ERP POWER

Dimming Compatibility Matrix with 120 Vac TRIAC and ELV Dimmers

EBR015U-0350-42	Total Score:	94.8%	Driver Current (mA) with no Dimmer:	344	Driver Light (FC) with no Dimmer:		Scoring: 0 - Needs improvement; 1 - Unlikely to be noticed; 2 - No issues
	Average Min. Dimming:	3.5%					

Dimmer List		Indiv. Score	Cond. Angle (Deg)		Input Voltage (Vrms)		Light Output (Foot Candle)		Current (mA)		Dimming Range (%) [1]		Smooth Dimming[2]	Sag[3]	No Start Flash[4]	Flicker[5]	Shimmer[6]	Able to turn off[7]	Audible Noise[8]
Mfg.	Model		Max.	Min.	Max	Min	Max.	Min.	Max	Min	Max	Min							
Lutron	S-603PG	91.7%	121.83	38.02	105.1	26.7			295	15	86%	4%	2	14.0%	2	2	2	2	2
Leviton	IPI06-1LZ	95.8%	146.02	34.56	115.6	20.5			342	1	99%	0%	2	1.0%	1	2	2	2	2
Leviton	6631-2	95.8%	149.48	31.11	115.9	19.0			343	1	100%	0%	2	0.0%	1	2	2	2	2
Lutron	DVCL-153P	91.7%	142.57	33.27	113.0	20.1			342	1	99%	0%	2	1.0%	2	2	1	2	2
Lutron	DV600P	75.0%	139.11	34.56	114.0	25.0			342	12	99%	3%	0	1.0%	2	0	2	2	2
Lutron	TGCL-153P	100.0%	142.57	33.70	114.4	21.8			342	6	99%	2%	2	1.0%	2	2	2	2	2
Lutron	S600P	100.0%	140.84	31.11	114.0	20.7			342	4	99%	1%	2	1.0%	2	2	2	2	2
Leviton	VPE06	91.7%	158.12	43.20	117.9	27.9			343	18	100%	5%	2	0.0%	0	2	2	2	2
Lutron	DVELV303P	91.7%	146.89	42.34	111.5	23.5			335	9	97%	3%	2	3.0%	2	2	2	2	2
Lutron	SELV300P	91.7%	137.38	41.47	111.0	24.1			332	10	97%	3%	2	3.0%	2	2	2	2	2
Leviton	6673-10W	100.0%	152.07	43.20	114.0	28.8			342	19	99%	6%	2	1.0%	2	2	2	2	2
Leviton	6683-IW	91.7%	167.62	27.65	118.4	23.1			343	8	100%	2%	2	0.0%	0	2	2	2	2
Leviton	6161	100.0%	139.11	49.25	114.7	36.2			342	35	99%	10%	2	1.0%	2	2	2	2	2
Leviton	6633-P	91.7%	159.85	30.24	117.9	18.8			343	1	100%	0%	2	0.0%	0	2	2	2	2
Lutron	TG-600P	95.8%	144.29	52.71	115.3	40.6			342	46	99%	13%	2	1.0%	1	2	2	2	2
Cooper	DLC03P	91.7%	159.85	31.97	117.8	19.0			343	1	100%	0%	2	0.0%	0	2	2	2	2
Lutron	LG600P	100.0%	140.84	39.75	114.2	27.7			342	17	99%	5%	2	1.0%	2	2	2	2	2
Lutron	CT103P	100.0%	140.84	41.47	114.0	29.9			342	21	99%	6%	2	1.0%	2	2	2	2	2
Cooper	SLC03P	91.7%	158.12	32.83	117.7	21.2			343	1	100%	0%	2	0.0%	0	2	2	2	2
Leviton	IPE04	95.8%	155.74	39.75	115.5	23.5			342	9	100%	3%	2	0.0%	1	2	2	2	2
Lutron	MAELV600	100.0%	142.57	47.52	113.8	30.7			342	23	99%	7%	2	1.0%	2	2	2	2	2
Lutron	FAELV500	100.0%	144.29	49.25	113.9	31.1			342	24	99%	7%	2	1.0%	2	2	2	2	2
Lightolier	ZP260QEW	100.0%	140.84	41.47	113.7	23.8			342	10	99%	3%	2	1.0%	2	2	2	2	2
Cooper	DAL06P	91.7%	156.39	26.79	117.7	19.4			343	1	100%	0%	2	0.0%	0	2	2	2	2

NOTES:

1. If light is measured, then the dimming range is based on light output. If light is not measured, then the dimming range is based on the percentage of output current.
2. While adjusting the dimming level, a smooth dimming, with no sudden jumps in light output, results in a score of 2. A small jump that is only noticeable if directly staring at the light results in a score of 1. A large obvious jump results in a score of 0.
3. Percentage away from 100% output current when dimmer is inserted in the circuit, at the dimmer's maximum conduction angle.
4. No flash at startup (at maximum conduction angle) results in a score of 2. A smooth, but still noticeable transition from overshoot results in a score of 1. A transition with overshoot and undershoot results in a score of 0.
5. Highly visible repeating light fluctuations. No flicker results in a score of 2. Flicker results in a score of 0. There is no "1" score. Flicker is measured using a stable AC source delivered by a power supply. AC line voltage instability will cause visible light fluctuations.
6. Low frequency or random variations in light output that are typically less noticeable than flicker (the light output does not turn off at any point). No shimmer, perfect light output, results in a score of 2. Only noticeable shimmer, if staring directly at the LEDs, results in a score of 1. Obvious shimmer, even if looking away from the LEDs, results in a score of 0. Like Flicker, Shimmer is measured using a stable AC source delivered by a power supply. AC line voltage instability will cause visible light fluctuations.
7. No light output when dimmer switch or button is turned off.
8. Audible noise with driver located at 3 feet and measured at 90 degree conduction angle (worst case). A strongly apparent noise resuts in a score of 0. A score of 1 is assigned if the noise is not very obvious, and most likely to not be noticed inside of a fixture.
9. All the dimmers are set to the widest dimming range, when the trim potentiometer is available. Testing is done with 1 dimmer per LED driver.