

LED Dimmer/Bulb Compatibility

Decora Slide

DSL06



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.

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Bulb Type	Bulb Manufacturer	Model #	Wattage	Equivalent Wattage	Color/Temperature (K)	
4" Retrofit	Cree	SRDL4-0575000FH-12DE26-1*	8	55	Daylight (5000K)	
		SRDL4-0572700FH-12DE26-1-11*	8	55	Daylight (5000K)	
	EcoSmart	TRDL4-0782700FH50-12DE26-1-11	10.5	75	Soft White (2700K)	
6" Retrofit	Cree	DL-N34A9ER1-27	9	65	Soft White (2700K)	
	Westinghouse	TRDL6-0802700FH50-12DE26-1-11004S-D	11	75	Soft White (2700K)	
A15	Westinghouse	5056000	11	65	Daylight (5000K)	
	EcoSmart	ECS A15 40WE W27 120 G1	4	40	Soft White (2700K)	
A15	Philips	046677463960*	5.5	40	Warm Glow (2200-2700K)	
	Cree	TA19-04550MDFH25-12DE26-1-12*	5.5	40	Daylight (5000K)	
TA19-04527MDFH25-12DE26-1-12*		5.5	40	Soft White (2700K)		
SA19-08150MDFD-12DE26-1-14		8.5	60	Daylight (5000K)		
SA19-08127MDFD-12DE26-1-14		9.5	60	Soft White (2700K)		
TA19-08050MDFH25-12DE26-1-12*		10	60	Daylight (5000K)		
TA19-08027MDFH25-12DE26-1-12014S-D*		10	60	Soft White (2700K)		
TA19-11050MDFH25-12DE26-1-11*		12	75	Daylight (5000K)		
TA19-11027MDFH25-12DE26-1-11007S-D*		12	75	Soft White (2700K)		
A19	EcoSmart	C5A19A40WESD09*	5.6	40	Daylight (5000K)	
		A460ST-Q1D-01	6.5	40	Soft White (2700K)	
		A7A1960WESD02	8.5	60	Bright White (3000K)	
		A6A1960WESD81	9	60	Soft White (2700K)	
		C5A19A75WESD05*	12.5	75	Bright White (3000K)	
		C5A19A75WESD04	12.5	75	Soft White (2700K)	
		5bSA1100STQ1D01	12.5	75	Soft White (2700K)	
		A7A19A75WESD08*	13	75	Bright White (3000K)	
		A7A19A75WESD09*	13	75	Daylight (5000K)	
		B6A19100WESD03	15	100	Bright White (3000K)	
		B6A19100WESD02*	15	100	Daylight (5000K)	
		B6A19100WESD01	15	100	Soft White (2700K)	
	A7A19A100WESD04*	15.5	100	Soft White (2700K)		
Philips	9290018362*	5.5	40	Daylight (5000K)		
	04667746244*	6	40	Warm Glow (2200-2700K)		
	04667746524*	9.5	60	Warm Glow (2200-2700K)		
A21	EcoSmart	A21 11W E26 DIM 2700K	11	90	Soft White (2700K)	
	Philips	046677459062*	14	75	Warm Glow (2200-2700K)	
		046677459109*	18	100	Warm Glow (2200-2700K)	
B10	Feit	CTT/S/CL/FILED*	4.5	25	Warm White (2000K)	
BR20	EcoSmart	1003020602*	12	75	Bright White (3000K)	
		1003020802*	12	75	Daylight (5000K)	
		1003020502*	12	75	Soft White (2700K)	
BR30	Cree	SBR30-06550FLFD-12DE26-1*	7	65	Daylight (5000K)	
		SBR30-06550FLFD-12DE26-1-13	7	65	Daylight (5000K)	
	EcoSmart	A7BR3065WESD05	8	65	Bright White (3000K)	
		1003025902*	12.5	75	Bright White (3000K)	
		1003026002*	12.5	75	Bright White (3000K)	
		1003024102*	12.5	75	Daylight (5000K)	
		1003024802*	12.5	75	Daylight (5000K)	
		1003024702*	12.5	75	Soft White (2700K)	
	Feit	1003024002*	12.5	75	Soft White (2700K)	
		BR30DM/10KLED/MP/12*	9.5	65	Soft White (2700K)	
		Noma	399-1972-0*	11	60	Daylight (5000K)
		Philips	531749	8	65	Daylight (5000K)
			465996	9	65	Soft White (2700K)
Westinghouse	5008000*	9	65	Bright White (3000K)		
BR40	EcoSmart	1003025202*	16	90	Daylight (5000K)	
	Philips	46677465254	10	65	Warm Glow (2200-2700K)	
C35	EcoSmart	C35C 4.5W E26 L DIM	4.5	60	Soft White (2700K)	
F15	Philips	458620	7	60	Warm Glow (2200-2700K)	
G16.5	EcoSmart	FG-03157*	4	40	Daylight (5000K)	
		FG-03154*	4	40	Soft White (2700K)	
		FG-03155*	4	40	Soft White (2700K)	
		FG-03152*	4.5	60	Daylight (5000K)	
		FG-03150*	4.5	60	Soft White (2700K)	
	Philips	477752*	5.5	60	Soft White (2700K)	
		477745*	5.5	60	Soft White (2700K)	

G25	EcoSmart	FG-03148*	4	40	Daylight (5000K)
		FG-03149*	4	40	Daylight (5000K)
		FG-03147*	4	40	Soft White (2700K)
		FG-03146*	4	40	Soft White (2700K)
		FG-03144*	4.5	60	Daylight (5000K)
		FG-03142*	4.5	60	Soft White (2700K)
	Feit	G25/S/CL/FILED*	6.5	40	Warm White (2000K)
	Philips	477646	5	40	Daylight (5000K)
PAR16	EcoSmart	A6PR16M35WESD04	4.5	35	Bright White (3000K)
		A6GU10M50WESD02	5.3	50	Bright White (3000K)
		A6PR16M50WESD02	5.3	50	Bright White (3000K)
PAR20	EcoSmart	A6PR20P50WESD02	6.5	50	Bright White (3000K)
		A6PR20P50WESD03	6.5	50	Daylight (5000K)
	Philips	9290018451*	7	50	Soft White (2700K)
PAR30	EcoSmart	A6PR30P75WESD03	8	75	Daylight (5000K)
		A6PR30P75WESD03	8	75	Daylight (5000K)
		A7PR30S75WESD02	8	75	Soft White (2700K)
		5bHPR650STW1D29*	9.5	75	Bright White (3000K)
PAR38	EcoSmart	A6PR38P90WESD02	11	90	Bright White (3000K)
		A6PR38120WESD03	14.5	120	Daylight (5000K)
	Westinghouse	5301400	15	90	Bright White (3000K)
ST19	Feit	AT19/H/LED	4.5	25	Warm White (2000K)
T6	Feit	T6/S/CL/FILED*	4.5	25	Warm White (2000K)

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