

### **PROJECT INFORMATION**

PROJECT	
DATE	
TYPE	



**BeveLED 2.1 Recessed Wall Wash** - BeveLED 2.1 is the most complete recessed LED downlight product family available from USAI Lighting, now with more BeveLED trim finishes, LED classic white color temperatures, innovative housing styles, and dimming driver options than before. With industry-leading performance, BeveLED 2.1 can provide a solution for any project - commercial, corporate and residential installations.

### **DELIVERED PERFORMANCE**

BeveLED 2.1	9 W	atts	12 W	/atts	16 W	atts	24 W	atts	33 W	/atts	36 V	/atts
Wall Wash		90+		90+		90+		90+		90+		90+
	+08	HIGH	80+	HIGH	80+	HIGH	80+	HIGH	80+	HIGH	+08	HIGH
Color Rendering Index	CRI	CRI	CRI	CRI	CRI	CRI	CRI	CRI	CRI	CRI	CRI	CRI
Lumens per Watt	74	65	63	57	63	56	58	52	52	47	86	67
Source Lumens	1150	900	1300	1025	1725	1350	2400	1875	3025	2350	4150	3250
Delivered Lumens	675	575	750	675	1000	900	1400	1250	1750	1550	2975	2300
Color Consistency					2-Step	MacAd	am Ellip	se				

Performance based on 3000K

<b>CCT MULTIPLIER</b>	2200K	2700K		3000K		3500K	4000K
Color Rendering Index	80+ CRI	80+ CRI	90+ HIGH CRI	80+ CRI	90+ HIGH CRI	80+ CRI	80+ CRI
Multiplier for Lumen Output	0.72	0.94	0.78	1.00	.78	1.00	1.06

90+ CRI is not available for 2200K, 3500K, or 4000K

# Bevel Finish Flange Finish 5½" x 4½" 5½" x 5½"

### **HOW TO SPECIFY**

Ordering Example: Specify trim code and housing code to order: Example: 3651W - B1 - 10 - LSTW4 - 6012 - C3 - 27KS - W2 - NC - 277V - DIML2 - CB27 TRIM ORDERING INFORMATION

TRIM	OPTION	BEVEL STYLE	FLANGE FINISH
3651			-
3651 Square Wall Wash 1" Regress	W Wet location <sup>1</sup> TZ 6" TechZone <sup>2</sup> ceiling compatible (NCSM only) N/A with 01 or 02 flange finishes <sup>1</sup> Wet location, use with B1 trims only. <sup>2</sup> Not available with E1 light engine.	B1 1" Regress Bevel, Painted Die Cast Matches Flange Finish  AB1 1" Regress Bevel, Black Anodized  AC1 1" Regress Bevel, Clear Matte Anodized	01 Clear Matte (AC Bevel only) 02 Black Anodized (AB Bevel Only) 10 White 13 Statuary Bronze 21 Black 28 Metalized Grey RAL Custom Color (specify RAL #)

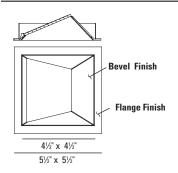


<b>HOUSING ORDE</b>	RING INFORMAT	<u>rion</u>				SELECT ONE	DIMMING DRIVER	
HOUSING CODE	WATTAGE	ENGINE CODE	COLOR	REFLECTOR	HOUSING TYPE	VOLTAGE	OPTIONS	ACCESSORIES
LSTW4	-			-	-	-		-
LSTW4	6009 9W LED 6012 12W LED 6016 16W LED 6024 24W LED 6033 33W LED	C3	22KS 2200K, 80+ CRI 27KS 2700K, 80+ CRI 30KS 3000K, 80+ CRI 35KS 3500K, 80+ CRI 40KS 4000K, 80+ CRI 27KH 2700K, 90+ CRI 30KH 3000K, 90+ CRI	W2 Wall Wash Optic 2.1 Style	FT Flat Housing New Construction FTIC Flat Housing IC-Rated/Airtight (up to 16W maximum) FTCP Flat Housing Chicago Plenum NCSM New Construction Narrow Width NC New Construction, all in one CP Chicago Plenum IC Insulation-Contact Rated / Airtight	120V 277V	For use with 120V or 277V DIML2 0-10V dim, 10% (provided standard) DIML4 Lutron A 3-wire/ECO, 1% DIML4E Lutron 5 ECO, 5% 3 DIML4H Lutron H ECO, 1% Fade 3 DIML6A EldoLED 0-10V, 0.1%, logarithmic / Lutron controls DIML6B EldoLED 0-10V Linear, 0.1%, linear controls DIML6E EldoLED 0-10V, 1%, logarithmic/Lutron controls DIML6F EldoLED 0-10V, 1%, linear controls	CB27 27" C-Channel Bars CB52 52" C-Channel Bars EML Emergency battery  EMLW Emergency battery, wet location 7 TZ 6" TechZone ceiling compatible 8
	<b>6036</b> 36W LED	E1	27KS2700K, 80+ CRI 30KS 3000K, 80+ CRI 35KS 3500K, 80+ CRI 40KS 4000K, 80+ CRI 27KH 2700K, 90+ CRI 30KH 3000K, 90+ CRI	W1 Wall Wash Optic MX Style	NC New Construction, all in one CP Chicago Plenum	120V	DIML7 EldoLED DALI, 0.1% DIML8 EldoLED DMX, 0.1% 4.5 For use with 120V only DIML3 Lutron A 2-wire, 1% 120V only DIML19 Phase 2-wire dimming, 1% 120V only 3.4.6	<sup>7</sup> See emergency solutions chart for more details on EM options.
	See performance chart for precise lumen information.		2 Step MacAdam ellipse is standard for all				For use with 347V only DIML15 0-10V dim, 1%, 347 only	Not available with 347V  8 With NCSM housing only Not available with E1 light engine.



# BeveLED<sup>2</sup>.





# 6" TechZone Ceiling Compatible Bevel Finish N/A with 01 or 02 flange finish

41/2" x 41/2"

513/16" x 513/16"

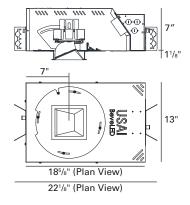
### 3651 Emergency Solutions

Housing	EM Service	Integral Test Switch	Remote Test Switch	Inverter By Others
FT, FTCP, FTIC	N/A			X
NCSM*	Above ceiling access required		Х	Х
NC	Through aperture		Х	Х
СР	N/A			Х
IC	N/A			X

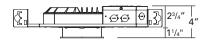
\* NCSM + DIML8 cannot be offered with EM 347V cannot be offered with EM

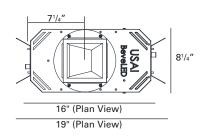
### **HOUSING INFORMATION**

# New Construction Universal Style Housing - NC

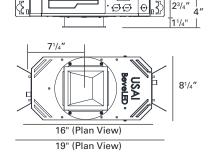


### New Construction Flat Housing - FT Flat Housing Chicago Plenum - FTCP (Not available with E1 light engine)

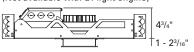


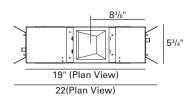


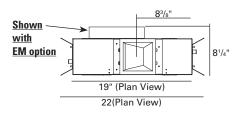
### New Construction Flat Housing IC-Rated /Airtight- FTIC (up to 16W maximum)



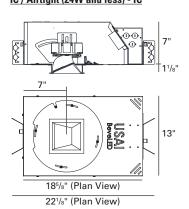
# New Construction - Narrow Width - NCSM (Not available with E1 light engine)



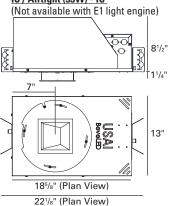




### Chicago Plenum (24W and less) - CP IC / Airtight (24W and less) - IC



### Chicago Plenum (33W and 36W) - CP IC / Airtight (33W) - IC



# BeveLED<sub>2.1</sub>

### **SPECIFICATIONS**

TRIM: 4-1/2" square aperture with a 1" regressed bevel and 1/2" flange, retained by two mounting clips. Die cast aluminum bevel is self-flanged and is available in white, statuary bronze, black, and metalized grey finishes. Also available in black anodized or clear matte anodized bevel with self-finish or with contrasting painted flange. Custom color flanges available (provide RAL#). TechZone compatible trim option is not available with "01" or "02" flange finishes or 37W light engine.

TRIM LENS: Trim is shipped with micro diffusion wall wash lens.

**REFLECTOR:** Proprietary precision injection molded wall wash reflector.

ADJUSTMENT: 362° horizontal locking in 90° increments.

FIELD REPLACEABLE LIGHT ENGINE: Available in 6 lumen packages. Engine is field replaceable through the aperture without tools. See performance chart for precise lumen output information.

COLOR: BeveLED 2.1 is available in 5 color temperatures (2200K, 2700K, 3000K, 3500K, 4000K). All color options are tightly binned for fixture-to-fixture color consistency within a 2-Step MacAdam Ellipse. 80+ color rendering index provided standard. 90+ CRI available for 2700K and 3000K CCTs. 2200K is not available with E1 light engine.

**RATED LIFE:** Based on IESNA LM80-2008 50,000 hours at 70% lumen maintenance (L70).

PHOTOMETRICS: Consult factory or website for IES files. Tested in accordance with IESNA LM79-2008. **THERMAL MANAGEMENT:** Proprietary high performance aluminum die cast heatsink for maximum LED life. Ambient temperatures at fixture location should not exceed 40°C during normal operation.

FIELD REPLACEABLE DRIVER: 0-10V, 100%-10% solid state electronic constant current driver with a high power factor provided standard and sources 2mA. Specify 120V or 277V. Driver complies with IEEE C62.41 surge protection.

DIMMING OPTIONS: Multiple dimming drivers available. See compatibility chart attached. Some on-time delay may be experienced depending on control system used. Note: DIML6A and 6E logarithmic control are intended for use with Lutron control systems; DIML6B and 6F linear control are intended for use with non-Lutron controls. DIML15 and DIML6 dimming drivers source 2mA.

**EMERGENCY:** Fixtures provided with a remote test switch are provided with a 24" lead length for location of the test switch. Fixtures that have no USAI EM option may be connected to an inverter (by others) for emergency lighting. SPECIAL NOTE FOR NCSM HOUSING: DIML8 cannot be combined with EM options in NCSM housing. See emergency solutions chart for more information on EM test switches and servicing.

MOUNTING: Butterfly brackets and adjustable nailer bars with integral nails provided. Nailer bars are extendible from 14" to 24" centers. C-channel bars are optionally available for acoustical ceiling applications.

HOUSING: All-Ways Square® (covered by US Pat. No:

US 7,832,889) housing allows alignment of square aperture (up to 20° rotation) after housing installation and prior to finish ceiling installation. Fabricated of 20 ga. galvanized steel with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring. FTIC housing is IC-rated up to 16W maximum. IC-rated housings for use with 9W, 12W, and 16W light engines only are rated for direct contact with spray foam insulation of R-42 or less. IC, FT and NCSM housings are not available with E1 light engine. NCSM with TZ option is compatible with 6" TechZone ceiling systems. When using DIML8, NCSM housing can NOT be used with thru-branch circuit wiring.

m 🕶 wall wash 3651

MAXIMUM CEILING THICKNESS: As per drawings above.

**CEILING CUT OUT:** 5-1/16" x 5-1/16"

LISTINGS: Dry/Damp. Wet location option available with B1 trim only. NRTL/CSA-US tested to UL standards. IBEW union made. Energy Star Qualified under Luminaires Specification V2.0. Please see Energy Star website for exact model #s included in the listing. B1-10 trim styles and up to 16W only. Please note E1 light engines; 22KS, 27KH, and 30KH light engines and EM options are not Energy Star qualified. CEC/Title 24 Compliant up to 16W maximum. See CEC website for exact models included.

WARRANTY: 5 years







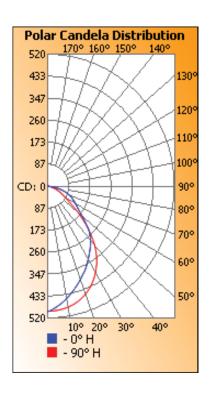
NOTES: • Not for use in corrosive environment.
• Use of pressure washer voids warranty.



### **DELIVERED PERFORMANCE**

### 3651 / 3851 16W 30KS

#### Zonal Lumen Summary Zone Lumens % Luminaire 0-30 373.3 37% 0-40 593.7 58.9% 0-60 912.6 90.6% 94.9 9.4% 60-90 70-100 33.3 3.3% 90-120 0 0%

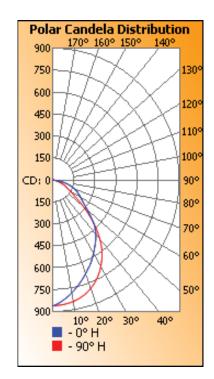


### 3651 / 3851 33W 30KS

#### Zonal Lumen Summary Zone Lumens % Luminaire 0-30 650.3 37% 0-40 1,034.3 58.9% 0-60 1,589.9 90.6% 60-90 165.3 9.4% 70-100 58.0 3.3%

0%

90-120





### DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D2 / DIML2

### **DIMMING DRIVER WIRING SCHEMES:**

#### NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

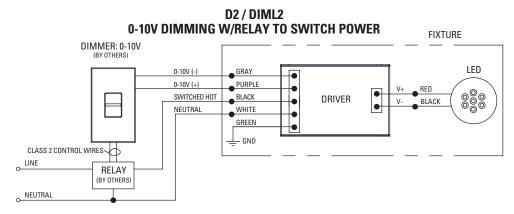
# IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

### D2 / DIML2 LED: 0-10V Dimming Driver Wiring (Dims down to 10%)

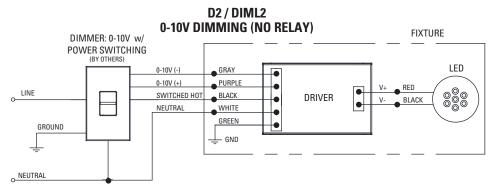
	D2 / DIML2 Dimmer Compatibility Chart								
			Dimmed Light	Oty Fixtures Per Dimmer*					
<u>Manufacturer</u>	Product	Part Number	Output Range	Per Dimmer*					
120V / 277V				Use source current per					
Crestron	iLux dimmer expansion module	CLS-EXP-DIMFLV	100% - 10%	fixture specification					
Crestron	DIN Rail dimmer	DIN-4DIMFLV4	100% - 10%	sheet to determine					
Crestron	DIN Rail analog output module	DIN-A08	100% - 10%	number of fixtures per					
Crestron	8 Channel dimmer module	GLX-DIMFLV8	100% - 10%	dimmer. Max number					
Crestron	8 Channel dimmer module	GLXP-DIMFLV8	100% - 10%	of fixtures is limited by					
Leviton	IllumaTech dimmer	IP710-DLX	100% - 10%	dimmer load rating.					
Lightolier (Philips)	Vega	V2000FAMU	100% - 10%	ag.					
Lutron	Diva	DVTV-XX	100% - 10%						

\* NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details.



### NOTE:

If switched, non-dimming operation is desired, cap off purple and gray wires individually at installation. Do NOT cap purple and gray wires together.



### NOTE:

If switched, non-dimming operation is desired, cap off purple and gray wires individually at installation. Do NOT cap purple and gray wires together.



# DIMMING DRIVER COMPATIBILITY **SELECTION GUIDE** D3/DIML3

### **DIMMING DRIVER WIRING SCHEMES:**

### NOTES:

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### **IMPORTANT SAFETY INSTRUCTIONS**

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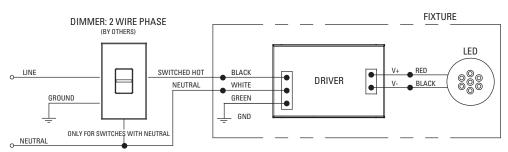
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- 5. Cap any wires not used separately (not together).

### D3 / DIML3 LED: Lutron Hi-Lume A-Series 2 Wire Fwd Phase (with neutral) / LED Dimming Driver Wiring (Dims down to 1%) 120V

	D3 / DIML3 Dimmer Comp	natibility Chart			
			Dimmed Light	Oty Fixtures F	Per Dimmer*
Manufacturer	Product	Part Number	Output Range		Wattage
120V Only				39W and Less	40W - 80W
ETC	Sensor+ Cabinet	ELV10	100% - 1%	1 – 26	1 – 13
ETC	Unison DRd Cabinet	ELV10	100% - 1%	1 – 26	1 – 13
Lutron	Maestro Wireless® 600W dimmer	MRF2-6ND-120-	100% - 1%	1 – 8	1 – 4
Lutron	Maestro Wireless® 1000W dimmer	MRF2-10ND-120-	100% - 1%	1 – 13	1 – 6
Lutron	HomeWorks® QS adaptive dimmer	HQRD-6NA-	100% - 1%	1 – 8	1 - 4
Lutron	HomeWorks® QS 600W dimmer	HQRD-6ND-	100% - 1%	1 – 8	1 – 4
Lutron	HomeWorks® QS 1000 W dimmer	HQRD-10ND-	100% - 1%	1 – 13	1 – 6
Lutron	Caseta Wireless® Pro 1000W dimmer	PD-10NXD-	100% - 1%	1 – 13	1 – 6
Lutron	Stanza® dimmer	SZ-6ND-	100% - 1%	1 – 8	1 – 4
Lutron	RadioRA® 2 adaptive dimmer	RRD-6NA-	100% - 1%	1 – 8	1 - 4
Lutron	RadioRA® 2 1000 W dimmer	RRD-10ND-	100% - 1%	1 – 6	1 – 3
Lutron	myRoom DIN power module	MQSE-4A1-D	100% - 1%	1 – 6	1 – 3
Lutron	HomeWorks® QS wallbox power module	HQRJ-WPM-6D-120-	100% - 1%	1 – 26	1 – 13
Lutron	Homeworks® DIN power module	LQSE-4A1-D	100% - 1%	1 – 6	1 – 3
Lutron	HomeWorks® wallbox power module	HWI-WPM-6D-120	100% - 1%	1 – 26	1 – 13
Lutron	GRAFIK Eye® QS control unit	QSGR-, QSGRJ-	100% - 1%	1 – 26	1 – 13
Lutron	GRAFIK Eye® 3000 control unit	GRX-3100-, GRX-3500-	100% - 1%	1 – 26	1 – 13
Lutron	RPM-4U module	HW-RPM-4U-120, LP-RPM-4U-120	100% - 1%	1 – 26	1 – 13
Lutron	RPM-4A module	HW-RPM-4A-120, LP-RPM-4A-120	100% - 1%	1 – 26	1 – 13
Lutron	GP dimming panels	Various	100% - 1%	1 – 26	1 – 13
Lutron	Ariadni CL 250W dimmer	AYCL-253P-	100%-1%	1 – 8	1 – 4
Lutron	Diva CL 250W dimmer	DVCL-253P-, DVSCCL-253P-	100%-1%	1 – 8	1 - 4
Lutron	Grafik T CL or RF CL dimmer	GT-250M-, GTJ-250M-	100%-1%	1 – 8	1 - 4
Lutron	Nova T CL 250W dimmer	NTCL-250-	100%-1%	1 – 10	1 – 5

<sup>\*</sup> NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

### D3 / DIML3 **2 WIRE PHASE DIMMING**







### **DIMMING DRIVER COMPATIBILITY SELECTION GUIDE** D4 / DIML4

### **DIMMING DRIVER WIRING SCHEMES:**

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

### **IMPORTANT SAFETY INSTRUCTIONS**

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- 5. Cap any wires not used separately (not together).

### D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with 3-Wire FL Control / LED Dimming Driver Wiring (Dims down to 1%)

	D4	/ DIML4 3-Wire Dimmer Compatibili	ity Chart		
			Dimmed Light	Oty Fixtures Per	
Manufacturer	Product	Part Number	Output Range	Fixture Wattage	
120V Only		I ====		39W and Less	40W - 80W
ETC	Sensor+ Cabinet	D20 Dimming module	100% - 1%	1–53	1–26
ETC	Unison DRd Cabinet	D20F Dimming module	100% - 1%	1–53	1–26
Lutron	Nova T	NTF-10-	100%–1%	1–41	1-20
Lutron	Nova T	NTF-103P-	100%–1%	1–20	1-10
Lutron	Nova	NF-10-	100%–1%	1–41	1-20
Lutron	Nova	NF-103P-	100%–1%	1–20	1-10
Lutron	Vareo	VF-10-	100%–1%	1–20	1-10
Lutron	Skylark	SF-10P-, SF-103P-	100%–1%	1–20	1-10
Lutron	Diva	DVF-103P-, DVSCF-103P-	100%–1%	1–20	1-10
Lutron	Ariadni	AYF-103P-	100%–1%	1–20	1-10
Lutron	Vierti	VTF-6A-	100%-1%	1–15	1-7
Lutron	Maestro	MAF-6AM-, MSCF-6AM-	100%–1%	1–15	1-7
Lutron	Maestro Wireless	MRF2-F6AN-DV-	100%-1%	1–15	1-7
Lutron	RadioRA 2	RRD-F6AN-DV-	100%-1%	1–15	1-7
Lutron	HomeWorks QS	HQRD-F6AN-DV	100%-1%	1–15	1-7
Lutron	Interfaces	PHPM-3F-120, PHPM-3F-DV	100%-1%	1–41	1-20
Lutron	GP Dimming Panels	Various	100%-1%	1–41	1-20
277V Only				40W and Less	41W - 80W
ETC	Sensor+ Cabinet	D20 Dimming module	100% - 1%	1–53	1–26
ETC	Unison DRd Cabinet	D20F Dimming module	100% - 1%	1–53	1–26
Lutron	Nova T	NTF-10-277-	100%-1%	1–44	1-22
Lutron	Nova T	NTF-103P-277-	100%-1%	1–33	1-16
Lutron	Nova	NF-10-277-	100%-1%	1–44	1-22
Lutron	Nova	NF-103P-277-	100%–1%	1–33	1-16
Lutron	Skylark	SF-12P-277-, SF-12P-277-3	100%-1%	1–33	1-16
Lutron	Diva	DVF-103P-277-, DVSCF-103P-277-	100%-1%	1–33	1-16
Lutron	Ariadni	AYF-103P-277-	100%-1%	1–44	1-22
Lutron	Vierti	VTF-6A-	100%-1%	1–33	1-16
Lutron	Maestro	MAF-6AM-277-, MSCF-6AM-277-	100%-1%	1–20	1-10
Lutron	Maestro Wireless	MRF2-F6AN-DV-	100%–1%	1–33	1-16
Lutron	RadioRA 2	RRD-F6AN-DV-	100%-1%	1–33	1-16
Lutron	HomeWorks QS	HQRD-F6AN-DV	100%–1%	1–33	1-16
Lutron	Interfaces	PHPM-3F-DV	100%–1%	1–88	1-44
Lutron	GP Dimming Panels	Various	100%-1%	1–88	1-44

<sup>\*</sup> NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

DIML4 wiring diagrams continued on next page





### DIMMING DRIVER COMPATIBILITY **SELECTION GUIDE** D4 / DIML4 Continued

### **DIMMING DRIVER WIRING SCHEMES:**

### NOTES:

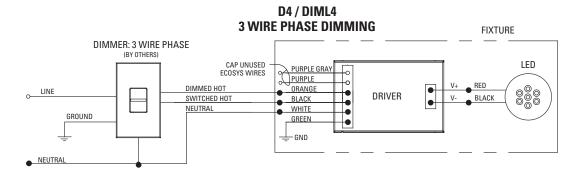
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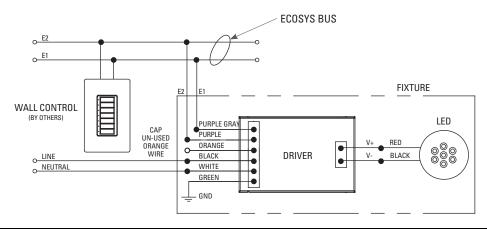


### D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with EcoSystem Control / LED Dimming Driver Wiring (Dims down to

	D4 / DIML4 EcoSystem Dimmer Compatibility Chart								
	Dimmed Light   Qty Fixtures Per Control*								
Manufacturer	Product	Part Number	Output Range	Fixture	Wattage				
120V / 277V	120V / 277V 39W and Less 40W - 80W								
Lutron	PowPak dimming module	RMJ-EC032-DV-B	100%-1%	1–32	1-16				
Lutron	Energi Savr Node	QSN-1ECO-S, QSN-2ECO-S	100%-1%	1–64	1-32				
Lutron	GRAFIK Eye QS (120V ONLY)	QSGRJE, QSGRE	100%-1%	1–64	1-32				
Lutron	Quantum	Various	100%-1%	1–64	1-32				

<sup>\*</sup> NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

### D4 / DIML4 **EcoSystem CONTROLS**







# DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D4E / DIML4E and D4H /DIML4H

### **DIMMING DRIVER WIRING SCHEMES:**

### NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

### **IMPORTANT SAFETY INSTRUCTIONS**

### - SAVE THESE INSTRUCTIONS

- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

### D4E / DIML4E LED: Lutron 5 Series EcoSystem LED Driver / LED Dimming Driver Wiring (Dims down to 5%)

	D4E / DIN	/IL4E EcoSystem Dimmer Compatib						
			Dimmed Light					
Manufacture	r   Product	Part Number	Output Range	Fixture V	/attage			
120V / 277V	<b>120V / 277V</b> 39W and Less 40W - 80W							
Lutron	PowPak dimming module	RMJ-EC032-DV-B	100%-5%	1–32	1 – 16			
Lutron	Energi Savr Node	QSN-1ECO-S, QSN-2ECO-S	100%-5%	1–64	1-32			
Lutron	GRAFIK Eye QS (120V ONLY)	QSGRJ- E, QSGR- E	100%-5%	1–64	1-32			
Lutron	Quantum	Various	100%-5%	1–64	1-32			

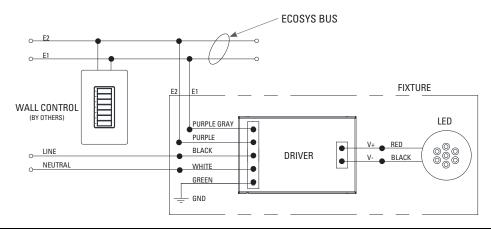
<sup>\*</sup> NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

### D4H / DIML4H LED: Lutron H Series EcoSystem LED Driver with Fade to Black (dims down to 1%)

1											
		D4H / DIML4H EcoSystem Dimmer Compatibility Chart									
	Dimmed Light   Qty Fixtures Per Control*										
	Manufacturer	Product	Part Number	Output Range	Fixture	Wattage					
	120V / 277V				39W and Less	40W - 80W					
	Lutron	PowPak dimming module	RMJ-EC032-DV-B	100%-1%	1–32	1-16					
	Lutron	Energi Savr Node	QSN-1ECO-S, QSN-2ECO-S	100%-1%	1–64	1-32					
	Lutron	GRAFIK Eye QS (120V ONLY)	QSGRJE, QSGRE	100%-1%	1–64	1-32					
	Lutron	Quantum	Various	100%-1%	1–64	1-32					

<sup>\*</sup> NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

### D4E / DIML4E and D4H / DIML 4H EcoSystem CONTROLS







# DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D6A / DIML6A and D6E / DIML6E D6B / DIML6B and D6F / DIML6F

# IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

### D6A / DIML6A and D6E / DIML6E LED Dimming Compatibility Table

D6A / DIML6A and D6E / DIML6E are linearly programmed dimming drivers for use with logarithmic-style dimming controls (e.g., Lutron and others listed in the table below) D6A / DIML6A = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1%

D6E / DIML6E = EldoLED ECOdrive 0-10V control dims from 100% to 1%

D6A / DIML6A and D6E / DIML6E Dimmer Compatibility Chart					
			Dimmed Light	Dimmed Light	
Manufacturer	Product	Part Number	Output Range	Per Dimmer*	
120V & 277V DIML6A 6E Refer to manufact			Refer to manufacturer's		
Lutron	Diva	DVTV/NFTV with PP-20	99% - 0.1% 1%	dimmer load rating for	
Lutron	Nova T	NTFTV with PP-20	99% - 0.1% 1%	maximum and minimum	
Lutron	Energi Savr Node	QSN-4T16-S	100% - 0.1% 1%	fixture quantities per	
Lutron	GP Dimming Panels	TVM2 Module	99% - 0.1% 1%	dimmer.	
Lutron	Interfaces	GRX-TVI w/ GRX3503	100% - 0.1% 1%	Enlighted compatible.	
Sensor Switch	nIO	nIO EZ	100% - 0.1% 1%		
enlighted	Control Unit	CU-3E-1R	100% - 0.1% 1%		

<sup>\*</sup> NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

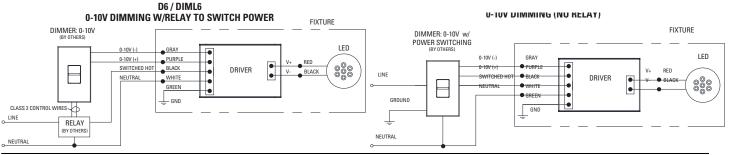
### D6B / DIML6B and D6F / DIML6F LED Dimming Compatibility Table

D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with linear-style dimming controls (e.g., Crestron, non-Lutron and others listed below)
D6B / DIML6B = EldoLED S0L0drive 0-10V control dims from 100% to 0.1% D6F / DIML6F = EldoLED ECOdrive 0-10V control dims from 100% to 1%

D6B / DIML6B and D6F / DIML6F Dimmer Compatibility Chart					
Manufacturer	Product	Part Number	Dimmed Ligh Output Range		Oty Fixtures Per Dimmer*
120V & 277V			DIML6B	6F	
Bush-Jaeger	Electronic potentiometer	2112U-101	100% - 0.1%	1%	Refer to
Jung	Electronic potentiometer	240-10	100% - 0.1%	1%	manufacturer's
Leviton	lluma Tech dimmer	IP710-DLX	100% - 0.1%	1%	dimmer load
Lightolier (Philips)	Momentum (120V ONLY)	ZP600FAM120	100% - 0.1%	4.0/	rating for
Merten	Electronic potentiometer	5729	100% - 0.1%	1%	maximum and
Pass & Seymour	Titan	CD4FB-W	100% - 0.1%	1%	
Watt Stopper	Miro	DCLV1	100% - 0.1%		quantities per
Synergy	Wallbox Dimmers	ISD BC	100% - 0.1%		dimmer
ABB	i-bus	SD/S 2.16.1	100% - 0.1%	1%	Enlighted
Crestron	Modules	GLX-DIMFLV8, GLXP-DIMFLV8	100% - 0.1%	1%	compatible.
Crestron	Green Light	GLPAC-DIMFLV4-, GLPAC-DIMFLV8-	100% - 0.1%	1%	Compatible.
Crestron	Green Light Power Pack	GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM	100% - 0.1%	1%	
Crestron	DIN Rail Analog Output Module	DIN-A08	100% - 0.1%	1%	
Crestron	DIN Rail 0-10V Fluorescent Dimmer	DIN-4DIMFLV4	100% - 0.1%	1%	
Crestron	iLux 0-10V Dimmer Expansion Module	CLS-EXP-DIMFLV	100% - 0.1%	1%	
enlighted	Control Unit	CU-3E-1R	100% - 0.1%	1%	

### **DIMMING DRIVER WIRING SCHEMES:**

NOTES: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.







# DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D7 / DIML7 and D7E

### **DIMMING DRIVER WIRING SCHEMES:**

### NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

### **IMPORTANT SAFETY INSTRUCTIONS**

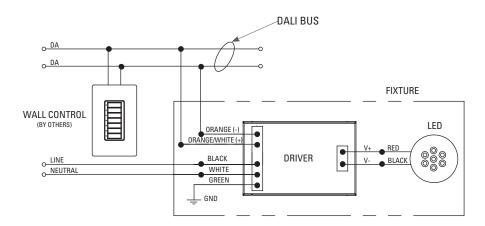
### - SAVE THESE INSTRUCTIONS

- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

### **D7 / DIML7 and D7E Dimming Driver Wiring**

D7 / DIML7 and D7E are linearly programmed dimming drivers.
D7 / DIML7 = EldoLED SOLOdrive DALI control dims from 100% to 0.1%
D7E = EldoLED ECOdrive DALI control dims from 100% to 1%

### D7 / DIML7 / D7E DALI CONTROLS







## DIMMING DRIVER COMPATIBILITY **SELECTION GUIDE** D8 / DIML8 and D8E

### **DIMMING DRIVER WIRING SCHEMES:**

### NOTES

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

### **IMPORTANT SAFETY INSTRUCTIONS**

### - SAVE THESE INSTRUCTIONS

- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

### D8 / DIML8 and D8E Dimming Driver Wiring

D8 / DIML8 and D8E are linearly programmed dimming drivers. D8 / DIML8 = EldoLED POWERdrive DMX control dims from 100% to 0.1% D8E = EldoLED POWERdrive DMX control dims from 100% to 1%

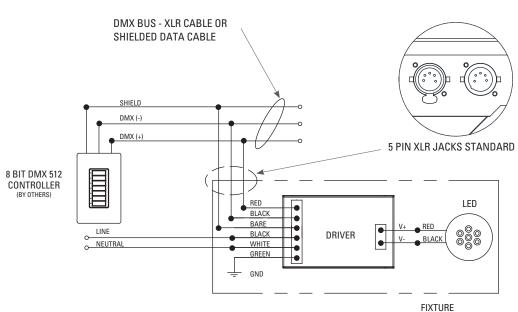
### DMX BUS - XLR CABLE OR SHIELDED DATA CABLE

The data cable used must meet the following requirements:

- type: shielded, 2-conductor twisted pair
- maximum capacitance between conductors: 30 pF/ft
- maximum capacitance between conductor and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances. NOTE: DMX link termination device (by others) should be used on last fixture in line on a circuit to avoid signal loss.

### D8 / DIML8 / D8E **DMX CONTROLS**







## DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D15 / DIML15

### **DIMMING DRIVER WIRING SCHEMES:**

### NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

### **IMPORTANT SAFETY INSTRUCTIONS**

### - SAVE THESE INSTRUCTIONS

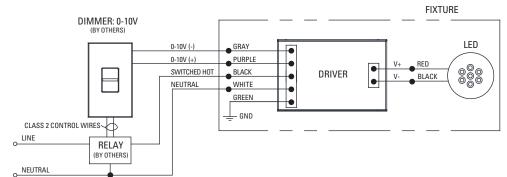
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

### D15 / DIML15 LED: 0-10V, 347V Dimming Driver Wiring (Dims down to 1%) 347V Only

D15 / DIML15 Dimmer Compatibility Chart				
NA C		Dimmed Light	Oty Fixtures	
Manufacturer	Product	Output Range	Per Dimmer*	
347			Use source current per	
Acuity	Synergy ISD-BC	100% - 1%	fixture specification	
Douglas Lighting	WPN-5721, WPN-5822	100% - 1%	sheet to determine	
Hubbell	Light Hawk2 LHD-IRS3-N347-xx	100% - 1%	number of fixtures per	
Leviton	Illumatech IP710-DLZ with 347V relay	100% - 1%	dimmer. Max number	
Leviton	Centura Fluorescent Control System	100% - 1%	of fixtures is limited by	
Lutron	Nova NFTV-* dimmer plus 347V relay	100% - 1%	dimmer load rating.	
Lutron	Diva DVTV-* dimmer plus 347V relay	100% - 1%	diminor load ruting.	

<sup>\*</sup> NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

### D15 / DIML15 0-10V DIMMING W/RELAY TO SWITCH POWER



### NOTE:

If switched, non-dimming operation is desired, cap off purple and gray wires individually at installation. Do NOT cap purple and gray wires together.



## DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D19 / DIML19

### **DIMMING DRIVER WIRING SCHEMES:**

### NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

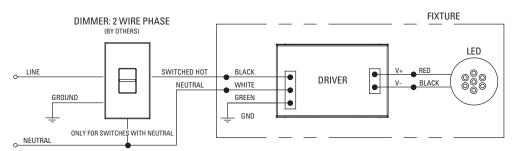
### **IMPORTANT SAFETY INSTRUCTIONS**

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- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

<u>D19 / DIML19 LED</u>: Hatch XTC series or equivalent - Forward and Reverse Phase Dimming Driver. Dims down to 1% contingent upon dimmer specification and load. 120V only.

### D19 / DIML19 2 WIRE PHASE DIMMING



D19 / DIML19 Dimmer Compatibility Chart

120V ONLY				
Forward Phase / TRIAC Dimming				
Manufacturer	Product	Oty Fixtures Per Dimmer		
Leviton	IPL06-10Z	Use fixture wattage per		
	6613-xxx	fixture specification		
Lutron	S-600P	sheet to determine		
	S-603P	number of fixtures		
	DV-600P	per dimmer. Max number		
	DV-603P	of fixtures is limited by		
	DVSC-603P	dimmer load rating.		
	CT-600P			
	CT-603P			

120V ONLY				
Reverse Phase / ELV Dimming				
Manufacturer	Product	Oty Fixtures Per Dimmer		
Leviton	6615	Use fixture wattage per		
	IPE04-xxx	fixture specification		
Lutron	NTELV-300	sheet to determine		
	NTELV-600	number of fixtures		
	SELV-300P	per dimmer. Max number		
	SELV-303P	of fixtures is limited by		
	DVELV-300P	dimmer load rating.		
	DVELV-303P	_		

