Visual Comfort Architectural - Dimmer Compatibility Chart

Applicable for ELEMENT 2" and 3", ELEMENT 4" 17W, ELEMENT MULTIPLES ALL (LED ONLY)

Applicable for ELEMENT 4" LED PRO 12W & 17W, ELEMENT CYLINDERS ALL SIZES.

Applicable for ENTRA 12W & 18W, ENTRA CL 2" 12W, ENTRA CL 3" 12W & 15W,

Applicable for ENTRA CYLINDERS 12W & 15W

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

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)

(PTB, used since July 2020)

	Recommended	(Single System Color)						(FTB, used since July 2020)
Manufacturer	Name	Tested Part Number	Туре	Тор	Bottom	Pop-On	Drop- Out	Notes
Lutron	RadioRa 2	RRD-6NA	F, R, W	100 %	1.4 %			also MRF2-6ELV
Lutron	RadioRa 2	RRD-10ND	F, W	100 %	1.3 %			also MRF2-6ND
Lutron	RadioRa 2	RRD-H6BRL	F, W	100 %	1.4 %			
Lutron	Vive	MRF2S-6CL	F, W	99 %	1.4 %			also RRD-6CL, HQRD/A-6CL
Lutron	Caseta ELV+	PD-5NE	F, R, W	94 %	1.4 %			
Lutron	Caseta	PD-6WCL	F, W	100 %	1.4 %			
Lutron	Diva Reverse Phase	DVRP-253P	R	100 %	1.2 %			
Lutron	Diva	DVCL-253P	F	100 %	1.0 %			Limit to a maximum of 175 Watts.
Lutron	Maestro	MACL-153M	F	100 %	1.3 %		Yes	trim adjustment available
Lutron	Vive	RMJS-PNE-DV	F, R, W	99 %	2.0 %	2.0 %		
Lutron	Maestro PRO LED+	MA-PRO	F, R	100 %	1.0 %	0.4 %		
Leviton	Decora Smart	DW1KD-1BZ	F, W	100 %	3.2 %			
Leviton	Decora Rocker Slider	DSE06-10Z	R	96 %	1.4 %			
Leviton	Decora SureSlide	6672	F	93 %	4.0 %			
Legrand	Radiant	RHL743P	F	94 %	1.4 %			
Legrand	Adorne	ADTP600RMHW1	F, R, W	100 %	1.4 %			
Legrand	Adorne	ADTH700RMTUW1	F, R, W	100 %	1.4 %			
Insteon	Insteon Dimmer	2477D	R, W	100 %	1.4 %			
Control4	Decora Forward	C4-FPD120	F	100 %	1.4 %			
Forbes & Lomax	F&L Collection	Z0KP100.24US	F	100 %	0.8 %			
Advanced Cor	strals Contact Tool	anical Support						
Auvanceu Cor	ntrols - Contact Tecl	inical Support						
Acuity	nLIGHT	nPODMA DX		100 %	2.0 %	1.20%		•
Eaton	Halo Home	HIWMA1BLE40A		97 %	4.0 %	3.5 %		
Hubbel	NX	NXSW-ORLO		100 %	2.5 %	4.1 %		
Legrand	Wattstopper Room Con	LMDM-101-W		100 %	2.0 %	2.5 %		
Osram	Encelium	EN-WS-2B-GB2		100 %	2.0 %	5.5 %		
Crestron	Zum Lighting Controller	ZUMMESH-5A-LV-W-S		100 %	2.0 %	3.3 %		

Lutron	HomeWorks QS	HQRD-10ND	F, W	100 %	1.3 %	 	
Lutron	HomeWorks QS	RPM-4A-120 (-4U)	F, R, W	100 %	1.0 %	 	
Lutron	Din Rail	LQSE-4A-120-D	F, R, W	100 %	1.0 %	 	
	-	-		-	-		

Not Recom	nmended or Incomp	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 %			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
Eaton	Toggle Dimmer	TAL06P2	F	100 %	1.4 %			Incompatible
Control4	Decora Adaptive	C4-APD120	F, R					Incompatible

0-10V DIMMING (PTB, used since July 2020)

Compatible /	Recommended								
Manufacturer	Name	Tested Part Number	Туре	Тор	Bottom	Pop-On	Drop- Out	Notes	
Lutron	Diva	DVSTV	0-10V	100 %	1.0 %				
Control4	Decora 0-10V	C4-TV120277	0-10V	100 %	3.0 %	35.0 %			
Control4	8 Channel 0-10V	C4-DIN-8TV-E	0-10V	100 %	1.0 %	12.0 %			

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 vs.	8) Like modern control systems, slider dimmers have a non-linear correlation between the slider position and the
vs. Actual Light	actual light output of the fixture. For example, a slider position of \sim 75% on the dimmer may correlate to 40% actual
Output	light output and a slider position of \sim 25% on the dimmer may correlate to 4% actual light output. See Image 3.
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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.



