

LED Dimmer/Bulb Compatibility

Toggle Dimmer

TSL06





Leviton is proud to be a leader in the electrical industry by using the latest technology to develop products that enhance daily living and help save energy. Sharing our knowledge and experience with you is an important part of our brand promise to put our customers at the center of everything we do.

This report was developed to help you understand how to best pair today's LED bulbs with Leviton dimmers so you can locate the best combination to meet your lighting needs.

LED vs Incandescent Bulbs

Incandescent bulbs are rapidly being phased out in favor of longer-lasting, more energy efficient LED bulbs. Because their circuitry is more complex, not all LED bulbs will dim smoothly, and some may present other inconsistencies such as flickering, slow start-up, limited dimming range or inconsistent illumination.



Compatibility is Key

In order to achieve the best performance, it is important to ensure that the LED bulb and dimmer you select are compatible when used together. Existing dimmers in older homes are likely "Incandescent only" dimmers – installed before LED bulbs became mainstream. Incandescent dimmers are not rated for use with LED bulbs. Leviton recommends only using LED bulbs with dimmers that are rated to control an LED load.



Testing for Compatibility

Leviton is dedicated to providing our customers with the best experience when using Leviton dimmers. We work closely with LED bulb manufacturers and have a dedicated team in our in-house lab that conducts ongoing testing of the latest LED bulbs/fixtures with our LED dimmers to determine the best combinations.

This test program is designed to meet or exceed the latest testing criteria for evaluating performance of LED bulbs with Leviton dimmers. We measure a number of factors including dimming range and irregular functionality such as flickering or shimmering, slow start up, noise (humming/buzzing) levels and inconsistent illumination. The testing is ongoing and results are updated regularly in our user friendly LED Compatibility Selector Tool available at Leviton.com/led.

Understanding the Rating System

Our ratings will help you determine which bulbs/fixtures have been tested and approved as compatible with Leviton LED dimmers. All results listed within this report are deemed compatible. The bulbs that display an asterisk (*) after the model# are those that had exceptional performance and compatibility beyond our criteria.

**LED Bulb Compatibility
Toggle Slide Dimmer - TSL06**



Bulb Type	Bulb Manufacturer	Model #	Wattage	Equivalent Wattage	Color/Temperature (K)
4 in Retrofit	Cree	SRDL4-0572700FH-12DE26-1-11*	8	55	Daylight (5000K)
		SRDL4-0575000FH-12DE26-1*	8	55	Daylight (5000K)
		TRDL4-0782700FH50-12DE26-1-11*	10.5	75	Soft White (2700K)
		TRDL4-0784000FH50-12DE26-1-11004S-D*	10.5	75	Cool White (4000K)
6 in Retrofit	Cree	TRDL6-0802700FH50-12DE26-1-11004S-D*	11	75	Soft White (2700K)
		TRDL6-1102700FH50-12DE26-1-11*	14.5	100	Soft White (2700K)
		TRDL6-0804000FH50-12DE26-1-11004S-D*	11	75	Cool White (4000K)
		TRDL6-1104000FH50-12DE26-1-11004S-D*	14.5	100	Cool White (4000K)
	EcoSmart	DL-N34A9ER1-27	9	65	Soft White (2700K)
	Westinghouse	5054000	10	65	Daylight (5000K)
		5056000*	11	65	Daylight (5000K)
A15	EcoSmart	ECS A15 40WE W27 120 G1*	4	40	Soft White (2700K)
	Philips	046677463960*	5.5	40	Warm Glow (2200-2700K)
A19	Amazon Basic	B01MTO11GI*	6	40	Daylight (5000K)
		B00BXXBG76*	10	60	Soft White (2700K)
		B01MRKXX6E*	11	75	Daylight (5000K)
	Cree	SA19-08127MDFD-12DE26-1-14	9.5	60	Soft White (2700K)
		SA19-08150MDFD-12DE26-1-14*	8.5	60	Daylight (5000K)
		SA19-11027MDFD-12DE26-1-11*	10.2	75	Daylight (5000K)
		SA19-11050MDFD12DE26-1-11*	10.2	75	Daylight (5000K)
	EcoSmart	B7A19A40WESD34*	5.7	40	Daylight (5000K)
		C5A19A40WESD09*	5.6	40	Daylight (5000K)
		B7A19A40WESD02*	5.7	40	Bright White (3000K)
		A7A1960WESD02*	8.5	60	Bright White (3000K)
		C5A19A75WESD04*	12.5	75	Soft White (2700K)
		C5A19A75WESD05*	12.5	75	Bright White (3000K)
		A7A1960WESGD03	7	60	Daylight (5000K)
		A7A19A75WESD09*	13	75	Daylight (5000K)
		A8A19A60WESGD03*	7.5	60	Soft White (2700K)
		A7A19A100WESD04*	15.5	100	Soft White (2700K)
		B6A19100WESD02*	15	100	Daylight (5000K)
		A7A19A75WESD08*	13	75	Bright White (3000K)
		B7A19A40WESD14*	5.7	40	Soft White (2700K)
		B7A19A40WESD11*	5.7	40	Soft White (2700K)
		B7A19A40WESD31*	5.7	40	Daylight (5000K)
		A7A19A75WESD07*	13	75	Soft White (2700K)
	GE	LED8A19DD-LT*	8	60	Soft White (2700K)
		LED8DAGDL15-LT4*	8	60	Daylight (5000K)
		LED8DAGDL15-LT8*	8	60	Daylight (5000K)
		LED8DAGDL9-LT8*	8	60	Daylight (5000K)
		LED8DAGRVL-LT2*	8	60	Soft White (2850K)
		LED8DAGRVL-LT8*	8	60	Soft White (2850K)
		LED8DAGSW15-LT4*	8	60	Soft White (2700K)
		LED8DAGSW15-LT8*	8	60	Soft White (2700K)
		LED8DAGSW9-LT8*	8	60	Soft White (2700K)
		LED10DA19/827*	10	60	Soft White (2700K)
		LED8DAGRVL-LT4*	8	60	Soft White (2850K)
		LED8DAGSW9-LT4*	8.5	60	Soft White (2700K)
		LED8DAGDL9-LT4*	8.5	60	Daylight (5000K)
	Philips	04667746244*	6	40	Warm Glow (2200-2700K)
		04667746524	9.5	60	Warm Glow (2200-2700K)
		9290018362	5.5	40	Daylight (5000K)
	Satco	S21713*	7.5	60	Soft White (2700K)
		S21714*	7.5	60	Soft White (2700K)
		S29804*	11	75	Cool White (4000K)
		S29810*	11	75	Soft White (2700K)
		S29811*	11	75	Bright White (3000K)
		S29812*	11	75	Cool White (4000K)
		S29813*	11	75	Daylight (5000K)
		S29814*	11	75	Soft White (2700K)

A19	Satco	S29805*	15	100	Bright White (3000K)
		S29815*	15	100	Soft White (2700K)
		S29816*	15	100	Bright White (3000K)
		S29817*	15	100	Cool White (4000K)
		S29818*	15	100	Daylight (5000K)
		S29819*	15	100	Soft White (2700K)
	Soraa	SA19-11-OMNI-927-01	11	60	Soft White (2700K)
	Topaz	LA19/15W/27K/D-46*	15	100	Soft White (2700K)
		LA19/15W/30K/D-46*	15	100	Bright White (3000K)
		LA19/15W/40K/D-46*	15	100	Cool White (4000K)
		LA19/15W/50K/D-46*	15	100	Daylight (5000K)
	Westinghouse	4369600	9	60	Soft White (2700K)
A21	Philips	046677459062	14	75	Warm Glow (2200-2700K)
		046677459109	18	100	Warm Glow (2200-2700K)
B11	Cree	TB11-01827MDCH15-12DE12-1-12	2.6	25	Soft White (2700K)
		TB11-01850MDCH15-12DE12-1-12	2.6	25	Daylight (5000K)
		TB11-03527MDCH15-12DE12-1-12	4	40	Soft White (2700K)
		TB11-03550MDCH15-12DE12-1-12	4	40	Daylight (5000K)
		B11-25W-P1-27K-E12-U1	2.6	25	Soft White (2700K)
		B11-25W-P1-50K-E12-U1	2.6	25	Daylight (5000K)
		B11-40W-P1-27K-E12-U1	4	40	Soft White (2700K)
		B11-40W-P1-50K-E12-U1	4	40	Daylight (5000K)
	EcoSmart	ECS B11 CA 40WE W27 LP E12 120 3PK	4	40	Soft White (2700K)
		B1160WDLE123P	6	60	Daylight (5000K)
	Philips	463901	4.5	40	Daylight (5000K)
B13	Westinghouse	5313200	6.5	60	Soft White (2700K)
BR20	EcoSmart	1003020502*	12	75	Soft White (2700K)
		1003020802*	12	75	Daylight (5000K)
		1003020602*	12	75	Bright White (3000K)
BR30	Cree	D-BR30-65WE-2700K*	8.5	65	Soft White (2700K)
		SBR30-06527FLFD-12DE26-1-13	8	65	Soft White (2700K)
		SBR30-06550FLFD-12DE26-1*	7	65	Daylight (5000K)
		SBR30-06550FLFD-12DE26-1-13*	7	65	Daylight (5000K)
	EcoSmart	1003024203*	10.5	65	Soft White (2700K)
		1003014903*	10.5	60	Bright White (3000K)
		1003025902*	12.5	75	Bright White (3000K)
		1003024702*	12.5	75	Soft White (2700K)
		1003024102*	12.5	75	Daylight (5000K)
		1003024002*	12.5	75	Soft White (2700K)
		1003026002*	12.5	75	Bright White (3000K)
		1003024802*	12.5	75	Daylight (5000K)
	Feit	A7BR3065WESD05	8	65	Bright White (3000K)
		BR30DM/10KLED/MP/12	9.5	65	Soft White (2700K)
	Philips	046677465995	9	65	Warm Glow (2200-2700K)
		465996*	9	65	Soft White (2700K)
		531749*	8	65	Daylight (5000K)
	Soraa	SB30-11-120D-927-01	11.5	65	Soft White (2700K)
	Topaz	LBR30/8/827/D-46C*	8	65	Soft White (2700K)
		LBR30/8/830/D-46C*	8	65	Bright White (3000K)
		LBR30/9/827/D-46*	9	65	Soft White (2700K)
		LBR30/9/830/D-46*	9	65	Bright White (3000K)
		LBR30/9/840/D-46*	9	65	Cool White (4000K)
		LBR30/9/850/D-46*	9	65	Daylight (5000K)
BR40	EcoSmart	1003025202*	16	90	Daylight (5000K)
		1003024902*	12.5	75	Soft White (2700K)
		1003025002*	12.5	75	Daylight (5000K)
	Philips	46677465254*	10	65	Warm Glow (2200-2700K)
		459826*	10	65	Daylight (5000K)
		457002*	10	65	Soft White (2700K)
	Topaz	LBR40/16/827/D-46*	16	85	Soft White (2700K)
		LBR40/16/830/D-46*	16	85	Bright White (3000K)
		LBR40/16/840/D-46*	16	85	Cool White (4000K)
		LBR40/16/850/D-46*	16	85	Daylight (5000K)
C35	EcoSmart	C35C 4.5W E12 DIM	4.5	40	Soft White (2700K)
		C35C 4.5W E26 DIM	4.5	40	Soft White (2700K)

Downlight	Cree	CR6T-825L-27K-12-E26GU24*	11	75	Soft White (2700K)
		CR6T-825L-30K-12-E26GU24*	11	75	Bright White (3000K)
		CR6T-825L-35K-12-E26GU24*	11	75	Neutral White (3500K)
		CR6T-825L-40K-12-E26GU24*	11	75	Cool White (4000K)
		CR4T-790L-27K-12-E26GU24*	10.5	75	Soft White (2700K)
		CR4T-790L-30K-12-E26GU24*	10.5	75	Bright White (3000K)
		CR4T-790L-35K-12-E26GU24*	10.5	75	Neutral White (3500K)
		CR4T-790L-40K-12-E26GU24*	10.5	75	Cool White (4000K)
		CR6T-1100L-27K-12-E26GU24*	14.5	100	Soft White (2700K)
		CR6T-1100L-30K-12-E26GU24*	14.5	100	Bright White (3000K)
		CR6T-1100L-35K-12-E26GU24*	14.5	100	Neutral White (3500K)
		CR6T-1100L-40K-12-E26GU24*	14.5	100	Cool White (4000K)
F15	Philips	458620	7	60	Warm Glow (2200-2700K)
G16.5	Philips	477752*	5.5	60	Soft White (2700K)
		477745*	5.5	60	Soft White (2700K)
G25	Philips	477646	5	40	Daylight (5000K)
		9290018409	5	40	Soft White (2700K)
		9290018410	5	40	Daylight (5000K)
MR16	EcoSmart	A6GU10M35WESD02*	4.5	35	Bright White (3000K)
	Westinghouse	5303200	6.5	50	Bright White (3000K)
PAR16	EcoSmart	A6PR16M35WESD04*	4.5	35	Bright White (3000K)
PAR20	EcoSmart	5bHPR500STW1D19*	5.5	50	Daylight (5000K)
		B7PR20P50WESD01*	6.5	50	Bright White (3000K)
	Philips	9290018451*	7	50	Soft White (2700K)
		478578	7	50	Daylight (5000K)
	Topaz	LP20/7/27K/NF/D-46*	7	50	Soft White (2700K)
		LP20/7/30K/NF/D-46*	7	50	Bright White (3000K)
		LP20/7/40K/NF/D-46*	7	50	Cool White (4000K)
		LP20/7/50K/NF/D-46*	7	50	Daylight (5000K)
PAR30	EcoSmart	B7PR30LP75ESD02*	9	75	Daylight (5000K)
		5bHPR650STW1D29*	9.5	75	Bright White (3000K)
		A7PR30S75WESD02	8	75	Soft White (2700K)
		B7PR38P100ESD12*	13	90	Bright White (3000K)
	Topaz	LP30/11/27K/FL/D-46*	11	75	Soft White (2700K)
		LP30/11/30K/FL/D-46*	11	75	Bright White (3000K)
		LP30/11/40K/FL/D-46*	11	75	Cool White (4000K)
		LP30/11/50K/FL/D-46*	11	75	Daylight (5000K)
		LP30L/11/27K/FL/D-46*	11	75	Soft White (2700K)
		LP30L/11/30K/FL/D-46*	11	75	Bright White (3000K)
		LP30L/11/40K/FL/D-46*	11	75	Cool White (4000K)
		LP30L/11/50K/FL/D-46*	11	75	Daylight (5000K)
PAR38	Amazon Basic	B079VMHM76*	14	90	Bright White (3000K)
		B079VP1G43*	16	120	Bright White (3000K)
	Cree	TPAR38-1503025FH25-12DE26-1-11*	19	120	Bright White (3000K)
		TPAR38-1503040FH25-12DE26-1-11003S-T*	19	120	Bright White (3000K)
		TPAR38-1803040FH25-12DE26-1-11*	19	150	Bright White (3000K)
		TPAR38-1504040FH25-12DE26-1-11003S-T*	19	120	Cool White (4000K)
	EcoSmart	A6PR38P90WESD02*	11	90	Bright White (3000K)
		B7PR38P100ESD22*	13	90	Daylight (5000K)
		B7PR38P100ESD12*	13	90	Bright White (3000K)
		B7PR38P100ESD11*	13	90	Bright White (3000K)
		B7PR38P100ESD21*	13	90	Daylight (5000K)
	Philips	467944*	14	120	Daylight (5000K)
		467936*	14	120	Bright White (3000K)
		9290013200*	12	90	Bright White (3000K)
		9290013203*	12	90	Daylight (5000K)
R20	EcoSmart	1003017802	8	50	Daylight (5000K)
	Feit	R20DM/10KLED/MP/6*	7.5	45	Soft White (2700K)
	Philips	456995	6	45	Warm Glow (2200-2700K)
		9290018878*	6	45	Daylight (5000K)
	Westinghouse	5012000	6.5	50	Daylight (5000K)
R30	Westinghouse	5300000	8	65	Soft White (2700K)
ST19	EcoSmart	FG-03120*	3.2	40	Soft White (2700K)
		FG-03121*	3.2	40	Daylight (5000K)

* The bulbs that display an asterisk (*) after the model# have exceptional performance and compatibility beyond our criteria.