ERP POWER

Dimming Compatibility Matrix with 120 Vac TRIAC, ELV Dimmers

EBR010U-0400-24		Total Score:	91.3%	Driver Current (mA) with no Dimmer:		432	Driver Light (FC) with no Dimmer:		848	Scoring				
		Average Min. Dimming:	6.5%							0 - Needs improvement				
										1 - Unlikely to be noticed				
										2 - No issues				
Dimmer List		Indiv. Score	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		%							
									5		5	10	10	10	10
Lutron	S-603PG	91.7%	715	22	355	10	84%	3%	2	18.0%	2	2	2	2	2
Leviton	IPI06-1LZ	100.0%	828	71	422	31	98%	9%	2	2.0%	2	2	2	2	2
Leviton	6631-LW	75.0%	824	7	420	4	97%	1%	2	3.0%	2	2	0	2	2
Lutron	DVCL-153P	91.7%	795	32	403	15	94%	4%	2	7.0%	2	2	2	2	2
Lutron	DV600P	75.0%	620	9	300	5	73%	1%	2	31.0%	2	0	2	2	2
Lutron	TGCL-153P	91.7%	795	6	403	3	94%	1%	2	7.0%	2	2	2	2	2
Lutron	S600P	91.7%	815	76	413	34	96%	9%	2	4.0%	2	2	2	2	2
Leviton	VPE06	91.7%	801	99	406	44	95%	12%	2	6.0%	2	2	2	2	2
Lutron	DVELV303P	91.7%	790	65	400	29	93%	8%	2	7.0%	2	2	2	2	2
Lutron	SELV300P	91.7%	804	61	408	27	95%	8%	2	6.0%	2	2	2	2	2
Leviton	6683-IW	83.3%	842	21	432	10	99%	2%	2	0.0%	2	0	2	2	2
Leviton	6161	83.3%	813	130	413	55	96%	16%	2	4.0%	2	2	2	2	2
Leviton	6633-P	100.0%	840	17	432	8	99%	2%	2	0.0%	2	2	2	2	2
Lutron	TG-600P	83.3%	797	133	406	58	94%	17%	2	6.0%	2	2	2	2	2
Cooper	DLC03P	100.0%	841	27	432	13	99%	3%	2	0.0%	2	2	2	2	2
Lutron	LG600P	91.7%	800	73	407	33	94%	9%	2	6.0%	2	2	2	2	2
Lutron	CT103P	91.7%	810	86	410	38	96%	11%	2	5.0%	2	2	2	2	2
Cooper	SLC03P	100.0%	836	2	431	2	99%	0%	2	0.0%	2	2	2	2	2
Leviton	IPE04	100.0%	830	43	422	24	98%	5%	2	2.0%	2	2	2	2	2
Lutron	MAELV600	91.7%	820	68	415	38	97%	8%	2	4.0%	2	2	2	2	2
Lutron	FAELV500	91.7%	813	102	412	46	96%	13%	2	5.0%	2	2	2	2	2
Lightolier	ZP260QEW														
Cooper	DAL06P	100.0%	850	12	448	8	100%	1%	2	-4.0%	2	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.