Tech Lighting Architectural - Dimmer Compatibility Chart

Applicable for Multiples (LED ONLY)

Test Methodology/Nomenclature:

% = light output at a given point vs. max light output when measured without a dimmer

Top = % light output at top of dimmer setting

Bottom = % light output at bottom of dimmer setting (stable, without experiencing flicker/shimmer)

Turn-on/Pop-on = % light output (initial) required for all lights to turn-on within 1 seconds

Drop-out = fixture turns off before reaching the bottom dimmer setting

* = most recommened

F = Forward Phase (Leading Edge / Triac / Incandescent / Lutron C.L)

R = Reverse Phase (Trailing Edge / ELV)

W = Wireless Compatible

STANDARD 120V PHASE DIMMING (Forward/Reverse)

(-3001 used since November 2018)

Compatible / Recommended									
Manufacturer	Name	Tested Part Number	Туре	Тор	Bottom	Pop-On	Drop- Out	Notes	
Lutron	RadioRa 2	RRD-6NA	F, R, W	100 %	1.4 %	4.6 %	Yes	also MRF2-6ELV, trim adjust. avail.	
Lutron	HomeWorks QS	HQRD-6NA	F, R, W	92 %	0.1 %	4.8 %	Yes	trim adjustment available	
Lutron	HomeWorks QS	RPM-4A-120 (-4U)	F, R, W	100 %	3.0 %	5.8 %	Yes	Forward/MLV recommended	
Lutron	Din Rail	LQSE-4A-120-D	F, R, W	100 %	8.0 %	6.0 %	Yes	trim adjustment available	
Lutron	Caseta ELV+	PD-5NE	F, R, W	100 %	0.1 %	1.7 %	Yes	trim adjustment available	
Lutron	Caseta	PD-6WCL	F, W	87 %	0.1 %	1.3 %	Yes	trim adjustment available	
Lutron	Diva Reverse Phase	DVRP-253P	R	100 %	0.2 %	8.5 %		no trim adjustment available	
Lutron	Diva*	DVCL-153P*	F	100 %	0.1 %	0.9 %	Yes	trim adjustment available	
Lutron	Toggler / Ariadni	TGCL-153P	F	100 %	0.1 %	1.3 %	Yes	trim adjustment available	
Lutron	Maestro	MACL-153M	F	89 %	0.1 %	1.5 %	Yes	trim adjustment available	
Leviton	Decora	DSL06-1LZ	F	100 %	0.4 %	1.5 %	Yes	trim adjustment available	
Leviton	Decora Smart	DW1KD-1BZ	F, W	100 %	1.0 %	1.5 %		trim adjustment available	
Legrand	Harmony	HCL45-3PW	F	100 %	0.1 %	3.5 %	Yes	trim adjustment available	
Legrand	Adorne	ADTP600RMHW1	F, R, W	70 %	0.5 %	1.3 %		trim adjustment available	
Legrand	Adorne	ADTH700RMTUW1	F, R, W	92 %	0.7 %	7.5 %		trim adjustment available	
Insteon	Insteon Dimmer	2477D	R, W	100 %	0.1 %	0.1 %			
Forbes & Lomax	F&L Collection	FLR603P	F	100 %	0.1 %	1.1 %	Yes	no trim adjustment available	
Control4	Decora Adaptive	C4-APD120	F, R	100 %	5.2 %	7.0 %	Yes	trim adjustment available	
Control4	Decora Forward	C4-FPD120	F	100 %	0.6 %	3.0 %	Yes	trim adjustment available	
Crestron	iLux	CLS-C6	F	100 %	3.0 %	value is with trim set to remove pop-on/drop-out			
Crestron	iLux Expansion Mod.	CLS-EXP-DIM	F	100 %	2.0 %	value is with trim set to remove pop-on/drop-out			
Crestron	iLux Expansion Mod.	CLS-EXP-DIMU	F, R	100 %	10.0 %	value is with trim set to remove pop-on/drop-out			
Crestron	4 Channel Mod.	CLX-1DIMU4-HP	F, R	100 %	7.0 %	value is with trim set to remove pop-on/drop-out			
Crestron	8 Channel Mod.	CLX-2DIM8	F	100 %	4.0 %	value is with trim set to remove pop-on/drop-out			
Crestron	8 Channel Mod.	CLX-2DIMU8	F, R	100 %	7.0 %	value is with trim set to remove pop-on/drop-out			
Crestron	4 Channel DIN Rail	DIN-1DIM4	F	100 %	4.0 %	value is with	r trim set to	remove pop-on/drop-out	
Crestron	4 Channel DIN Rail	DIN-1DIMU4	F, R	100 %	7.0 %	value is with	n trim set to	remove pop-on/drop-out	
Crestron	Cameo	CLW-DIMEX-E	F, W	100 %	4.0 %	value is with	r trim set to	remove pop-on/drop-out	
Crestron	Cameo	CLW-DELVEX	R, W	100 %	7.0 %	value is with	r trim set to	remove pop-on/drop-out	
Crestron	Green Light	GL-EXP-DIMU-CN	F, R	100 %	8.0 %	value is with trim set to remove pop-on/drop-out			
Crestron	Green Light	GL-EXP-DIMU-DALI	F, R	100 %	8.0 %	value is with	value is with trim set to remove pop-on/drop-out		
Crestron	Green Light Express	GLXX-2DIM8	F, R	100 %	4.0 %	value is with	r trim set to	remove pop-on/drop-out	



Not Recom	mended or Incompa	atible						
Lutron	Nova T	NTELV-600	R	73 %	0.2 %	7.4 %		per Lutron: not UL rated for LEDs
Lutron	Skylark	SELV-300P	R	76 %	0.2 %	8.4 %	-	per Lutron: not UL rated for LEDs
Lutron	Diva	DVELV-300P	R	100 %	1.2 %	-	1	per Lutron: not UL rated for LEDs
Lutron	Maestro	MAELV-600P	R	100 %	1.4 %	-	-	per Lutron: not UL rated for LEDs
Lutron	Glyder	GL-600P-WH	F	100 %	0.4 %	1.1 %	Yes	per Lutron: not UL rated for LEDs
Lutron	Skylark	S-600P	F	100 %	0.0 %	1.5 %	Yes	per Lutron: not UL rated for LEDs
Lutron	Ariadni	AY-600P-WH	F	100 %	0.1 %	0.6 %	Yes	per Lutron: not UL rated for LEDs
Lutron	Rotary Dimmer	DV-600P-WH	F	100 %	0.0 %	2.5 %	Yes	per Lutron: not UL rated for LEDs
Lutron	Diva	DV-600P	F	100 %	0.1 %	1.1 %	Yes	per Lutron: not UL rated for LEDs

LUTRON HI-LUME 2-WIRE LTE 1% DRIVER

Compatible / Recommended

For Lutron Hi-Lume 2-wire LTE 1% driver options, refer to Lutron's Technical Document Library for the latest dimmer compatibility listings and performance specifications.

http://www.lutron.com/TechnicalDocumentLibrary/369543 ENG.pdf

Notes:						
	1) Results may vary for a number of reasons including the following:					
	- job site line voltage fluctation					
Performance	- fixture to dimmer distance					
Variation	- number of fixtures per dimmer, i.e. dimmer load					
	- dimmer tolerances					
	- driver/COB manufacturing tolerances					
Tested	2) Test results reflect: 150W load, dimmers trimmed to their lowest level.					
Conditions	Crestron and Control4 tested with 75W load.					
Unlisted Dimmers	3) For additional compatibility, please submit specific request to factory					
	4) Most modern dimmers and control systems allow bottom and top end levels to be trimmed, limiting the usable					
	dim range in order to suit the lighting designer or end user's preferences. See Image 1.					
	5) Adjustment of the trim settings may be preferred for a number or reasons, including:					
	- limiting the brightness of the fixture at full-on					
Trim Settings	- reducing "popcorn" affect if multiple fixtures come on at different times					
	- reducing "pop-on time" if there is an undesirable delay at turn-on from the off-state					
	- eliminating "pop-on" if the fixture does not turn on at the lowest dimmer setting					
	- eliminating "drop-out" if the fixture turns off prior to reaching the lowest dimmer setting					
	- eliminating low-end flicker or shimmer or buzzing, if present					
	6) Modern control systems (Homeworks, RadioRa, Control 4, etc.) can be programmed in a number of ways including					
	to turn on at a higher level then immediately dim lower after a short/settable time interval. For example, to reduce					
Programming	pop-on time, popcorning effect, or low-end flicker/shimmer, the control system can be programmed to turn-on at					
	5% then dim down to 0.8% after 0.5 seconds, thus allowing the full dimming range to be available once the fixture					
	is in the on-state. See Image 2.					
Digital System	7) Modern control systems (Homeworks, RadioRa, Control 4, etc.) can be programmed to adjust light levels. However,					
Input	there is non-linear correlation between the light level selection values and the actual light output of the fixture.					
VS.	For example, a program setting of "50%" on the control system may correlate to 17% actual light output, a program					
Actual Light	setting of "20%" may correlate to 2% actual light output. See Image 3.					
Output						
Slider Position	8) Like modern control systems, slider dimmers have a non-linear correlation between the slider position and the					
VS.	actual light output of the fixture. For example, a slider position of \sim 75% on the dimmer may correlate to 40% actual					
Actual Light	light output and a slider position of ~25% on the dimmer may correlate to 4% actual light output. See Image 3.					
Output						
Eye Perception	9) The human eye responds to low light levels by enlarging the pupil, allowing more light to enter the eye. This					
vs.	response results in a difference between measured (actual) and perceived light levels. The dilation of the pupil					
Actual Light	allows more light to enter the eye so that a fixture dimmed to 10% of its maximum measured light output is					
Output	perceived as being dimmed to only 32%. Likewise, a fixture dimmed to 1% is perceived to be at 10%. See Image 3.					



