

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 Watts		12 Watts		16 Watts 2		24 Watts		33 Watts		36	Watts
Wall Wash		90+		90+		90+		90+		90+		90+
	+08	HIGH	80+	HIGH	80+	HIGH	80+	HIGH	80+	HIGH	80+	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

CCT MULTIPLIER	2200K	270	2700K		3000K		4000K
	80+	80+	90+ HIGH	80+	90+ HIGH	80+	80+
Color Rendering Index	CRI	CRI	CRI	CRI	CRI	CRI	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

HOW TO SPECIFY

Ordering Example: Specify trim code and housing code to order: Example: 3851W - B1 - 10 - LSLW4 - 6012 - C3 - 27KS - W2 - NC - 277V - DIML2 - CB27

TRIM ORDERING INFORMATION

TRIM	OPTION	BEVEL STYLE	B1 BEVEL FINISH
3851		-	-
3851 Square Trimless Wall Wash 1" Regress	W Wet location ¹ 1 Wet location, use with B1 trims only.	B1 1" Regress Bevel, Painted Die Cast	10 White 13 Statuary Bronze 21 Black 28 Metalized Grey RAL Custom Color (specify RAL#)
		AB1 1" Regress Bevel, Black Anodized Finish AC1 1" Regress Bevel, Clear Matte Anodized Finish	(Leave blank for AB1 and AC1 Bevel Styles)

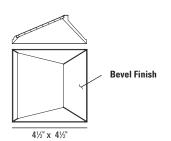


HOUSING ORDE	RING INFORMA	TI	ON					SELECT ONE	DIMMING DRIVER	
HOUSING CODE	WATTAGE		ENGINE COL	DE	COLOR	REFLECTOR	HOUSING TYPE	VOLTAGE	OPTIONS	ACCESSORIES
LSLW4	-	-		-		-	-			-
LSLW4	6009 9W LED 6012 12W LED 6016 16W LED 6024 24W LED 6033 33W LED		C3	27KS 30KS 35KS 40KS 27KH 30KH	2200K, 80+ CRI 2700K, 80+ CRI 3000K, 80+ CRI 3500K, 80+ CRI 4000K, 80+ CRI 2700K, 90+ CRI 3000K, 90+ CRI	W2 Wall Wash Optic 2.1 Style	FT Flat Housing New Construction FIC Flat Housing IC-Rated/Airtight (up to 16W maximum) NCSM1 New Construction Narrow Width, 5/8" to 1-1/4" ceiling max NCSM2 New Construction Narrow Width 1-1/4" to 2-1/4" ceiling max NC New Construction, all in one CP Chicago Plenum IC Insulation-Contact Rated / Airtight		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% 2 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%, logarithmic/Lutron controls DIML6F EldoLED 0-10V, 1%, linear controls DIML6F EldoLED DALI, 0.1% DIML8 EldoLED DALI, 0.1% DIML8 EldoLED DALI, 0.1% DIML8 EldoLED DALI, 0.1% DIML8 LID DALI, 0.1% 3.4	CB27 27" C-Channel Bars CB52 52" C-Channel Bars EML Emergency battery ⁶ EMLW Emergency battery, wet location ⁶ MLXX Millwork housing ⁷ XX=Specify Color (10, 13, 21, 28, RAL) Millwork not wet listed
	6036 36W LED		E1	30KS	2700K, 80+ CRI 3000K, 80+ CRI 3500K, 80+ CRI	W1 Wall Wash Optic MX Style	NC New Construction, all in one CP Chicago Plenum	347V	120V only DIML19 Phase 2-wire dimming, 1% 120V only ^{2, 3,5} For use with 347V only DIML15 0-10V dim, 1%, 347 only	⁶ See emergency solutions chart
	See performance chart for precise lumen information			27KH	4000K, 80+ CRI 2700K, 90+ CRI 3000K, 90+ CRI		See emergency solutions chart for EM options with these housings	² N/A with 9V ³ N/A with 33	/ / W or FTIC housing	for more details on EM options. Not available with 347V ⁷ ML option N/A with NCSM1 housing



TRIM INFORMATION





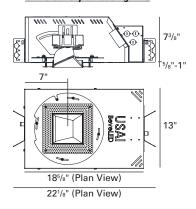
3851 Emergency Solutions

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

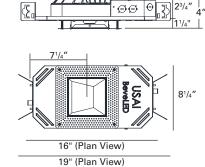
^{*} NCSM + DIML8 cannot be offered with EM. 347V cannot be offered with EM

HOUSING INFORMATION

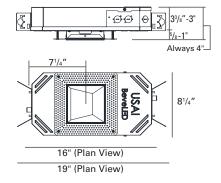
New Construction Universal Style Housing - NC



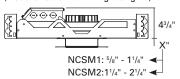
New Construction Flat Housing - FT

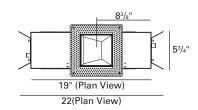


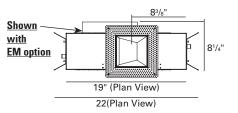
New Construction Flat Housing IC-Rated /Airtight- FTIC (up to 16W maximum)



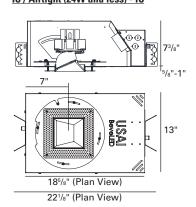
New Construction - Narrow Width - NCSM (Not available with E1 light engine)

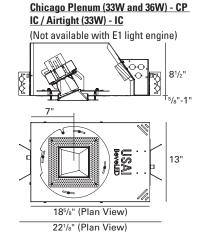






Chicago Plenum (24W and less) - CP IC / Airtight (24W and less) - IC





WALL WASH 3851

SPECIFICATIONS

TRIM: 4-1/2" square aperture with a 1" regressed bevel, retained by four mounting clips. Die cast aluminum bevel is available in white, statuary bronze, black, and metalized grey finishes. Also available in black anodized or clear matte anodized bevel. Custom colors available (provide RAL#).

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).

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.

PHOTOMETRICS: Consult factory or website for IES files. Tested in accordance with IESNA LM79-2008.

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.

HOUSING: All-Ways Square® (covered by US Pat. No: US 7,832,889) housing allows alignment square aperture (up to 20° rotation) after housing installation and prior to finish ceiling installation.

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 DIML 6E logarithmic control are intended for use with Lutron control systems; DIML6B and DIML6F 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.

MAXIMUM CEILING THICKNESS: As per drawings above. Millwork option is for 2-1/4" max. thickness wood with NCSM2 housing and for 1" max thickness wood with all other housings. Millwork option is not available with NCSM1 housing.

CEILING CUT OUT: Millwork: 4-13/16" x 4-13/16" All others: 5-1/2" x 5-1/2" 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. When using DIML8, NCSM housing can NOT be used with thru-branch circuit wiring.

LISTINGS: Dry/Damp. Wet location option available with B1 trim only. Millwork Dry/Damp 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

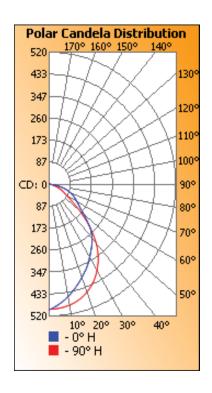
- Not for use in corrosive environment.
- Use of pressure washer voids warranty.
- For interior use only.
- Not for use with acoustical ceilings.
- Trimless for drywall installation only.
- Millwork option for non-spackle installations.



DELIVERED PERFORMANCE

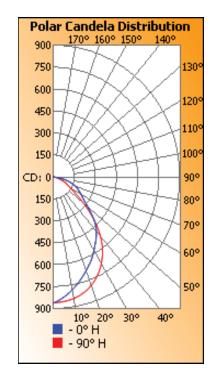
3651 / 3851 16W 30KS

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



3651 / 3851 33W 30KS

Zonal	Lumen 9	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%
90-120	0	0%





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.

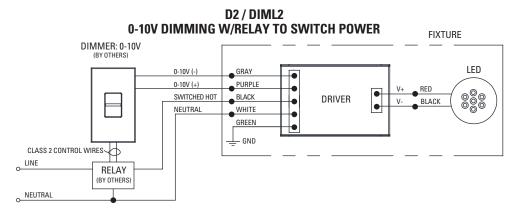
IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

- 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%)

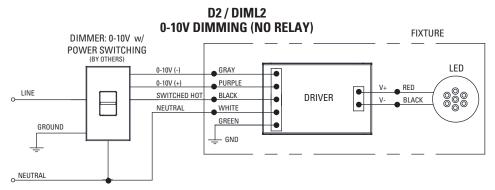
	D2 / DIML2 Dimmer Compatibility Chart									
			Dimmed Light	Oty Fixtures Per Dimmer*						
<u>Manufacturer</u>	Product	Part Number	Output Range	Per Dimmer*						
120V / 277V				Use source current per						
Crestron	iLux dimmer expansion module	CLS-EXP-DIMFLV	100% - 10%	fixture specification						
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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- SAVE THESE INSTRUCTIONS

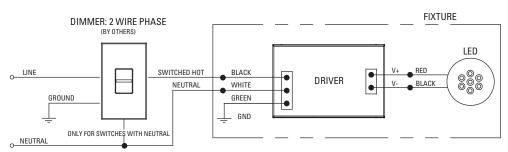
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D3 / DIML3 LED: Lutron Hi-Lume A-Series 2 Wire Fwd Phase (with neutral) / LED Dimming Driver Wiring (Dims down to 1%) 120V

	D3 / DIML3 Dimmer Compatibility 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					

^{*} 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.

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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

^{*} 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:

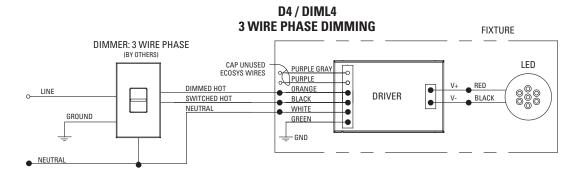
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D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with 3-Wire FL Control / LED Dimming Driver Wiring (Dims down to 1%)

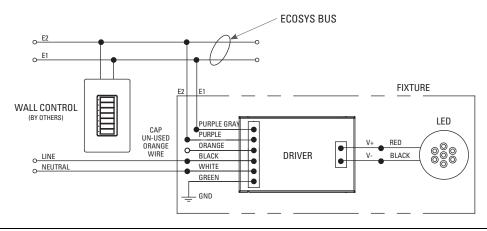


D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with EcoSystem Control / LED Dimming Driver Wiring (Dims down to

	D4 / DIML4 EcoSystem Dimmer Compatibility Chart									
	Dimmed Light Qty Fixtures Per Control*									
Manufacturer	Product	Part Number	Output Range	Fixture	Wattage					
120V / 277V				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					

^{*} 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 / DIML4E EcoSystem Dimmer Compatibility Chart								
			Dimmed Light						
<u>Manufacture</u>	Manufacturer Product Part Number Output Range Fixture Wattage								
120V / 277V 39W and Less 40W - 80									
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				

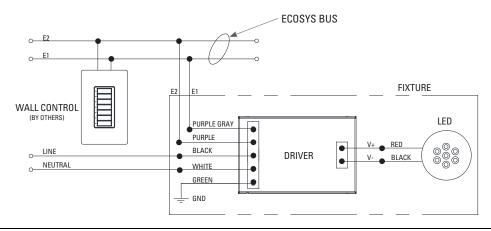
^{*} NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

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

D4H / DIML4H EcoSystem Dimmer Compatibility Chart					
			Dimmed Light	Oty Fixtures Pe	r Control*
Manufactu	rer Product	Part Number	Output Range	Fixture	Wattage
120V / 277V	120V / 277V 39W and Less 40W - 80			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

^{*} 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	Oty Fixtures	
Manufacturer	Product	Part Number	Output Range	Per Dimmer*	
120V & 277V DIML6A 6E Refer to manufa			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%		

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

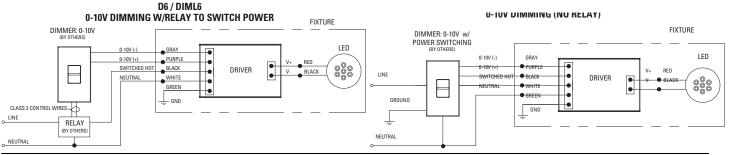
D6B / DIML6B and D6F / DIML6F LED Dimming Compatibility Table

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%

	DCD / DIMICE and DCF / DIMICE Diminion Commercialities Change				
Manufacturer	D6B / DIML6B and D6F / DIML6F Dimmer Compatibility Chart Dimmed Light Product Part Number 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

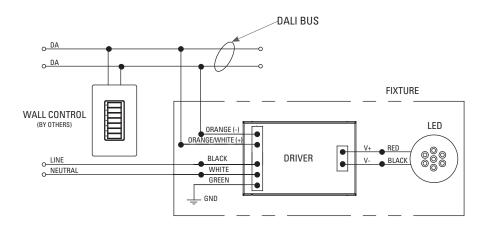
- SAVE THESE INSTRUCTIONS

- 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

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- 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%

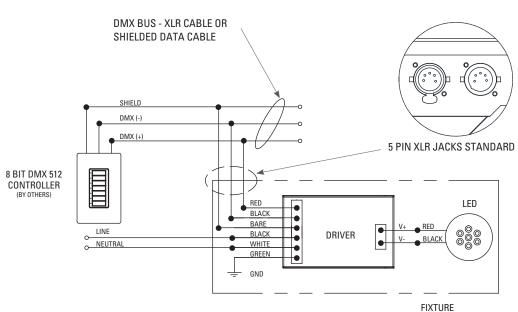
DMX BUS - XLR CABLE OR SHIELDED DATA CABLE

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

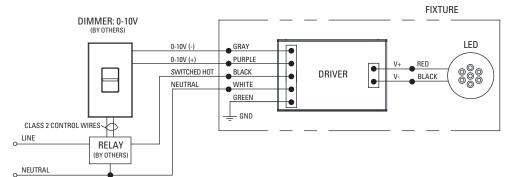
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are 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 6 1		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.	

^{*} 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.

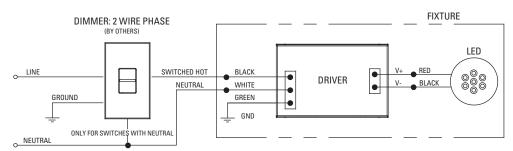
IMPORTANT SAFETY INSTRUCTIONS

- SAVE THESE 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	_		

