

Achievable dimming, at the low end, in percent, of the high end brightness.

Best dimmers are in dark green.
Next best dimmers are in light green.

Dimmers that have a neutral wire require that the neutral wire be present in the gang box. Most newer construction has the neutral wire in the box.

Bulb Name and Part #	Part Number	LED/CFL Dimmers								Electronic Low Voltage Dimmers								Phase Adaptive						
		Lutron Diva		Lutron Skylark Contour		Lutron Ariadni		Lutron Credenza Lamp Dimmer		Lutron Diva		Lutron Skylark		Leviton Vizia		Lutron Vierti		Lutron Maestro Wireless		Lutron Radio RA2		WattStopper Universal Dimmer		
		(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	
Recessed Lighting																								
6" Can (7.25 in. dia.) 80 Watt-Equivalent 14 Watt Standard Screw-in 120 VAC LED Flood 90° Soft White Intermatic		IR6-600WH		1%	12%	1%	12%	15%	38%	14%	37%	8%	29%	8%	28%	8%	29%	8%	28%	not compatible	3%	18%	0%	0%
pop-on <10% meas. pop-on <10% meas. adjust low-end trim																								
MR11 (1.38 in. dia.) GU4 12 VAC (tested on Hampton Bay 3-light track system)																								
Dimmable MR11 (1.375 in. dia.) 2.2 Watt, GU4, 10-18 VAC LED Flood 30° Warm White Halco ProLED		MR11/2WW/FL/LED		not recommended		not recommended		not relevant		15%	38%	13%	37%	23%	48%	insufficient load	not compatible	3%	17%	0%	0%	noise		
Dimmable MR11 (1.375 in. dia.) 2.2 Watt, GU4, 10-18 VAC LED Narrow Flood 18° Warm White Halco ProLED		MR11/2WW/NFL/LED		dimmer buzzes a bit, bulb flickers										flickers under 23% measured										
Dimmable MR11 (1.375 in. dia.) 2.2 Watt, GU4, 10-18 VAC LED Flood 30° Natural White Halco ProLED		MR11/2NW/FL/LED																						
MR16 (2 in. dia.) GU5.3 12 VAC (tested on Hampton Bay 3-light track system)																								
Dimmable MR16 OptiLED GU5.3 Base 30 Watt-Equivalent 3.5 Watt 12 VAC/DC LED Flood 25° Warm White		1310050806		not recommended		not compatible		not relevant		28%	53%	26%	51%	27%	52%	insufficient load	not compatible	6%	25%	not compatible				
Dimmable MR16 OptiLED GU5.3 Base 30 Watt-Equivalent 5 Watt 12 VAC/DC LED Flood 25° Daylight White		1310060806		dimmer buzzes a bit, bulb flickers						19%	43%	17%	42%	18%	43%									
Dimmable MR16 OptiLED GU5.3 Base 20 Watt-Equivalent 4 Watt 12 VAC/DC LED Spot 10° Warm White		1311050817		not recommended		68%		82%		22%	47%	21%	46%	18%	42%	insufficient load	not compatible	8%	27%	not compatible				
Dimmable MR16 OptiLED GU5.3 Base 20 Watt-Equivalent 4 Watt 12 VAC/DC LED Spot 10° Daylight White		1311060805		dimmer buzzes a bit, bulb flickers		adjust low-end trim																		
Dimmable MR16 (2 in. dia.) 3.3 Watt, GU5.3, 10-18 VAC LED Flood 34° Warm White Halco ProLED		MR16/3WW/FL/LED		not recommended		not recommended		not relevant		31%	55%	29%	54%	29%	54%	insufficient load	not compatible	6%	24%	0%	0%	noise		
Dimmable MR16 (2 in. dia.) 3.3 Watt, GU5.3, 10-18 VAC LED Spot 13° Warm White Halco ProLED		MR16/3WW/SP/LED		dimmer buzzes a bit, bulb flickers																				
Dimmable MR16 (2 in. dia.) 3.3 Watt, GU5.3, 10-18 VAC LED Flood 34° Natural White Halco ProLED		MR16/3NW/FL/LED																						
Dimmable MR16 (2 in. dia.) 3.3 Watt, GU5.3, 10-18 VAC LED Spot 13° Natural White Halco ProLED		MR16/3NW/SP/LED																						
Dimmable MR16 (2 in. dia.) 3.6 Watt, GU5.3, 10-18 VAC LED Very Wide Flood 88° Warm White Halco ProLED		MR16/3M4WW/VWFL/LED		not recommended		not recommended		not relevant		12%	34%	13%	36%	14%	37%	insufficient load	not compatible	3%	18%	0%	0%	noise		
Dimmable MR16 (2 in. dia.) 3.6 Watt, GU5.3, 10-18 VAC LED Flood 34° Warm White Halco ProLED		MR16/3M4WW/FL/LED		dimmer buzzes a bit, bulb flickers																				
Dimmable MR16 (2 in. dia.) 3.6 Watt, GU5.3, 10-18 VAC LED Narrow Flood 23° Warm White Halco ProLED		MR16/3M4WW/NFL/LED																						
Dimmable MR16 (2 in. dia.) 3.6 Watt, GU5.3, 10-18 VAC LED Spot 11° Warm White Halco ProLED		MR16/3M4WW/SP/LED																						
Dimmable MR16 (2 in. dia.) 3.6 Watt, GU5.3, 10-18 VAC LED Very Wide Flood 84° Natural White Halco ProLED		MR16/3M4NW/VWFL/LED																						
Dimmable MR16 (2 in. dia.) 3.6 Watt, GU5.3, 10-18 VAC LED Flood 35° Natural White Halco ProLED		MR16/3M4NW/FL/LED																						
Dimmable MR16 (2 in. dia.) 3.6 Watt, GU5.3, 10-18 VAC LED Narrow Flood 20° Natural White Halco ProLED		MR16/3M4NW/NFL/LED																						
Dimmable MR16 (2 in. dia.) 3.6 Watt, GU5.3, 10-18 VAC LED Spot 12° Natural White Halco ProLED		MR16/3M4NW/SP/LED																						
Dimmable MR16 (2 in. dia.) 5 Watt, GU5.3, 10-18 VAC LED Flood 40° Warm White Halco ProLED		MR16/5WW40/LED		not recommended		not tested		not relevant		not tested		not tested		not tested		not tested		not tested		not tested		not tested		
Dimmable MR16 (2 in. dia.) 5 Watt, GU5.3, 10-18 VAC LED Flood 40° Warm White Halco ProLED		MR16/5MWW40/LED		not recommended		not recommended		not relevant		30%	55%	29%	54%	30%	55%	insufficient load	not compatible	not compatible		0%	0%	noise		
Dimmable MR16 (2 in. dia.) 5 Watt, GU5.3, 10-18 VAC LED Flood 40° Natural White Halco ProLED		MR16/5M4NW40/LED																						
Dimmable MR16 (2 in. dia.) 6 Watt, GU5.3, 10-18 VAC LED Flood 40° Warm White Halco ProLED		MR16/6MWW40/LED		not recommended		not recommended		not relevant		27%	52%	27%	52%	27%	52%	insufficient load	not compatible	not compatible		not compatible				
Dimmable MR16 (2 in. dia.) 6 Watt, GU5.3, 10-18 VAC LED Narrow Flood 25° Warm White Halco ProLED		MR16/6MWW25/LED								flickers under 27% measured		flickers under 27% measured		flickers under 27% measured										
Dimmable MR16 (2 in. dia.) 6 Watt, GU5.3, 10-18 VAC LED Flood 40° Natural White Halco ProLED		MR16/6M4NW40/LED																						
Dimmable MR16 (2 in. dia.) 6 Watt, GU5.3, 10-18 VAC LED Narrow Flood 25° Natural White Halco ProLED		MR16/6M4NW25/LED																						
Dimmable MR16 (2 in. dia.) 6.5 Watt, GU5.3, 10-18 VAC LED Flood 34° Warm White Halco ProLED		MR16/6M7WW/FL/LED		not recommended		not recommended		not relevant		15%	39%	25%	50%	15%	38%	insufficient load	not compatible	not compatible		not compatible				
Dimmable MR16 (2 in. dia.) 6.5 Watt, GU5.3, 10-18 VAC LED Narrow Flood 23° Warm White Halco ProLED		MR16/6M7WW/NFL/LED								flickers under 25% measured														
Dimmable MR16 (2 in. dia.) 6.5 Watt, GU5.3, 10-18 VAC LED Flood 34° Natural White Halco ProLED		MR16/6M7NW/FL/LED																						
Dimmable MR16 (2 in. dia.) 6.5 Watt, GU5.3, 10-18 VAC LED Narrow Flood 24° Natural White Halco ProLED		MR16/6M7NW/NFL/LED																						
Dimmable MR16 (1.96 in. dia.) 6.7 Watt, GU5.3, 12 VAC LED Flood 35° Warm White Toshiba		7MR16/827FL35		not recommended		not recommended		not relevant		2%	13%	1%	11%	2%	16%	insufficient load	insufficient load	0%	7%	not compatible				
Dimmable MR16 (1.96 in. dia.) 6.7 Watt, GU5.3, 12 VAC LED Narrow Flood 25° Warm White Toshiba		7MR16/827NFL25																						
Dimmable MR16 (1.96 in. dia.) 6.2 Watt, GU5.3, 12 VAC LED Spot 8° Warm White Toshiba		6MR16/827SP8																						
Dimmable MR16 (1.96 in. dia.) 6.7 Watt, GU5.3, 12 VAC LED Flood 35° Soft White Toshiba		7MR16/830FL35																						
Dimmable MR16 (1.96 in. dia.) 6.7 Watt, GU5.3, 12 VAC LED Narrow Flood 25° Soft White Toshiba		7MR16/830NFL25																						
Dimmable MR16 (1.96 in. dia.) 6.2 Watt, GU5.3, 12 VAC LED Spot 8° Soft White Toshiba		6MR16/830SP8																						
Dimmable MR16 (1.96 in. dia.) 6.7 Watt, GU5.3, 12 VAC LED Flood 35° Natural White Toshiba		7MR16/840FL35																						
Dimmable MR16 (1.96 in. dia.) 6.7 Watt, GU5.3, 12 VAC LED Narrow Flood 25° Natural White Toshiba		7MR16/840NFL25																						
Dimmable MR16 (1.96 in. dia.) 6.2 Watt, GU5.3, 12 VAC LED Spot 8° Natural White Toshiba		6MR16/840SP8																						
MR16 (2 in. dia.) GU10 120 VAC (tested on Hampton Bay 3-light track system)																								
Dimmable MR16 (2 in. dia.) 3.5 Watt, GU10, 120 VAC LED Flood 30° Warm White Halco ProLED		MR16/4WW/FL/GU10/LED		2%	14%	3%	18%	17%	41%	not relevant		13%	36%	12%	35%	12%	35%	insufficient load	not compatible	0%	5%	not compatible		
Dimmable MR16 (2 in. dia.) 3.5 Watt, GU10, 120 VAC LED Flood 29° Natural White Halco ProLED		MR16/4NW/FL/GU10/LED		pop-on <17% meas.		pop-on <17% meas.		adjust low-end trim				Good, but CFL/LED dimmer is better, <\$						pop-on <2% meas.		not compatible				
Dimmable MR16 (2 in. dia.) 4 Watt, GU10, 120 VAC LED Flood 40° Warm White Halco ProLED		MR16/3M4WW/FL/GU10/LED		0%	6%	1%	11%	15%	38%	not relevant		7%	26%	6%	25%	6%	25%	insufficient load	not compatible	0%	0%	not compatible		
Dimmable MR16 (2 in. dia.) 4 Watt, GU10, 120 VAC LED Flood 40° Natural White Halco ProLED		MR16/3M4NW/FL/GU10/LED		pop-on <11% meas.		pop-on <11% meas.		adjust low-end trim				Good, but CFL/LED dimmer is better, <\$						pop-on <1% meas.		not compatible				
Dimmable MR16 (1.96 in. dia.) 6.5 Watt, GU10, 120 VAC LED Narrow Flood 25° Warm White Toshiba		7GU10/827NFL25		not compatible		not compatible		not compatible		not relevant		0%	5%	0%	5%	0%	4%	insufficient load	not compatible	0%	5%	0%	0%	
Dimmable MR16 (1.96 in. dia.) 6.5 Watt, GU10, 120 VAC LED Narrow Flood 25° Soft White Toshiba		7GU10/830NFL25										not smooth		not smooth		not smooth								
PAR16 (2 in. dia.)																								
Dimmable PAR16 (2 in. dia.) 3.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 27° Warm White Halco ProLED		PAR16/3WW/NFL/LED		not recommended		18%	42%	21%	45%	9%	30%	8%	29%	9%	30%	insufficient load	1%	9%	0%	0%	not compatible			
Dimmable PAR16 (2 in. dia.) 3.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 28° Natural White Halco ProLED		PAR16/3NW/NFL/LED		astable midrange		not smooth		adjust low-end trim		not smooth								pop-on <4% meas.		not compatible				
Dimmable PAR16 (2 in. dia.) 6 Watt, E26 (Medium), 120 VAC LED Flood 40° Warm White Halco ProLED		PAR16/6WW/FL/LED2		0%	6%	0%	6%	8%	28%	12%	35%	2%	13%	1%	12%	2%	13%	insufficient load	1%	9%	0%	0%	not compatible	
Dimmable PAR16 (2 in. dia.) 6 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Warm White Halco ProLED		PAR16/6WW/NFL/LED2		pop-on <7% meas.		pop-on <7% meas.		adjust low-end trim				Superior to CFL/LED dimmer, but >\$						pop-on <1% meas.		not compatible				
Dimmable PAR16 (2 in. dia.) 6 Watt, E26 (Medium), 120 VAC LED Spot 14° Warm White Halco ProLED		PAR16/6WW/SP/LED2																						
Dimmable PAR16 (2 in. dia.) 6 Watt, E26 (Medium), 120 VAC LED Flood 40° Natural White Halco ProLED		PAR16/6NW/FL/LED2																						

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Next best dimmers are in light green.

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Bulb Name and Part #	Part Number	LED/CFL Dimmers								Electronic Low Voltage Dimmers								Phase Adaptive					
		Lutron Diva		Lutron Skylark Contour		Lutron Ariadni		Lutron Credenza Lamp Dimmer		Lutron Diva		Lutron Skylark		Leviton Vizia		Lutron Vieri		Lutron Maestro Wireless		Lutron Radio RA2		WattStopper Universal Dimmer	
		DVCL-153P	CTCL-153P	AYCL-153P	TTCL-100H	DVELV-303P	SELV-303P	VPE06-1	VTCLV-600M	MRF2-6ELV-120	450 Watt, 600 VA	600 Watt	600 Watt	600 Watt	600 Watt	600 Watt	600 Watt	600 Watt	RRD-6NA	DCD267	Neutral Wire	Neutral Wire	
		(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)
PAR20 (2.5 in. dia.)																							
Dimmable PAR20 (2.5 in. dia.) 7.2 Watt, E26 (Medium), 120 VAC LED Very Wide Flood 69° Warm White Halco ProLED	PAR20/7WW/VWFL/LED	8%	28%	18%	42%	6%	24%	18%	42%	4%	19%	3%	18%	4%	19%	3%	19%	not compatible	0%	0%	not compatible		
Dimmable PAR20 (2.5 in. dia.) 7.2 Watt, E26 (Medium), 120 VAC LED Flood 43° Warm White Halco ProLED	PAR20/7WW/FL/LED																						
Dimmable PAR20 (2.5 in. dia.) 7.2 Watt, E26 (Medium), 120 VAC LED Narrow Flood 24° Warm White Halco ProLED	PAR20/7WW/NFL/LED																						
Dimmable PAR20 (2.5 in. dia.) 7.2 Watt, E26 (Medium), 120 VAC LED Flood 46° Natural White Halco ProLED	PAR20/7NW/FL/LED																						
Dimmable PAR20 (2.5 in. dia.) 7.2 Watt, E26 (Medium), 120 VAC LED Narrow Flood 26° Natural White Halco ProLED	PAR20/7NW/NFL/LED																						
Dimmable PAR20 (2.5 in. dia.) 8 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Warm White Halco ProLED	PAR20/8WW/NFL/LED2	3%	18%	not recommended	4%	19%	18%	42%	4%	19%	0%	4%	0%	6%	0%	6%	not compatible	0%	0%	0%	0%		
Dimmable PAR20 (2.5 in. dia.) 8 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Natural White Halco ProLED	PAR20/8NW/NFL/LED2																						
Dimmable PAR20 (2.48 in. dia.) 9 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Warm White Toshiba	9P20/827NFL25	17%	41%	17%	41%	6%	24%	9%	30%	4%	20%	5%	22%	7%	27%	7%	27%	not compatible	4%	19%	0%	0%	
Dimmable PAR20 (2.48 in. dia.) 8.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Warm White Toshiba	9P20/827SP8																						
Dimmable PAR20 (2.48 in. dia.) 9 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Soft White Toshiba	9P20/830NFL25																						
Dimmable PAR20 (2.48 in. dia.) 8.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Soft White Toshiba	9P20/830SP8																						

PAR30 (3.75 in. dia.)																							
Dimmable PAR30 (3.75 in. dia.) 11 Watt, E26 (Medium), 120 VAC LED Flood 40° Warm White EnvironmentalLights.com	EL11PAR30WW	1%	10%	1%	10%	1%	11%	17%	41%	11%	33%	11%	33%	11%	33%	10%	32%	2%	14%	1%	9%	0%	0%
Dimmable PAR30 (3.77 in. dia.) 65 Watt-Equivalent 13 Watt Standard Screw-in 120 VAC 5-LED Flood 35° Warm White OptiLED	1503050217																	pop-on <5% meas.	7%	25%	4%	20%	not compatible
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Very Wide Flood 120° Warm White Halco ProLED	PAR30/14WW/VWFL/LED	15%	39%	15%	39%	7%	27%	22%	47%	12%	35%	12%	35%	12%	35%	12%	35%	3%	19%	0%	0%	not compatible	
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Very Wide Flood 120° Natural White Halco ProLED	PAR30/14NW/VWFL/LED																						
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Flood 40° Warm White Halco ProLED	PAR30/14WW/FL/LED	7%	26%	8%	28%	14%	38%	22%	47%	11%	33%	10%	32%	10%	32%	10%	32%	5%	23%	0%	0%	not compatible	
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Warm White Halco ProLED	PAR30/14WW/NFL/LED																						
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Flood 40° Natural White Halco ProLED	PAR30/14NW/FL/LED																						
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Flood 40° Warm White Halco ProLED	PAR30/14WW/FL/LED2	9%	30%	9%	30%	16%	39%	18%	42%	9%	30%	9%	29%	9%	29%	9%	29%	10%	32%	2%	12%	0%	0%
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Spot 10° Warm White Halco ProLED	PAR30/14WW/SP/LED2																						
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Flood 40° Natural White Halco ProLED	PAR30/14NW/FL/LED2																						
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Spot 10° Natural White Halco ProLED	PAR30/14NW/SP/LED2																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Flood 32° Warm White Toshiba	16P30S/827FL32	9%	30%	9%	30%	12%	34%	10%	32%	6%	24%	7%	27%	8%	29%	8%	29%	not compatible	4%	21%	0%	0%	
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 23° Warm White Toshiba	16P30S/827NFL23																						
Dimmable PAR30 (3.74 in. dia.) 15.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Warm White Toshiba	16P30S/827SP8																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Flood 32° Soft White Toshiba	16P30S/830FL32																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 23° Soft White Toshiba	16P30S/830NFL23																						
Dimmable PAR30 (3.74 in. dia.) 15.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Soft White Toshiba	16P30S/830SP8																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Flood 32° Natural White Toshiba	16P30S/840FL32																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 23° Natural White Toshiba	16P30S/840NFL23																						
Dimmable PAR30 (3.74 in. dia.) 15.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Natural White Toshiba	16P30S/840SP8																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Flood 32° Warm White Toshiba	16P30L/827FL32	9%	29%	10%	32%	9%	29%	9%	30%	6%	24%	6%	24%	8%	29%	8%	29%	not compatible	4%	21%	0%	0%	
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 23° Warm White Toshiba	16P30L/827NFL23																						
Dimmable PAR30 (3.74 in. dia.) 15.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Warm White Toshiba	16P30L/827SP8																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Flood 32° Soft White Toshiba	16P30L/830FL32																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 23° Soft White Toshiba	16P30L/830NFL23																						
Dimmable PAR30 (3.74 in. dia.) 15.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Soft White Toshiba	16P30L/830SP8																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Flood 32° Natural White Toshiba	16P30L/840FL32																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 23° Natural White Toshiba	16P30L/840NFL23																						
Dimmable PAR30 (3.74 in. dia.) 15.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Natural White Toshiba	16P30L/840SP8																						
Dimmable PAR30 (3.8 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Flood 40° Soft White TCP	LED14E26P3030KFL	0%	6%	0%	7%	0%	7%	2%	15%	36%	60%	3%	18%	5%	22%	3%	16%	not compatible	0%	2%	0%	0%	
Dimmable PAR30 (3.8 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Soft White TCP	LED14E26P3030KNFL																						

PAR38 (4.75 in. dia.)																							
Dimmable PAR38 (4.77 in. dia.) 15 Watt, E26 (Medium), 120 VAC LED Flood 40° Warm White EnvironmentalLights.com	EL15PAR38WW	9%	30%	9%	30%	11%	33%	14%	37%	9%	30%	8%	29%	9%	30%	9%	29%	not compatible	1%	11%	not compatible		
Dimmable PAR38 (4.72 in. dia.) 80 Watt-Equivalent 18 Watt Standard Screw-in 120 VAC 10-LED Spot/Flood 28° Warm White OptiLED	1505050217																						
Dimmable PAR38 (4.75 in. dia.) 18 Watt, E26 (Medium), 120 VAC LED Flood 40° Warm White Halco ProLED	PAR38/18WW/FL/LED	10%	32%	10%	32%	11%	33%	18%	42%	8%	28%	7%	27%	8%	29%	8%	28%	2%	15%	2%	15%	0%	0%
Dimmable PAR38 (4.75 in. dia.) 18 Watt, E26 (Medium), 120 VAC LED Flood 40° Natural White Halco ProLED	PAR38/18NW/FL/LED																						
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Flood 35° Warm White Toshiba	20P38/827FL35	30%	55%	25%	50%	23%	48%	9%	30%	6%	24%	6%	24%	8%	29%	10%	31%	not compatible	4%	21%	0%	0%	
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Warm White Toshiba	20P38/827NFL25																						
Dimmable PAR38 (4.76 in. dia.) 19.2 Watt, E26 (Medium), 120 VAC LED Spot 8° Warm White Toshiba	19P38/827SP8																						
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Flood 35° Soft White Toshiba	20P38/830FL35																						
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Soft White Toshiba	20P38/830NFL25																						
Dimmable PAR38 (4.76 in. dia.) 19.2 Watt, E26 (Medium), 120 VAC LED Spot 8° Soft White Toshiba	19P38/830SP8																						
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Flood 35° Bright White Toshiba	20P38/835FL35																						
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Bright White Toshiba	20P38/835NFL25																						
Dimmable PAR38 (4.76 in. dia.) 19.2 Watt, E26 (Medium), 120 VAC LED Spot 8° Bright White Toshiba	19P38/835SP8																						
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Flood 35° Natural White Toshiba	20P38/840FL35																						
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Natural White Toshiba	20P38/840NFL25																						

Achievable dimming, at the low end, in percent, of the high end brightness.

Best dimmers are in dark green.

Next best dimmers are in light green.

Dimmers that have a neutral wire require that the neutral wire be present in the gang box. Most newer construction has the neutral wire in the box.

Bulb Name and Part #

Bulb Name and Part #	Part Number	LED/CFL Dimmers								Electronic Low Voltage Dimmers								Phase Adaptive					
		Lutron Diva		Lutron Skylark Contour		Lutron Ariadni		Lutron Credenza Lamp Dimmer		Lutron Diva		Lutron Skylark		Leviton Vizia		Lutron Vierti		Lutron Maestro Wireless		Lutron Radio RA2		WattStopper Universal Dimmer	
		(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)
A Bulbs																							
Dimmable A15 (1.875 in. dia.) 5.7 Watt, E26 (Medium), 120 VAC LED Omni-directional Warm White Halco ProLED	A15/6WW/LED	16%	40%	1%	11%	8%	29%	13%	37%	4%	21%	4%	20%	4%	20%	insufficient load	not compatible	0%	0%	not compatible	not compatible	not compatible	not compatible
Dimmable A19 (2.4 in. dia.) 8.3 Watt, E26 (Medium), 120 VAC LED Omni-directional Warm White Halco ProLED	A19/8WW/LED2	not recommended	flickers <41%	1%	11%	not tested	not tested	6%	24%	1%	12%	1%	11%	1%	12%	2%	12%	not compatible	not tested	not tested	not tested	not tested	not tested
Dimmable A19 (2.33 in. dia.) 5.5 Watt, E26/27 (Medium), 120 VAC LED Omni-directional Soft White Lemnis Pharox	Pharox 300 3000K	10%	31%	6%	25%	11%	33%	7%	26%	not recommended	not recommended	23%	48%	4%	21%	17%	42%	0%	0%	not recommended	not recommended	not recommended	not recommended
Dimmable A19 (2.33 in. dia.) 8 Watt, E26/27 (Medium), 120 VAC LED Omni-directional Warm White Lemnis Pharox	Pharox 400 2700K	5%	22%	5%	22%	5%	22%	5%	22%	52%	72%	52%	72%	37%	61%	5%	22%	5%	22%	5%	22%	7%	26%
		pop on <10%	pop on <10%	pop on <10%	pop on <10%	pop on <10%	pop on <10%	pop on <10%	pop on <10%	not recommended	not recommended	not recommended	not recommended	not recommended	not recommended	not recommended	not recommended	not recommended	not recommended	not recommended	not recommended	not recommended	not recommended
Chandelier Bulbs																							
Dimmable Chandelier 2.3 Watt, 120 VAC LED 2700K Clear TCP		not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	1%	8%	1%	7%	1%	7%	1%	8%	1%	8%	1%	8%	1%	8%
Dimmable Chandelier 2.6 Watt, 120 VAC LED 3000K Clear TCP		not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	1%	7%	1%	7%	1%	7%	1%	8%	1%	8%	1%	8%	1%	8%
Dimmable Chandelier 2.6 Watt, 120 VAC LED 3000K Frosted TCP		not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	1%	8%	1%	7%	1%	7%	1%	7%	1%	7%	1%	7%	1%	7%
JC Bulbs																							
Dimmable JC10 1.5 Watt, G4, 10-18 VAC LED Warm White Halco ProLED	JC10/1WW/LED	not compatible	not compatible	not tested	not tested	not tested	not tested	not tested	not tested	9%	30%	9%	30%	5%	23%	insufficient load	not compatible	not tested	not tested	not tested	not tested	not tested	not tested
Dimmable JC10 1.5 Watt, BA15s, 10-18 VAC LED Warm White Halco ProLED	JC10/1WW/BA15S/LED	not compatible	not compatible	not tested	not tested	not tested	not tested	not tested	not tested	8%	28%	7%	26%	4%	20%	insufficient load	not compatible	not tested	not tested	not tested	not tested	not tested	not tested
Dimmable JC20 2.4 Watt, G4, 10-18 VAC LED Warm White Halco ProLED	JC20/2WW/LED	not compatible	not compatible	not tested	not tested	not tested	not tested	not tested	not tested	8%	28%	7%	26%	4%	20%	insufficient load	not compatible	not tested	not tested	not tested	not tested	not tested	not tested
Dimmable JC20 2.4 Watt, BA15s, 10-18 VAC LED Warm White Halco ProLED	JC20/2WW/BA15S/LED	not compatible	not compatible	not tested	not tested	not tested	not tested	not tested	not tested	8%	28%	7%	26%	4%	20%	insufficient load	not compatible	not tested	not tested	not tested	not tested	not tested	not tested
Self-Driven Light Bars (MaxLite)																							
Self-Driven Dimmable Under Cabinet Light, 12 LEDs, 12 inch Warm White	MLSDB12WWLED	1%	10%	1%	10%	1%	9%	28%	53%	not compatible	not compatible	20%	45%	insufficient load	8%	28%	8%	27%	not compatible	not compatible	not compatible	not compatible	
Self-Driven Dimmable Under Cabinet Light, 12 LEDs, 12 inch Daylight White	MLSDB12DLLED	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth
Self-Driven Dimmable Under Cabinet Light, 18 LEDs, 12 inch Warm White	MLSDB18WWLED	1%	8%	1%	8%	0%	0%	9%	29%	8%	28%	7%	27%	6%	25%	insufficient load	2%	15%	2%	15%	not compatible	not compatible	
Self-Driven Dimmable Under Cabinet Light, 18 LEDs, 12 inch Daylight White	MLSDB18DLLED	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth
Self-Driven Dimmable Under Cabinet Light, 33 LEDs, 12 inch Warm White	MLSDB33WWLED	1%	8%	13%	37%	0%	0%	6%	25%	0%	7%	0%	5%	0%	6%	0%	6%	0%	7%	0%	0%	0%	0%
Self-Driven Dimmable Under Cabinet Light, 33 LEDs, 12 inch Daylight White	MLSDB33DLLED	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth	not too smooth
Direct Wire Under Cabinet Lighting (Kichler)																							
Kichler Design Pro LED 6, 12, 22 or 30 Inch Direct Wire Dimmable Under Cabinet Light (White, Stainless Steel or Bronze)	12055xx, 12056xx 12057xx, 12058xx	11%	33%	11%	33%	not tested	not tested	22%	47%	15%	39%	15%	39%	15%	39%	insufficient load	not compatible	not tested	not tested	not tested	not tested	not tested	not tested
		pop-on <11% meas.	pop-on <11% meas.	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim	adjust low-end trim
EnvironmentalLights.com Magnetic Dimming Drivers																							
36 Watt 12 VDC Dimming Power Supply (120 VAC input)	36W12VDim-120AC	Not Compatible																		0%	3%	not compatible	not compatible
48 Watt 24 VDC Dimming Power Supply (120 VAC input)	48W24VDim-120AC	Not Compatible																		0%	0%	0%	0%
60 Watt 12 VDC Dimming Power Supply (120 VAC input)	60W12VDim-120AC	Not Compatible																		0%	3%	0%	0%
96 Watt 24 VDC Dimming Power Supply (120 VAC input)	96W24VDim-120AC	Not Compatible																		0%	0%	0%	0%
240 (4x60) Watt 12 VDC Dimming Power Supply (120 VAC input)	4x60W12VDimX-120AC	Not Compatible																		0%	0%	0%	0%
288 (3x96) Watt 24 VDC Dimming Power Supply (120 VAC input)	3x96W24VDimX-120AC	Not Compatible																		0%	0%	0%	0%

Notes:

Test results were made with only one unit on a dimmer at a time. This is the most difficult condition. More bulbs or bars=better dimming.

"Pop-on" means the lights do not come on smoothly from the bottom. As you brighten the lights, they "pop-on."

"Bounce-back" means the lights dim as expected until near the bottom, when they get brighter, even as you continue to move the slider down.

"Dead Travel" means that moving the slider through part of its range (usually the top end), will not change brightness. Typically, people don't object too much to this.

Perceived dimming = square root of measured dimming. Example: 20% measured = 45% perceived.

Achievable dimming, at the low end, in percent, of the high end brightness.

Best dimmers are in dark green.

Next best dimmers are in light green.

Dimmers that have a neutral wire require that the neutral wire be present in the gang box. Most newer construction has the neutral wire in the box.

Bulb Name and Part #	Part Number	Leviton SureSlide 450 Watt, 600 VA 6613-PL No Neutral Wire		Lutron Diva 450 Watt, 600 VA DVLV-603P No Neutral Wire		Lutron Skylark 450 Watt, 600 VA SLV-603P No Neutral Wire		Lutron Ariadni 450 Watt, 600 VA AYLV-603P No Neutral Wire		Lutron Nova T 300 Watt, 400 VA NTLV-400VA Neutral Wire We do not sell this.		Leviton Illumatech 450 Watt, 600 VA IPM06-1 No Neutral Wire We do not sell this.		Magnetic Low Voltage Dimmers Lutron Maestro Wireless 450 Watt, 600 VA MRF2-6MLV No Neutral Wire		Lutron Maestro Wireless 450 Watt, 600 VA MRF2-6ND-120 Neutral Wire		Lutron Maestro Wireless 800 Watt, 1000 VA MRF2-10D-120 No Neutral Wire		Lutron Radio RA2 450 Watt, 600 VA RRD-6D No Neutral Wire		Lutron Radio RA2 800 Watt, 1000 VA RRD-10D No Neutral Wire		Lutron Radio RA2 800 Watt, 1000 VA RRD-10ND Neutral Wire	
		(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)		
PAR20 (2.5 in. dia.)																									
Dimmable PAR20 (2.5 in. dia.) 7.2 Watt, E26 (Medium), 120 VAC LED Very Wide Flood 69° Warm White Halco ProLED	PAR20/7WW/VWFL/LED	3%	16%	2%	12%	2%	12%	0%	5%	not compatible	1%	11%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible		
Dimmable PAR20 (2.5 in. dia.) 7.2 Watt, E26 (Medium), 120 VAC LED Flood 43° Warm White Halco ProLED	PAR20/7WW/FL/LED	bounce-back		bounce-back		poor low-end behavior																			
Dimmable PAR20 (2.5 in. dia.) 7.2 Watt, E26 (Medium), 120 VAC LED Narrow Flood 24° Warm White Halco ProLED	PAR20/7WW/NFL/LED																								
Dimmable PAR20 (2.5 in. dia.) 7.2 Watt, E26 (Medium), 120 VAC LED Flood 46° Natural White Halco ProLED	PAR20/7NW/FL/LED																								
Dimmable PAR20 (2.5 in. dia.) 7.2 Watt, E26 (Medium), 120 VAC LED Narrow Flood 26° Natural White Halco ProLED	PAR20/7NW/NFL/LED																								
Dimmable PAR20 (2.5 in. dia.) 8 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Warm White Halco ProLED	PAR20/8WW/FL/LED2	0%	0%	0%	0%	0%	0%	0%	0%	not compatible	0%	0%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible		
Dimmable PAR20 (2.5 in. dia.) 8 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Natural White Halco ProLED	PAR20/8NW/NFL/LED2	pop-on		pop-on		pop-on		pop-on	<9% meas.																
Dimmable PAR20 (2.48 in. dia.) 9 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Warm White Toshiba	9P20/827NFL25	4%	19%	4%	20%	4%	19%	3%	16%	4%	20%	4%	20%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	2%	16%		
Dimmable PAR20 (2.48 in. dia.) 8.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Warm White Toshiba	9P20/827SP8	pop-on <6%				delay-on		delay-on														bounce-back			
Dimmable PAR20 (2.48 in. dia.) 9 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Soft White Toshiba	9P20/830NFL25																								
Dimmable PAR20 (2.48 in. dia.) 8.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Soft White Toshiba	9P20/830SP8																								

PAR30 (3.75 in. dia.)																							
Dimmable PAR30 (3.75 in. dia.) 11 Watt, E26 (Medium), 120 VAC LED Flood 40° Warm White EnvironmentalLights.com	EL11PAR30WW	2%	15%	10%	32%	5%	22%	5%	22%	13%	36%	12%	35%	1%	8%	2%	13%	1%	9%	not compatible	not compatible	1%	11%
Dimmable PAR30 (3.77 in. dia.) 65 Watt-Equivalent 13 Watt Standard Screw-in 120 VAC 5-LED Flood 35° Warm White OptiLED	1503050217	10%	32%	22%	47%	13%	36%	11%	33%	16%	40%	23%	47%	4%	20%	5%	22%	4%	21%	not compatible	not compatible	3%	19%
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Very Wide Flood 120° Warm White Halco ProLED	PAR30/14WW/VWFL/LED	3%	17%	9%	29%	3%	18%	4%	19%	12%	34%	10%	31%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Very Wide Flood 120° Natural White Halco ProLED	PAR30/14NW/VWFL/LED	flicker below 3%						pop-on <48% meas.															
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Flood 40° Warm White Halco ProLED	PAR30/14WW/FL/LED	3%	16%	9%	30%	3%	18%	3%	17%	13%	36%	10%	31%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Warm White Halco ProLED	PAR30/14WW/NFL/LED	flicker below 3%						pop-on <43% meas.															
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Flood 40° Natural White Halco ProLED	PAR30/14NW/FL/LED																						
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Flood 40° Warm White Halco ProLED	PAR30/14WW/FL/LED2	3%	18%	7%	26%	3%	16%	3%	16%	10%	31%	6%	25%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Spot 10° Warm White Halco ProLED	PAR30/14WW/SP/LED2	flicker below 3%																					
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Flood 40° Natural White Halco ProLED	PAR30/14NW/FL/LED2																						
Dimmable PAR30 (3.78 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Spot 10° Natural White Halco ProLED	PAR30/14NW/SP/LED2																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Flood 32° Warm White Toshiba	16P30S/827FL32	5%	21%	5%	22%	4%	19%	2%	15%	5%	22%	8%	28%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	3%	18%
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 23° Warm White Toshiba	16P30S/827NFL23	pop-on <8%																				bounce-back	
Dimmable PAR30 (3.74 in. dia.) 15.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Warm White Toshiba	16P30S/827SP8																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Flood 32° Soft White Toshiba	16P30S/830FL32																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 23° Soft White Toshiba	16P30S/830NFL23																						
Dimmable PAR30 (3.74 in. dia.) 15.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Soft White Toshiba	16P30S/830SP8																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Flood 32° Natural White Toshiba	16P30S/840FL32																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 23° Natural White Toshiba	16P30S/840NFL23																						
Dimmable PAR30 (3.74 in. dia.) 15.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Natural White Toshiba	16P30S/840SP8																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Flood 32° Warm White Toshiba	16P30L/827FL32	5%	21%	5%	22%	2%	15%	5%	21%	5%	22%	5%	22%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	3%	18%
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 23° Warm White Toshiba	16P30L/827NFL23	pop-on																				bounce-back	
Dimmable PAR30 (3.74 in. dia.) 15.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Warm White Toshiba	16P30L/827SP8																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Flood 32° Soft White Toshiba	16P30L/830FL32																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 23° Soft White Toshiba	16P30L/830NFL23																						
Dimmable PAR30 (3.74 in. dia.) 15.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Soft White Toshiba	16P30L/830SP8																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Flood 32° Natural White Toshiba	16P30L/840FL32																						
Dimmable PAR30 (3.74 in. dia.) 16.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 23° Natural White Toshiba	16P30L/840NFL23																						
Dimmable PAR30 (3.74 in. dia.) 15.6 Watt, E26 (Medium), 120 VAC LED Spot 8° Natural White Toshiba	16P30L/840SP8																						
Dimmable PAR30 (3.8 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Flood 40° Soft White TCP	LED14E26P3030KFL	0%	6%	1%	9%	0%	6%	0%	6%	1%	8%	1%	10%	not compatible	0%	5%	not compatible	not compatible	not compatible	not compatible	not compatible	0%	5%
Dimmable PAR30 (3.8 in. dia.) 14 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Soft White TCP	LED14E26P3030KNFL																						

PAR38 (4.75 in. dia.)																							
Dimmable PAR38 (4.77 in. dia.) 15 Watt, E26 (Medium), 120 VAC LED Flood 40° Warm White EnvironmentalLights.com	EL15PAR38WW	2%	16%	8%	29%	4%	19%	3%	16%	10%	32%	9%	30%	not compatible	10%	31%	not compatible	not compatible	not compatible	not compatible	not compatible	1%	11%
Dimmable PAR38 (4.72 in. dia.) 80 Watt-Equivalent 18 Watt Standard Screw-in 120 VAC 10-LED Spot/Flood 28° Warm White OptiLED	1505050217	not compatible		18%	42%	9%	29%	not compatible		26%	51%	18%	43%	4%	19%	7%	26%	4%	20%	not compatible	not compatible	6%	24%
Dimmable PAR38 (4.75 in. dia.) 18 Watt, E26 (Medium), 120 VAC LED Flood 40° Warm White Halco ProLED	PAR38/18WW/FL/LED	1%	11%	6%	24%	2%	15%	2%	15%	11%	32%	6%	24%	3%	17%	2%	13%	3%	16%	3%	17%	3%	16%
Dimmable PAR38 (4.75 in. dia.) 18 Watt, E26 (Medium), 120 VAC LED Flood 40° Natural White Halco ProLED	PAR38/18NW/FL/LED																						
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Flood 35° Warm White Toshiba	20P38/827FL35	4%	21%	5%	22%	5%	21%	2%	14%	6%	25%	7%	27%	not compatible	3%	18%	not compatible	not compatible	not compatible	not compatible	not compatible	3%	18%
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Warm White Toshiba	20P38/827NFL25	pop-on <14%		pop-on <6%		pop-on <9%		pop-on <8% meas.														bounce-back	
Dimmable PAR38 (4.76 in. dia.) 19.2 Watt, E26 (Medium), 120 VAC LED Spot 8° Warm White Toshiba	19P38/827SP8																						
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Flood 35° Soft White Toshiba	20P38/830FL35																						
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Soft White Toshiba	20P38/830NFL25																						
Dimmable PAR38 (4.76 in. dia.) 19.2 Watt, E26 (Medium), 120 VAC LED Spot 8° Soft White Toshiba	19P38/830SP8																						
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Flood 35° Bright White Toshiba	20P38/835FL35																						
Dimmable PAR38 (4.76 in. dia.) 20.3 Watt, E26 (Medium), 120 VAC LED Narrow Flood 25° Bright White Toshiba	20P38/835NFL25																						
Dimmable PAR38 (4.76 in. dia.) 19.2 Watt, E26 (Medium), 120 VAC LED Spot 8° Bright																							

Achievable dimming, at the low end, in percent, of the high end brightness.

Best dimmers are in dark green.

Next best dimmers are in light green.

Dimmers that have a neutral wire require that the neutral wire be present in the gang box. Most newer construction has the neutral wire in the box.

Bulb Name and Part #	Part Number	Leviton Sureslide		Lutron Diva		Lutron Skylark		Lutron Ariadni		Lutron Nova T		Leviton Illumatech		Magnetic Low Voltage Dimmers Lutron Maestro Wireless		Lutron Maestro Wireless		Lutron Maestro Wireless		Lutron Radio RA2		Lutron Radio RA2		Lutron Radio RA2		
		(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	(Measured) (%)	(Perceived) (%)	
A Bulbs																										
Dimmable A15 (1.875 in. dia.) 5.7 Watt, E26 (Medium), 120 VAC LED Omni-directional Warm White Halco ProLED	A15/6WW/LED	1%	12%	2%	15%	2%	15%	1%	10%	not compatible	1%	10%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible
Dimmable A19 (2.4 in. dia.) 8.3 Watt, E26 (Medium), 120 VAC LED Omni-directional Warm White Halco ProLED	A19/8WW/LED2	2%	15%	2%	15%	2%	15%	not tested	not compatible	2%	15%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not tested	not tested	not tested	not tested	not tested	
Dimmable A19 (2.33 in. dia.) 5.5 Watt, E26/27 (Medium), 120 VAC LED Omni-directional Soft White Lemnis Pharox	Pharox 300 3000K	5%	22%	8%	29%	8%	29%	5%	22%	5%	22%	6%	25%	not compatible	5%	22%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	5%	23%	
Dimmable A19 (2.33 in. dia.) 8 Watt, E26/27 (Medium), 120 VAC LED Omni-directional Warm White Lemnis Pharox	Pharox 400 2700K	5%	22%	5%	22%	5%	22%	5%	22%	5%	22%	5%	22%	not compatible	5%	22%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	5%	22%	
Chandelier Bulbs																										
Dimmable Chandelier 2.3 Watt, 120 VAC LED 2700K Clear TCP		not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	1%	8%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	
Dimmable Chandelier 2.6 Watt, 120 VAC LED 3000K Clear TCP		not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	1%	8%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	1%	11%	
Dimmable Chandelier 2.6 Watt, 120 VAC LED 3000K Frosted TCP		not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	1%	8%	not compatible	not compatible	1%	8%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	1%	11%	
JC Bulbs																										
Dimmable JC10 1.5 Watt, G4, 10-18 VAC LED Warm White Halco ProLED	JC10/1WW/LED	not compatible	not compatible	not compatible	not compatible	not tested	not tested	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not tested	not tested	not tested	not tested	not tested	
Dimmable JC10 1.5 Watt, BA15s, 10-18 VAC LED Warm White Halco ProLED	JC10/1WW/BA15S/LED	not compatible	not compatible	not compatible	not compatible	not tested	not tested	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not tested	not tested	not tested	not tested	not tested	
Dimmable JC20 2.4 Watt, G4, 10-18 VAC LED Warm White Halco ProLED	JC20/2WW/LED	not compatible	not compatible	not compatible	not compatible	not tested	not tested	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not tested	not tested	not tested	not tested	not tested	
Dimmable JC20 2.4 Watt, BA15s, 10-18 VAC LED Warm White Halco ProLED	JC20/2WW/BA15S/LED	not compatible	not compatible	not compatible	not compatible	not tested	not tested	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not tested	not tested	not tested	not tested	not tested	
Self-Driven Light Bars (MaxLite)																										
Self-Driven Dimmable Under Cabinet Light, 12 LEDs, 12 inch Warm White	MLSDB12WWLED	not compatible	not compatible	not compatible	not compatible	17%	41%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	90%	95%	
Self-Driven Dimmable Under Cabinet Light, 12 LEDs, 12 inch Daylight White	MLSDB12DLLED	not compatible	not compatible	not compatible	not compatible	11%	33%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	90%	95%	
Self-Driven Dimmable Under Cabinet Light, 18 LEDs, 12 inch Warm White	MLSDB18WWLED	not compatible	not compatible	not compatible	not compatible	27%	52%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	0%	0%	
Self-Driven Dimmable Under Cabinet Light, 18 LEDs, 12 inch Daylight White	MLSDB18DLLED	not compatible	not compatible	not compatible	not compatible	27%	52%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	0%	0%	
Self-Driven Dimmable Under Cabinet Light, 33 LEDs, 12 inch Warm White	MLSDB33WWLED	not compatible	not compatible	not compatible	not compatible	10%	32%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	0%	0%	
Self-Driven Dimmable Under Cabinet Light, 33 LEDs, 12 inch Daylight White	MLSDB33DLLED	not compatible	not compatible	not compatible	not compatible	10%	32%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	0%	0%	
Direct Wire Under Cabinet Lighting (Kichler)																										
Kichler Design Pro LED 6, 12, 22 or 30 Inch Direct Wire Dimmable Under Cabinet Light (White, Stainless Steel or Bronze)	12055xx, 12056xx 12057xx, 12058xx	8%	28%	15%	39%	10%	32%	not tested	not compatible	17%	41%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not tested	not tested	not tested	not tested	not tested	
EnvironmentalLights.com Magnetic Dimming Drivers																										
36 Watt 12 VDC Dimming Power Supply (120 VAC input)	36W12VDim-120AC	2%	13%	2%	13%	1%	9%	0%	3%	13%	37%	1%	10%	not compatible	0%	0%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	0%	0%	
48 Watt 24 VDC Dimming Power Supply (120 VAC input)	48W24VDim-120AC	0%	0%	0%	0%	0%	0%	0%	0%	6%	24%	0%	0%	not compatible	0%	0%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	0%	0%	
60 Watt 12 VDC Dimming Power Supply (120 VAC input)	60W12VDim-120AC	0%	0%	0%	6%	4%	21%	0%	3%	13%	37%	4%	20%	not compatible	0%	0%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	0%	0%	
96 Watt 24 VDC Dimming Power Supply (120 VAC input)	96W24VDim-120AC	0%	0%	0%	3%	0%	3%	0%	0%	4%	19%	0%	3%	not compatible	0%	0%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	0%	0%	
240 (4x60) Watt 12 VDC Dimming Power Supply (120 VAC input)	4x60W12VDimX-120AC	1%	12%	29%	54%	27%	52%	7%	26%	33%	57%	36%	60%	not compatible	0%	0%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	0%	3%		
288 (3x96) Watt 24 VDC Dimming Power Supply (120 VAC input)	3x96W24VDimX-120AC	0%	3%	19%	44%	17%	41%	10%	32%	25%	50%	26%	51%	not compatible	0%	0%	not compatible	not compatible	not compatible	not compatible	not compatible	not compatible	0%	0%		

Notes:

Test results were made with only one unit on a dimmer at a time. This is the most difficult condition. More bulbs or bars=better dimming.

Perceived dimming = square root of measured dimming. Example: 20% measured = 45% perceived.

"Pop-on" means the lights do not come on smoothly from the bottom. As you brighten the lights, they "pop-on."

"Bounce-back" means the lights dim as expected until near the bottom, when they get brighter, even as you continue to move the slider down.

"Dead Travel" means that moving the slider through part of its range (usually the top end), will not change brightness. Typically, people don't object too much to this.