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



Downlight



Wall Wash

Portfolio

LD6C | EU6C | 6LB

6” Round, New Construction Downlight
Narrow, Medium, Wide Beam or Wall Wash
250-15,000 Lumens

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
- Photometric Data page 7
- Connected System page 13
- Product Limited Warranty

Product Certification*

ENERGY STAR · Efficiency Standards T24 · RoHS COMPLIANT · UL CERTIFIED · wet location

Control Compatibility

WaveLinx LITE · WaveLinx PRO

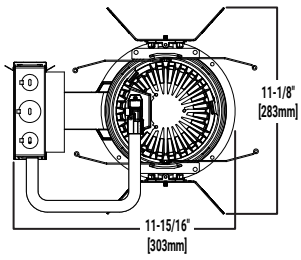
Product Features

powered by fifthlight technology · Showerlight · Chicago Plenum Rated · BAA Buy American Act Available · TAA Trade Agreements Act Available

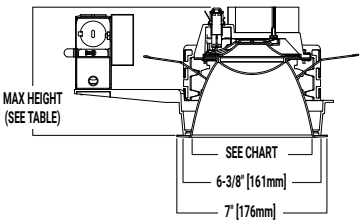
Top Product Features

- 250-15,000 lumens; Offered in 90 and 97 CRI; ENERGY STAR® qualified
- Optional snap in driver for ease of replacement
- Standard 0-10V driver dims to 1%
- 2400K, 2700K, 3000K, 3500K, 4000K, 5000K; D2W™ option from 3000K to 1850K
- Available W2N tunable white CCT range 2700K to 6500K or 2000K to 5000K
- Options to meet Buy American and other domestic preference requirements

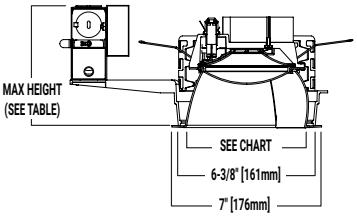
Dimensional and Mounting Details



DOWNLIGHT



WALL WASH





DT6RF=6 inch frosted acrylic ring
See Accessories for Ordering

CLICK HERE dimension information

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

Single Line Order Information

Multi-line Ordering Information Option

SAMPLE ORDER NUMBER: **LD6C109030D010TRM1HEM7**

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.

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	**02** = 250 lumens, IC rated **05** = 500 lumens, IC rated **08** = 800 lumens, IC rated **10** = 1000 Lumens **10IC** = 1000 Lumens, IC rated **15** = 1500 Lumens **15IC** = 1500 Lumens, IC rated **20** = 2000 Lumens **25** = 2500 lumens **30** = 3000 Lumens **35** = 3500 lumens **40** = 4000 Lumens **45** = 4500 Lumens [10] **50** = 5000 Lumens [10] **55** = 5500 Lumens [10] **60** = 6000 Lumens [10] **65** = 6500 Lumens [10] **70** = 7000 Lumens [10] **75** = 7500 Lumens [10] **80** = 8000 Lumens [10] **90** = 9000 Lumens [10] **100** = 10,000 Lumens [10] **110** = 11,000 Lumens [10] **120** = 12,000 Lumens [10] **130** = 13,000 Lumens [10] **150** = 15,000 Lumens [10]	**90**=90 CRI Minimum **97**=97 CRI Minimum	**90 CRI** **24**=2400K **27**=2700K **30**=3000K **35**=3500K **40**=4000K **50**=5000K **97 CRI** **27**=2700K **30**=3000K

Driver	*Specify from Driver column. Information below for reference only.* Remote driver & plug in driver	Driver Options	Hanger Bars
D010=0-10V Dimming, 1% to 100%, 120V-277V, up to 7000 lumens (up to 3000 lumens for remote driver) **1D010**=0-10V Dimming, 1% to 100%, 120V, 7500 lumens & above (3500 to 7000 lumens for remote driver) **2D010**=0-10V Dimming, 1% to 100%, 277V, 7500 lumens & above (3500 to 7000 lumens for remote driver) **3D010**=0-10V Dimming, 1% to 100%, 347V dedicated drivers, 800-4000 lumens; 250, 500, 4500 & above use step down transformer (250 to 7000 lumens for remote driver)	250-7000	**Blank** = Integral driver **RC100** = Remote 100ft [3] [33] **RC75** = Remote 75ft [3] [33] **RC50** = Remote 50ft [3] [33] **RC25** = Remote 25ft [3] **RC15** = Remote 15ft [3] **RC5** = Remote 5ft [3] **RC2** = Remote 2ft [3] **PD** = Plug in Driver	**Blank** = Without hanger bars **B26** = C-channel Bar Hanger, 26" Long, Pair
D010TR=0-10V (120-277V) or Line Voltage (120V) dimming, 5-100%, 250- 4500 lumens (up to 3000 lumens for remote driver) **1D010TR**=0-10V or Line Voltage Dimming, 5% to 100%, 120V, 5000-9000 & 13,000 lumens (3500 to 4500 lumens for remote driver) **2D010TR**=0-10V Dimming, 5% to 100%, 277V, 5000-9000 & 13,000 lumens (3500 to 4500 lumens for remote driver) **3D010TR**=0-10V Dimming, 5% to 100%, 347V step down transformer, 250-9000 & 13,000 lumens (250 to 4500 lumens for remote driver)	250-4500		
DE010=0-10V Dimming, 0% to 100%, 120V-277V, 500-7000 lumens (up to 3000 lumens for remote driver) **1DE010**=0-10V Dimming, 0% to 100%, 120V, 7500 lumens & above (3500 to 7000 lumens for remote driver) **2DE010**=0-10V Dimming, 0% to 100%, 277V, 7500 lumens & above (3500 to 7000 lumens for remote driver) **3DE010**=0-10V Dimming, 0% to 100%, 347V step down transformer, 500-15,000 lumens (500 to 7000 lumens for remote driver)	500-7000		
D5LT=Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V-277V, 500-7000 lumens (up to 3000 lumens for remote driver) **1D5LT**=Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V, 7500 lumens & above (3500 to 7000 lumens for remote driver) **2D5LT**=Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 277V, 7500 lumens & above (3500 to 7000 lumens for remote driver) **3D5LT**=Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100% 347V step down transformer, 500-15,000 lumens (500 to 7000 lumens for remote driver)	500-7000		
DMX=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, 800-4500 lumens (up to 3000 lumens for remote driver) [14] **1DMX**= DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 5000-9000 & 13,000 lumens (3500 to 4500 lumens for remote driver) [14] **2DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 5000-9000 & 13,000 lumens (3500 to 4500 lumens for remote driver) [14] **3DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-9000 & 13,000 lumens (800 to 4500 lumens for remote driver) [14]	800-4500		
DMXC5=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, 800-4500 lumens, RJ45 Connection (up to 3000 lumens for remote driver) [14] **1DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 5000-9000 & 13,000 lumens, RJ45 Connection (3500 to 4500 lumens for remote driver) [14] **2DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 5000-9000 & 13,000 lumens, RJ45 Connection (3500 to 4500 lumens for remote driver) [14] **3DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-9000 & 13,000 lumens, RJ45 Connection (800 to 4500 lumens for remote driver) [14]	800-4500		
DLE=Lutron Ecosystem dimming 1% to 100%, 120V-277V, 800-3500 lumens (up to 3000 lumens for remote driver) **1DLE**=Lutron Ecosystem dimming 1% to 100%, 120V, 4000-7500 lumens (3500 lumens for remote driver) **2DLE**=Lutron Ecosystem dimming 1% to 100%, 277V, 4000-7500 lumens (3500 lumens for remote driver) **3DLE**=Lutron Ecosystem dimming 1% to 100%, 347V step down transformer, 800-7500 lumens (800-3500 lumens for remote driver)	800-3500		
DLV = Low voltage dimming driver (1-100%) for use with DLVP system 800-3000 lumens [3]	800-3000 (Remote driver only)		

Trim Distribution [5]	Trim Flange	Trim Finish	Options [3] [16] [31]
N=Narrow, Spun Aluminum [26][30] **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][30] **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 **LSWW** = Lensed Single wall wash, Spun Aluminum **LDWW** = Lensed Double wall wash, Spun Aluminum	**0**=White Polymer Trim Ring **1**=Self-flanged [13] **2**=White Painted Self-flanged **4**=Knife edge rimless use with die cast only [8] [23]	**LI**=Specular Clear [9] **H**=Semi-Specular Clear [9] **WMH**=Warm Haze [9] **WH**=Wheat [9] **GPH**=Graphite Haze [9] **B**=Specular Black [9] **MW**=Matte White (Antimicrobial) **MB**=Matte Black [8] **MMS**=Matte Metallic Silver [8]	**EMBOD**=Bodine® Emergency Module with Remote Test Switch [25] **EMBOD6ST**=Bodine® 6W Self Test Emergency Module with Remote Test Switch **EM7**=7W Emergency Module with Remote Test Switch **EM14**=14W Emergency Module with Remote Test Switch **EMBOD7ST**=Bodine® Self Test Emergency Module [25] **IEMBOD**=Bodine® Emergency Module with Integral Test Switch [6] [25] **IEM7**=7W Emergency Module with Integral Test Switch [6] **IEM14**=14W Emergency Module with Integral Test Switch [6] **EMV7**=7W Low Voltage Emergency Module with Remote Test Switch [4] **EMV14**=14W Low Voltage Emergency Module with Remote Test Switch [4] **ETRD**=Emergency transfer device [32] **WPST** = Factory installed Wavelinx (includes control module, sensor, cable, tilemount and ceiling mount sensor) [15] [18] **WLST** = Factory installed WaveLinx LITE Sensor Kit [15] [17] **WPN** = WaveLinx PRO Wireless Node without sensor [20]

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]

PRR6=Rimless Plaster Ring [2]
RKP6=Knife Edge plaster Ring [24]

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]

HSA6=Slope Adapter for 6" Aperture Housings, Specify Slope [34]

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

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

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

Notes:

1. Nominal Lumens will vary depending on selected color, CRI, driver and reflector finish. Reference Multiplier tables.
2. Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
3. Not available with Chicago Plenum.
4. ULus listed only
5. Beam angles are nominal with LI finish trims.
6. Available with narrow (N), medium (M) and medium 45 degree (MD) Spun Aluminum trims. Required for use with all,IEMBOD, IEM7, IEM14,IEMV7 and IEMV14 housings. Not offered with remote driver.
7. Only available with Matte White and Matte Black Finishes.
8. Available only on CS distributions.
9. Not available on PS, CS or BA distributions.
10. Product is marked spacing. Reference table on page 4.
11. PS available in self-flanged MW finish only.
12. Offered up to 2000 lumens
13. Flange is the same finish as the reflector
14. DMX fixtures default to full on upon loss of DMX signal.
15. Refer to system specifications for additional information,features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver.
16. Non-IC
17. WLST = WaveLinx LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx LITE system specifications)
18. WPST = WaveLinx wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
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.
22. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
23. Accessory (Requires knife edge accessory ring)
24. Order die cast trim with flange type 4
25. Not available with 6500-7000 lumens, DLVP up to 3000 lumens
26. Offered with
- D010, D5LT, DE010 up to 7000 lumens
- D010TR, DMX up to 4500 lumens
- DLE, DL2 up to 3500 lumens
29. Order with self flanged trim.
30. Offered with DLVP up to 3000 lumens
31. 120-277V
32. Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others).
33. Not available with Lutron drivers
34. Not recommended for use with Wall Wash

Product Specifications

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

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

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

Plaster Frame/Collar
- Die-cast aluminum 1 ½" deep collar
- Accommodates up to 2" ceiling thickness

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

Junction box
- Four 1/2" and two 3/4" trade size pry outs positioned to allow straight conduit runs
- Lever connectors for simple push in wiring
- Listed for (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
- 90 and 97 CRI
- 90 & 97CRI: L78 55,000 hours for 1000-2000 lumens, L90 55,000 for all other lumen output
- Color variation within 2-step MacAdam ellipses
- Available in 2400K, 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)

Vividtune and High CRI
- 98 CRI and W2N: L70 55,000 hours
- D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.
- W2N - Tunable white CCT range 2700K to 6500K or 2000K to 5000K, 90 CRI. Standard
- **98 CRI** With a full-spectrum approach using broad-blue chip technology and special phosphor blends, Thrive is able to closely match the spectrum of the sun across all color temperatures. Benefits of the natural spectrum of the sun using Thrive include superior accurate color rendering, reduced eye strain, and a higher sense of emotional well-being.
- See dedicated specification sheet for more details.

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

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

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.

Code 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
- IP66 rated when used with IP66 gasket kit accessory
- Use IP66 gasket with non conductive reflector for sauna or 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 1,500 lumens (90 and 97CRI). All others are non-IC rated (insulation must be kept 3" from top and sides of housing).
- Can be used for State of California Title 24 high efficacy LED compliance under JA8, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2016 JA8 High Efficacy Lighting*
- RoHS compliant*
- Photometric testing completed in accordance with IES LM-79
- LED life testing completed in accordance with IES LM-80-08 and TM-21-11 standards
- See table on page 3 for marked spacing requirements

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

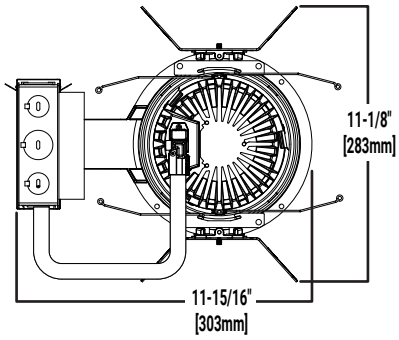
Marked Spacing

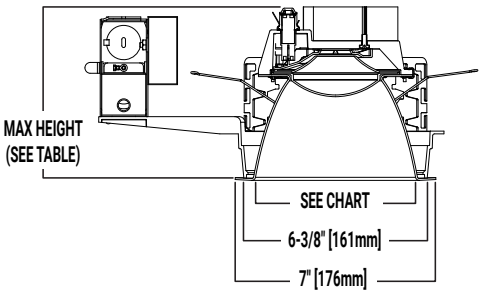
6-inch Marked spacing for 90 and 97 CRI			
4500-6000	36	36	6
6500-15,000	36	36	8

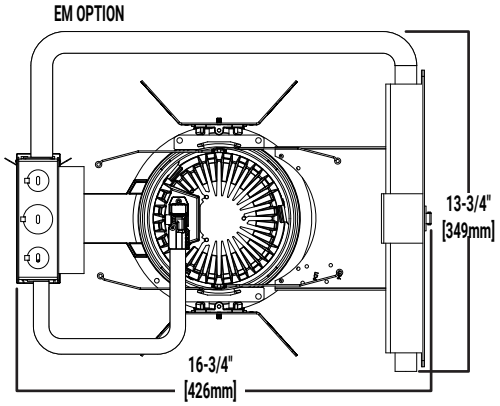
*T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

Dimensional and Mounting Details

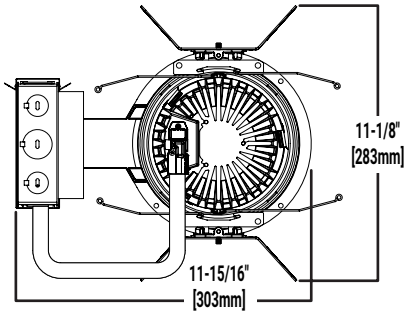
DOWNLIGHT

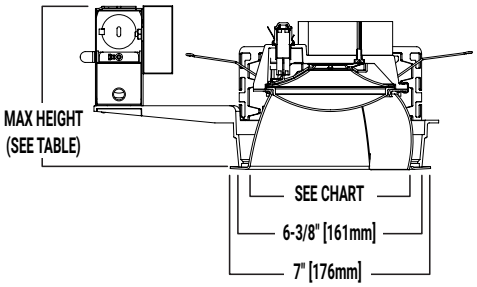


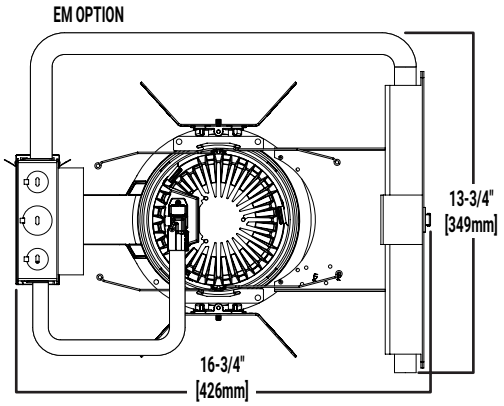


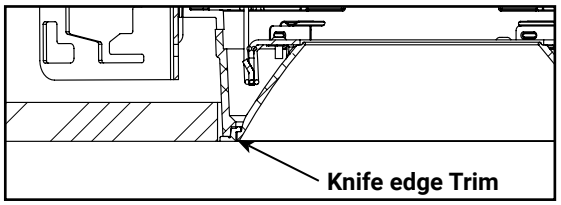


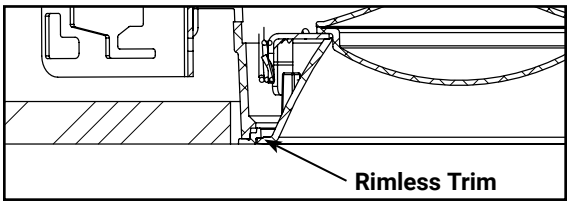
WALL WASH











CATALOG #	INSIDE DIAMETER [IN]	MAX HEIGHT				
		250-2500 LUMENS	3000-4000 LUMENS	1000-1500IC LUMENS	6500-7000 LUMENS	9000-15000 LUMENS
6LBN	5.54	5.7	5.9	6.1	7.1	9.1
6LBM	5.54	5.7	5.9	6.1	7.1	9.1
6LBW	5.56	5.6	5.6	5.6	6.2	8.2
6LBBA	5.56	5.7	5.9	6.1	7.1	9.1
6LBMD	5.55	6.7	6.9	7	8	10
6LBHY	5.68	5.9	6	6.2	7.2	9.2
6LBS	5.62	5.6	5.6	5.6	5.6	6.7
6LBPS	5.66	5.6	5.6	5.6	5.6	6.7
6LBCS	5.66	5.6	5.6	5.6	5.6	6.7
6LBSWN	5.56	5.6	5.6	5.6	6.2	8.2
6LBDWN	5.56	5.6	5.6	5.6	6.2	8.2
6LBCW	5.14	5.6	5.6	5.6	6.3	8.3
6LBLSWW	5.56	5.6	5.6	5.6	6.2	8.2
6LBLDWW	5.56	5.6	5.6	5.6	6.2	8.2

Energy and Performance Data

D010 DRIVER ENERGY DATA

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

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

Series	5500 lumen		6000 lumen		6500 lumen		7000 lumen		7500 lumen		8000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.526	0.231	0.542	0.256	0.572	0.266	0.632	0.292	0.668	0.306	0.734	0.332
Input Power (W)	62.97	61.97	64.88	65.7	68.35	69.02	75.56	75.85	79.89	80.09	88.01	87.81
In-rush (A)	5.1	23.1	6.2	27.5	6.3	28.4	6.4	29.1	6.4	28.7	6.3	29.7
Inrush duration (µs)	217	138	188	101	189	92	187	90	185	100	187	123
THDi (%)	9.42	7.16	4.33	11.86	4.38	11.33	4.84	10.32	4.46	9.85	3.92	8.92
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95

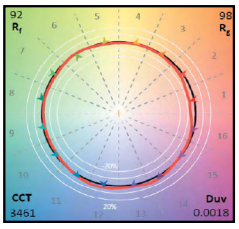
Series	9000 lumen		10000 lumen		11000 lumen		12000 lumen		13,000 lumen		15000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.842	0.374	0.961	0.416	1.09	0.49	1.192	0.512	1.263	0.561	1.446	0.624
Input Power (W)	101.12	99.88	114.86	113.66	130.27	127.6	142.59	140.17	151.68	149.82	172.29	170.51
In-rush (A)	12.9	28.6	11.4	40.3	11.5	40.2	11.5	41.2	19.2	43.1	17.2	40.4
Inrush duration (µs)	170	97	248	124	233	118	246	114	170	97	240	125
THDi (%)	5.74	9.28	7.42	8.55	6.08	13.13	5.7	7.3	5.74	7.58	5.86	8.56
PF	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.98	≥ 0.99	≥ 0.9	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.98

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

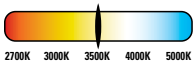
Notes:
Emergency Battery packs are rated for a minimum starting temperature of 0°C.

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

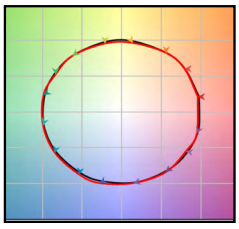
90 CRI Color Metric Summary - 3500K*



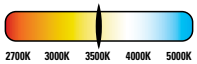
TM-30-15	Rf = 92
	Rg = 98
CRI/CIE	Ra = 92.2
	R9 = 51.4



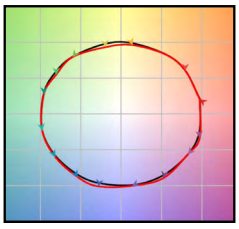
97 CRI Color Metric Summary - 2700K*



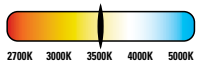
TM-30-15	Rf = 95
	Rg = 99.8
CRI/CIE	Ra = 92.2
	R9 = 85.8



97 CRI Color Metric Summary - 3000K*



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



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

Photometric Data

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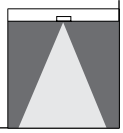
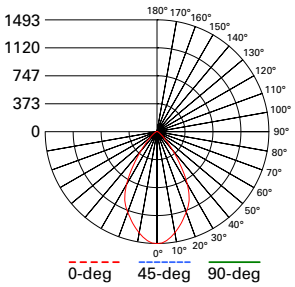
MEDIUM 60° BEAM (H)

Test Number	P571658
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBMH
Lumens	1509
Efficacy	69.2 Lm/W
SC	0.94
UGR	12.5

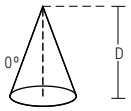


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	93.3	3.6	3.6
7'	30.5	6.4	6.4
9'	18.4	8.4	8.4
13'	8.8	12.2	12.2
16'	5.8	15	15

CANDELA TABLE

Degrees Vertical	Candela
0	1493
5	1461
15	1261
25	1015
35	539
45	177
55	54
65	19
75	6
85	0
90	0

ZONAL LUMEN SUMMARY

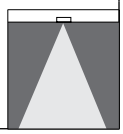
Zone	Lumens	% Fixture
0-30	947	62.8
0-40	1287	85.3
0-60	1482	98.2
0-90	1509	100
90-180	0	0
0-180	1509	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	30591
45	13699
55	5142
65	2516
75	1377
85	0

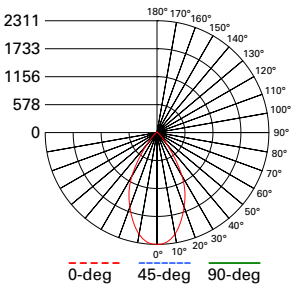
MEDIUM 55° BEAM (LI)

Test Number	P571659
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBMLI
Lumens	1847
Efficacy	84.7 Lm/W
SC	0.85
UGR	1.3

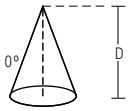


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	144.5	3.2	3.2
7'	47.2	5.8	5.8
9'	28.5	7.6	7.6
13'	13.7	10.8	10.8
16'	9	13.4	13.4

CANDELA TABLE

Degrees Vertical	Candela
0	2311
5	2281
15	1903
25	1364
35	591
45	104
55	9
65	5
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

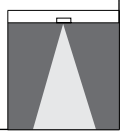
Zone	Lumens	% Fixture
0-30	1359	73.6
0-40	1737	94
0-60	1841	99.7
0-90	1847	100
90-180	0	0
0-180	1847	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	30951
45	8063
55	898
65	623
75	508
85	0

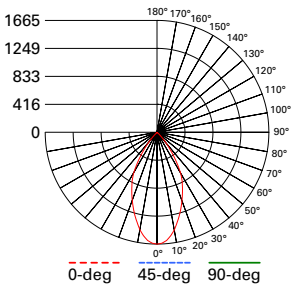
NARROW 55° BEAM (H)

Test Number	P571660
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBNH
Lumens	1299
Efficacy	59.6 Lm/W
SC	0.78
UGR	6.9

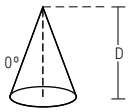


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	104.1	3	3
7'	34	5.4	5.4
9'	20.6	7	7
13'	9.9	10	10
16'	6.5	12.4	12.4

CANDELA TABLE

Degrees Vertical	Candela
0	1665
5	1618
15	1282
25	893
35	438
45	90
55	21
65	7
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

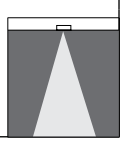
Zone	Lumens	% Fixture
0-30	916	70.5
0-40	1191	91.7
0-60	1289	99.2
0-90	1299	100
90-180	0	0
0-180	1299	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	23572
45	6977
55	2045
65	921
75	508
85	0

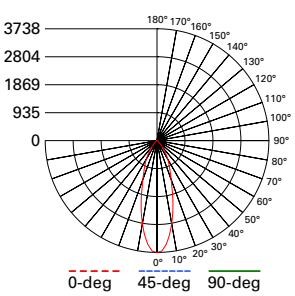
NARROW 30° BEAM (LI)

Test Number	P571661
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBNLI
Lumens	1642
Efficacy	75.3 Lm/W
SC	0.53
UGR	0

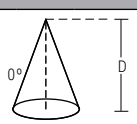


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	233.6	2	2
7'	76.3	3.6	3.6
9'	46.2	4.6	4.6
13'	22.1	6.8	6.8
16'	14.6	8.4	8.4

CANDELA TABLE

Degrees Vertical	Candela
0	3738
5	3483
15	2027
25	973
35	412
45	59
55	5
65	2
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1320	80.4
0-40	1580	96.2
0-60	1639	99.8
0-90	1642	100
90-180	0	0
0-180	1642	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	21389
45	4590
55	459
65	311
75	0
85	0

Photometric Data

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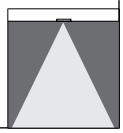
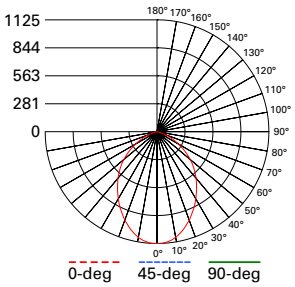
SHALLOW 85° BEAM (H)

Test Number	P571662
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBSH
Lumens	2151
Efficacy	98.7 Lm/W
SC	1.06
UGR	24.9

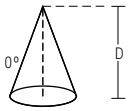


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	70.3	4.2	4.2
7'	23	7.4	7.4
9'	13.9	9.4	9.4
13'	6.7	13.6	13.6
16'	4.4	16.8	16.8

CANDELA TABLE

Degrees Vertical	Candela
0	1125
5	1116
15	1021
25	864
35	694
45	526
55	343
65	168
75	40
85	0
90	0

ZONAL LUMEN SUMMARY

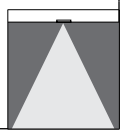
Zone	Lumens	% Fixture
0-30	790	36.7
0-40	1224	56.9
0-60	1936	90
0-90	2151	100
90-180	0	0
0-180	2151	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	45292
45	40764
55	32821
65	21818
75	8536
85	0

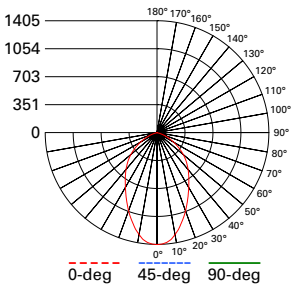
SHALLOW 70° BEAM (LI)

Test Number	P571663
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBSLI
Lumens	2226
Efficacy	102.1 Lm/W
SC	0.91
UGR	24.6

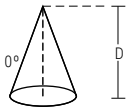


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	87.8	3.6	3.6
7'	28.7	6.2	6.2
9'	17.3	8	8
13'	8.3	11.6	11.6
16'	5.5	14.4	14.4

CANDELA TABLE

Degrees Vertical	Candela
0	1405
5	1383
15	1175
25	913
35	695
45	523
55	338
65	163
75	38
85	0
90	0

ZONAL LUMEN SUMMARY

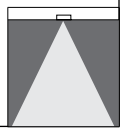
Zone	Lumens	% Fixture
0-30	879	39.5
0-40	1315	59.1
0-60	2019	90.7
0-90	2226	100
90-180	0	0
0-180	2226	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	45256
45	40516
55	32324
65	21170
75	8006
85	0

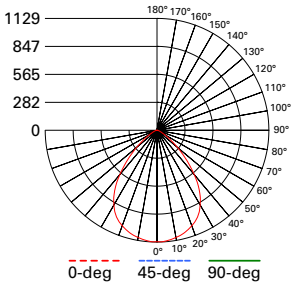
WIDE 80° BEAM (H)

Test Number	P571664
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBWH
Lumens	1827
Efficacy	83.8 Lm/W
SC	1.16
UGR	17.8

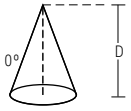


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	70.4	4.6	4.6
7'	23	8	8
9'	13.9	10.4	10.4
13'	6.7	15	15
16'	4.4	18.4	18.4

CANDELA TABLE

Degrees Vertical	Candela
0	1127
5	1122
15	1072
25	968
35	746
45	412
55	149
65	40
75	12
85	2
90	0

ZONAL LUMEN SUMMARY

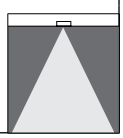
Zone	Lumens	% Fixture
0-30	851	46.6
0-40	1312	71.8
0-60	1770	96.9
0-90	1827	100
90-180	0	0
0-180	1827	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	47030
45	31934
55	14260
65	5228
75	2499
85	1510

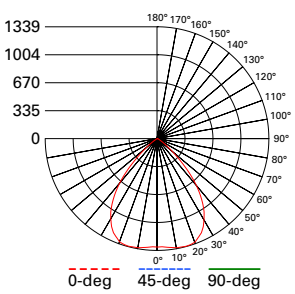
WIDE 80° BEAM (LI)

Test Number	P571665
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBWLI
Lumens	2087
Efficacy	95.7 Lm/W
SC	1.24
UGR	10.8

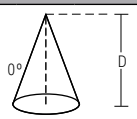


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	81.5	4.8	4.8
7'	26.6	8.6	8.6
9'	16.1	11	11
13'	7.7	16	16
16'	5.1	19.8	19.8

CANDELA TABLE

Degrees Vertical	Candela
0	1304
5	1311
15	1339
25	1249
35	946
45	438
55	76
65	7
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1074	51.4
0-40	1657	79.4
0-60	2075	99.4
0-90	2087	100
90-180	0	0
0-180	2087	100

LUMINANCE

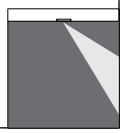
Average Candela Degrees	Average 0° Luminance
37	58990
45	33942
55	7235
65	921
75	508
85	0

Photometric Data

View IES files

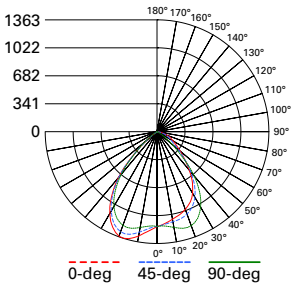
SINGLE WALL WASH (LI)

Test Number	P571666
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBSWNLI
Lumens	2112
Efficacy	96.9 Lm/W
SC	1.29
UGR	25.8

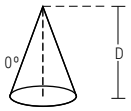


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	77	4.7	4.8
7'	25.1	8.2	8.6
9'	15.2	10.6	11.2
13'	7.3	15.3	16
16'	4.8	18.9	19.8

CANDELA TABLE

Degrees Vertical	Candela
0	1155
5	1121
15	1048
25	949
35	746
45	470
55	281
65	181
75	82
85	18
90	0

ZONAL LUMEN SUMMARY

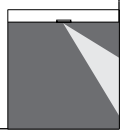
Zone	Lumens	% Fixture
0-30	971	46
0-40	1515	71.7
0-60	2008	95.1
0-90	2112	100
90-180	0	0
0-180	2112	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	47358
45	36399
55	26819
65	23491
75	17305
85	11133

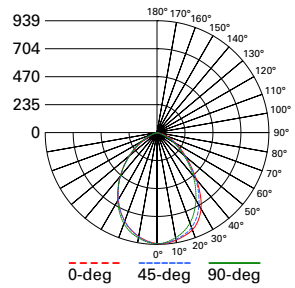
LENSED WALL WASH (H)

Test Number	P571667
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBLSWWH
Lumens	1704
Efficacy	78.2 Lm/W
SC	1.08
UGR	25

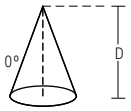


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	58.6	4.4	4.2
7'	19.1	7.8	7.4
9'	11.6	10.1	9.6
13'	5.5	14.5	14
16'	3.7	17.9	17.2

CANDELA TABLE

Degrees Vertical	Candela
0	937
5	936
15	902
25	824
35	642
45	417
55	254
65	144
75	61
85	6
90	0

ZONAL LUMEN SUMMARY

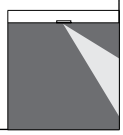
Zone	Lumens	% Fixture
0-30	682	40
0-40	1049	61.6
0-60	1561	91.6
0-90	1704	100
90-180	0	0
0-180	1704	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	40857
45	32321
55	24315
65	18705
75	12878
85	3585

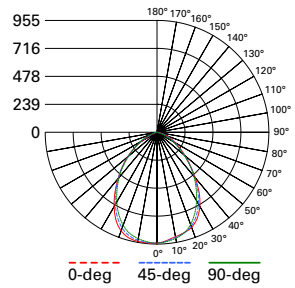
LENSED WALL WASH (LI)

Test Number	P571668
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBLSWWLI
Lumens	1753
Efficacy	80.4 Lm/W
SC	1.1
UGR	24.8

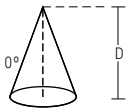


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	59.6	4.6	4.2
7'	19.5	8	7.6
9'	11.8	10.3	9.8
13'	5.6	14.9	14.2
16'	3.7	18.5	17.4

CANDELA TABLE

Degrees Vertical	Candela
0	953
5	936
15	896
25	822
35	638
45	411
55	251
65	143
75	61
85	6
90	0

ZONAL LUMEN SUMMARY

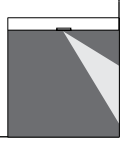
Zone	Lumens	% Fixture
0-30	712	40.6
0-40	1094	62.4
0-60	1620	92.4
0-90	1753	100
90-180	0	0
0-180	1753	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	40426
45	31833
55	23961
65	18497
75	12942
85	3585

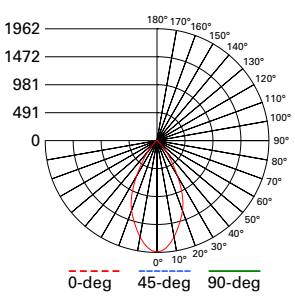
MEDIUM BEAM 45° CUTOFF 50° BEAM (H)

Test Number	P571669
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBMDH
Lumens	1493
Efficacy	68.5 Lm/W
SC	0.8
UGR	7.6



CANDLEPOWER DISTRIBUTION

Downlight



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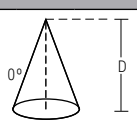

D	FC	L	W
4'	122.6	3.2	3.2
7'	40	5.6	5.6
9'	24.2	7.2	7.2
13'	11.6	10.4	10.4
16'	7.7	12.8	12.8

CANDELA TABLE

Degrees Vertical	Candela
0	1962
5	1894
15	1517
25	1052
35	437
45	128
55	27
65	9
75	3
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1072	71.8
0-40	1351	90.5
0-60	1480	99.1
0-90	1493	100
90-180	0	0
0-180	1493	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	24203
45	9900
55	2542
65	1180
75	635
85	252

Photometric Data

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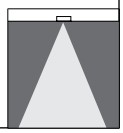
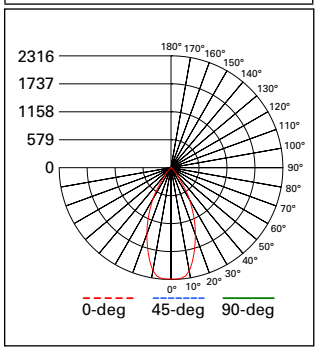
MEDIUM BEAM 45° CUTOFF 50° BEAM (LI)	
Test Number	P571670
Housing	LD6C20D010
Module	EU6C10259035
Trim	6LBMDLI
Lumens	1549
Efficacy	71.1 Lm/W
SC	0.76
UGR	0

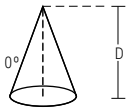


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



D	FC	L	W
4'	144.6	3	3
7'	47.2	5.2	5.2
9'	28.6	6.8	6.8
13'	13.7	9.8	9.8
16'	9	12	12

CANDELA TABLE

Degrees Vertical	Candela
0	2314
5	2309
15	1837
25	1109
35	371
45	65
55	6
65	2
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1230	79.4
0-40	1486	95.9
0-60	1546	99.8
0-90	1549	100
90-180	0	0
0-180	1549	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	18792
45	5032
55	535
65	259
75	169
85	0

Photometric Multipliers (Nominal Lumen Values)

250 Lumen	500 Lumen	800 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.17	0.33	0.44	0.51	0.78	1.00	1.26	1.48	1.74

4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen	6500 Lumen	7000 Lumen	7500 Lumen	8000 Lumen
2.02	2.34	2.65	2.96	3.20	3.35	3.52	4.14	4.47

9000 Lumen	10000 Lumen	11000 Lumen	12000 Lumen	13,000 Lumen
4.76	5.09	5.87	6.33	6.96

Multipliers for relative lumen values with other series models.

CCT Multipliers – 90CRI

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

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers – 97CRI

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

Multipliers for relative lumen values with other series color temperatures.

Color Finish Multipliers

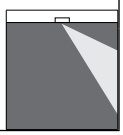
Finish code	LI	H	WMH	WH	GPH	B	MW
Finish	Specular Clear	Semi-Specular Clear	Warm Haze	Wheat	Graphite Haze	Specular Black	Matte White
Multiplier	1.22	1	1.07	1.07	0.76	0.59	1.09

Multipliers for relative lumen values with other color finishes.

Photometric Data

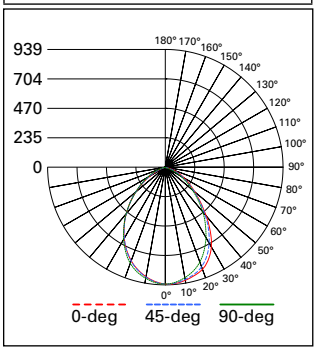
View IES files

WALL WASH	
Test Number	P563510
Housing	LD6C20D010
Module	EU6209035
Trim	6LBLWWH
Lumens	1704
Efficacy	78.2 Lm/W
SC	1.08
UGR	0



CANDLEPOWER DISTRIBUTION

Wall Wash



CANDELA TABLE

Degrees Vertical	Candela
0	937
5	936
15	902
25	824
35	642
45	417
55	254
65	144
75	61
85	6
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	682	40
0-40	1049	61.6
0-60	1561	91.6
0-90	1704	100
90-180	0	0
0-180	1704	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	40857
45	32321
55	24315
65	18705
75	12878
85	3585

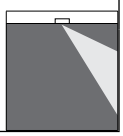
Single Unit Footcandles
3" from wall
(distance from fixture along wall)

DD	•	1'	2'	3'
1'	8.3	6.4	3.3	1.3
2'	15.2	12.5	7.5	3.8
3'	16.4	14	9.2	5.3
4'	14.4	12.7	9.1	5.7
5'	11	10.1	7.8	5.3
6'	8	7.5	6.2	4.6
7'	5.7	5.5	4.7	3.8
8'	4.2	4	3.6	3
9'	3.1	3	2.8	2.4
10'	2.4	2.3	2.2	1.9

Multiple Unit Footcandles
3" from wall
(spacing between fixtures)

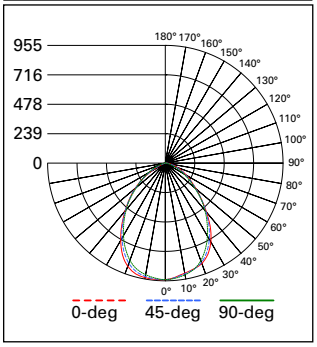
•	-- 3' --	•		•	-- 4' --	•
9.6	9.5	9.6		8.8	6.5	8.8
19.1	20.1	19.1		17.1	15.1	17.1
21.6	23.3	21.6		19.2	18.4	19.2
20	21.9	20		17.7	18.1	17.7
16.4	18.1	16.4		14.4	15.6	14.4
12.6	13.8	12.6		11.2	12.4	11.2
9.5	10.3	9.5		8.5	9.5	8.5
7.2	7.7	7.2		6.6	7.2	6.6
5.5	5.9	5.5		5.1	5.6	5.1
4.3	4.5	4.3		4	4.3	4

WALL WASH	
Test Number	P563511
Housing	LD6C20D010
Module	EU6209035
Trim	6LBLWWLI
Lumens	1753
Efficacy	80.4 Lm/W
SC	1.1
UGR	0



CANDLEPOWER DISTRIBUTION

Wall Wash



CANDELA TABLE

Degrees Vertical	Candela
0	953
5	936
15	896
25	822
35	638
45	411
55	251
65	143
75	61
85	6
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	712	40.6
0-40	1094	62.4
0-60	1620	92.4
0-90	1753	100
90-180	0	0
0-180	1753	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	40426
45	31833
55	23961
65	18497
75	12942
85	3585

Single Unit Footcandles
3" from wall
(distance from fixture along wall)

DD	•	1'	2'	3'
1'	8.3	6.4	3.2	1.3
2'	15.1	12.5	7.5	3.8
3'	16.1	13.9	9.2	5.3
4'	14.2	12.6	9.1	5.7
5'	10.9	10	7.8	5.4
6'	7.9	7.5	6.2	4.6
7'	5.7	5.5	4.8	3.8
8'	4.2	4	3.6	3
9'	3.1	3	2.8	2.4
10'	2.3	2.3	2.2	1.9

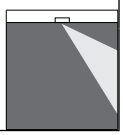
Multiple Unit Footcandles
3" from wall
(spacing between fixtures)

•	-- 3' --	•		•	-- 4' --	•
9.5	9.5	9.5		8.7	6.4	8.7
18.9	20	18.9		16.9	15.1	16.9
21.4	23.2	21.4		19	18.4	19
19.9	21.9	19.9		17.6	18.1	17.6
16.3	18	16.3		14.4	15.6	14.4
12.6	13.8	12.6		11.2	12.4	11.2
9.5	10.3	9.5		8.5	9.5	8.5
7.2	7.7	7.2		6.6	7.3	6.6
5.5	5.9	5.5		5.1	5.6	5.1
4.3	4.5	4.3		4	4.3	4

Photometric Data

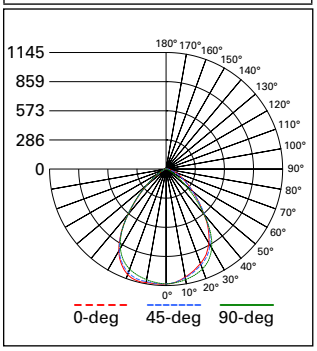
View IES files

WALL WASH	
Test Number	P563508
Housing	LD6C20D010
Module	EU6209035
Trim	6LBSWH
Lumens	1909
Efficacy	87.6 Lm/W
SC	1.18
UGR	0



CANDLEPOWER DISTRIBUTION

Wall Wash



CANDELA TABLE

Degrees Vertical	Candela
0	1138
5	1123
15	1046
25	937
35	728
45	451
55	257
65	139
75	52
85	11
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	868	45.5
0-40	1335	69.9
0-60	1817	95.2
0-90	1909	100
90-180	0	0
0-180	1909	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	46298
45	34942
55	24563
65	18005
75	11056
85	6919

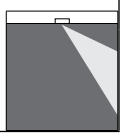
Single Unit Footcandles
3" from wall
(distance from fixture along wall)

DD	•	1'	2'	3'
1'	7.6	5.9	3.1	1.2
2'	15.3	12.5	7.6	3.7
3'	17.7	15	9.9	5.4
4'	16.3	14.3	10.2	6.2
5'	12.5	11.5	9.1	6.2
6'	9	8.6	7.3	5.6
7'	6.5	6.3	5.6	4.6
8'	4.8	4.6	4.2	3.7
9'	3.6	3.5	3.2	2.9
10'	2.7	2.6	2.5	2.3

Multiple Unit Footcandles
3" from wall
(spacing between fixtures)

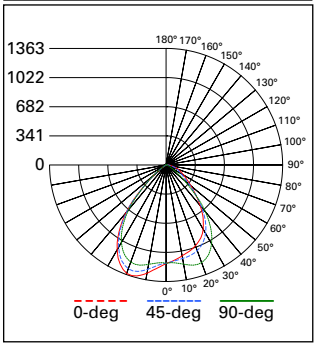
•	-- 3' --	•		•	-- 4' --	•
8.8	8.9	8.8		8	6.1	8
19	20.1	19		16.9	15.1	16.9
23.1	25	23.1		20.3	19.7	20.3
22.5	24.8	22.5		19.7	20.4	19.7
18.7	21	18.7		16.3	18.3	16.3
14.6	16	14.6		12.8	14.6	12.8
11.1	11.9	11.1		10	11.2	10
8.4	8.9	8.4		7.7	8.5	7.7
6.4	6.7	6.4		6	6.5	6
5	5.2	5		4.7	5	4.7

WALL WASH	
Test Number	P563509
Housing	LD6C20D010
Module	EU6209035
Trim	6LBSWLI
Lumens	2112
Efficacy	96.9 Lm/W
SC	1.29
UGR	0



CANDLEPOWER DISTRIBUTION

Wall Wash



CANDELA TABLE

Degrees Vertical	Candela
0	1155
5	1121
15	1048
25	949
35	746
45	470
55	281
65	181
75	82
85	18
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	971	46
0-40	1515	71.7
0-60	2008	95.1
0-90	2112	100
90-180	0	0
0-180	2112	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
37	47358
45	36399
55	26819
65	23491
75	17305
85	11133

Single Unit Footcandles
3" from wall
(distance from fixture along wall)

DD	•	1'	2'	3'
1'	11	8.7	4.6	1.9
2'	16.9	13.8	8.5	4.4
3'	18.4	15.7	10	5.2
4'	16.6	14.8	10.7	6.3
5'	12.7	11.7	9.5	6.6
6'	9.2	8.7	7.6	5.9
7'	6.6	6.3	5.8	4.9
8'	4.8	4.7	4.4	3.9
9'	3.6	3.5	3.4	3.1
10'	2.7	2.7	2.6	2.4

Multiple Unit Footcandles
3" from wall
(spacing between fixtures)

•	-- 3' --	•		•	-- 4' --	•
12.9	13.1	12.9		11.8	9.2	11.8
21.3	22.4	21.3		19	17	19
23.6	25.8	23.6		21	20	21
22.9	25.9	22.9		19.9	21.5	19.9
19.3	21.6	19.3		16.6	19.1	16.6
15.1	16.5	15.1		13.3	15.2	13.3
11.4	12.2	11.4		10.3	11.6	10.3
8.7	9.1	8.7		8	8.8	8
6.6	6.9	6.6		6.2	6.7	6.2
5.2	5.3	5.2		4.9	5.2	4.9

Connected Systems

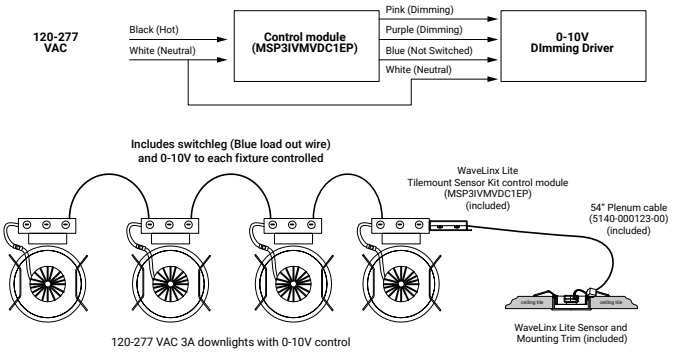


WaveLinx LITE - WLST Tilemount Sensor

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

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

WaveLinx LITE WLST Tilemount Wiring Diagram



WaveLinx LITE Bluetooth Enabled System



WaveLinx 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



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

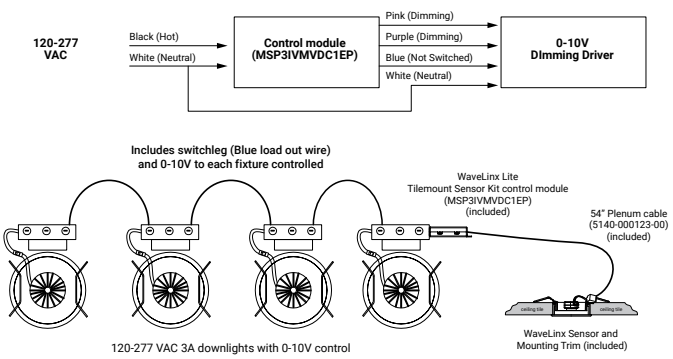
Mobile Applications
Provides personalized, local control from a tablet or smartphone

WaveLinx mobile app settings

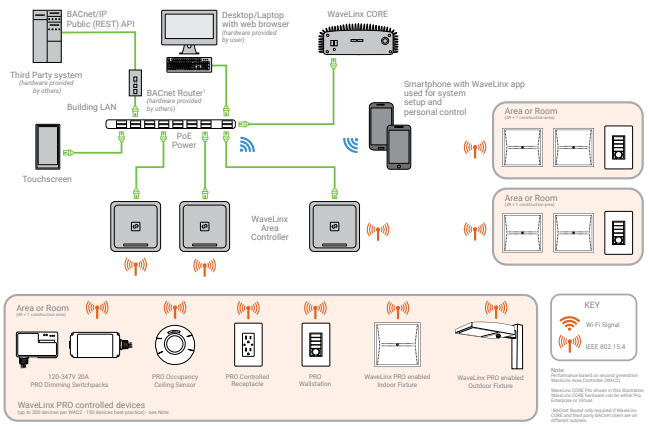
Manual Dimmer | Occupancy Sensor | Lumen Maintenance Control | Daylighting Control

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

WaveLinx PRO WPST Tilemount Wiring Diagram



WaveLinx CORE Building Management Integration



Connected Systems

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



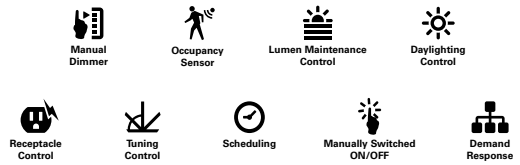
Downlights with wireless communication
Highly efficient LED fixtures

WaveLinx Area Controller
Provides centralized coordination of multiple area control options

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

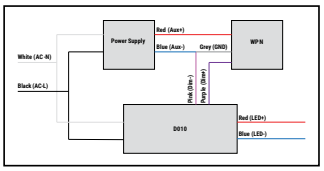
Mobile Applications
Provides personalized, local control from a tablet or smartphone

WaveLinx mobile app settings

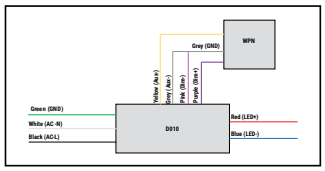


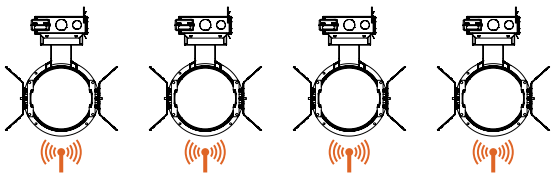
WaveLinx PRO Wireless Node (WPN) Wiring Diagram

For 0-10V drivers 250 lumens and Tunable White



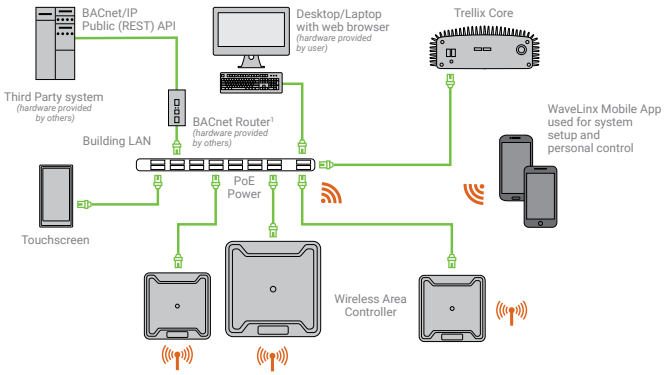
For 0-10V drivers 500 lumens and over





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

WaveLinx CORE Building Management Integration



Multi-line Order Information

Single line Ordering Information Option

SAMPLE ORDER NUMBER: **LD6C10D010TRIEM14**

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

Domestic Preferences [1]	Housing	Lumens [2]			
[Blank]=Standard **BAA**=Buy American Act **TAA**=Trade Agreements Act	**LD6C**=LED Downlight 6-inch Nominal Aperture **LD6CCP**=LED Downlight 6-inch Nominal Aperture, Chicago Plenum	**02**=250 lumens **05**=500 lumens **08**=800 lumens **10**=1000 lumens **15**=1500 lumens **20**=2000 lumens	**25**=2500 lumens **30**=3000 lumens **35**=3500 lumens **40**=4000 lumens **45**=4500 lumens [3] **50**=5000 lumens [3]	**55**=5500 lumens [3] **60**=6000 lumens [3] **65**=6500 lumens [3] **70**=7000 lumens [3] **75**=7500 lumens [3] **80**=8000 Lumens [3]	**90**=9000 Lumens [3] **100**=10,000 Lumens [3] **110**=11,000 Lumens [3] **120**=12,000 Lumens [3] **130**=13,000 Lumens [3] **150**=15,000 Lumens [3]

Driver	Driver Options
D010 = 0-10V Dimming, 1% to 100%, 120V-277V, up to 7000 lumens (up to 3000 lumens for remote driver) **1D010** = 0-10V Dimming, 1% to 100%, 120V, 7500 lumens and above (3500 to 7000 lumens for remote driver) **2D010** = 0-10V Dimming, 1% to 100%, 277V, 7500 lumens and above (3500 to 7000 lumens for remote driver) **3D010** = 0-10V Dimming, 1% to 100%, 347V dedicated drivers for 800 to 4000 lumens; 250, 500, 4500 and above use step down transformer (250 to 7000 lumens for remote driver) 1 driver: 250-7000 / 2 drivers: 7500-12,000 / 3 drivers: 13,000-15,000	**Blank**=Integral driver **R**=Remote driver (offered with single driver, order remote driver separately) [6] **PD**=Plug in Driver (offered with single driver) [8]
D010TR=0-10V (120-277V) or Line Voltage (120V) dimming, 5-100%, 250- 4500 lumens (up to 3000 lumens for remote driver) **1D010TR**=0-10V or Line Voltage Dimming, 5% to 100%, 120V, 5000-9000 & 13,000 lumens (3500 to 4500 lumens for remote driver) **2D010TR**=0-10V Dimming, 5% to 100%, 277V, 5000-9000 & 13,000 lumens (3500 to 4500 lumens for remote driver) **3D010TR**=0-10V Dimming, 5% to 100%, 347V step down transformer, 250-9000 & 13,000 lumens (250 to 4500 lumens for remote driver) 1 driver: 250-4500 / 2 drivers: 5000-9000 / 3 drivers: 13,000	
DE010 = 0-10V Dimming, 0% to 100%, 120V-277V, 500-7000 lumens (up to 3000 lumens for remote driver) **1DE010** = 0-10V Dimming, 0% to 100%, 120V, 7500 lumens and above (3500 to 7000 lumens for remote driver) **2DE010** = 0-10V Dimming, 0% to 100%, 277V, 7500 lumens and above (3500 to 7000 lumens for remote driver) **3DE010** = 0-10V Dimming, 0% to 100%, 0-10V Dimming, 347V step down transformer, 500-15,000 lumens (500 to 7000 lumens for remote driver) 1 driver: 500-7000 / 2 drivers: 7500-12,000 / 3 drivers: 13,000-15,000	
D5LT = Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V-277V, 500-7000 lumens (up to 3000 lumens for remote driver) **1D5LT** = Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V, 7500 lumens and above (3500 to 7000 lumens for remote driver) **2D5LT** =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 277V, 7500 lumens and above (3500 to 7000 lumens for remote driver) **3D5LT** =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100% 347V step down transformer, 500-15,000 lumens (500 to 7000 lumens for remote driver) 1 driver: 500-7000 / 2 drivers: 7500-12,000 / 3 drivers: 13,000-15,000	
DMX=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, 800-4500 lumens (up to 3000 lumens for remote driver) (up to 3000 lumens for remote driver) [5] **1DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 5000-9000 and 13,000 lumens (3500 to 4500 lumens for remote driver) (3500 to 4500 lumens for remote driver) [5] **2DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 5000-9000 and 13,000 lumens (3500 to 4500 lumens for remote driver) (3500 to 4500 lumens for remote driver) [5] **3DMX**=DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-9000 and 13,000 lumens, RJ45 Connection (800 to 4500 lumens for remote driver) [5] 1 driver: 800-4500 / 2 drivers: 5000-9000 / 3 drivers: 13,000	
DMXC5=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, up to 800-4500 lumens, RJ45 Connection (up to 3000 lumens for remote driver) [5] **1DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 5000-9000 and 13,000 lumens, RJ45 Connection (3500 to 4500 lumens for remote driver) [5] **2DMXC5**=DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 5000-9000 and 13,000 lumens, RJ45 Connection (3500 to 4500 lumens for remote driver) [5] **3DMXCF**=DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 250-9000 and 13,000 lumens, RJ45 Connection (800 to 4500 lumens for remote driver) [5] 1 driver: 800-4500 / 2 drivers: 5000-9000 / 3 drivers: 13,000	
DLE=Lutron Ecosystem dimming 1% to 100%, 120V-277V, 800-3500 lumens (up to 3000 lumens for remote driver) **1DLE**=Lutron Ecosystem dimming 1% to 100%, 120V, 4000-7500 lumens (3500 lumens for remote driver) **2DLE**=Lutron Ecosystem dimming 1% to 100%, 277V, 4000-7500 lumens (3500 lumens for remote driver) **3DLE**=Lutron Ecosystem dimming 1% to 100%, 347V step down transformer, 800-7500 lumens (800-3500 lumens for remote driver) 1 driver: 800-3500 / 2 drivers: 4000-7500	
DLV=Low voltage dimming driver (1-100%) for use with DLVP system 800-3000 lumens [6]	

Options [6] [30] [31]	
EMBOD=Bodine® Emergency Module with Remote Test Switch [10] **EMBOD6ST**=Bodine® 6W Self Test Emergency Module with Remote Test Switch **EM7**=7W Emergency Module with Remote Test Switch **EM14**=14W Emergency Module with Remote Test Switch **EMBOD7ST**=Bodine® Self Test Emergency Module [10] **IEMBOD**=Bodine® Emergency Module with Integral Test Switch [10] [22]	**IEM7**=7W Emergency Module with Integral Test Switch [22] **IEM14**=14W Emergency Module with Integral Test Switch [22] **EMV7**=7W Low Voltage Emergency Module with Remote Test Switch [7] **EMV14**=14W Low Voltage Emergency Module with Remote Test Switch [7] **ETRD**=Emergency transfer device [32] **WPST** =Factory installed Wavelinx (includes control module, sensor, cable, tilemount and ceiling mount sensor) [11] [13] **WLST** =Factory installed WaveLinx LITE Sensor Kit [11] [12] **WPN** = WaveLinx PRO Wireless Node without sensor [34]

Continued on next page.

Multi-line Order Information

SAMPLE ORDER NUMBER: **EU6C10259035**

Domestic Preferences [1]	Power Module	Lumen Levels [2]	CRI [2]	Color	
[Blank]=Standard **BAA**=Buy American Act **TAA**=Trade Agreements Act	**EU6C**=6-inch Universal LED Module	**For use with one driver** **0208IC**=250, 500, 800 lumens, IC Rated (for use with all drivers, min 500 lumen with DE010 and D5LT, min 800 lumens with DLVP, Lutron and DMX) **1025**= 1000, 1500, 2000, 2500 lumens **1015IC**=1000, 1500 lumens IC Rated **3040**=3000, 3500, 4000 lumens (For use with Lutron 3000-3500, DLVP 3000 lumens, DMX, D010, D010TR, D5LT and DE010 3000-4000) **4560**=4500, 5000, 5500, 6000 lumens (For use with DMX and D010TR 4500 lumens, D010, D5LT and DE010 4500-6000) [3] **6570**=6500, 7000 lumens (For use with D010, D5LT and DE010) [3] **For use with two drivers** **4080**=4000, 4500, 5000, 5500, 6000, 6500, 7000, 75000, 8000 lumens (For use with Lutron 4000-7500, D010TR & DMX 5000-8000, D010, D5LT & DE010 7500-8000 lumen) [3] **90120**=9000, 10000, 11000, 12000 lumens (D010, D5LT, DE010 to 9000-12,000 lumens, DMX and D010TR 9000 lumens) [3] **For use with three drivers** **130150**=13,000, 15000 lumens (D010, DE010, D5LT, 13,000-15,000 lumens, D010TR and DMX 13,000 lumens) [3]	**90**=90 CRI Minimum **97**=97 CRI Minimum	**90 CRI** **24**=2400K **27**=2700K **30**=3000K **35**=3500K **40**=4000K **50**=5000K	**97 CRI** **27**=2700K **30**=3000K

SAMPLE ORDER NUMBER: **6LBM2H**

Trim	Reflector		Flange	Finish	Options
6LB=6-inch LED	**N**=Narrow, Spun Aluminum [29] **M**=50° Cutoff, Medium Beam Reflector, Spun Aluminum **MD**=45° Cutoff, Medium Beam Reflector, Spun Aluminum **W**=Wide, Spun Aluminum **S**=Shallow, Spun Aluminum **HY**=Hyperbolic medium beam [29] **PS**=Non-Conductive Shallow (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 **LSWW**=Lensed single wall wash, spun aluminum **LDWW**=Lensed double wall wash, spun aluminum	**0**=White polymer trim ring **1**=Self flanged [18] **2**=White painted self flanged **4**=Knife edge rimless use with die cast only [19]	**LI**=Specular Clear [20] **H**=Semi-Specular Clear [20] **WMH**=Warm Haze [20] **WH**=Wheat [20] **GPH**=Graphite Haze [20] **B**=Specular Black [20] **MW**=Matte White **MB**=Matte Black [21] **MMS**=Matte Metallic Silver [21]	**E**=Integral Emergency Test Switch Hole [22]

REQUIRED if Remote Driver (R) is specified

SAMPLE ORDER NUMBER: **RC10010D010TREM7**

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

Continued on next page.

Multi-line Order Information

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

Options [6] [30] [31]		Controls
EMBOD=Bodine® Emergency Module with Remote Test Switch [10] **EMBOD6ST**=Bodine® 6W Self Test Emergency Module with Remote Test Switch **EM7**=7W Emergency Module with Remote Test Switch **EM14**=14W Emergency Module with Remote Test Switch	**EMBOD7ST**=Bodine® Self Test Emergency Module with Remote Test Switch [10] **EMV7**=7W Low Voltage Emergency Module with Remote Test Switch [7] **EMV14**=14W Low Voltage Emergency Module with Remote Test Switch [7] **ETRD**=Emergency transfer device [32]	**WPST**=Factory installed Wavelinx (includes control module, sensor, cable, tilemount and ceiling mount sensor) [11] [13] **WLST**=Factory installed WaveLinx LITE Sensor Kit [11] [12] **WPN** = WaveLinx PRO Wireless Node without sensor [34]

Accessories (*Order separately*) [25]		
TRM6P=White metal trim ring [26] **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 [33] **Connected Lighting Systems** [6] [11] **WPST** = Field installed WaveLinx sensor Kit [13] **WLST** = Field installed WaveLinx LITE Sensor Kit [12] **Transformers** **H347**=H347 for 5500 lumens and below **H347200**=347 to 120V Step Down Transformer, 200VA	**Bar Hangers** **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, CRI, driver and reflector finish. Reference Multiplier tables.

3. Product is marked spacing. Reference table on page 4 for the spacing details.

5. DMX fixtures default to full on upon loss of DMX signal.

6. Not available with Chicago Plenum.

7. ULus listed only

8. Offered with
- D010, D5LT, DE010 up to 7000 lumens
- D010TR, DMX up to 4500 lumens
- DLE, DL2 up to 3500 lumens

9. Not available with 5500 lumens

10. Not available for 6500-7000 lumens

11. Refer to system specifications for additional information,features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver.

12. WLST = WaveLinx LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx LITE system specifications)

13. WPST = WaveLinx wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.

14. IC rated up to 3000 lumens

15. Spun aluminum only

16. PS available in self-flanged MW finish only

17. Offered up to 2000 lumens

18. Flange is the same finish as the reflector

19. Requires knife edge accessory ring

20. Anodized or spun reflectors

21. Die cast only

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

23. Offered with DLVP up to 3000 lumens.

25. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

26. Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).

27. Order die cast trim with flange type 4

28. Order with self flanged trim.

29. Use only with single LED/driver.

30. If using remote driver order battery and controls with the remote driver.

31. 120-277V

32. Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others)

33. Not recommended for use with Wall Wash

34. 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.

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Specifications and dimensions subject to change without notice.