

LED Dimmer/Bulb Compatibility

Rotary Dimmer

RNL06



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
Rotary Dimmer - RNL06**



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	SRDL6-0652700FH-12DE26-1-11*	10	65	Soft White (2700K)	
		SRDL6-0655000FH-12DE26-1-11*	10	65	Daylight (5000K)	
		TRDL6-0802700FH50-12DE26-1-11004S-D*	11	75	Soft White (2700K)	
		TRDL6-0804000FH50-12DE26-1-11004S-D*	11	75	Cool White (4000K)	
		TRDL6-1102700FH50-12DE26-1-11*	14.5	100	Soft White (2700K)	
		TRDL6-1104000FH50-12DE26-1-11004S-D*	14.5	100	Cool White (4000K)	
		TRDL6-1602700FH50-12DE26-1-11*	21	150	Soft White (2700K)	
		TRDL6-1604000FH50-12DE26-1-11004S-D*	21	150	Cool White (4000K)	
	EcoSmart	DL-N34A9ER1-27*	9	65	Soft White (2700K)	
	Lithonia	65BEMW*	12.1	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	Cree	SA19-08127MDFD-12DE26-1-14	9.5	60	Soft White (2700K)	
		SA19-11027MDFD-12DE26-1-11*	10.2	75	Daylight (5000K)	
		SA19-11050MDFD12DE26-1-11*	10.2	75	Daylight (5000K)	
	EcoSmart	A19 6.5 E26 DIM 2700K	6.5	60	Soft White (2700K)	
		A460ST-Q1D-01	6.5	40	Soft White (2700K)	
		A6A1960WESD81*	9	60	Soft White (2700K)	
		A7A1960WESD02*	8.5	60	Bright White (3000K)	
		A7A1960WESGD03*	7	60	Daylight (5000K)	
		A7A19A100WESD04*	15.5	100	Soft White (2700K)	
		A7A19A60WESQD01*	7.5	60	Soft White (2700K)	
		A7A19A60WESQD03*	7.5	60	Daylight (5000K)	
		A7A19A75WESD07	13	75	Soft White (2700K)	
		A7A19A75WESD08*	13	75	Bright White (3000K)	
		A7A19A75WESD09	13	75	Daylight (5000K)	
		A8A19A60WESD01	8	60	Soft White (2700K)	
		A8A19A60WESGD03*	7.5	60	Soft White (2700K)	
		B6A19100WESD01*	15	100	Soft White (2700K)	
		B6A19100WESD02*	15	100	Daylight (5000K)	
		B6A19100WESD03*	15	100	Bright White (3000K)	
		B7A19A40WESD02*	5.7	40	Bright White (3000K)	
		B7A19A40WESD11*	5.7	40	Soft White (2700K)	
		B7A19A40WESD14*	5.7	40	Soft White (2700K)	
		B7A19A40WESD31*	5.7	40	Daylight (5000K)	
		B7A19A40WESD34*	5.7	40	Daylight (5000K)	
		B7A19A60WESD02*	9.5	60	Bright White (3000K)	
		B7A19A60WESD11*	9.5	60	Soft White (2700K)	
		B7A19A60WESD14*	9.5	60	Soft White (2700K)	
		B7A19A60WESD31*	9.5	60	Daylight (5000K)	
		B7A19A60WESD34*	9.5	60	Daylight (5000K)	
		C5A19A40WESD09*	5.6	40	Daylight (5000K)	
		C5A19A75WESD04*	12.5	75	Soft White (2700K)	
		C5A19A75WESD05*	12.5	75	Bright White (3000K)	
		ECS A19 40WE W27 FIL 120 3PK*	4.5	40	Soft White (2700K)	
		GE	LED8A19DD-LT*	8	60	Soft White (2700K)
			LED8DAGDL15-LT4*	8	60	Daylight (5000K)
			LED8DAGDL15-LT8*	8	60	Daylight (5000K)
	LED8DAGDL9-LT4*		8.5	60	Daylight (5000K)	
	LED8DAGDL9-LT8*		8	60	Daylight (5000K)	
	LED8DAGRVL-LT2*		8	60	Soft White (2850K)	

A19	GE	LED8DAGRVL-LT4*	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-LT4*	8.5	60	Soft White (2700K)	
		LED8DAGSW9-LT8*	8	60	Soft White (2700K)	
	Philips	04667746244*	6	40	Warm Glow (2200-2700K)	
		04667746524*	9.5	60	Warm Glow (2200-2700K)	
		461632*	4.5	60	Warm White (2000K)	
		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)	
		S29805*	15	100	Bright White (3000K)	
		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)	
		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	LA19/11W/27K/D-46*	11	75	Soft White (2700K)	
		LA19/11W/30K/D-46*	11	75	Bright White (3000K)	
		LA19/11W/30K/GU24D*	11	75	Bright White (3000K)	
		LA19/11W/40K/D-46*	11	75	Cool White (4000K)	
		LA19/11W/50K/D-46*	11	75	Daylight (5000K)	
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	Amazon Basic	B01MXLSK5W*	15	100	Soft White (2700K)	
	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)	
B11	Cree	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)	
		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)	
	EcoSmart	B1160WDLE123P*	6	60	Daylight (5000K)	
		ECS B11 CA 40WE W27 LP E12 120 3PK*	4	40	Soft White (2700K)	
	Philips	463901*	4.5	40	Daylight (5000K)	
		9290018423	2.7	25	Soft White (2700K)	
			9290018424	2.7	25	Daylight (5000K)
	Westinghouse	5314100*	4.5	40	Soft White (2700K)	
B13	Westinghouse	5313200*	6.5	60	Soft White (2700K)	
BR20	Topaz	LR20/6/827/D-46*	6	50	Soft White (2700K)	
		LR20/6/830/D-46*	6	50	Bright White (3000K)	
		LR20/6/840/D-46*	6	50	Cool White (4000K)	
		LR20/6/850/D-46*	6	50	Daylight (5000K)	
BR30	Cree	D-BR30-65WE-2700K*	8.5	65	Soft White (2700K)	
		SBR30-06550FLFD-12DE26-1*	7	65	Daylight (5000K)	
		SBR30-06550FLFD-12DE26-1-13*	7	65	Daylight (5000K)	
	EcoSmart	1003014903*	10.5	60	Bright White (3000K)	
		1003024002	12.5	75	Soft White (2700K)	
		1003024102	12.5	75	Daylight (5000K)	
		1003024203*	10.5	65	Soft White (2700K)	
		1003024702	12.5	75	Soft White (2700K)	
		1003024802*	12.5	75	Daylight (5000K)	
		1003025902	12.5	75	Bright White (3000K)	

BR30	EcoSmart	1003026002	12.5	75	Bright White (3000K)
		A7BR3065WESD05 *	8	65	Bright White (3000K)
	Feit	BR30DM/10KLED/MP/12	9.5	65	Soft White (2700K)
	Noma	399-1972-0*	11	60	Daylight (5000K)
	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)
		LBR30/9/927/D-46*	9	65	Soft White (2700K)
	LBR30/9/930/D-46*	9	65	Bright White (3000K)	
Westinghouse	5008000	9	65	Bright White (3000K)	
BR40	EcoSmart	1003024902	12.5	75	Soft White (2700K)
		1003025002	12.5	75	Daylight (5000K)
		1003025202*	16	90	Daylight (5000K)
	Philips	457002	10	65	Soft White (2700K)
		459826	10	65	Daylight (5000K)
		46677465254*	10	65	Warm Glow (2200-2700K)
	Topaz	LBR40/11/827/D-46*	11	75	Soft White (2700K)
		LBR40/11/830/D-46*	11	75	Bright White (3000K)
		LBR40/11/840/D-46*	11	75	Cool White (4000K)
		LBR40/11/850/D-46*	11	75	Daylight (5000K)
		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	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)
		CR6T-1600L-27K-12-E26GU24*	21	150	Soft White (2700K)
		CR6T-1600L-30K-12-E26GU24*	21	150	Bright White (3000K)
		CR6T-1600L-35K-12-E26GU24*	21	150	Neutral White (3500K)
		CR6T-1600L-40K-12-E26GU24*	21	150	Cool White (4000K)
		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)
F15	Philips	458620*	7	60	Warm Glow (2200-2700K)
G16.5	Philips	477745	5.5	60	Soft White (2700K)
		477752	5.5	60	Soft White (2700K)
		9290018429	2.7	25	Soft White (2700K)
		9290018430	2.7	25	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	A6GU10M50WESD02*	5.3	50	Bright White (3000K)
		A6PR16M35WESD04*	4.5	35	Bright White (3000K)
		A6PR16M50WESD02*	5.3	50	Bright White (3000K)
	Topaz	LP16/6/27K/D-46*	6	60	Soft White (2700K)
		LP16/6/30K/D-46*	6	60	Bright White (3000K)
		LP16/6/40K/D-46*	6	60	Cool White (4000K)
	LP16/6/50K/D-46*	6	60	Daylight (5000K)	

PAR20	EcoSmart	A6PR20P50WESD02*	6.5	50	Bright White (3000K)
	Philips	9290018451*	7	50	Soft White (2700K)
	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	5bHPR650STW1D29	9.5	75	Bright White (3000K)
		A6PR30P75WESD03*	8	75	Daylight (5000K)
		A7PR30S75WESD02*	8	75	Soft White (2700K)
		B7PR30LP75ESD02	9	75	Daylight (5000K)
		B7PR38P100ESD12*	13	90	Bright White (3000K)
	Satco	S9410*	13	50	Soft White (2700K)
		S9411*	13	50	Bright White (3000K)
		S9412*	13	50	Neutral White (3500K)
		S9413*	13	50	Cool White (4000K)
		S9414*	13	50	Daylight (5000K)
		S9415*	13	50	Soft White (2700K)
		S9416*	13	50	Bright White (3000K)
		S9417*	13	50	Neutral White (3500K)
		S9418*	13	50	Cool White (4000K)
		S9419*	13	50	Daylight (5000K)
		S9420*	13	50	Soft White (2700K)
		S9421*	13	50	Bright White (3000K)
		S9422*	13	50	Neutral White (3500K)
		S9423*	13	50	Cool White (4000K)
		S9424*	13	50	Daylight (5000K)
		S9425*	13	75	Soft White (2700K)
		S9426*	13	75	Bright White (3000K)
		S9427*	13	75	Neutral White (3500K)
		S9428*	13	75	Cool White (4000K)
		S9429*	13	75	Daylight (5000K)
		S9430*	13	75	Soft White (2700K)
		S9431*	13	75	Bright White (3000K)
		S9432*	13	75	Neutral White (3500K)
		S9433*	13	75	Cool White (4000K)
		S9434*	13	75	Daylight (5000K)
		S9435*	13	75	Soft White (2700K)
		S9436*	13	75	Bright White (3000K)
		S9437*	13	75	Neutral White (3500K)
		S9438*	13	75	Cool White (4000K)
		S9439*	13	75	Daylight (5000K)
	S9486*	13	50	Soft White (2700K)	
	S9487*	13	75	Soft White (2700K)	
	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
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)
		TPAR38-1504040FH25-12DE26-1-11003S-T*	19	120	Cool White (4000K)
		TPAR38-1803040FH25-12DE26-1-11*	19	150	Bright White (3000K)
EcoSmart		A6PR38120WESD03*	14.5	120	Daylight (5000K)
		A6PR38P90WESD02*	11	90	Bright White (3000K)
		B7PR38P100ESD11*	13	90	Bright White (3000K)
		B7PR38P100ESD12	13	90	Bright White (3000K)
		B7PR38P100ESD21*	13	90	Daylight (5000K)
		B7PR38P100ESD22*	13	90	Daylight (5000K)
Philips		467936*	14	120	Bright White (3000K)
		467944*	14	120	Daylight (5000K)
	9290013200*	12	90	Bright White (3000K)	
	9290013203*	12	90	Daylight (5000K)	

PAR38	Topaz	LP38/17/27K/FL/D-46*	17	90	Soft White (2700K)
		LP38/17/30K/FL/D-46*	17	90	Bright White (3000K)
		LP38/17/40K/FL/D-46*	17	90	Cool White (4000K)
		LP38/17/50K/FL/D-46*	17	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)
		ST19G 5.5W L E26 DIM 2200K*	5.5	60	Warm White (2200K)
T6	Feit	T6/S/CL/FILED*	4.5	25	Warm White (2000K)

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