Degrees Vertical	Candela
0	3681
5	3582
15	2310
25	393
35	87
45	32
55	16
65	10
75	5
85	1
90	0

COLOR METRIC SUMMARY

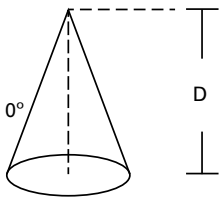
TM-30-15	Rf=92
	Rg=98
CRI/CIE	Ra=93.67
	R9=58.8





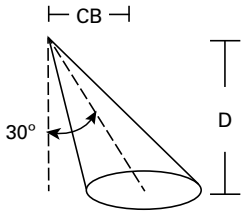
CONE OF LIGHT

0˚ AIMING ANGLE HORIZONTAL ILLUMINANCE ON FLOOR



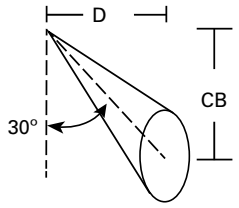
D	FC	L	W
5.5'	121.7	3	3
7'	75.1	4	4
8'	57.5	4.4	4.4
9'	45.4	5	5
10'	36.8	5.6	5.6
12'	25.6	6.8	6.8

30˚ AIMING ANGLE HORIZONTAL ILLUMINANCE ON FLOOR



D	FC	L	W	CB
5.5'	90.8	3.5	3.2	3.2
7'	56.1	4.5	4.2	4
8'	42.9	5.1	4.8	4.6
9'	33.9	5.8	5.4	5.2
10'	27.5	6.5	6	5.8
12'	19.1	7.8	7.4	6.9

30˚ AIMING ANGLE VERTICAL ILLUMINANCE ON WALL



D	FC	L	W	CB
1'	884.4	0.8	0.8	1.7
2'	221.1	1.8	1.6	3.5
3'	98.3	2.7	2.4	5.2
4'	55.3	3.7	3.2	6.9
5'	35.4	4.7	4	8.7
6'	24.6	5.6	4.8	10.4

D=Distance in feet to floor or wall.
FC=Footcandles on floor or wall at center beam aiming location.
L=Effective Visual Beam length in feet (50% of maximum footcandle level.)
W=Effective Visual Beam width in feet (50% of maximum footcandle level.)
CB=Distance in feet across or down to center beam location.

CCT Multipliers – 90CRI

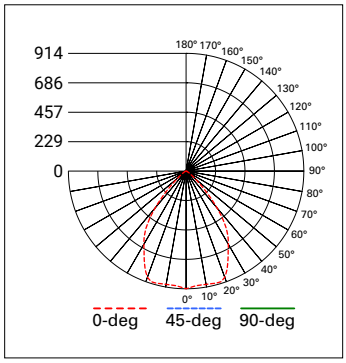
2700K	3000K	3500K	4000K
0.88	0.93	1.00	1.01

Multipliers for nominal values with other series models

View IES files

Photometric Data

HCM-1-Head @3500K, 90 CRI, Flood (70˚)	
Filename	LAM4B112R709035DE010x1MW.ies
Test No.	P430041
Lumcat	LAM4B112R709035DE010x1MW
Lumens	1244 Lm
Watts	14.3 W
LPW	87 Lm/W
CCT	3500K
SC (0/90/45)	1.1 / 1.1 / 1.09
Beam Angle	70°
UGR	10



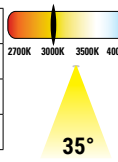
ZONAL LUMENS SUMMARY		
Zone	Lumens	% Fixture
0-30	692	55.6
0-40	1024	82.3
0-60	1224	98.4
0-90	1244	100
90-180	0	0
0-180	1244	100

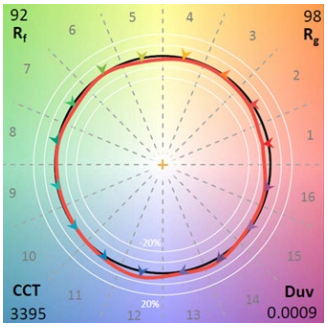
LUMINANCE DATA (CD/M²)			
Angle	0º	45º	90º
45	135432	135432	135432
55	37332	37332	37332
65	14943	14943	14943
75	9722	9722	9722
85	7359	7359	7359

CANDELA TABLE	
Degrees Vertical	Candela
0	914
5	894
15	902
25	769
35	545
45	194
55	43
65	13
75	5
85	1
90	0

COLOR METRIC SUMMARY

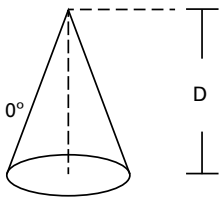
TM-30-15	Rf=92
	Rg=98
CRI/CIE	Ra=93.67
	R9=58.8





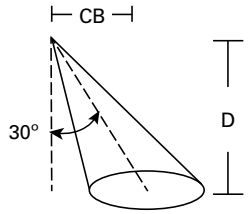
CONE OF LIGHT

0˚ AIMING ANGLE HORIZONTAL ILLUMINANCE ON FLOOR



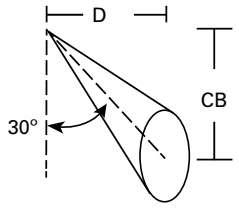
D	FC	L	W
5.5'	30.2	6	6
7'	18.7	7.6	7.6
8'	14.3	8.8	8.8
9'	11.3	9.8	9.8
10'	9.1	11	11
12'	6.4	13.2	13.2

30˚ AIMING ANGLE HORIZONTAL ILLUMINANCE ON FLOOR



D	FC	L	W	CB
5.5'	27.7	5.2	5.6	3.2
7'	17.1	6.6	7.2	4
8'	13.1	7.5	8.2	4.6
9'	10.4	8.5	9.4	5.2
10'	8.4	9.4	10.4	5.8
12'	5.8	11.4	12.4	6.9

30˚ AIMING ANGLE VERTICAL ILLUMINANCE ON WALL



D	FC	L	W	CB
1'	426.3	0.9	1.2	1.7
2'	106.6	1.9	2.4	3.5
3'	47.4	2.8	3.6	5.2
4'	26.6	3.8	4.8	6.9
5'	17.1	4.8	6	8.7
6'	11.8	5.7	7.2	10.4

CCT Multipliers – 90CRI

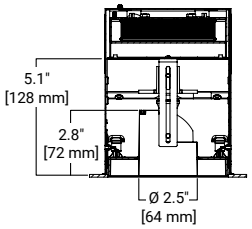
2700K	3000K	3500K	4000K
0.88	0.93	1.00	1.01

Multipliers for nominal values with other series models

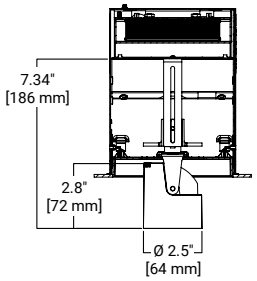
D=Distance in feet to floor or wall.
FC=Footcandles on floor or wall at center beam aiming location.
L=Effective Visual Beam length in feet (50% of maximum footcandle level.)
W=Effective Visual Beam width in feet (50% of maximum footcandle level.)
CB=Distance in feet across or down to center beam location.

Dimensional Details

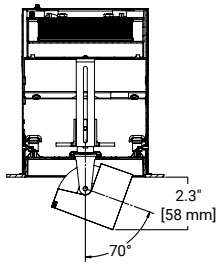
HEAD IN REGRESSED POSITION



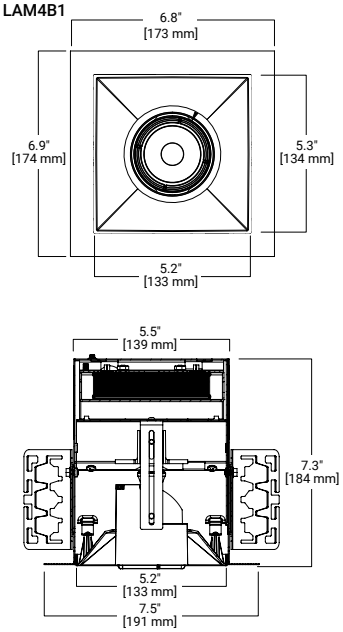
HEAD IN PULL-DOWN



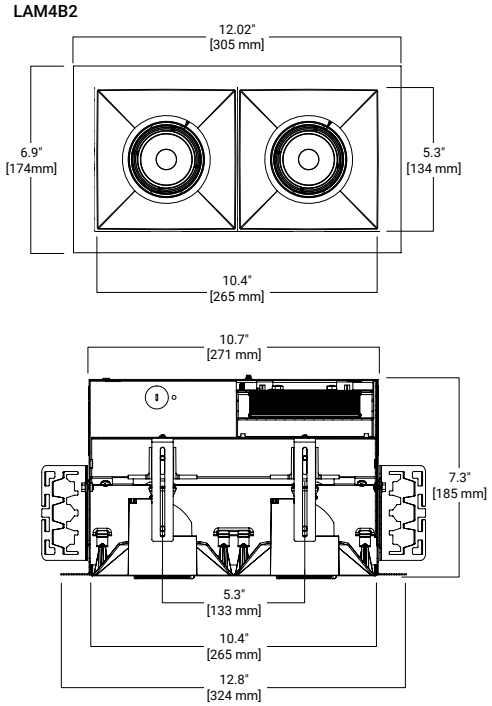
HEAD IN PULL-DOWN WITH MAX. TILT



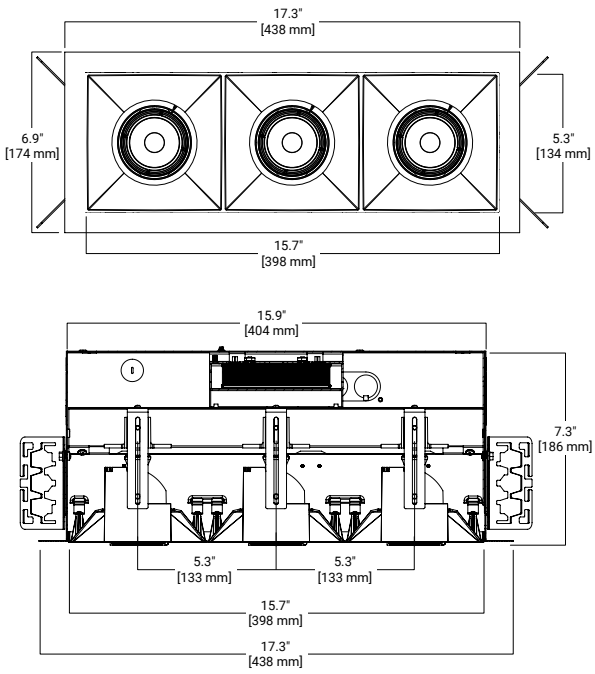
LAM4B1



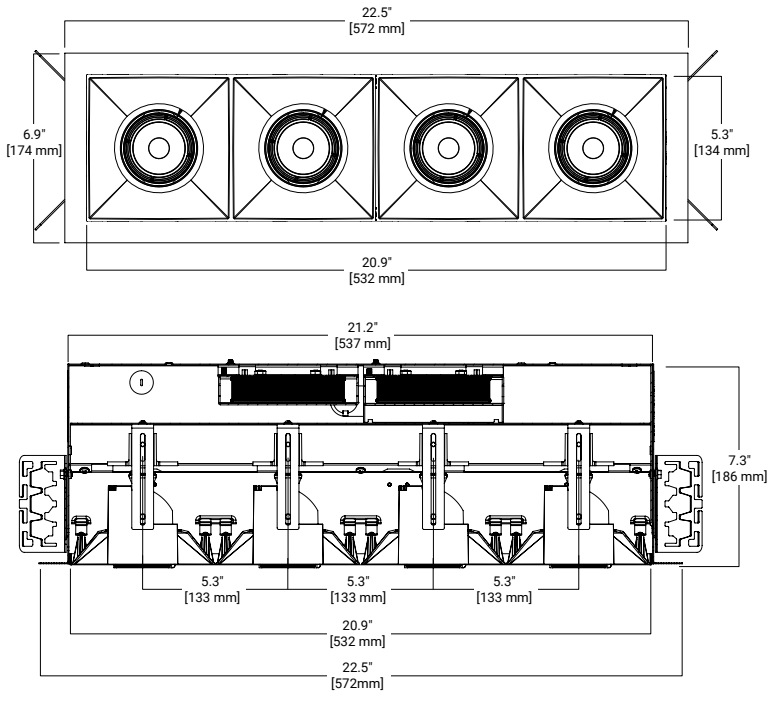
LAM4B2



LAM4B3

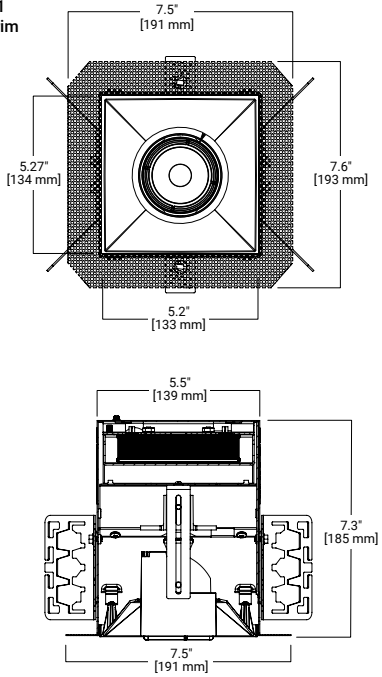


LAM4B4

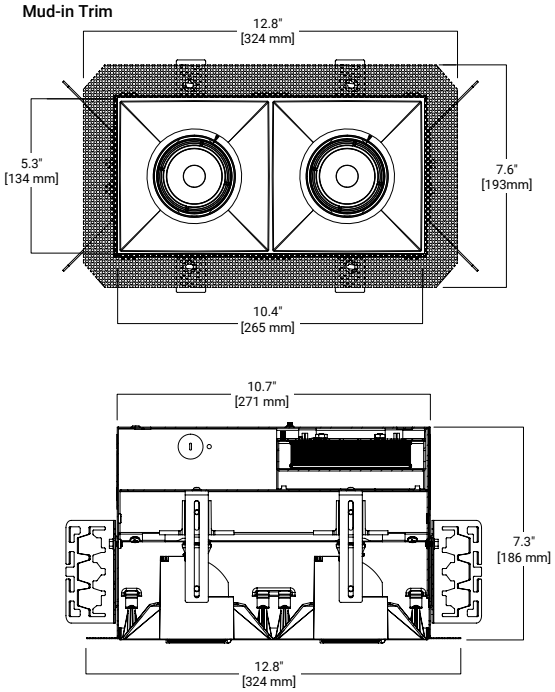


Dimensional Details

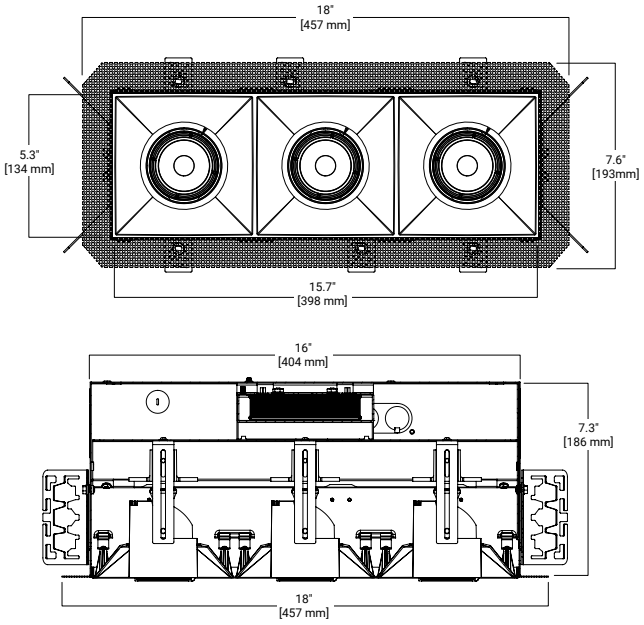
LAM4B1
Mud-in Trim



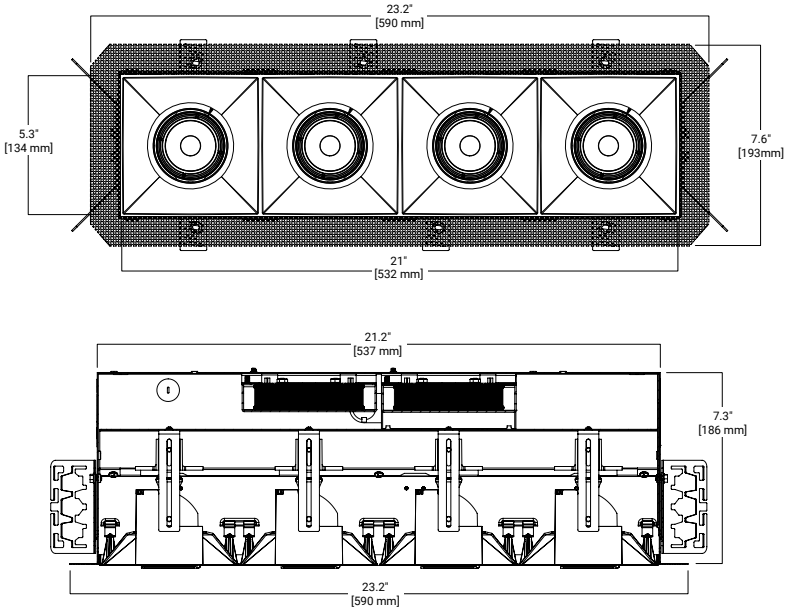
LAM4B2
Mud-in Trim



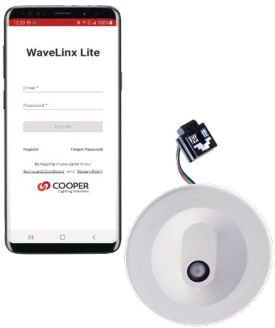
LAM4B3
Mud-in Trim



LAM4B4
Mud-in Trim



Connected Systems



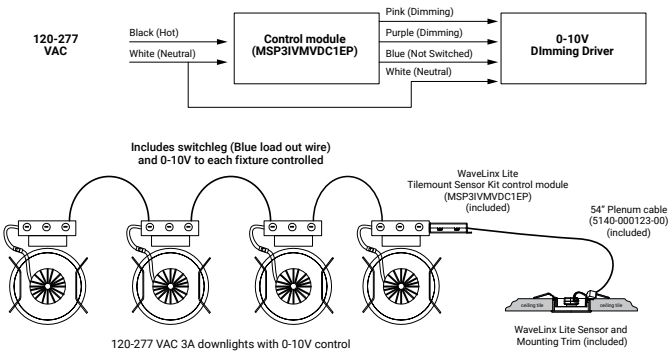
WaveLinx LITE - WLST Tilemount Sensor

WaveLinx LITE devices only compatible with the WaveLinx LITE system.

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

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

WaveLinx LITE WLST Tilemount Wiring Diagram



WaveLinx LITE Bluetooth Enabled System

WaveLinx PRO Wireless – WPST Tilemount Sensor

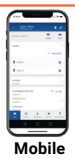
WaveLinx PRO devices only compatible with the WaveLinx PRO system.

- 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

Downlights with tilemount sensor wireless communication
Highly efficient LED fixtures

WaveLinx Area Controller
Provides centralized coordination of multiple area control options

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

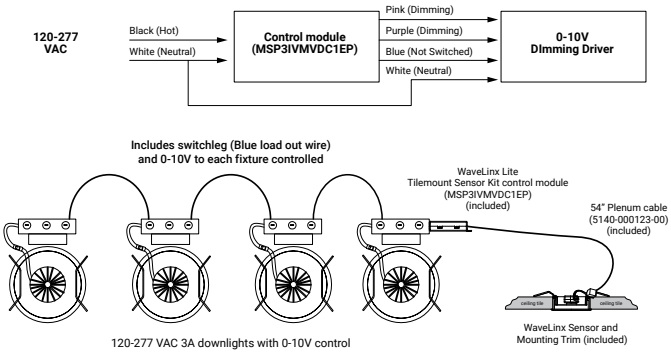


Mobile Applications
Provides personalized, local control from a tablet or smartphone

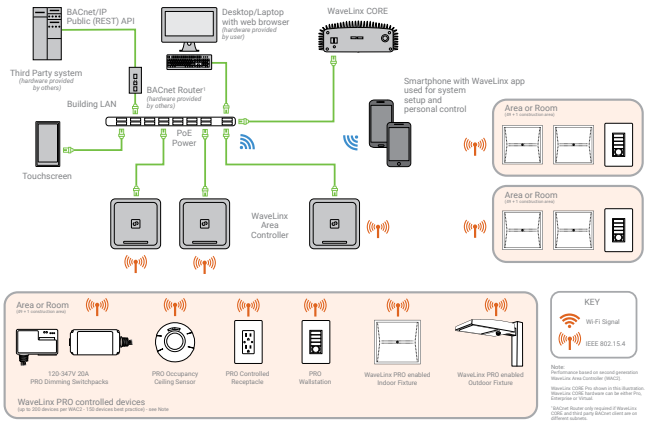
WaveLinx mobile app settings

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

WaveLinx PRO WPST Tilemount Wiring Diagram



WaveLinx CORE Building Management Integration



Connected Solutions

WaveLinx LITE Wireless Node - WLN

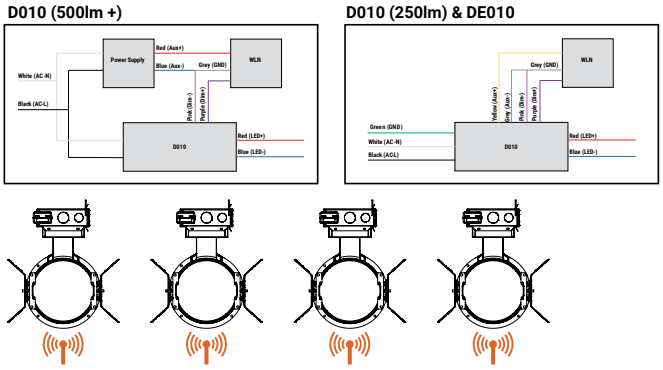
WaveLinx LITE devices only compatible with the WaveLinx LITE system.

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

WaveLinx mobile app settings

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

WaveLinx LITE Wireless Node (WLN) Wiring Diagram



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

WaveLinx LITE Bluetooth Enabled System

WaveLinx PRO Wireless Node - WPN

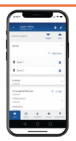
WaveLinx PRO devices only compatible with the WaveLinx PRO system.

- 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

Downlights with wireless communication
Highly efficient LED fixtures

WaveLinx Area Controller
Provides centralized coordination of multiple area control options

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

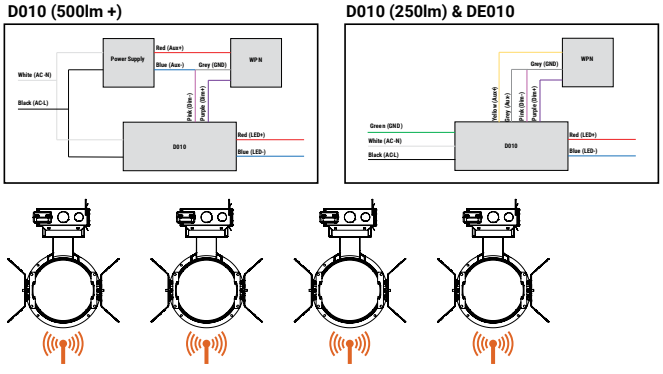


Mobile Applications
Provides personalized, local control from a tablet or smartphone

WaveLinx mobile app settings

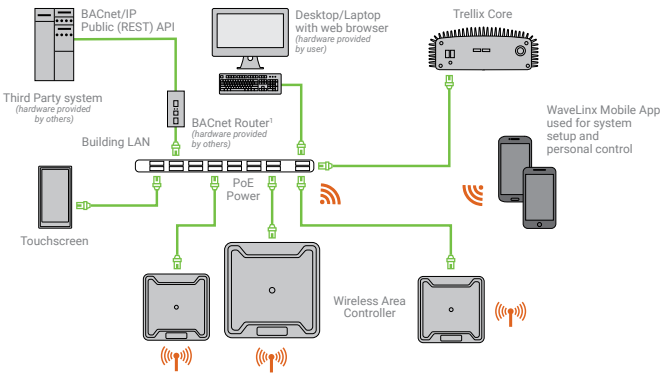
Manual Dimmer · Occupancy Sensor · Lumen Maintenance Control · Daylighting Control · Receptacle Control · Tuning Control · Scheduling · Manually Switched ON/OFF · Demand Response

WaveLinx PRO Wireless Node (WPN) Wiring Diagram



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

WaveLinx CORE Building Management Integration



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