Project		Catalog #		Type	
Prepared by		**Notes**		**Date**	
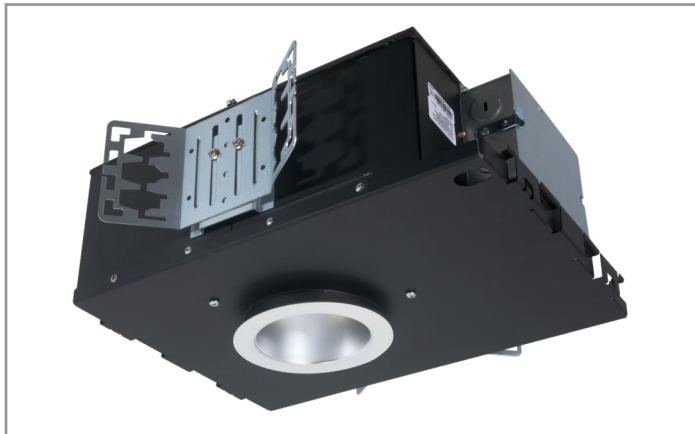
Portfolio

LDA3B

3-1/2" Adjustable/slope downlight

Typical Applications

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

Interactive Menu

Product Certification*

ENERGY STAR

Efficiency Standards **T24** Can be used to comply with Title 24 Part 6 LED Enclosed Light Source Requirements (JA8)

RoHS COMPLIANT

UL CERTIFIED

wet location

Control Compatibility

WaveLinx LITE

WaveLinx PRO

Product Features

D2W™

powered by fifthlight technology

Showerlight

CHICAGO PLENUM APPROVED

Top Product Features

- Available in 250 to 2,300 lumens; Insulated Ceiling (IC) rated
- Offered in 90 and 97 CRI; Locking 365° rotation and 45° tilt holds any aiming position
- Interchangeable optics in asymmetric and 5° increments from 10°-70°; Media holder accepts two lens media
- 2400K, 2700K, 3000K, 3500K, 4000K, 5000K; D2W™ option from 3000K to 1850K
- W2N tunable white CCT range 2700K to 6500K or 2000K to 5000K

Dimensional and Mounting Details

2 X 6 CONFIGURATION

For 250-1300 lumens

5.91" [150 mm]

3.42" [87 mm]

4.375" [111 mm]

5.13" [130 mm]

14.27" [363 mm]

14.84" [377 mm]
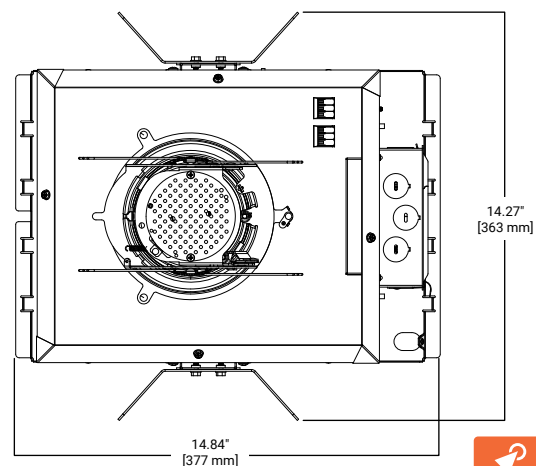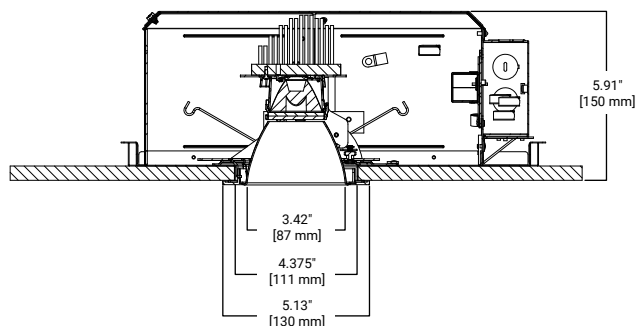
additional product diagrams

COOPER Lighting Solutions

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Order Information

SAMPLE ORDER NUMBER: **LDA3B10R309030D010-E3AACKH**

Housing	Lumen [1]	Distribution	CRI	Color	Voltage
LDA3B = New construction 3-inch adjustable **LDA3BCP** = Chicago Plenum new construction 3-inch adjustable	**02** = 250 lumens[10] **07** = 700 lumens **10** = 1000 lumens **13** = 1300 lumens **18** = 1800 lumens **23** = 2300 lumens[2] **2R2040** = Elliptical 20° x 40° **2R2050** = Elliptical 20° x 50° **2R2060** = Elliptical 20° x 60°	**R10** = 10°[3] **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 **Blank** = no optic order separately	**90** = 90 CRI **97** = 97 CRI[4]	**24** = 2400K **27** = 2700K **30** = 3000K **35** = 3500K **40** = 4000K **50** = 5000K **9030D2W** = dim to warm[15] **W2N902050** = 2000K-5000K[5] [8] **W2N902765** = 2700K-6500K[5] [8]	**Blank** = 120-277V **3** = 347V[6]

Driver	Options[8]
D010=0-10V 1% Dimming, 120-277V **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 DT6 Logarithmic Dimming, 0% to 100%, 120V-277V **DMX** =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V [7] [8] **DMXC5** =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, with RJ45 connection [7] [8] **DLE**=Lutron Ecosystem dimming 1% to 100%, 120V-277V [18] **DLV**=Low voltage dimming driver (1-100%) for use with DLVP system[8]	**EMBOD** = Bodine® Emergency Module with Remote 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 **WPST** = Factory installed Wavelinx PRO Sensor Kit[9] [14] [17] **WLST** = Factory installed WaveLinx LITE Sensor Kit[9] [16] [17] **WPN** = WaveLinx PRO Wireless Node without sensor [8] [20] [22] **WLN** = WaveLinx LITE Wireless Node without sensor (not compatible with Tuneable White) [8] [21] [22]

Reflector	Finish		Trim Ring
E3AA = 3.5" Aperture open angle cut **E3AA20** = 3.5" Aperture open 20° angle cut **E3SLOT** = 3.5" Aperture open 20° slot cut **E3AASR** = 3.5" Aperture lensed angle cut **E3MR** = 3.5" Aperture open downlight **E3SR** = 3.5" Aperture lensed downlight **E3LWW** = 3.5" Aperture lensed wall wash	**C** = Specular Clear **H** = Semi-specular clear **G** = Gold **WMH** = Warm haze **WH** = Wheat **WHH** = Wheat haze **GP** = Graphite	**GPH** = Graphite haze **K** = Cognac **KH** = Cognac haze **CC** = Chocolate **CCH** = Chocolate haze **B** = Black **Painted Finish** **MW** = Matte White **W** = Gloss white	**Blank** = Matte white metal trim ring **SF** = Self flanged [12] **SFWF** = Self flanged painted white [12]

Pinhole	Flange Style and Finish
E3AASRPIN = 1.75" Aperture lensed pinhole **E3PINL** = 1.5" Aperture lensed pinhole with black oculus **E3OVAL** = 2" oval	**Blank** = Matte white die-cast flange **W** = Matte white aluminum die-cast flange with white oculus [13]

🚀 **Reflector Finishes**

Accessories	Media		Optic	
Bar Hangers **HB26** = C-channel Bar Hanger, 26" Long, Pair **HB50** = C-channel Bar Hanger, 50" Long, Pair **RMB22** = Wood Joist Bar Hanger, 22" Long, Pair **FMC3** = Flush Mount Collar Accessory [19] **PLE3** = Plaster Lip Extender for Up to 2" Thick Ceilings **Connected Lighting Systems** [9] **WPST** = Field installed WaveLinx sensor Kit[14] **WLST** = Field installed WaveLinx Lite Sensor Kit[16]	**L100 lenses - optical lenses** **L110N** = Diffuse Sandblasted Lens **L111** = Soft Focus Lens **L113** = Prismatic Spread Lens **L115** = Linear Spread Lens **L100MB** = Hex cell louver	**L100 lenses - color filters** **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	**2R15SP** = 15° **2R20** = 20° **2R25NFL** = 25° **2R30** = 30° **2R35** = 35° **2R40FL** = 40° **2R45** = 45°	**2R50** = 50° **2R55FL** = 55° **2R60** = 60° **2R65** = 65° **2R70** = 70° **2R2040** = Elliptical 20° x 40° **2R2050** = Elliptical 20° x 50° **2R2060** = Elliptical 20° x 60°

Notes:
1. Nominal lumens will vary depending on selected color, driver and reflector finish.
2. Non-IC
3. Offered up to 1000 lumens, must be specified with housing
4. 97CRI for 2700 and 3000K
5. Choose D5LT or DE010 driver, limited to 1000 lumens
6. 347V with D010 driver
7. DMX fixtures default to full on upon loss of DMX signal.
8. Requires above ceiling access.

9. Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory.
10. D010TR only
13. E3PINL only.
14. WPST = WaveLinx wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
15. Limited to 1000 and 1300 lumens
16. WLST = WaveLinx LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx LITE system specifications)
17. Not available with Chicago Plenum or IC rating.

18. For 1000 lumens and above.
19. Not for use with self flanged reflectors
20. WPN = WaveLinx PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only.
21. 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.
22. Not compatible with 347V or Chicago plenum.

Reflector Finishes

C — Specular Clear
H — Semi-Specular Clear
G — Gold
WMH — Warm Haze
WH — Wheat

WHH — Wheat Haze
GP — Graphite
GPH — Graphite Haze
K — Cognac
KH — Cognac Haze

CC — Chocolate
CCH — Chocolate Haze
B — Black

Painted Finishes

MW — Matte White
W — Gloss White

Flanges

[blank] — Standard Flange
SF — Self Flanged

SFWF — Self Flange White
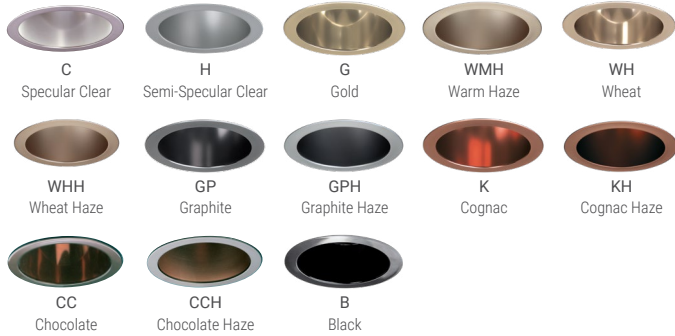
Product Specifications

Lower Shielding Reflector
- Open or lensed, low brightness 3-1/2" aperture, spun 0.04 high purity aluminum angle cut or slot cut, for flat or sloped ceilings
- Lensed wall wash with neutral color linear glass lens provides smooth vertical illumination with minimal downlight
- Open or lensed, low brightness 3-1/2" aperture, spun 0.04 high purity downlight reflector providing 50° source and source image cutoff
- Open or lensed die cast round or oval pinhole with angle cut upper reflector
- Pinhole includes black oculus to control glare
- Available in all Portfolio Alzak® finishes
- Metal trim ring can be removed for painting
- Plaster lathing ring accessory offered for flush reflector transition

Trim Retention
- Retained with two torsion springs holding the flange tightly to the finished ceiling

Housing
- Steel housing painted matte black to eliminate stray light
- Top accessible
- Ships with overspray protector installed
- Collar designed for 1-inch ceiling thickness.
- PLE3 plaster lip extender available for up to 2-inch ceiling thickness

Adjustment Mechanism
- Provides smooth 365° rotation and 45° tilt adjustment allowing LED optic to pivot about the center of the aperture at the ceiling line for maximum light output without flashback
- Locks in position with 1/4" Phillips driver
- Aiming scale enables consistent setting across multiple fixtures

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

Universal Mounting Bracket
- Accepts 1/2" Electric Metallic Tube (EMT), C-channel, T-bar fasteners and bar hangers

Junction Box
- Seven 1/2" trade size pry outs positioned to allow straight conduit runs
- Listed for four #12 AWG (two in, two out) 90°C conductors and feed-through branch wiring for top access units (with top access units only)
- Lever connectors for simple push in wiring

Thermal
- Forged aluminum heat sink conducts heat away from the LED module for optical performance and longer life

LED System
- Contains a plurality of high brightness white LED's combined with TIR optic produces even distribution with no pixilation
- Lumen output shall not decrease by more than 10% over the minimum life of 55,000 hours (L90 > 55,000 hours)
- Color variation within 2-step MacAdam ellipses
- Available in 2400K, 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- Available in 90 or 97 color rendering index (CRI)

VividTune™ Color Tuning Solutions
- D2W™ – Dim-to-Warm shifts CCT from 3000K to 1850K as fixture dims, mimicking halogen sources
- W2N – Tunable white CCT range from 2700K to 6500K or 2000K to 5000K; 90 CRI

Driver
- Standard 120-277V 0-10V dimming driver provides flicker-free dimming from 100% to 1%
- Optional 120V leading edge/0-10V 120-277V combination, Fifth Light, DMX or Lutron® Ecosystem
- Standard 0-10V driver and 0-10V leading edge can be serviced from above or through the aperture
- Distributed Low Voltage Power (DLVP) system combines power, lighting and controls with ease of installation

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

WaveLinx PRO Tilemount Sensor Kit
- WaveLinx PRO WPST tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinx PRO Wireless Node
- WaveLinx PRO WPN wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note:** Not compatible with 347V or Chicago plenum.

WaveLinx LITE Tilemount Sensor Kit
- WaveLinx LITE WLST tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx LITE Wireless Node
- WaveLinx LITE WLN wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note:** Not compatible with 347V or Chicago plenum.

WaveLinx Tilemount Sensor Kits Application
- The WPST and WLST tilemount sensor kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WPST and WLST tilemount sensor kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.
- **Note: WaveLinx PRO devices are only compatible with the WaveLinx PRO system.**
- **Note: WaveLinx LITE devices are only compatible with the WaveLinx LITE system.**

Compliance
- Thermally protected, IC rated up to 1800 lumens
- cULus Certified to UL 1598 / C22.2 No. 250.0 suitable for wet locations with downlight; damp location with wall wash and hyperbolic with covered ceiling
- Optional City of Chicago environmental environmental air (CCEA) marking for plenum applications
- EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits
- Airtight with lensed trims
- RoHS compliant
- Photometric testing completed in accordance with IES LM-79 and TM-30 standards
- LED life testing completed in accordance with IES LM-80 standards
- 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
- ENERGY STAR® certified, reference certified light fixtures database

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

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

Photometric Data

15°

Test Number	P410967
Housing	LDA3B
Module	13R159035D010
Trim	E3MRC
Lumens	1288
Efficacy	92 Lm/W
SC	0.3
UGR	NA

CANDLEPOWER DISTRIBUTION

11,434
8,576
5,717
2,859
0

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

0-deg   45-deg   90-deg

CONE OF LIGHT

0°

MH	FC	L	W
5.5'	378	1.6	1.6
7'	233.3	2	2
8'	178.6	2.4	2.4
9'	141.2	2.6	2.6
10'	114.3	3	3
12'	79.4	3.6	3.6

CANDELA TABLE

Degrees Vertical	Candela
0	11434
5	9613
15	1335
25	168
35	10
45	0
55	0
65	0
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1278	99.2
0-40	1287	100
0-60	1288	100
0-90	1288	100
90-180	0	0
0-180	1288	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
35	1947
45	0
55	0
65	0
75	0

15° / 30° Tilt

Test Number	P407923
Housing	LDA3B
Module	13R159035D010
Trim	E3AAC
Lumens	1208
Efficacy	86.3 Lm/W
SC	0.44
UGR	NA

CANDLEPOWER DISTRIBUTION

11,240
8,430
5,620
2,810
0

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

0-deg   45-deg   90-deg

CONE OF LIGHT — Horizontal

30°

MH	FC	L	W	CB
5.5'	63.6	4.6	2.8	3.2
7'	39.2	5.9	3.4	4
8'	30	6.8	4	4.6
9'	23.7	7.6	4.6	5.2
10'	19.2	8.6	5	5.8
12'	13.4	10.3	6	6.9

CONE OF LIGHT — Vertical

30°

D	FC	L	W	CB
1'	7300.4	0.2	0.2	1.7
2'	1825.1	0.6	0.6	3.5
3'	811.2	1	1	5.2
4'	456.3	1.4	1.2	6.9
5'	292	1.8	1.6	8.7
6'	202.8	2.2	2	10.4

CANDELA TABLE

Degrees Vertical	Candela
0	244
5	587
15	1803
25	10191
35	8001
45	678
55	24
65	1
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	661	54.7
0-40	1122	92.9
0-60	1205	99.7
0-90	1208	100
90-180	0	0
0-180	1208	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
35	1573627
45	154586
55	6881
65	229
75	0

CCT Multipliers – 90CRI

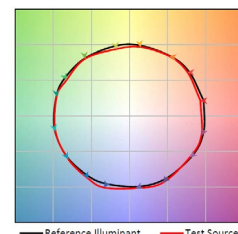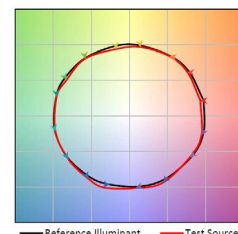| 2700K	3000K	3500K	4000K
0.923	0.963	1.00	1.02

Multipliers for relative lumen values with other color temperatures.

Note: Refer to IES files for more product data.

Color Metrics - TM-30-15 & CRI/CIE

TM-30-15	Rf = 91.6
	Rg = 98.6
CRI/CIE	Ra = 94.9
	R9 = 67

Reference Illuminant   Test Source

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Photometric Data

25°

Test Number	P411015
Housing	LDA3B
Module	13R259035D010
Trim	E3MRC
Lumens	1263
Efficacy	90 Lm/W
SC	0.45
UGR	NA

CANDLEPOWER DISTRIBUTION

6,168
4,626
3,084
1,542
0

0-deg   45-deg   90-deg

CONE OF LIGHT

MH	FC	L	W
5.5'	203.9	2.4	2.4
7'	125.9	3	3
8'	96.4	3.6	3.6
9'	76.1	4	4
10'	61.7	4.4	4.4
12'	42.8	5.4	5.4

CANDELA TABLE

Degrees Vertical	Candela
0	6168
5	5730
15	2214
25	233
35	14
45	0
55	0
65	0
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1248	98.8
0-40	1262	99.9
0-60	1263	100
0-90	1263	100
90-180	0	0
0-180	1263	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
35	2793
45	0
55	0
65	0
75	0

25° / 30° Tilt

Test Number	P408019
Housing	LDA3B
Module	13R259035D010
Trim	E3AAC
Lumens	1301
Efficacy	93 Lm/W
SC	0.51
UGR	NA

CANDLEPOWER DISTRIBUTION

6,701
5,026
3,351
1,675
0

0-deg   45-deg   90-deg

CONE OF LIGHT — Horizontal

MH	FC	L	W	CB
5.5'	45.2	4.9	3.6	3.2
7'	27.9	6.1	4.6	4
8'	21.4	7	5.4	4.6
9'	16.9	7.8	6	5.2
10'	13.7	8.6	6.8	5.8
12'	9.5	10.2	8.2	6.9

CONE OF LIGHT — Vertical

D	FC	L	W	CB
1'	4496.4	0.4	0.4	1.7
2'	1124.1	0.9	0.8	3.5
3'	499.6	1.5	1.4	5.2
4'	281	2	1.8	6.9
5'	179.9	2.6	2.4	8.7
6'	124.9	3.1	2.8	10.4

CANDELA TABLE

Degrees Vertical	Candela
0	249
5	523
15	2814
25	6269
35	5924
45	1649
55	47
65	0
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	655	50.3
0-40	1137	87.4
0-60	1298	99.8
0-90	1301	100
90-180	0	0
0-180	1301	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
35	1165121
45	375723
55	13285
65	0
75	0

CCT Multipliers – 90CRI

2700K	3000K	3500K	4000K
0.923	0.963	1.00	1.02

Multipliers for relative lumen values with other color temperatures.

Note: Refer to IES files for more product data.

Color Metrics - TM-30-15 & CRI/CIE

TM-30-15	Rf = 91.6
	Rg = 98.6
CRI/CIE	Ra = 94.9
	R9 = 67

Reference Illuminant   Test Source

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Photometric Data

40°

Test Number	P411063
Housing	LDA3B
Module	13R409035D010
Trim	E3MRC
Lumens	1345
Efficacy	96 Lm/W
SC	0.7
UGR	NA

CANDLEPOWER DISTRIBUTION

3,152 / 2,364 / 1,576 / 788 / 0

0-deg | 45-deg | 90-deg

CONE OF LIGHT

MH	FC	L	W
5.5'	104.1	3.8	3.8
7'	64.3	4.8	4.8
8'	49.2	5.4	5.4
9'	38.9	6.2	6.2
10'	31.5	6.8	6.8
12'	21.9	8.2	8.2

CANDELA TABLE

Degrees Vertical	Candela
0	3148
5	3152
15	2738
25	584
35	34
45	0
55	0
65	0
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1318	98
0-40	1345	99.9
0-60	1345	100
0-90	1345	100
90-180	0	0
0-180	1345	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
35	6608
45	0
55	0
65	0
75	0

40° / 30° Tilt

Test Number	P408115
Housing	LDA3B
Module	13R409035D010
Trim	E3AAC
Lumens	1329
Efficacy	95 Lm/W
SC	0.28
UGR	NA

CANDLEPOWER DISTRIBUTION

3,374 / 2,531 / 1,687 / 844 / 0

0-deg | 45-deg | 90-deg

CONE OF LIGHT — Horizontal

MH	FC	L	W	CB
5.5'	35.6	5.2	4.6	3.2
7'	22	6.5	6	4
8'	16.8	7.4	6.8	4.6
9'	13.3	8.3	7.6	5.2
10'	10.8	9.2	8.4	5.8
12'	7.5	10.8	10.2	6.9

CONE OF LIGHT — Vertical

D	FC	L	W	CB
1'	2344.9	0.6	0.6	1.7
2'	586.2	1.4	1.4	3.5
3'	260.5	2.1	2.2	5.2
4'	146.6	2.9	2.8	6.9
5'	93.8	3.7	3.6	8.7
6'	65.1	4.4	4.4	10.4

CANDELA TABLE

Degrees Vertical	Candela
0	831
5	995
15	3035
25	3294
35	3037
45	2059
55	242
65	1
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	686	51.6
0-40	1082	81.4
0-60	1326	99.8
0-90	1329	100
90-180	0	0
0-180	1329	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
35	597212
45	469204
55	67832
65	229
75	0

CCT Multipliers – 90CRI

2700K	3000K	3500K	4000K
0.923	0.963	1.00	1.02

Multipliers for relative lumen values with other color temperatures.

Note: Refer to IES files for more product data.

Color Metrics - TM-30-15 & CRI/CIE

TM-30-15	Rf = 91.6
	Rg = 98.6
CRI/CIE	Ra = 94.9
	R9 = 67

Reference Illuminant — Test Source

COOPER Lighting Solutions
a Signify business

Photometric Data

50°

Test Number	P411816
Housing	LDA3B
Module	13R509035D010
Trim	E3MRH
Lumens	1329
Efficacy	95 Lm/W
SC	0.83
UGR	NA

CANDLEPOWER DISTRIBUTION

2,159
1,619
1,080
540
0

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

0-deg   45-deg   90-deg

CONE OF LIGHT

0°

MH	FC	L	W
5.5'	71.4	4.4	4.4
7'	44.1	5.8	5.8
8'	33.7	6.6	6.6
9'	26.7	7.4	7.4
10'	21.6	8.2	8.2
12'	15	9.8	9.8

CANDELA TABLE

Degrees Vertical	Candela
0	2159
5	2060
15	1806
25	1168
35	177
45	1
55	1
65	0
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1186	89.2
0-40	1324	99.6
0-60	1329	100
0-90	1329	100
90-180	0	0
0-180	1329	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
35	34890
45	273
55	169
65	0
75	0

50° / 30° Tilt

Test Number	P410652
Housing	LDA3B
Module	13R509035D010
Trim	E3AAH
Lumens	1254
Efficacy	90 Lm/W
SC	0.52
UGR	NA

CANDLEPOWER DISTRIBUTION

2,018
1,514
1,009
505
0

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

0-deg   45-deg   90-deg

CONE OF LIGHT

Horizontal

30°

MH	FC	L	W	CB
5.5'	28.3	4.4	5.2	3.2
7'	17.5	5.6	6.6	4
8'	13.4	6.4	7.6	4.6
9'	10.6	7.2	8.4	5.2
10'	8.6	8	9.4	5.8
12'	5.9	9.6	11.4	6.9

CONE OF LIGHT

Vertical

30°

D	FC	L	W	CB
1'	1363.6	0.9	0.8	1.7
2'	340.9	1.8	1.8	3.5
3'	151.5	2.7	2.8	5.2
4'	85.2	3.7	3.6	6.9
5'	54.5	4.6	4.6	8.7
6'	37.9	5.5	5.6	10.4

CANDELA TABLE

Degrees Vertical	Candela
0	838
5	1447
15	1968
25	1978
35	1803
45	1204
55	782
65	0
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	626	50
0-40	944	75.3
0-60	1251	99.7
0-90	1254	100
90-180	0	0
0-180	1254	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
35	354638
45	274200
55	219561
65	0
75	0

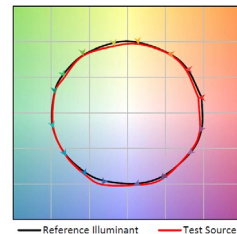### CCT Multipliers – 90CRI

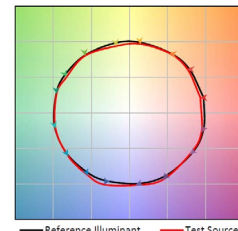| 2700K	3000K	3500K	4000K
0.923	0.963	1.00	1.02

Multipliers for relative lumen values with other color temperatures.

Note: Refer to IES files for more product data.

Color Metrics - TM-30-15 & CRI/CIE

TM-30-15	Rf = 91.6
	Rg = 98.6
CRI/CIE	Ra = 94.9
	R9 = 67

Reference Illuminant — Test Source

Energy Data

250 Lumens		
	120V	**277V**
Lumen Output	250	250
Input Power (W)	4	4
Input Current(A)	0.042	0.019
THDi(%)	19.6	19.6
PF	0.96	0.93

700 Lumens		
	120V	**277V**
Lumen Output	700	700
Input Power (W)	8	8
Input Current(A)	0.075	0.034
THDi(%)	15.3	16
PF	0.97	0.92

1000 Lumens		
	120V	**277V**
Lumen Output	1000	1000
Input Power (W)	11	11
Input Current(A)	0.091	0.04
THDi(%)	16	13.7
PF	0.97	0.95

1300 Lumens		
	120V	**277V**
Lumen Output	1300	1300
Input Power (W)	15	15
Input Current(A)	0.125	0.057
THDi(%)	12.3	11.2
PF	0.98	0.92

1800 Lumens		
	120V	**277V**
Lumen Output	1800	1800
Input Power (W)	22	22
Input Current(A)	0.181	0.079
THDi(%)	8.8	4.9
PF	0.99	0.96

2300 Lumens		
	120V	**277V**
Lumen Output	2300	2300
Input Power (W)	31	31
Input Current(A)	0.261	0.111
THDi(%)	11.1	4.7
PF	0.98	0.96

Dimensional and Mounting Details

2 X 8 CONFIGURATION
For 1800 and 2300 lumens

2 X 6 CONFIGURATION
For 250-1300 lumens
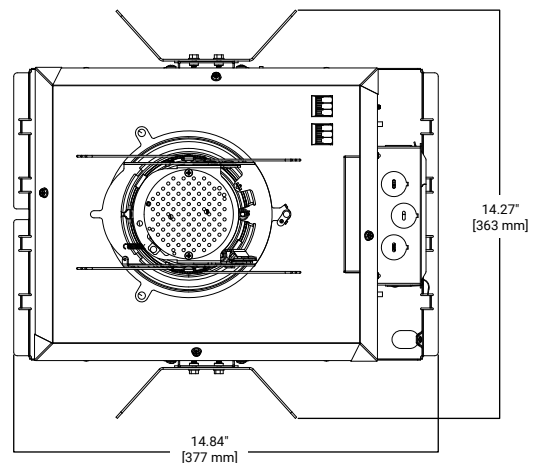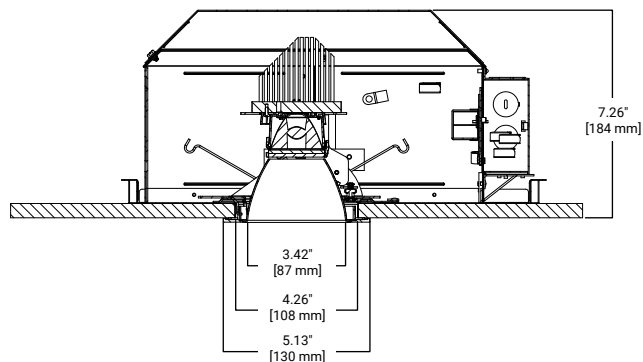
COOPER
Lighting Solutions
a Signify business
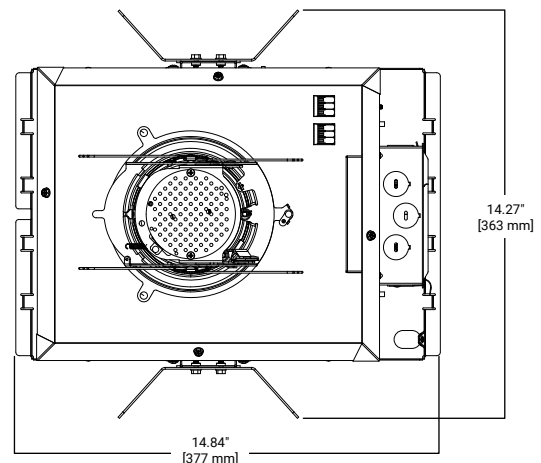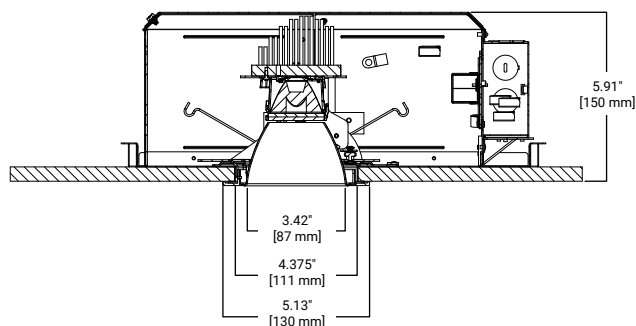
Connected Systems

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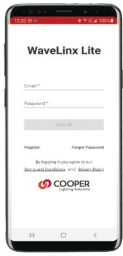- Up to 28 unique areas per project site (WaveLinx LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer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

Network 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

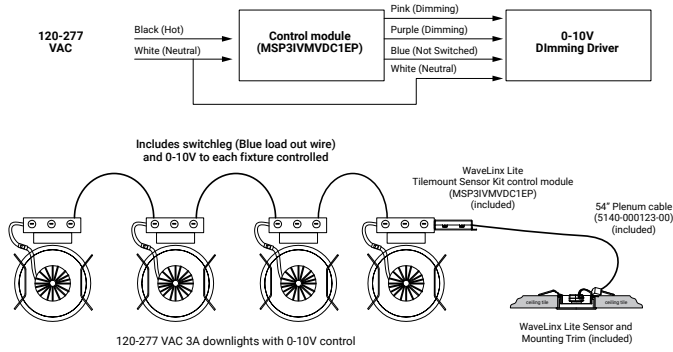### WaveLinx LITE Wireless Node - WLN

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

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

WaveLinx LITE Wireless Node (WLN) Wiring Diagram

D010 (500lm +)

D010 (250lm) & DE010

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

WaveLinx LITE Bluetooth Enabled System

MyApps Secure Portal
Site Initiation, Data Backup & Site Transfer

WaveLinx LITE Mobile Application

WaveLinx LITE Ambient | WaveLinx LITE Integrated Ambient | WaveLinx LITE Tilemount Sensor Kit | WaveLinx LITE Wallstation | WaveLinx LITE Integrated Industrial | WaveLinx LITE Integrated Parking Garage
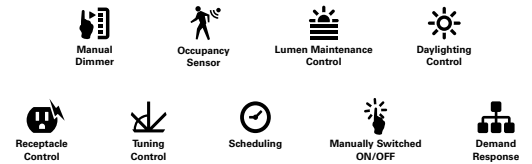

WaveLinx PRO Wireless Node - WPN

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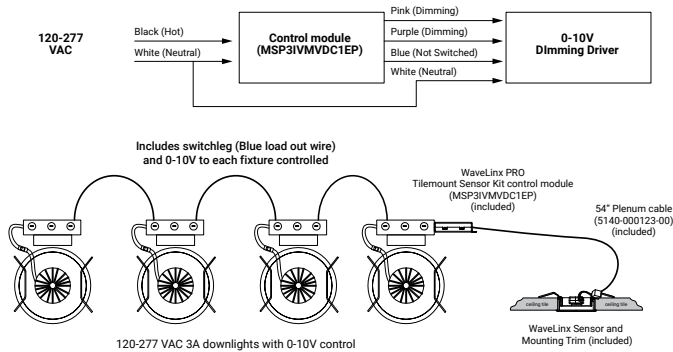
- WaveLinx Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with WaveLinx Area Controller, Wall Stations, and Control Devices
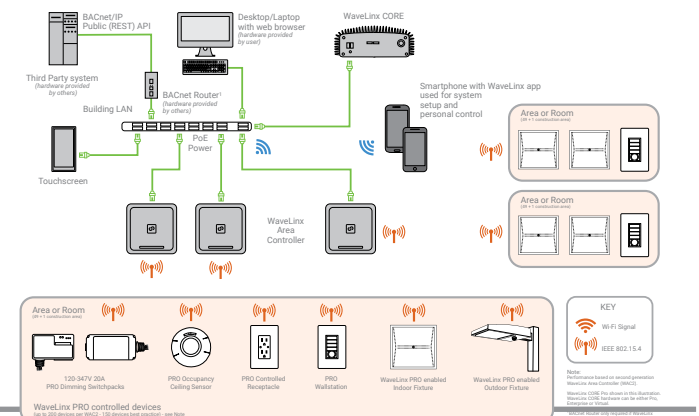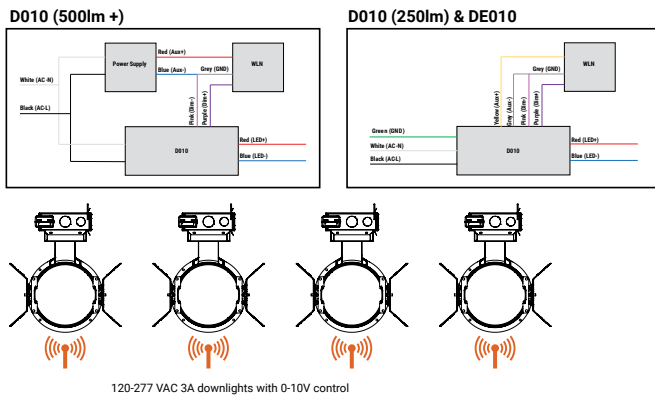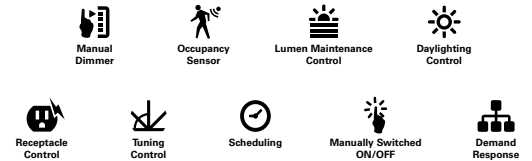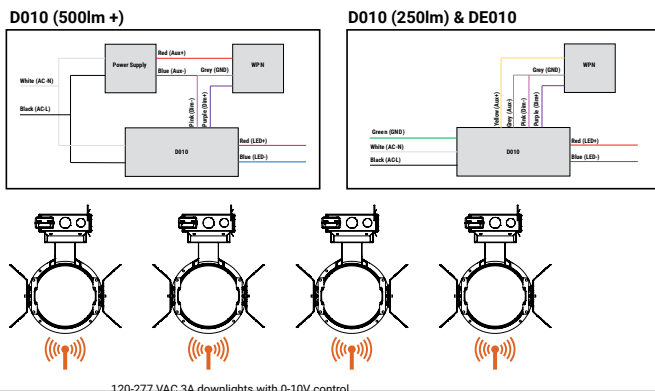- Stand-Alone Offices or Entire Building Network Installations

Downlights with wireless communication
Highly efficient LED fixtures

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

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

WaveLinx PRO Wireless Node (WPN) Wiring Diagram

D010 (500lm +)

D010 (250lm) & DE010

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

WaveLinx CORE Building Management Integration

BACnet/IP Public (REST) API
Third Party system *(hardware provided by others)*

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

Trellix Core

Building LAN

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

PoE Power

Touchscreen

WaveLinx Mobile App used for system setup and personal control

Wireless Area Controller