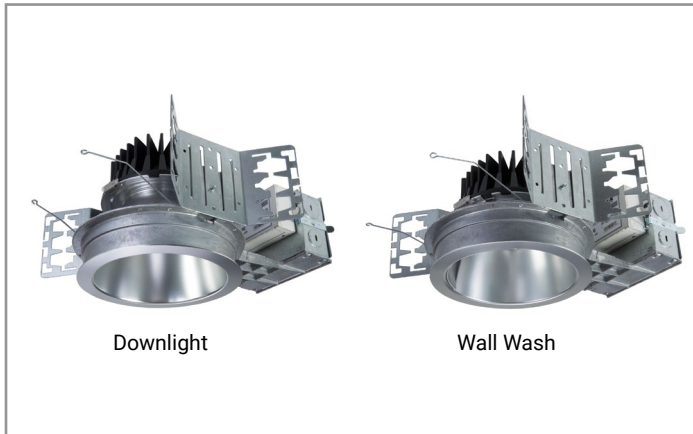


Project		Catalog #		Type	
Prepared by		Notes		Date	



Portfolio

LD6C | EU6C | 6LB - VividTune & BioUp

6" Round, New Construction Downlight
Narrow, Medium, Wide Beam or Wall Wash
Tunable White & Dim-to-Warm

Typical Applications

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

Interactive Menu

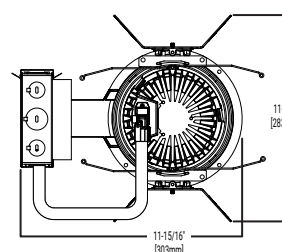
- Order Information [page 2](#)
- Product Specifications [page 4](#)
- Dimensional & Mounting Details [page 5](#)
- Energy Data [page 6](#)
- Connected System [page 7](#)
- Product Warranty



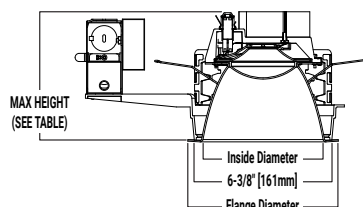
Top Product Features

- 800-7000 Lumens
- Die-cast or anodized aluminum reflectors
- Easy disconnect for LED engine replacement and installation
- Standard 0-10V driver dims to 1%; Optional snap in driver for ease of replacement
- D2W™ option from 3000K to 1850K
- Tunable White CCT range: W2N = 2700K to 6500K or 2000K to 5000K / BioUp = 2700K to 5000K
- Options to meet Buy American and other domestic preference requirements

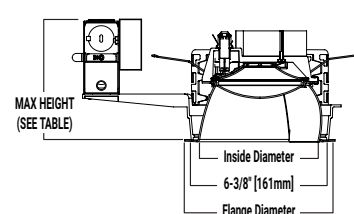
Dimensional and Mounting Details



DOWNLIGHT



WALL WASH



[CLICK HERE](#)
dimension information

Single Line Order Information

SAMPLE ORDER NUMBER: **LD6C20D2WD010M1H**

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

To receive separate components (housing, trim, module) shipment, click on the "Multi-Line Ordering Information Option" button to the right.

Multi-line Ordering
Information Option

Housing	Lumen ⁽¹⁾	Color Control	CCT ⁽²⁰⁾
LD6C =LED Downlight 6" Nominal Aperture LD6CCP =LED Downlight 6" Nominal Aperture, Chicago Plenum For BAA or TAA use Multi-Line Ordering	08 =800 lumens ⁽²⁷⁾ 10 =1000 Lumens ⁽²⁸⁾ 15 =1500 Lumens 20 =2000 Lumens 25 =2500 lumens ⁽¹⁰⁾ 30 =3000 Lumens ⁽¹⁰⁾ 35 =3500 lumens ⁽¹⁰⁾ 40 =4000 Lumens ⁽¹⁰⁾ 45 =4500 Lumens ⁽¹⁰⁾ 50 =5000 Lumens ⁽¹⁰⁾ 70 =7000 Lumens ⁽¹⁰⁾	D2W =Dim to warm for 800-2500, 3500-4500, 7000 lumens; 90CRI, 3000K W2N2765 =Tunable White for 1000-5000 lumens, 2700K-6500K (D5LT & DE010 drivers only), 90CRI W2N2050 =Tunable White for 1000-5000 lumens, 2000K-5000K (D5LT & DE010 drivers only), 90CRI B2750 =BioUp 2700K-5000K, 800-4000 lumens (D5LT & DE010 drivers only) B =BioUp static CCT, for use with 3500K, 4000K and 5000K, 800-4000 lumens (D5LT & DE010 drivers only)	Static BioUp 35 =3500K 40 =4000K 50 =5000K

Voltage	Driver	Driver Options	Hanger Bars
Dim-to Warm Blank =120-277V 800-2500 lumens 1=120V 3500-4500 & 7000 lumens (integral driver only) 2=277V 3500-4500 & 7000 lumens (integral driver only) 3=347V (D010 driver 800-2500 lumens) 3500 and above use step down transformer	Dim-to Warm D010 =0-10V 1% dimming D010TR =0-10V or (120V) phase cut 1% dimming DE010 =0-10V linear 0.1% dimming D5LT =DALI T6 Logarithmic 0.1% Dimming DMX =DMX/RDM Logarithmic 0.1% Dimming ⁽¹⁴⁾ DMXC5 =DMX/RDM Logarithmic 0.1 % Dimming with RJ45 connection ⁽¹⁴⁾ DLE =Lutron Ecosystem 1-100% dimming DLVP =Low voltage dimming 1-100% for use with DLVP system ⁽³⁾	Blank =Integral driver RD100 =Remote 100ft ^{(3) (33)} RD75 =Remote 75ft ^{(3) (33)} RD50 =Remote 50ft ^{(3) (33)} RD25 =Remote 25ft ⁽³⁾ RD15 =Remote 15ft ⁽³⁾ RD5 =Remote 5ft ⁽³⁾ RD2 =Remote 2ft ⁽³⁾ PD =Plug in Driver ⁽²⁶⁾	Blank =Without hanger bars B26 =C-channel Bar Hanger, 26" Long, Pair
Tunable White Blank =1000 lumens 1=120V 1500-5000 lumens (integral driver only) 2=277V 1500-5000 lumens (integral driver only) 3=347V Step down transformer (Limited to 1000 lumens with remote driver)	Tunable White DE010W2N2765 =0-10V 0.1% Dimming, 2700-6500K DE010W2N2050 =0-10V 0.1% Dimming, 2000-5000K D5LTW2N2765 =DALI T6 0.1% Dimming, 2700-6500K D5LTW2N2050 =DALI T6 0.1% Dimming, 2000-5000K		
BioUp Tunable White Blank =800 lumens 1=120V 1000-4000 lumens (integral driver only) 2=277V 1000-4000 lumens (integral driver only) 3=347V Step down transformer (Limited to 800 lumens with remote driver)	BioUp Tunable White DE010B2750 =0-10V 0.1% dimming, tunable white 2700-6500K DE010B35 = 0-10V 0.1% dimming, static white 3500K DE010B40 = 0-10V 0.1% dimming, static white 4000K DE010B50 = 0-10V 0.1% dimming, static white 5000K D5LTB2750 =DALI T6 0.1% dimming, tunable white 2700-6500K D5LTB35 = DALI T6 0.1% dimming, static white 3500K D5LTB40 = DALI T6 0.1% dimming, static white 4000K D5LTB50 = DALI T6 0.1% dimming, static white 5000K		

Trim Distribution ⁽⁵⁾	Trim Flange	Trim Finish	Options ^{(3) (16) (31)}
N =Narrow, Spun Aluminum ⁽²⁶⁾ M =50° Cutoff, Medium Beam Reflector, Spun Aluminum MD =45° Cutoff, Medium Beam Reflector, Spun Aluminum W =Wide, Spun Aluminum S =Shallow, Spun Aluminum HY =Hyperbolic medium beam ⁽²⁶⁾ PS =Non-Conductive Shallow (dead front), white ^{(11) (12)} CS =Cast Shallow, Die Cast Aluminum BA =Spun Aluminum Baffle ⁽⁷⁾ Wall Wash SWN =Single Wall Wash, Spun Aluminum DWN =Double Wall Wash, Spun Aluminum CW =Corner Wall Wash, Spun Aluminum MDSW =45° Cutoff, Single Wall Wash, Spun Aluminum MDDW = 45° Cutoff, Double Wall Wash, Spun Aluminum LSWW =Lensed Single wall wash, Spun Aluminum LDWW =Lensed Double wall wash, Spun Aluminum	0 =White Polymer Trim Ring 1 =Self-flanged ⁽¹³⁾ 2 =White Painted Self-flanged 4 =Knife edge rimless use with die cast only ^{(8) (23)}	LI =Specular Clear ⁽⁹⁾ H =Semi-Specular Clear ⁽⁹⁾ WMH =Warm Haze ⁽⁹⁾ WH =Wheat ⁽⁹⁾ GPH =Graphite Haze ⁽⁹⁾ B =Specular Black ⁽⁹⁾ MW =Matte White (Antimicrobial) MB =Matte Black ⁽⁸⁾ MMS =Matte Metallic Silver ⁽⁸⁾	EMBOD =Bodine® Emergency Module with Remote Test Switch ⁽²⁵⁾ EMBOD6ST =Bodine® 6W Self Test Emergency Module with Remote Test Switch EM7 =7W Emergency Module with Remote Test Switch EM14 =14W Emergency Module with Remote Test Switch EM14RSD =14W Self Diagnostic Replaceable Emergency Battery Pack with Integral Test Switch EMBOD7ST =Bodine® Self Test Emergency Module ⁽²⁵⁾ IEMBOD =Bodine® Emergency Module with Integral Test Switch ^{(6) (25)} IEM7 =7W Emergency Module with Integral Test Switch ⁽⁶⁾ IEM14 =14W Emergency Module with Integral Test Switch ⁽⁶⁾ IEM14RSD =14W Self Diagnostic Replaceable Emergency Battery Pack with Remote Test Switch ⁽⁶⁾ IEMBOD6ST =Bodine® 6W Self Test Emergency Module with Integral Test Switch ⁽³⁰⁾ EMV7 =7W Low Voltage Emergency Module with Remote Test Switch ⁽⁴⁾ EMV14 =14W Low Voltage Emergency Module with Remote Test Switch ⁽⁴⁾ ETRD =Emergency transfer device ⁽³²⁾ WPST =Factory installed Wavelinx PRO Sensor Kit ^{(15) (16)} WLST =Factory installed Wavelinx LITE Sensor Kit ^{(15) (17)} WPN = Wavelinx PRO Wireless Node without sensor ^{(21) (34)} WLN = Wavelinx LITE Wireless Node without sensor (not compatible with Tuneable White) ^{(35) (36)}

Continued on next page.

Single Line Order Information

Accessories (Sold separately) ⁽²²⁾

TRM6P=White metal trim ring ⁽²⁾
LGSKT6IP66=IP66 Gasket Kit
DT6RF=6 inch frosted acrylic ring ⁽²⁹⁾

RPM6MW=Rimless Millwork Ring, Matte White ⁽²⁾
RPM6MB=Rimless Millwork Ring, Matte Black ⁽²⁾
RKM6MW=Knife Edge Millwork Ring, Matte White ⁽²⁴⁾
RKM6MB=Knife Edge Millwork Ring, Matte Black ⁽²⁴⁾

Connected Lighting Systems ^{(3) (15)}
WPST=Field installed WaveLinX PRO Sensor Kit ⁽¹⁷⁾
WLST=Field installed WaveLinX LITE Sensor Kit ⁽¹⁸⁾

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

PRR6=Rimless Plaster Ring ⁽²⁾
RKP6=Knife Edge plaster Ring ⁽²⁴⁾

HSA6=Slope Adapter for 6" Aperture Housings,
Specify Slope ⁽³⁴⁾

Transformers
H347=H347 for 98CRI 4000 lumens and below; D2W
4500 lumens and below; W2N 4000 lumens and below

Notes:

1. Nominal Lumens will vary depending on selected color, driver and reflector finish. Reference IES files.
2. Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
3. Not available with Chicago Plenum.
4. ULus listed only
5. Beam angles are nominal with LI finish trims.
6. Available with narrow (N), medium (M) and medium 45 degree (MD) Spun Aluminum trims. Required for use with all IEMBOD, IEM7, IEM14, IEMV7 and IEMV14 housings. Not offered with remote driver.
7. Only available with Matte White and Matte Black Finishes.
8. Available only on CS distributions.
9. Not available on PS, CS or BA distributions.
10. Product is marked spacing. [Reference table on page 4.](#)
11. PS available in self-flanged MW finish only.
12. Offered up to 2000 lumens
13. Flange is the same finish as the reflector
14. DMX fixtures default to full on upon loss of DMX signal.
15. Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver.

16. Non-IC
17. WLST=WaveLinX LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX LITE system specifications)
18. WPST=WaveLinX PRO wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
19. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analysed under domestic preference requirements. Offered with spun aluminum narrow (N), medium (M), and wide (W) trims.
20. Not required for W2N and D2W.
21. 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 D010 or DE010 drivers only.
22. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
23. Accessory (Requires knife edge accessory ring)
24. Order die cast trim with flange type 4

25. Not available for W2N
26. Offered up to 2500 lumens with D2W and 3500 with W2N
27. IC rated
28. Tunable white IC rated with 1000 lumens
29. Order with self flanged trim.
30. Available with narrow (N), medium (M) and medium 45° (MD), Shallow (S). Required for use with all IEMBOD6ST, IEM7, IEM14, IEMV7 and IEMV14 housings. Not offered with remote driver.
31. 120V-277V
32. Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others)
33. Not available with Lutron drivers
34. Not recommended for use with Wall Wash
35. WLN = WaveLinX LITE wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with D010 or DE010 drivers only.
36. Not compatible with 347V or Chicago plenum.

Product Specifications

Lower Shielding Reflector

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

Wall Wash Reflector

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

Trim Retention

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

Plaster Frame/Collar

- Die-cast aluminum 1 1/2" deep collar
- Accommodates up to 2" ceiling thickness

Universal Mounting Bracket

- Accepts 1/2" Electric Metallic Tube (EMT), C-channel and bar hangers
- Adjusts 5" vertically from above and below the ceiling

Junction box

- Four 1/2" and two 3/4" trade size pry outs positioned to allow straight conduit runs
- Lever connectors for simple push in wiring
- Listed for (4) #12 AWG (two in, two out) 90°C conductors and feed thru branch wiring for type IC and Plug in drivers for 120/277V only. For all other cases (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring for 120/277V only

Thermal

- Aluminum heat sink conducts heat away from the LED module for improved performance and longer life

LED System

- Contains a plurality of high brightness white LED's combined with a high reflectance upper reflector and convex transitional lens producing even distribution without pixilation
- Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded
- Quick disconnect allows for tool-less replacement of LED engine from below ceiling

Vividtune

- W2N: L70 55,000 hours
- D2W™** - dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.
- W2N** - Tunable white CCT range 2700K to 6500K or 2000K to 5000K, 90 CRI. Standard
- BioUp** - Tunable white CCT range 2700K to 5000K Provides the biological effectiveness of natural sunlight, with color temperatures that are more comfortable for indoor environments

Driver

- Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%
- Optional 120V leading edge/0-10V, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem
- Driver can be serviced from above or through the aperture
- Distributed low voltage power system combines power, lighting, and controls with ease of installation.
- Optional magnetically guided snap in driver for ease of maintenance.

Emergency Option

- Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch
- Available Self-Test (self-diagnostic) with remote charge indicator and test switch
- Emergency Transfer Relay Device bypasses local control during a power outage
- UL 924 listed
- EM14RSD with simplified battery replacement and self diagnostics

Connected Lighting System

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

WaveLinx PRO Tilemount Sensor Kit

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

WaveLinx PRO Wireless Node

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

WaveLinx LITE Tilemount Sensor Kit

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

WaveLinx LITE Wireless Node

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

WaveLinx Tilemount Sensor Kits Application

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

Code Compliance

- Thermally protected
- cULus Certified to UL 1598 / C22.2 No. 250.0 suitable for wet locations with downlight and lens wall wash; damp location with open wall wash with covered ceiling
- IP66 rated when used with IP66 gasket kit accessory
- Use IP66 gasket with non conductive reflector for steam room applications up to 2000 lumens and 40°C.
- Optional City of Chicago environmental air (CCEA) marking for plenum applications
- FCC CFR Title 47 Part 15 Class B at 120VAC and Class A at 277VAC
- Insulated ceiling (IC) rated up to 800 lumens (D2W); 1000 lumens (W2N). All others are non-IC rated (insulation must be kept 3" from top and sides of housing).
- Can be used for State of California Title 24 high efficacy LED compliance under JA8, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2016 JA8 High Efficacy Lighting
- RoHS compliant
- Photometric testing completed in accordance with IES LM-79
- LED life testing completed in accordance with IES LM-80-08 and TM-21-11 standards
- See table on page 3 for marked spacing requirements

Warranty

- Five year warranty www.cooperlighting.com/legal

Marked Spacing

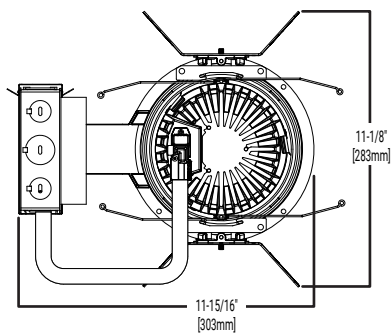
6-inch Marked spacing for D2W			
Lumens	Center to Center of Adjacent Luminaire (inches)	Center Luminaire to Building Side Member (inches)	Minimum Overhead Height (inches)
7000	36	18	8

6-inch Marked spacing for W2N			
Lumens	Center to Center of Adjacent Luminaire (inches)	Center Luminaire to Building Side Member (inches)	Minimum Overhead Height (inches)
3500	36	18	6
4000-5000	36	18	8

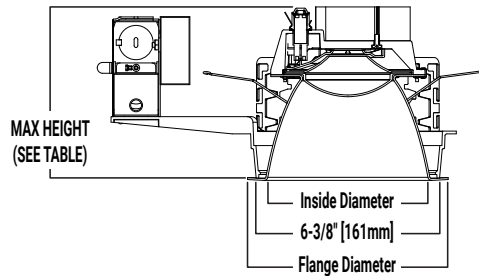
6-inch Marked spacing for BioUp			
Lumens	Center to Center of Adjacent Luminaire (inches)	Center Luminaire to Building Side Member (inches)	Minimum Overhead Height (inches)
2500	36	18	6
3000-4000	36	18	8

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

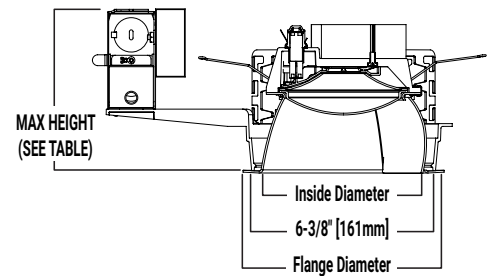
Dimensional and Mounting Details



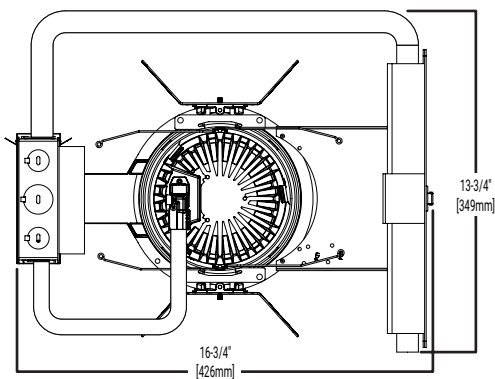
DOWNLIGHT



WALL WASH



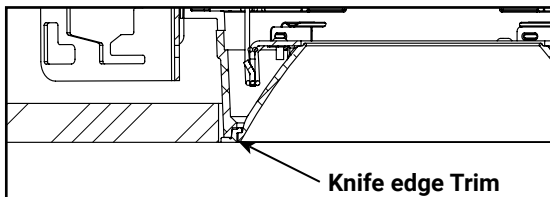
Emergency Option



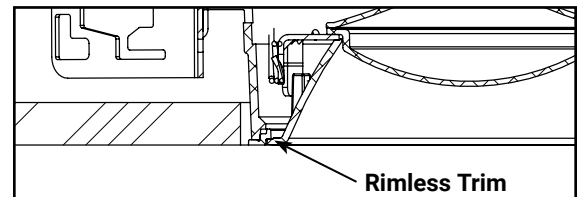
Trim with E option



Trim with EM6 option



Knife edge Trim



Rimless Trim

CATALOG #	VIVIDTUNE		MAX HEIGHT								
			D2W			W2N			BIOUP		
	Flange DIAMETER or WIDTH [IN]	INSIDE DIAMETER [IN]	800-2500 LUMENS	3500, 4500 LUMENS	7000 LUMENS	1000-3000 LUMENS	3500 LUMENS	4000-5000 LUMENS	800-2000 LUMENS	2500 LUMENS	3000-4000 LUMENS
6LBN	6.94	5.54	5.9	7.1	9.1	5.9	7.1	9.1	5.9	7.1	9.1
6LBM	6.94	5.54	5.9	7.1	9.1	5.9	7.1	9.1	5.9	7.1	9.1
6LBW	6.94	5.56	5.6	6.2	8.2	5.6	6.2	8.2	5.6	6.2	8.2
6LBBA	6.94	5.56	5.9	7.1	9.1	5.9	7.1	9.1	5.9	7.1	9.1
6LBMD	6.94	5.55	6.9	8	10	6.9	8	10	6.9	8	10
6LBHY	6.94	5.68	6	7.2	9.2	6	7.2	9.2	6	7.2	9.2
6LBS	6.94	5.62	5.6	5.6	6.7	5.6	5.6	6.7	5.6	5.6	6.7
6LBPS	6.94	5.66	5.6	5.6	6.7	5.6	5.6	6.7	5.6	5.6	6.7
6LBCS	6.94	5.66	5.6	5.6	6.7	5.6	5.6	6.7	5.6	5.6	6.7
6LBSWN	6.94	5.56	5.6	6.2	8.2	5.6	6.2	8.2	5.6	6.2	8.2
6LBDWN	6.94	5.56	5.6	6.2	8.2	5.6	6.2	8.2	5.6	6.2	8.2
6LBCW	6.94	5.14	5.6	6.3	8.3	5.6	6.3	8.3	5.6	6.3	8.3
6LBLSWW	6.94	5.56	5.6	6.2	8.2	5.6	6.2	8.2	5.6	6.2	8.2
6LBLDWW	6.94	5.56	5.6	6.2	8.2	5.6	6.2	8.2	5.6	6.2	8.2

Energy and Performance Data

D010 DRIVER ENERGY DATA

Series	800 lumen		1000 lumen		1500 lumen		2000 lumen		2500 lumen		3000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.085	0.041	0.084	0.042	0.135	0.063	0.189	0.084	0.276	0.121	0.276	0.121
Input Power (W)	10.15	10.52	10.04	10.43	16.17	16.56	22.58	22.63	32.98	32.57	32	32.57
In-rush (A)	3.6	8.3	3.6	8.4	2.3	9.5	2.1	9.7	2.5	11.8	3.6	11.8
Inrush duration (µs)	220	135	226	136	230	125	243	132	215	111	220	111
THDi (%)	5.57	9.63	7.78	9.24	4.75	9.93	8.03	7.44	9.86	6.57	5.57	6.57
PF	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.97	≥ 0.99	≥ 0.99

Series	3500 lumen		4000 lumen		4500 lumen		5000 lumen		7000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.333	0.152	0.404	0.181	0.421	0.192	0.491	0.216	0.632	0.292
Input Power (W)	39.83	39.84	48.38	47.94	50.22	50.17	58.69	58.01	75.56	75.85
In-rush (A)	3.1	14.3	3.1	14.5	5.6	22.6	5.6	22.6	6.4	29.1
Inrush duration (µs)	200	94	197	95	215	120	213	135	187	90
THDi (%)	4.25	10.05	5.02	7.97	6.12	8.35	8.51	7.92	4.84	10.32
PF	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.94

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

Sound Rating: Class A standards

Notes:

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

Beam Angles

Trim	Beam Angle
6LBMH	MEDIUM 60° BEAM (H)
6LBMLI	MEDIUM 55° BEAM (LI)
6LBNH	NARROW 55° BEAM (H)
6LBNLI	NARROW 30° BEAM (LI)
6LBSH	SHALLOW 85° BEAM (H)
6LBSLI	SHALLOW 70° BEAM (LI)
6LBWH	WIDE 80° BEAM (H)

Trim	Beam Angle
6LBWLI	WIDE 80° BEAM (LI)
6LBSWNLI	SINGLE WALL WASH (LI)
6LBLSWWH	LENSED WALL WASH (H)
6LBLSWWLI	LENSED WALL WASH (LI)
6LBMDH	MEDIUM BEAM 45° CUTOFF 50° BEAM (H)
6LBMDLI	MEDIUM BEAM 45° CUTOFF 50° BEAM (LI)

Connected Systems



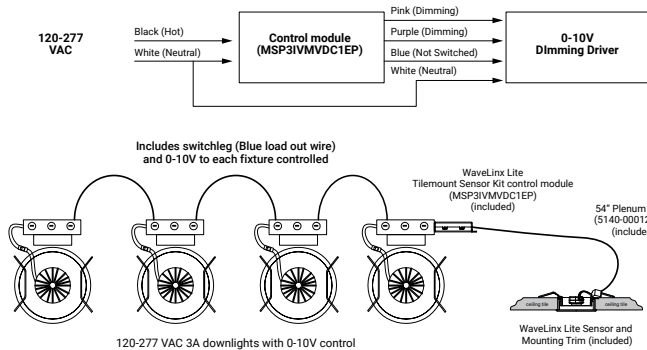
WaveLinX LITE - WLST Tilemount Sensor

WaveLinX LITE devices only compatible with the WaveLinX LITE system.

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



WaveLinX LITE WLST Tilemount Wiring Diagram



WaveLinX LITE Bluetooth Enabled System

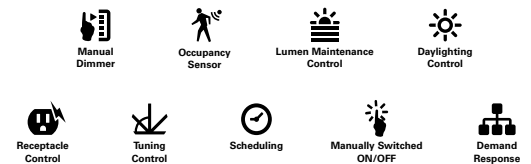


WaveLinX PRO Wireless – WPST Tilemount Sensor

WaveLinX PRO devices only compatible with the WaveLinX PRO system.

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

WaveLinX mobile app settings



Downlights with tilemount sensor wireless communication
Highly efficient LED fixtures



WaveLinX Area Controller
Provides centralized coordination of multiple area control options

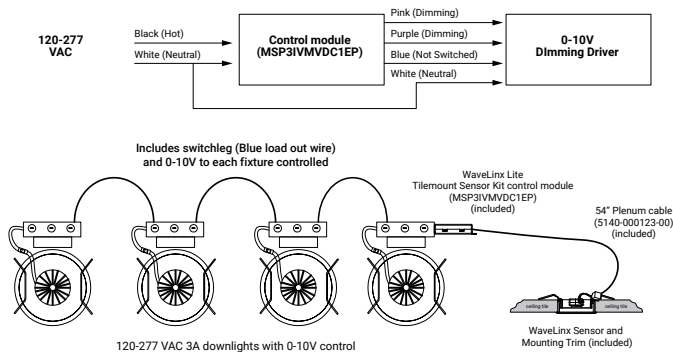


Wireless Wall Station/Receptacle
Provides customized wireless control of each area

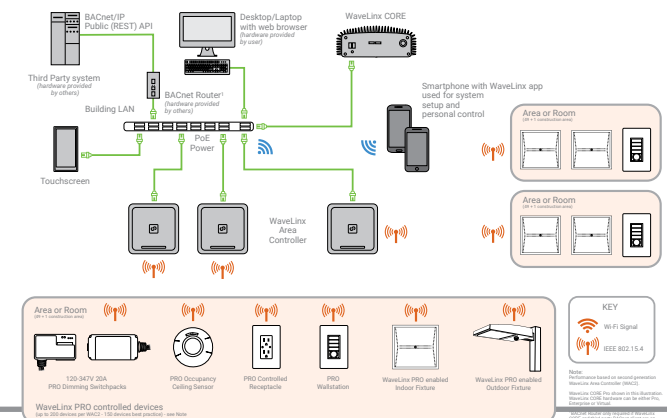


Mobile Applications
Provides personalized, local control from a tablet or smartphone

WaveLinX PRO WPST Tilemount Wiring Diagram



WaveLinX CORE Building Management Integration



Connected Solutions



WaveLinX LITE Wireless Node - WLN

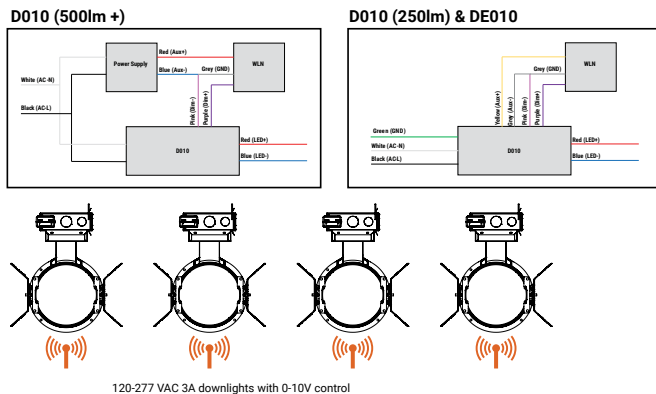
WaveLinX LITE devices only compatible with the WaveLinX LITE system.

- 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



WaveLinX LITE Wireless Node (WLN) Wiring Diagram



WaveLinX LITE Bluetooth Enabled System

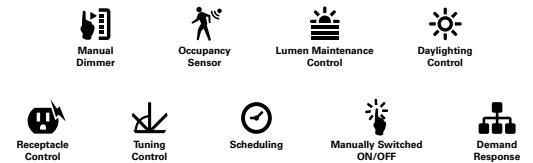


WaveLinX PRO Wireless Node - WPN

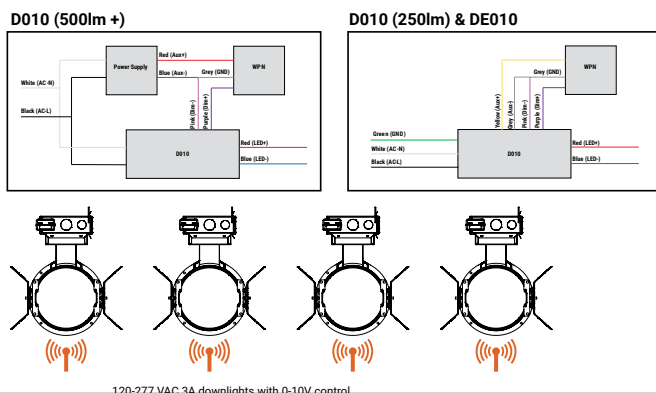
WaveLinX PRO devices only compatible with the WaveLinX PRO system.

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

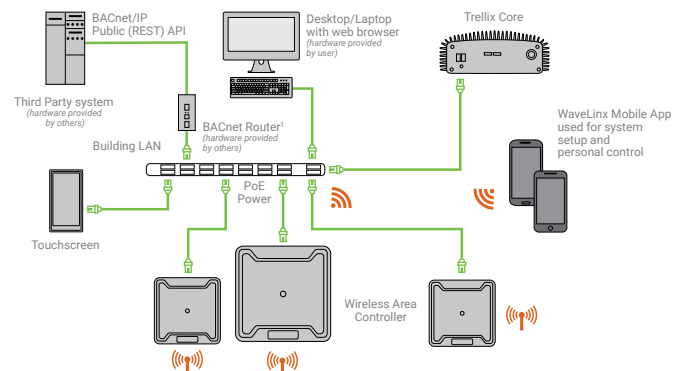
WaveLinX mobile app settings



WaveLinX PRO Wireless Node (WPN) Wiring Diagram



WaveLinX CORE Building Management Integration



Proven Research. Industry Recognized.

BioUp

Melanopic Lighting



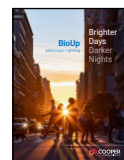
See better



Feel better



Function better



See [BioUp brochure](#) for more details



ANSI/IES RP-46-23

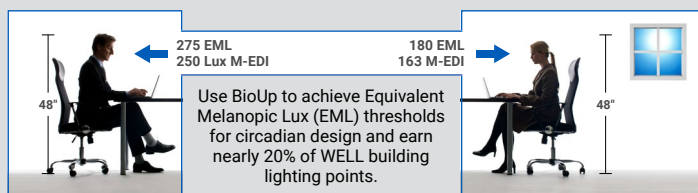
RECOMMENDED PRACTICE:
SUPPORTING THE PHYSIOLOGICAL
AND BEHAVIORAL EFFECTS
OF LIGHTING IN INTERIOR
DAYTIME ENVIRONMENTS
AN AMERICAN NATIONAL STANDARD

ANSI/IES RP-46-23
/ TM18 published
March 2024 based
on over 40 years of
research.

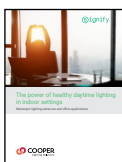
"...circadian clock synchronization is paramount to the body's efficient and appropriate functioning." – TM18



BioUp solutions maximize WELL points for Circadian Lighting Design (L03):



MDER, M-EDI and EML are key metrics used to quantify non-visual performance of indoor lighting systems.

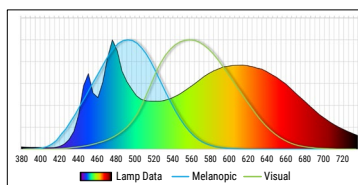
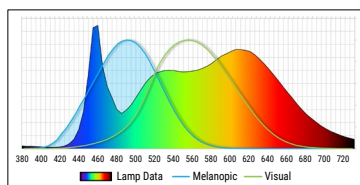


See [BioUp white paper](#) for more details

MDER - Melanopic Daylight Efficacy Ratio (MDER) measures the amount of light stimulating to the melanopsin receptors.

Standard 4000K LED
MDER = .62

BioUp 4000K LED
MDER = .82



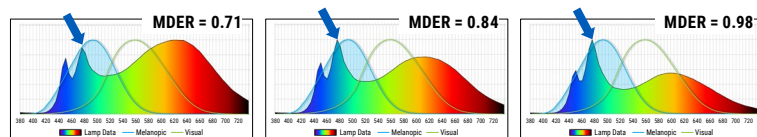
30% boost Biological impact compared to traditional LED sources

CCT	LED @ ~83 CRI	BioUp Static		BioUp Dynamic	
		MDER	CRI	MDER	CRI
2700K	0.45	-	-	0.43	95
3000K	0.50	-	-	0.57	94
3500K	0.57	0.71	90	0.71	90
4000K	0.65	0.84	87	0.84	87
5000K	0.79	1.00	84	1.00	84

BioUp enhances the LED spectrum with cyan light at 475nm increasing the biological impact of the light to enhance our circadian rhythm which regulates our sleep/wake cycle, daytime engagement, and mood – **all without distorting visual color impression.**

Static (non-tunable)

Static BioUp is used when simple Melanopic Lighting is desired at all times.



3500K

or 4000K

or 5000K

Cyan light component always present

Dimming Control

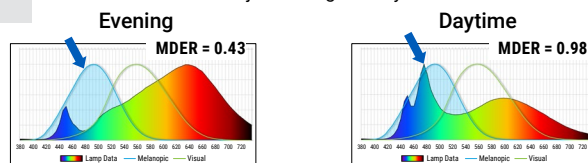


> no CCT control needed

Arrow in graph shows BioUp spectrum boost is at 475nm where non-visual biological response is enhanced.

Dynamic - (Tunable)

Dynamic BioUp is used when Melanopic Lighting is desired to adjust during the day.



Warmer CCT Without Cyan content

Cooler Light With Cyan content

2700K – 5000K

CCT Control

Dimming Control



> Control with Wavelinx, 2ch 0-10V, or DALI

Portfolio

LD6C | EU6C | 6LB - VividTune & BioUp

Multi-line Order Information

SAMPLE ORDER NUMBER: **LD6C10D010TRIEM14**

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

 **Single line Ordering Information Option**

Domestic Preferences ⁽¹⁾	Housing	Lumens ⁽²⁾			Color Control
[Blank] =Standard BAA =Buy American Act TAA =Trade Agreements Act	LD6C =LED Downlight 6-inch Nominal Aperture LD6CCP =LED Downlight 6-inch Nominal Aperture, Chicago Plenum	08 =800 lumens 10 =1000 lumens 15 =1500 lumens 20 =2000 lumens	25 =2500 lumens ⁽³⁾ 30 =3000 lumens ⁽³⁾ 35 =3500 lumens ⁽³⁾ 40 =4000 lumens ⁽³⁾	45 =4500 lumens ⁽³⁾ 50 =5000 lumens ⁽³⁾ 70 =7000 lumens ⁽³⁾	Blank =W2N or BioUp D2W =Dim to warm (see drivers section for available lumens)

Voltage	Driver	Driver Options	Options ⁽⁶⁾ ⁽²⁹⁾ ⁽³⁰⁾
Dim-to Warm Blank =120-277V 800-2500 lumens 1=120V (2 drivers) 3500-4500 lumens (3 drivers) 7000 lumens (integral driver only) 2=277V (2 drivers) 3500-4500 lumens (3 drivers) 7000 lumens (integral driver only) 3=347V (D010 driver 800-2500 lumens) 3500 and above use step down transformer	Dim-to Warm D010 =0-10V 1% dimming D010TR =0-10V or (120V) phase cut 1% dimming DE010 =0-10V linear 0.1% dimming DSL =DALI T6 Logarithmic 0.1% Dimming DMX =DMX/RDM Logarithmic 0.1% Dimming ⁽⁵⁾ DMXC5 =DMX/RDM Logarithmic 0.1% Dimming with RJ45 connection ⁽⁵⁾ DLE =Lutron Ecosystem 1-100% dimming DLV =Low voltage dimming 1-100% for use with DLVP system ⁽⁶⁾	Blank =Integral driver R =Remote driver (order remote driver separately) ⁽⁶⁾ PD =Plug in Driver ⁽⁶⁾	EMBOD =Bodine® Emergency Module with Remote Test Switch ⁽¹⁰⁾ EMBOD6ST =Bodine® 6W Self Test Emergency Module with Remote Test Switch EM7 =7W Emergency Module with Remote Test Switch EM14 =14W Emergency Module with Remote Test Switch EM14RSD =14W Self Diagnostic Replaceable Emergency Battery Pack with Integral Test Switch EMBOD7ST =Bodine® Self Test Emergency Module ⁽¹⁰⁾ IEMBOD =Bodine® Emergency Module with Integral Test Switch ⁽¹⁰⁾ ⁽²²⁾ IEM7 =7W Emergency Module with Integral Test Switch ⁽²²⁾ IEM14 =14W Emergency Module with Integral Test Switch ⁽²²⁾ IEM14RSD =14W Self Diagnostic Replaceable Emergency Battery Pack with Remote Test Switch ⁽²²⁾ IEMBOD6ST =Bodine® 6W Self Test Emergency Module with Integral Test Switch ⁽¹⁴⁾ EMV7 =7W Low Voltage Emergency Module with Remote Test Switch ⁽⁷⁾ EMV14 =14W Low Voltage Emergency Module with Remote Test Switch ⁽⁷⁾ ETRD =Emergency transfer device ⁽³¹⁾ WPST =Factory installed Wavelinx PRO Sensor Kit ⁽¹¹⁾ ⁽¹³⁾ WLST =Factory installed Wavelinx LITE Sensor Kit ⁽¹¹⁾ ⁽¹²⁾ WPN = Wavelinx PRO Wireless Node without Sensor ⁽¹⁵⁾ ⁽³⁷⁾ WLN = Wavelinx LITE Wireless Node without Sensor (not compatible with Tuneable White) ⁽³⁶⁾ ⁽³⁷⁾
Tunable White Blank =1000 lumens 1=120V 1500-5000 lumens (2 drivers w/4000-5000 lumens) (integral driver only) 2=277V 1500-5000 lumens (2 drivers w/4000-5000 lumens) (integral driver only) 3=347V Step down transformer (Limited to 1000 lumens with remote driver)	Tunable White DE010W2N2765 =0-10V 0.1% Dimming, 2700-6500K DE010W2N2050 =0-10V 0.1% Dimming, 2000-5000K DSLW2N2765 =DALI T6 0.1% Dimming, 2700-6500K DSLW2N2050 =DALI T6 0.1% Dimming, 2000-5000K		
BioUp Tunable White Blank =800 lumens 1=120V 1000-4000 lumens (2 drivers w/3000-4000 lumens) (integral driver only) 2=277V 1000-4000 lumens (2 drivers w/3000-4000 lumens) (integral driver only) 3=347V Step down transformer (Limited to 800 lumens with remote driver)	BioUp Tunable White DE010B2750 =0-10V 0.1% dimming, tunable white 2700-6500K DE010B35 = 0-10V 0.1% dimming, static white 3500K DE010B40 = 0-10V 0.1% dimming, static white 4000K DE010B50 = 0-10V 0.1% dimming, static white 5000K DSLTB2750 =DALI T6 0.1% dimming, tunable white 2700-6500K DSLTB35 = DALI T6 0.1% dimming, static white 3500K DSLTB40 = DALI T6 0.1% dimming, static white 4000K DSLTB50 = DALI T6 0.1% dimming, static white 5000K		

SAMPLE ORDER NUMBER: **EU6C10259035**

Domestic Preferences ⁽¹⁾	Power Module	Lumen Levels ⁽²⁾	Color
[Blank] =Standard BAA =Buy American Act TAA =Trade Agreements Act	EU6C =6-inch Universal LED Module	BioUp Tunable white 0820B =800, 1000, 1500, 2000 lumens ⁽³³⁾ 2500B =2500 lumens ⁽³⁾ 3040B =3000, 3500, 4000 lumens ⁽³⁾ Dim 2 Warm 08259030D2W =800-2500 lumen, 90 CRI, Dim 2 Warm (1 driver and 1 LED) ⁽³³⁾ 35459030D2W =3500-4500 lumen, 90 CRI, Dim 2 Warm (2 drivers and LEDs) 709030D2W =7000 lumens, 90 CRI, Dim 2 Warm (3 drivers and LEDs) ⁽³⁾ Tunable white 1030W2N902765 =1000, 1500, 2000, 2500, 3000 lumens, 90 CRI, tunable white 2700K-6500K ⁽³⁴⁾ 1030W2N902050 =1000, 1500, 2000, 2500, 3000 lumens, 90 CRI, tunable white 2000K-5000K ⁽³⁴⁾ 35W2N902765 =3500 lumens, 90 CRI, tunable white 2700K-6500K ⁽³⁾ 35W2N902050 =3500 lumens, 90 CRI, tunable white 2000K-5000K ⁽³⁾ 4050W2N902765 =4000, 4500, 5000 lumens, 90 CRI, tunable white 2700K-6500K (2 drivers and LEDs) ⁽³⁾ 4050W2N902050 =4000, 4500, 5000 lumens, 90 CRI, tunable white 2000K-5000K (2 drivers and LEDs) ⁽³⁾	35 = Static 3500K 40 =Static 4000K 50 =Static 5000K 2750 =BioUp Tunable White 2700K-5000K

Multi-line Order Information

SAMPLE ORDER NUMBER: 6LBM2H

Domestic Preferences ⁽¹⁾	Trim	Reflector	Flange	Finish	Options	
[Blank] =Standard BAA =Buy American Act	6LB =6-inch LED	N =Narrow, Spun Aluminum ⁽⁸⁾ M =50° Cutoff, Medium Beam Reflector, Spun Aluminum MD =45° Cutoff, Medium Beam Reflector, Spun Aluminum W =Wide, Spun Aluminum S =Shallow, Spun Aluminum HY =Hyperbolic medium beam ⁽⁶⁾ PS =Non-Conductive Shallow (dead front), white ⁽¹⁶⁾ ⁽¹⁷⁾ CS =Cast Shallow, Die Cast Aluminum BA =Spun Aluminum Baffle ⁽²⁴⁾	Wall Wash SWN =Single wall wash, spun aluminum DWN =Double wall wash, spun aluminum CW =Corner wall wash, spun aluminum MDSW =45° Cutoff, Single Wall Wash, Spun Aluminum MDDW = 45° Cutoff, Double Wall Wash, Spun Aluminum LSWW =Lensed single wall wash, spun aluminum LDWW =Lensed double wall wash, spun aluminum	0 =White polymer trim ring 1 =Self flanged ⁽¹⁸⁾ 2 =White painted self flanged 4 =Knife edge rimless use with die cast only ⁽¹⁹⁾	LI =Specular Clear ⁽²⁰⁾ H =Semi-Specular Clear ⁽²⁰⁾ WMH =Warm Haze ⁽²⁰⁾ WH =Wheat ⁽²⁰⁾ GPH =Graphite Haze ⁽²⁰⁾ B =Specular Black ⁽²⁰⁾ MW =Matte White MB =Matte Black ⁽²¹⁾ MMS =Matte Metallic Silver ⁽²¹⁾	E =Integral Emergency Test Switch Hole ⁽²²⁾ For use with IEM EM6 =Integral Emergency Test Switch Hole ⁽⁴⁾ For use with IEMB06ST: • Available with narrow (N), medium (M) and medium 45° (MD), Shallow (S).

REQUIRED if Remote Driver (R) is specified

SAMPLE ORDER NUMBER: RC10010D010TREM7

Domestic Preferences ⁽¹⁾	Remote Drivers ⁽⁶⁾	Lumens ⁽²⁾ ⁽¹⁴⁾	Color Control
[Blank]=Standard TAA=Trade Agreements Act	RC100 =Remote 100ft RC75 =Remote 75ft RC50 =Remote 50ft RC25 =Remote 25ft RC15 =Remote 15ft RC5 =Remote 5ft RC2 =Remote 2ft	08 =800 lumens 10 =1000 lumens 15 =1500 lumens 20 =2000 lumens 25 =2500 lumens 30 =3000 lumens 35 =3500 lumens 40 =4000 lumens 45 =4500 lumens 50 =5000 lumens 70 =7000 lumens	[Blank] =W2N or BioUp D2W =Dim to warm

Voltage	Driver	Options ⁽¹⁰⁾ ⁽³⁰⁾ ⁽³²⁾
Dim-to Warm Blank =120-277V 800-2500 lumens 3 =347V (D010 driver 800-2500 lumens)	Dim-to Warm D010 =0-10V 1% dimming D010TR =0-10V or (120V) phase cut 1% dimming DE010 =0-10V linear 0.1% dimming D5LT =DALI T6 Logarithmic 0.1% Dimming DMX =DMX/RDM Logarithmic 0.1% Dimming ⁽⁵⁾ DMXC5 =DMX/RDM Logarithmic 0.1 % Dimming with RJ45 connection ⁽⁵⁾ DLE =Lutron Ecosystem 1-100% dimming DLVP =Low voltage dimming 1-100% for use with DLVP system ⁽⁶⁾	EMBOD =Bodine® Emergency Module with Remote Test Switch ⁽¹⁰⁾ EMBOD6ST =Bodine® 6W Self Test Emergency Module with Remote Test Switch EM7 =7W Emergency Module with Remote Test Switch EM14 =14W Emergency Module with Remote Test Switch EMBOD7ST =Bodine® Self Test Emergency Module with Remote Test Switch ⁽¹⁰⁾ EMV7 =7W Low Voltage Emergency Module with Remote Test Switch ⁽⁷⁾ EMV14 =14W Low Voltage Emergency Module with Remote Test Switch ⁽⁷⁾ ETRD =Emergency transfer device ⁽³¹⁾ WPST =Factory installed Wavelinx PRO Sensor Kit ⁽¹¹⁾ ⁽¹³⁾ WLST =Factory installed Wavelinx LITE Sensor Kit ⁽¹¹⁾ ⁽¹²⁾ WPN = WaveLinX PRO Wireless Node without Sensor ⁽¹⁵⁾ ⁽²⁷⁾ WLN = WaveLinX LITE Wireless Node without Sensor (not compatible with Tuneable White) ⁽³⁶⁾ ⁽²⁷⁾
Tunable White Blank =1000 lumens 3 =347V Step down transformer (Limited to 1000 lumens)	Tunable White DE010W2N2765 =0-10V 0.1% Dimming, 2700-6500K DE010W2N2050 =0-10V 0.1% Dimming, 2000-5000K D5LTW2N2765 =DALI T6 0.1% Dimming, 2700-6500K D5LTW2N2050 =DALI T6 0.1% Dimming, 2000-5000K	
BioUp Tunable White Blank =800 lumens 3 =347V Step down transformer (Limited to 800 lumens)	BioUp Tunable White DE010B2750 =0-10V 0.1% dimming, tunable white 2700-6500K DE010B35 = 0-10V 0.1% dimming, static white 3500K DE010B40 = 0-10V 0.1% dimming, static white 4000K DE010B50 = 0-10V 0.1% dimming, static white 5000K D5LTB2750 =DALI T6 0.1% dimming, tunable white 2700-6500K D5LTB35 = DALI T6 0.1% dimming, static white 3500K D5LTB40 = DALI T6 0.1% dimming, static white 4000K D5LTB50 = DALI T6 0.1% dimming, static white 5000K	

Multi-line Order Information

Accessories (Order separately) ⁽²⁵⁾		
TRM6P =White metal trim ring ⁽²⁵⁾ LGSKT6IP66 =IP66 Gasket Kit DT6RF =6 inch frosted acrylic ring ⁽²⁸⁾ PRR6 =Rimless Plaster Ring ⁽²⁶⁾ RKP6 =Knife Edge plaster Ring ⁽²⁷⁾ RPM6MW =Rimless Millwork Ring, Matte White ⁽²⁶⁾ RPM6MB =Rimless Millwork Ring, Matte Black ⁽²⁶⁾ RKM6MW =Knife Edge Millwork Ring, Matte White ⁽²⁷⁾ RKM6MB =Knife Edge Millwork Ring, Matte Black ⁽²⁷⁾	HSA6 =Slope Adapter for 6" Aperture Housings, Specify Slope ⁽³⁵⁾ Connected Lighting Systems ^{(6) (11)} WPST =Field installed WaveLinX PRO Sensor Kit ⁽¹³⁾ WLST =Field installed WaveLinX LITE Sensor Kit ⁽¹²⁾ Transformers H347 =H347 for 98CRI 4000 lumens and below; D2W 4500 lumens and below; W2N 4000 lumens and below	Bar Hangers BAA-HB26 =C-channel Bar Hanger, 26" Long, Pair ⁽¹⁾ TAA-HB26 =C-channel Bar Hanger, 26" Long, Pair ⁽¹⁾ HB26 =C-channel Bar Hanger, 26" Long, Pair HB50 =C-channel Bar Hanger, 50" Long, Pair RMB22 =Wood Joist Bar Hanger, 22" Long, Pair

Notes:
1. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analysed under domestic preference requirements. Offered with spun aluminum narrow (N), medium (M) and wide (W) trims.
2. Nominal Lumens will vary depending on selected color, driver and reflector finish.
3. Product is marked spacing. [Reference table on page 4 for the spacing details.](#)
4. Required for use with EM6. Not offered with remote driver.
5. DMX fixtures default to full on upon loss of DMX signal.
6. Not available with Chicago Plenum.
7. ULus listed only
8. Offered up to 2500 lumens with D2W and 3500 with W2N
10. Not available for W2N
11. Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver.
12. WLST=WaveLinX LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX LITE system

specifications)
13. WPST=WaveLinX PRO wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
14. IC rated up to 2500 lumens for D2W, 1000 lumens for W2N, and 800 lumens for BioUp
15. 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 D010 or DE010 drivers only.
16. PS available in self-flanged MW finish only
17. Offered up to 2000 lumens
18. Flange is the same finish as the reflector
19. Requires knife edge ring accessory.
20. Anodized or spun reflectors
21. Die cast only
22. Available with narrow (N), medium (M) and medium 45 degree (MD) Spun Aluminum trims. Required for use with all IEMBOD, IEM7, IEM14, IEMV7 and IEMV14 housings. Not offered with remote driver.
24. Black or white paint.
25. Accessories sold separately will be separately analyzed under domestic

preference requirements. Consult factory for further information.
26. Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
27. Order die cast trim with flange type 4
28. Order with self flanged trim.
29. If using remote driver order battery and controls with the remote driver.
30. 120V-277V
31. Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others)
32. Non-IC
33. IC rated for 800 lumens
34. IC rated for 1000 lumens
35. Not recommended for use with Wall Wash
36. 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.
37. Not compatible with 347V or Chicago plenum.