

| | | | | | |
|-------------|--|-----------|--|------|--|
| Project | | Catalog # | | Type | |
| Prepared by | | Notes | | Date | |



Portfolio

LD8B ER8B 8LB

8" Narrow, Medium, or Wide
New Construction Downlight
1,000-20,000 Lumen

Typical Applications

Office • Education • Healthcare • Hospitality

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Product Certification



Control Compatibility



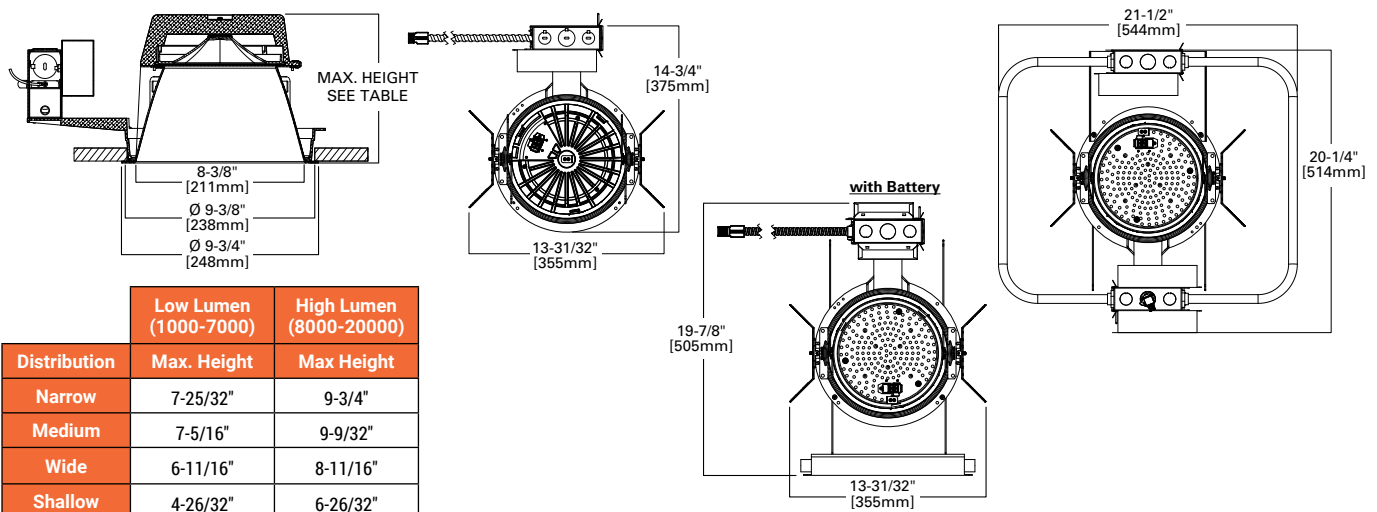
Product Features



Top Product Features

- 1,000 to 20,000 lumens; Offered in 80, 90 and 97 CRI; narrow beam, medium beam and wide beam distributions
- Two-stage reflector system produces smooth beam; Color variation within 3-step MacAdam ellipses
- Flexible disconnect for easy LED engine replacement and installation
- 2400K, 2700K, 3000K, 3500K, 4000K, 5000K; D2W™ option from 3000K to 1850K
- 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



Order Information

SAMPLE ORDER NUMBER: **LD8B50D010IEMBOD**

| Domestic Preferences | Housing | Lumens | Voltage | Driver Options | |
|--|--|---|--|---|--|
| Domestic Preferences ⁽¹⁵⁾ | Housing | Lumens ⁽¹⁾ | Voltage ⁽¹⁰⁾ | 1 Driver | 2 and 3 Drivers |
| [Blank] =Standard BAA =Buy American Act TAA =Trade Agreements Act | LD8B =LED Downlight 8" Nominal Aperture LD8BCP =LED Downlight 8" Nominal Aperture, Chicago Plenum | 10 =1000 lumens 15 =1500 lumens 20 =2000 lumens 30 =3000 lumens 40 =4000 lumens 50 =5000 lumens 60 =6000 lumens ⁽⁸⁾ 70 =7000 lumens ⁽⁸⁾ 80 =8000 lumens ⁽⁸⁾ 90 =9000 lumens ⁽⁸⁾ 100 =10000 lumens ⁽⁸⁾ 120 =12000 lumens ⁽⁸⁾ 150 =15000 lumens ⁽⁸⁾ 175 =17500 lumens ⁽⁸⁾ 200 =20000 lumens ⁽⁸⁾ | Blank =120-277 7000 lumen and below. 3 =347V step down transformer ⁽¹¹⁾ | 1000-4000 Lumen⁽¹³⁾ D010 =0-10V 120-277V Dimming, 1 to 100% D010TR =0-10V 120-277V or 120V Line Voltage Dimming, 1% to 100% 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 ⁽¹²⁾ DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, with RJ45 connection DL2 =Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only DLE =Lutron Ecosystem dimming 1% to 100% DMXC5 =DMX/RDM Logarithmic Dimming 0% to 100% with RJ45 connection 1000-3000 Lumen DLV =Low voltage dimming driver (1-100%) for use with DLVP system 5000, 6000, and 7000 Lumen⁽¹⁴⁾ D010TE =0-10V or Trailing Edge Dimming, 5% to 100%, 120V-277V (120V Only for Trailing Edge Dimming) Tunable white 1000-2000 DE010W2N =0-10V dimming, 0% to 100%, 120V D5LTW2N =Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100% | 4000 and 6000 Lumen D2W (2 Drivers) 6000, 8000 and 9000 Lumen (2 Drivers) 9000 Lumen D2W (3 Drivers) 12,000 Lumen (3 Drivers) 1D010 =0-10V, 120V Dimming, 1% to 100% 2D010 =0-10V, 277V Dimming, 1% to 100% 1D010TR =0-10V or 120V Line Voltage Dimming, 1% to 100% 2D010TR =0-10V, 277V Dimming, 1% to 100% 1DE010 =0-10V, 120V Linear Dimming, 0% to 100% 2DE010 =0-10V, 277V Linear Dimming, 0% to 100% 1D5LT =120V Fifth Light® DALI DT6 Logarithmic Dimming, 0% to 100% 2D5LT =277V DALI DT6 Logarithmic Dimming, 0% to 100% 1DMX =120V, DMX/RDM Logarithmic Dimming, 0% to 100% ⁽¹²⁾ 2DMX =277V, DMX/RDM Logarithmic Dimming, 0% to 100% ⁽¹²⁾ 1DMXC5 =120V, DMX/RDM Logarithmic Dimming 0% to 100% with RJ45 connection 2DMXC5 =277V, DMX/RDM Logarithmic Dimming 0% to 100% with RJ45 connection 1DL2 =120V Lutron® Hi-Lume Forward Phase Dimming, 1% to 100% 1DLE =120V, Lutron Ecosystem dimming 1% to 100% 2DLE =277V, Lutron Ecosystem dimming 1% to 100% 10,000, 12,000, 15,000, 17,500, 20,000 Lumen 1D010TE =0-10V or Trailing Edge Dimming, 5% to 100%, 120V 2D010TE =0-10V, 5% to 100% Tunable white 3000-4000 1DE010W2N =0-10V dimming, 0% to 100%, 120V 2DE010W2N =0-10V dimming, 0% to 100%, 277V 1D5LTW2N =120V, Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100% 2D5LTW2N =277V, Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100% |
| Notes (18) 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 analyzed under domestic preference requirements. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. | Notes (1) Nominal Lumens will vary depending on selected color, driver and reflector finish. (8) Product is marked spacing and must be installed with the following minimum spacing -Center to center of adjacent luminaires: 36" -Center of luminaire to side of building member: 18" -Minimum overhead: 1/2" -20,000 Lumens minimum overhead: 6" | Notes (10) For single driver. (11) 347V step down transformer only available up to 7000 Lumen | Notes (12) DMX fixtures default to full on upon loss of DMX signal. (13) For D2W up to 3000 lumens. (14) Not for use with D2W. | | |

| Color Control | Options | | |
|--|---|--|--|
| Color Control ⁽⁹⁾ | Options ⁽³⁾ | | |
| Blank =No color control or D2W for 2000 lumens and below D2W =For 4000, 6000 and 9000 dim 2 warm 2050 =For W2N 2000K - 5000K 2765 = For W2N 2700K - 6500K | WPST =Factory installed WaveLinX Sensor Kit ⁽²⁾⁽³⁾⁽¹⁶⁾ WLST =Factory installed WaveLinX LITE Sensor Kit ⁽²⁾⁽³⁾⁽¹⁷⁾ WPN = WaveLinX PRO Wireless Node without sensor ⁽¹⁹⁾ | EMBOD =Bodine® Emergency Module with Remote Test Switch ⁽³⁾ EMBOD7ST =Bodine® Emergency Module with Self Test Remote Test Switch ⁽³⁾ EM7 =7W Emergency Module with Remote Test Switch ⁽³⁾ EM14 =14W Emergency Module with Remote Test Switch ⁽³⁾ IEMBOD =Bodine® Emergency Module with Integral Test Switch ⁽³⁾ IEM7 =7W Emergency Module with Integral Test Switch ⁽³⁾ IEM14 =14W Emergency Module with Integral Test Switch ⁽³⁾ | EMV7 =7W Low Voltage Emergency Module with Remote Test Switch ⁽⁴⁾ EMV14 =14W Low Voltage Emergency Module with Remote Test Switch ⁽⁴⁾ IEMV7 =7W Low Voltage Emergency Module with Integral Test Switch ⁽⁴⁾ IEMV14 =14W Low Voltage Emergency Module with Integral Test Switch ⁽⁴⁾ |
| Notes (9) Field required for D2W 4000, 6000 and 9000 lumens only. | Notes (2) Refer to system specifications for additional information, features and benefits. Order either factory installed option or accessory, use with 0-10V driver. (3) Not available with Chicago Plenum or IC rating. (4) ULus listed only. (16) WPST = WaveLinX wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only. (17) WLST = WaveLinX LITE tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX LITE system specifications) (19) WPN = WaveLinX PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor, Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. | | |

Order Information

SAMPLE ORDER NUMBER: **ER8B30408035**

| Domestic Preferences | Power Module | Lumen Levels | Color |
|---|--------------------|--|--|
| Domestic Preferences ⁽¹⁸⁾ | Power Module | Lumen Levels ⁽¹⁾ | Color |
| [Blank] =Standard BAA =Buy American Act TAA =Trade Agreements Act | ER8B=8" LED Module | 1 Driver 1020=1000, 1500, or 2000 Lumens 3040=3000 or 4000 Lumens 5070=5000, 6000, or 7000 lumens 2 Drivers 60=6000 lumens, 2 LEDs 80120=8000, 9000, 10000, or 12000 lumens 3 Drivers 120=12000 lumens, 3 LEDs 150200=15000, 17500 or 20000 lumens | 80 CRI 8027= 80CRI, 2700K 8030= 80CRI, 3000K 8035= 80CRI, 3500K 8040= 80CRI, 4000K 8050= 80CRI, 5000K 90 CRI 9027= 90CRI, 2700K 9030= 90CRI, 3000K 9035= 90CRI, 3500K 9040= 90CRI, 4000K 9050= 90CRI, 5000K 97 CRI 9727= 97CRI, 2700K 9730= 97CRI, 3000K |
| Notes (18) 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 analyzed under domestic preference requirements. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. | | Dim 2 Warm 1 Driver 109030D2W=1000 Lumen, 90 CRI, Dim 2 Warm, IC Rated 159030D2W=1500 Lumen, 90 CRI, Dim 2 Warm, IC Rated 209030D2W=2000 Lumen, 90 CRI, Dim 2 Warm, IC Rated 309030D2W=3000 Lumen, 90 CRI, Dim 2 Warm Dim 2 Warm 2 Drivers 409030D2W=4000 Lumen, 90 CRI, Dim 2 Warm 609030D2W=6000 Lumen, 90 CRI, Dim 2 Warm Dim 2 Warm 3 Drivers 909030D2W=9000 Lumen, 90 CRI, Dim 2 Warm | W2N Tunable White 1 Driver⁽¹⁶⁾ 10W2N902050=1000 lumens, 90 CRI, Tunable white 2000K - 5000K 10W2N902765=1000 lumens, 90 CRI, Tunable white 2700K - 6500K 15W2N902050=1500 lumens, 90 CRI, Tunable white 2000K - 5000K 15W2N902765=1500 lumens, 90 CRI, Tunable white 2700K - 6500K 20W2N902050=2000 lumens, 90 CRI, Tunable white 2000K - 5000K 20W2N902765=2000 lumens, 90 CRI, Tunable white 2700K - 6500K W2N Tunable White 2 Drivers 30W2N902050=3000 lumens, 90 CRI, Tunable white 2000K - 5000K 30W2N902765=3000 lumens, 90 CRI, Tunable white 2700K - 6500K 40W2N902050=4000 lumens, 90 CRI, Tunable white 2000K - 5000K 40W2N902765=4000 lumens, 90 CRI, Tunable white 2700K - 6500K |
| | | Notes (1) Nominal Lumens will vary depending on selected color, driver and reflector finish. | Notes (16) Non-IC. |

SAMPLE ORDER NUMBER: **8LBM1LI**

| Domestic Preferences | Trim | Distribution | Flange | Finish | Options |
|---|------------------|---|--|--|--|
| Domestic Preferences ⁽¹⁸⁾ | Trim | Distribution ⁽⁵⁾ | Flange | Finish | Options |
| [Blank] =Standard BAA =Buy American Act | 8LB=8" Reflector | N =Narrow Spun Aluminum M =Medium Spun Aluminum W =Wide Spun Aluminum S =Shallow Spun Aluminum | 0 =White Polymer Trim Ring 1 =Self-flanged ⁽⁷⁾ 2 =White Painted Self-flanged | LI =Specular Clear H =Semi-Specular Clear WMH =Warm Haze WH =Wheat GPH =Graphite Haze B =Specular Black MW =Matte White | E =Integral Emergency Test Switch Hole ⁽⁶⁾ |
| Notes (18) Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA). 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. | | Notes (5) Beam angles are nominal with LI finish trims. See chart. | Notes (7) Flange is the same finish as the reflector. | | Notes (6) Only available with Narrow, Medium and Wide Spun Aluminum trims. Required for use with all IEMBOD, IEM7, IEM14, IEMV7 and IEMV14 housings. |

Accessories

| Accessories |
|---|
| HSAB =Slope Adapter for 8" Aperture Housings, Specify Slope ⁽⁹⁾ Bar Hangers HB26 =C-channel Bar Hanger, 26" Long, Pair HB50 =C-channel Bar Hanger, 50" Long, Pair Transformers H347 =347 to 120V Step Down Transformer, 75VA H347200 =347 to 120V Step Down Transformer, 200VA Connected Lighting Systems⁽²⁾ WPST = Field installed WaveLinX sensor Kit ⁽¹⁶⁾ WLST = Field installed WaveLinX LITE Sensor Kit ⁽¹⁷⁾ |
| Notes (2) Refer to system specifications for additional information, features and benefits. Order either factory installed option or accessory, use with 0-10V driver. (15) Consult accessory specification sheet for ordering information. (16) WPST = WaveLinX wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only. (17) WLST = WaveLinX LITE tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX LITE system specifications) |

Product Specifications

Lower Shielding Reflector

- Self-flanged, spun .060" thick aluminum lower reflector
- Lensed upper optical chamber
- Provides superior lumen output with minimal source brightness
- Available in all Portfolio Alzak® finishes

Trim Retention

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

Plaster Frame/Collar

- Die-cast aluminum 1-1/2" deep collar accommodates ceiling materials up to 2"

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
- Listed for eight #12 AWG (four in, four out) 90°C conductors and feed-through 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 transitional lens producing 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
- Flexible disconnect allows for tool-less replacement of LED engine from below ceiling
- Available in 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- Available in 80, 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

- Combination 0-10V/trailing edge driver provides flicker free dimming from 100% to 10%
- Optional 1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem
- Driver can be serviced from above or through the aperture
- 1,000-7,000 lumens utilize one driver; 8,000-12,000 lumens utilize two drivers; 15,000-20,000 lumens utilize three drivers; reference ordering information for other variations
- Distributed low voltage power 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 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 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.

WaveLinx LITE Tilemount Sensor Kit

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

WaveLinx Tilemount Kits Application

- The WPST and WLST 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 WPST and WLST tilemount kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

Compliance

- Thermally protected
- 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
- cULus Certified IP65 below ceiling
- Optional City of Chicago environmental air (CCEA) marking for plenum applications
- EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits
- Insulated ceiling (IC) rated up to 2,000 lumens; 3,000 lumens and above are non-IC rated (insulation must be kept 3" from top and sides of housing)
- RoHS compliant
- T24 compliant
- IP20 above ceiling
- IP65 below ceiling finish
- Photometric testing completed in accordance with IES LM-79 standards
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- 6,000 lumens and above are marked spacing and must follow spacing requirements

Warranty

- Five year warranty www.cooperlighting.com/legal

Color Metric Summary

| 8027 | | 8030 | | 8035 | | 8040 | | 8050 | | 9027 | |
|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|
| R _f | 93.2 | R _f | 83.4 | R _f | 83.7 | R _f | 83.3 | R _f | 82.5 | R _f | 92 |
| R _g | 94.1 | R _g | 94.4 | R _g | 94.8 | R _g | 94 | R _g | 94.3 | R _g | 98.4 |
| CRI | 81.3 | CRI | 82.4 | CRI | 83.1 | CRI | 83.7 | CRI | 94.2 | CRI | 93.4 |
| R ₉ | 0.7 | R ₉ | 4.5 | R ₉ | 9.1 | R ₉ | 9.9 | R ₉ | 11.9 | R ₉ | 59.3 |

| 9030 | | 9035 | | 9040 | | 9050 | | 9727 | | 9730 | |
|----------------|------|----------------|------|----------------|------|----------------|------|----------------|-------|----------------|------|
| R _f | 91.6 | R _f | 90.9 | R _f | 89.4 | R _f | 88.4 | R _f | 95 | R _f | 94.2 |
| R _g | 98.6 | R _g | 98.3 | R _g | 96.6 | R _g | 96.8 | R _g | 100.1 | R _g | 99.6 |
| CRI | 93.2 | CRI | 93.3 | CRI | 91.8 | CRI | 91 | CRI | 98 | CRI | 98.5 |
| R ₉ | 60.2 | R ₉ | 63.1 | R ₉ | 58 | R ₉ | 55.2 | R ₉ | 93.9 | R ₉ | 94.7 |

Energy

| ENERGY DATA | |
|--|--|
| Sound Rating: Class A standards | |
| (Values at non-dimming line voltage) | |
| Minimum Starting Temperature: -20°C (-4°F) | |
| EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer) | |
| Power Factor: >0.90 | |
| Input Frequency: 50/60Hz | |

| NOMINAL BEAM ANGLES WITH LI FINISH | | | | |
|------------------------------------|--------|--------|------|---------|
| | Narrow | Medium | Wide | Shallow |
| 1000-7000 | 15 | 40 | 73 | 86 |
| 8000-12000 | 30 | 44 | 73 | 86 |
| 15000-20000 | 34 | 46 | 73 | 86 |

| 1000 Lumen D010 | |
|----------------------|---------------------------|
| Input Power: 11W | THD <14% |
| Input Current: 0.09A | 277V Input Current: 0.04A |

| 1500 Lumen D010 | |
|----------------------|---------------------------|
| Input Power: 15.5W | THD <13% |
| Input Current: 0.13A | 277V Input Current: 0.06A |

| 2000 Lumen D010 | |
|----------------------|---------------------------|
| Input Power: 21.2 W | THD <9% |
| Input Current: 0.18A | 277V Input Current: 0.08A |

| 3000 Lumen D010 | |
|----------------------|---------------------------|
| Input Power: 27.6 W | THD <10% |
| Input Current: 0.23A | 277V Input Current: 0.10A |

| 4000 Lumen D010 | |
|----------------------|---------------------------|
| Input Power: 41.6 W | THD <13% |
| Input Current: 0.35A | 277V Input Current: 0.15A |

| 5000 Lumen D010TE | |
|----------------------|---------------------------|
| Input Power: 52.5 W | THD <12% |
| Input Current: 0.44A | 277V Input Current: 0.19A |

| 6000 Lumen D010TE | |
|----------------------|---------------------------|
| Input Power: 59.7W | THD <14% |
| Input Current: 0.50A | 277V Input Current: 0.22A |

| 7000 Lumen D010TE | |
|----------------------|---------------------------|
| Input Power: 75.8 W | THD <13% |
| Input Current: 0.64A | 277V Input Current: 0.29A |

| 8000 Lumen D010 | |
|----------------------|---------------------------|
| Input Power: 73.8 W | THD <13% |
| Input Current: 0.62A | 277V Input Current: 0.26A |

| 9000 Lumen D010 | |
|----------------------|---------------------------|
| Input Power: 86.9 W | THD <13% |
| Input Current: 0.72A | 277V Input Current: 0.32A |

| 10000 Lumen D010TE | |
|----------------------|---------------------------|
| Input Power: 115.4 W | THD <13% |
| Input Current: 0.96A | 277V Input Current: 0.42A |

| 12000 Lumen D010TE | |
|----------------------|---------------------------|
| Input Power: 119.4 W | THD <13% |
| Input Current: 1.0A | 277V Input Current: 0.43A |

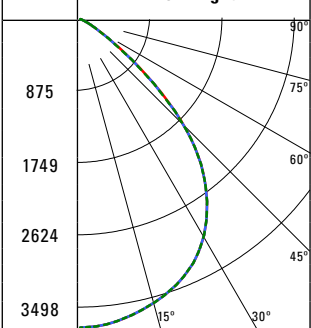
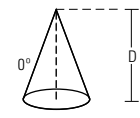
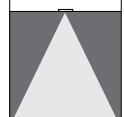
| 15000 Lumen D010TE | |
|----------------------|---------------------------|
| Input Power: 173.7 W | THD <13% |
| Input Current: 1.45A | 277V Input Current: 0.63A |

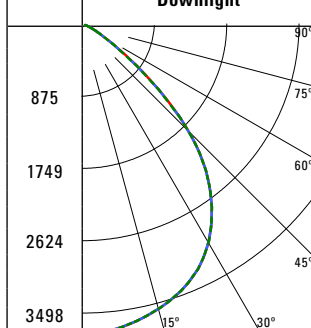
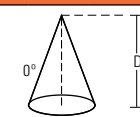
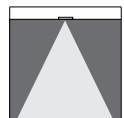
| 17500 Lumen D010TE | |
|----------------------|---------------------------|
| Input Power: 179.1 W | THD <13% |
| Input Current: 1.49A | 277V Input Current: 0.65A |

| 20000 Lumen D010TE | |
|----------------------|---------------------------|
| Input Power: 227.4 W | THD <13% |
| Input Current: 1.9A | 277V Input Current: 0.82A |

Photometric Data

 View IES files

| SHALLOW (86° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------|--|-------|---|------|------|------|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|------|-----|-----|----|------|------|------|-----|------|------|------|-----|------|----|----|------------------|---------|------|--------|-----------|-------------------------|----------------------|
| Test Number | |  | |  | | | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | | | | | | | | | | | | | | | | | | | |
| Housing | LD8B50D010 | | | | | | | 0 | 3502 | 0-30 | 2670 | 44.2 | 45 | 71087 | | | | | | | | | | | | | | | | | | | | | | |
| Module | ER8B50835 | | | 5 | 3477 | 0-40 | 4240 | 70.2 | 55 | 24682 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trim | 8LBS0H | | | 15 | 3322 | 0-60 | 5920 | 98.1 | 65 | 6100 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumens | 6035 | | | 25 | 3056 | 0-90 | 6035 | 100 | 75 | 2121 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Efficacy | 113.9 Lm/W | 35 | 2525 | 90-180 | 0 | 0 | 85 | 1274 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SC | 1.2 | 45 | 1630 | 0-180 | 6035 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | <table border="1"> <thead> <tr> <th>MH</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>4'</td> <td>218.9</td> <td>4.6</td> <td>4.6</td> </tr> <tr> <td>7'</td> <td>71.5</td> <td>8.2</td> <td>8.2</td> </tr> <tr> <td>9'</td> <td>43.2</td> <td>10.6</td> <td>10.6</td> </tr> <tr> <td>13'</td> <td>20.7</td> <td>15.4</td> <td>15.4</td> </tr> <tr> <td>16'</td> <td>13.7</td> <td>19</td> <td>19</td> </tr> </tbody> </table> | | | | MH | FC | L | W | 4' | 218.9 | 4.6 | 4.6 | 7' | 71.5 | 8.2 | 8.2 | 9' | 43.2 | 10.6 | 10.6 | 13' | 20.7 | 15.4 | 15.4 | 16' | 13.7 | 19 | 19 | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| | | MH | FC | L | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 4' | 218.9 | 4.6 | 4.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 7' | 71.5 | 8.2 | 8.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 9' | 43.2 | 10.6 | 10.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 13' | 20.7 | 15.4 | 15.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16' | 13.7 | 19 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 459 | 0-90 | 6035 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 84 | 90-180 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 18 | 0-180 | 6035 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SHALLOW (86° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------|--|-------|---|------|------|------|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|------|-----|-----|----|------|------|------|-----|------|------|------|-----|------|------|------|------------------|---------|------|--------|-----------|-------------------------|----------------------|
| Test Number | |  | |  | | | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | | | | | | | | | | | | | | | | | | | |
| Housing | LD8B50D010 | | | | | | | 0 | 3460 | 0-30 | 2850 | 45.9 | 45 | 69395 | | | | | | | | | | | | | | | | | | | | | | |
| Module | ER8B50835 | | | 5 | 3462 | 0-40 | 4513 | 72.7 | 55 | 22488 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trim | 8LBS0LI | | | 15 | 3498 | 0-60 | 6132 | 98.8 | 65 | 4159 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumens | 6206 | | | 25 | 3343 | 0-90 | 6206 | 100 | 75 | 631 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Efficacy | 117.1 Lm/W | 35 | 2681 | 90-180 | 0 | 0 | 85 | 637 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SC | 1.28 | 45 | 1591 | 0-180 | 6206 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | <table border="1"> <thead> <tr> <th>MH</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>4'</td> <td>216.3</td> <td>5</td> <td>5</td> </tr> <tr> <td>7'</td> <td>70.6</td> <td>8.8</td> <td>8.8</td> </tr> <tr> <td>9'</td> <td>42.7</td> <td>11.4</td> <td>11.4</td> </tr> <tr> <td>13'</td> <td>20.5</td> <td>16.6</td> <td>16.6</td> </tr> <tr> <td>16'</td> <td>13.5</td> <td>20.4</td> <td>20.4</td> </tr> </tbody> </table> | | | | MH | FC | L | W | 4' | 216.3 | 5 | 5 | 7' | 70.6 | 8.8 | 8.8 | 9' | 42.7 | 11.4 | 11.4 | 13' | 20.5 | 16.6 | 16.6 | 16' | 13.5 | 20.4 | 20.4 | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| | | MH | FC | L | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 4' | 216.3 | 5 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 7' | 70.6 | 8.8 | 8.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 9' | 42.7 | 11.4 | 11.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 13' | 20.5 | 16.6 | 16.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16' | 13.5 | 20.4 | 20.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 418 | 0-90 | 6206 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 57 | 90-180 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 5 | 0-180 | 6206 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Nominal Scaling From 80 CRI 3500K | | |
|-----------------------------------|------|------------|
| CRI | CCT | Lumen Mult |
| 80 | 2700 | 0.938 |
| 80 | 3000 | 0.962 |
| 80 | 3500 | 1.000 |
| 80 | 4000 | 0.993 |
| 80 | 5000 | 1.013 |
| 90 | 2700 | 0.784 |
| 90 | 3000 | 0.826 |
| 90 | 3500 | 0.853 |
| 90 | 4000 | 0.891 |
| 90 | 5000 | 0.922 |
| 97 | 2700 | 0.696 |
| 97 | 3000 | 0.737 |

| Nominal Scaling From 5000 lumen package | |
|---|------------|
| LUMEN PACKAGE | LUMEN MULT |
| 1000 LUMEN | 0.207 |
| 1500 LUMEN | 0.280 |
| 2000 LUMEN | 0.398 |
| 3000 LUMEN | 0.562 |
| 4000 LUMEN | 0.799 |
| 5000 LUMEN | 1.000 |
| 6000 LUMEN | 1.133 |
| 7000 LUMEN | 1.368 |
| 8000 LUMEN | 1.535 |
| 9000 LUMEN | 1.729 |
| 10,000 LUMEN | 1.994 |
| 12,000 LUMEN | 2.261 |
| 15,000 LUMEN | 2.949 |
| 17,500 LUMEN | 3.329 |
| 20,000 LUMEN | 3.924 |

Connected Solutions

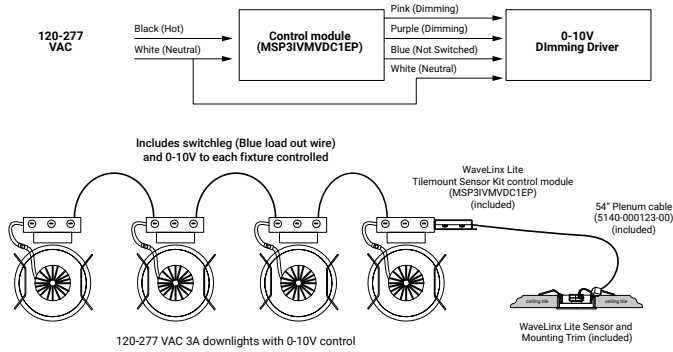
WaveLinx LITE - WLST Tilemount Sensor



- 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



WaveLinx LITE WLST Tilemount Wiring Diagram



WaveLinx LITE Bluetooth Enabled System



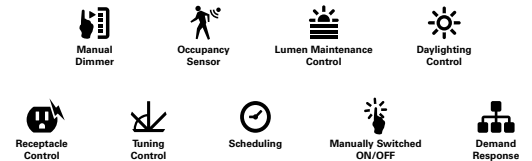
WaveLinx PRO Wireless – WPST Tilemount Sensor



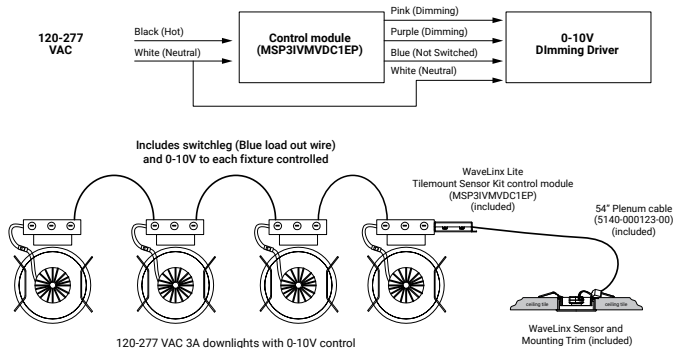
- WaveLinx PRO Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building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



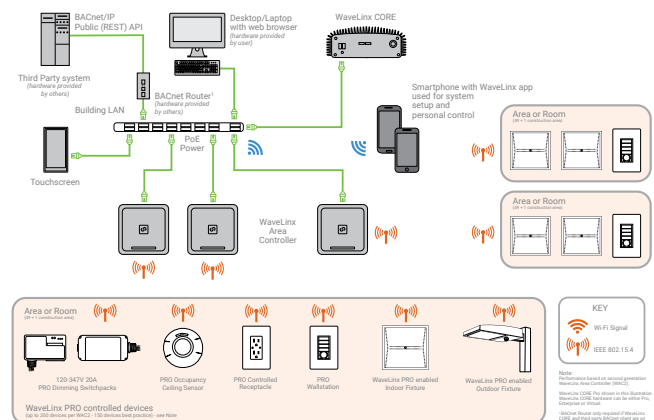
WaveLinx mobile app settings



WaveLinx PRO WPST Tilemount Wiring Diagram



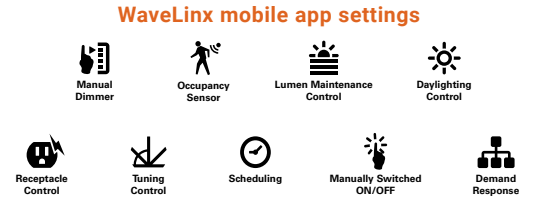
WaveLinx CORE Building Management Integration



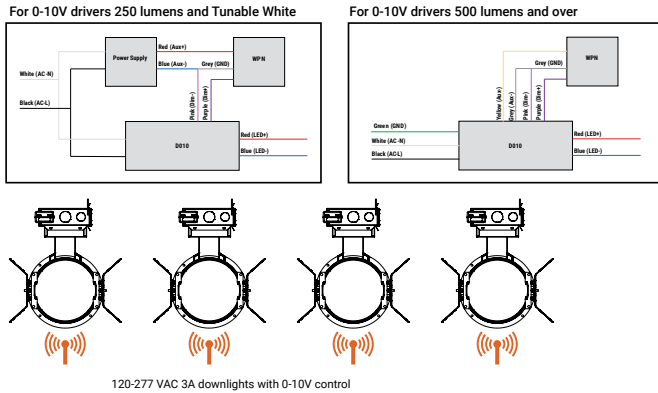
Connected Solutions

WaveLinx PRO Wireless Node - WPN

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



WaveLinx PRO Wireless Node (WPN) Wiring Diagram



WaveLinx CORE Building Management Integration

