

# Dimmable CFL & LED bulbs

Approved for use with RadioRA<sup>®</sup> 2 and HomeWorks<sup>®</sup> QS dimmers



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List updated January 1, 2013  
For the most up-to-date list, visit  
[www.lutron.com/dimcflled](http://www.lutron.com/dimcflled).

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Dimming light emitting diodes (LEDs) and compact fluorescent (CFL) lamps/fixtures can be challenging, because the variations in driver technology make it difficult to choose the right dimmer for a particular lamp/fixture.

We have put together this list of LED and CFL lamps/fixtures that are compatible with our residential systems products. The lamps/fixtures on this list were approved after testing by Lutron. All controls in this document are UL listed for 150W of approved LED and CFL load per zone. Compatibility is an indication that the lamp/fixture has been evaluated for a basic level of functionality and safe operation to the rated load of the Lutron control.

If you'd like more information on dimming LEDs—including a white paper and product selection tool—please visit [www.lutron.com/dimcflled](http://www.lutron.com/dimcflled).

**Note:** We are continuously testing bulbs for compatibility with RadioRA 2 and HomeWorks QS dimmers and updating this list regularly. Not all bulbs listed are compatible with every RadioRA 2 and HomeWorks QS dimming product. Refer to the tables for each specific product to determine compatibility. Please continue to check the list as more bulbs are tested.

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## Bulbs for 600W Phase Adaptive RF Dimmer

Models: RRD-6NA  
HQRD-6NA



### LED bulbs

Brand	Wattage	Model	Description
<b>Commercial Electric</b>	14.5W	CED6 WW 120 WH	6" Downlight, White
<b>Cree</b>	9.5W	CR6	6" Downlight, 2700k, Edison Base
	9.5W	CR4	4" Downlight, 2700k, Edison Base
	9.5W	CR6-GU24	6" Downlight, 2700k, GU24 Base
<b>EcoSmart</b>	9.5W	ECO4-575L	4" Downlight
	9.5W	ECO-575L	6" Downlight
	18.0W	ECS 38 WW FL 120	PAR38, Warm White, 3000k
	18.0W	ECS 38 CW FL 120	PAR38, Daylight White, 4900k
<b>GE</b>	7.0W	LED7DP20S830/20	PAR20, 3000k, Flood, Silver Base
	10.0W	LED10DP30S830/20	PAR30, 3000k, Short Neck, Silver Base
	10.0W	LED10DP3LS830/20	PAR30, 3000k, Long Neck, Silver Base
<b>Lithonia</b>	7.5W	LK3BMWLED	3" Downlight
	9.0W	LK4BMWLED	4" Downlight
<b>Philips</b>	18.0W	18E26PAR38D-E2	PAR38**
<b>Sylvania</b>	8.0W	LED8PAR20/DIM/827/FL36	PAR20, 2700k, FL
	9.0W	RT4 Fixture	Ultra RT4 4" Downlight
	10.0W	LED10PARS20/DIM//P/930/FL30	PAR20, 9300k
	11.0W	RT6 Fixture	Ultra RT6 6" Downlight**
	15.0W	LED15BR30/DIM/827	R30, 2700k
	15.0W	LED15PAR30/DIM/P/930/FL40	PAR30, 3000k, FL
	18.0W	LED18PAR38LN/DIM/830/NFL25	PAR38, 3000k, NFL**
	18.0W	LED18PAR38LN/DIM/827/FL40	PAR38, 2700k, FL**
	18.0W	LED18PAR38LN/DIM/830/FL40	PAR38, 3000k, FL**
	21.0W	LED21PAR38/DIM/P/930/FL30	PAR38, 3000k, FL

### CFL bulbs\*

Brand	Wattage	Model	Description
<b>TCP</b>	14W	4R2014TD50K	R20, TrueDim, 5000k
	16W	41316TD30K	A21, TrueDim, 3000k***

\* CFLs typically require a warmup period before their full dimming range is achieved.

\*\* Forward phase only

\*\*\* Reverse phase only

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## Bulbs for 600W RF Dimmer w/ Neutral Wire

Models: HQRD-6ND



### LED bulbs

Brand	Wattage	Model	Description
<b>Commercial Electric</b>	14.5W	CED6 WW 120 WH	6" Downlight, White
<b>Cree</b>	9.5W	CR6	6" Downlight, 2700k, Edison Base
	9.5W	CR4	4" Downlight, 2700k, Edison Base
	9.5W	CR6-GU24	6" Downlight, 2700k, GU24 Base
<b>EcoSmart</b>	9.5W	ECO-575L	6" Downlight
	9.5W	ECO4-575L	4" Downlight
<b>GE</b>	7.0W	LED7DP20S830/20	PAR20, 3000k, Flood, Silver Base
	10.0W	LED10DP3LS830/20	PAR30, 3000k, Long Neck, Silver Base
<b>Lithonia</b>	7.5W	LK3BMWLED	3" Downlight
	9.0W	LK4BMWLED	4" Downlight
	13.0W	LK5BMWLED	5" Downlight
<b>Philips</b>	18.0W	18E26PAR38-E2	PAR38
<b>Sylvania</b>	8.0W	LED8PAR20/DIM/827/FL36	PAR20, 2700k, FL
	10.0W	LED10PARS20/DIM//P/930/FL30	PAR20, 9300k
	11.0W	RT6 Fixture	Ultra RT6 6" Downlight
	15.0W	LED15BR30/DIM/827	R30, 2700k
	15.0W	LED15PAR30LN/DIM/830/FL40	PAR30, 3000k, FL
	15.0W	LED15PAR30LN/DIM/827/FL40	PAR30, 2700k, FL
	15.0W	LED15PAR30LN/DIM/830/NFL25	PAR30, 3000k, NFL
	17.0W	LED17PAR30LN/DIM/P/830/NFL25	PAR30, 3000k, NFL



### CFL bulbs\*

Brand	Wattage	Model	Description
<b>Philips</b>	20W	EL/A R40 Dim 20W	R40

\* CFLs typically require a warmup period before their full dimming range is achieved.

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## Bulbs for 600W and 1000W Wired Communication Dimmer w/ Neutral Wire

Models: HWD-6ND  
HWD-10ND



### LED bulbs

Brand	Wattage	Model	Description
<b>Commercial Electric</b>	14.5W	CED6 WW 120 WH	6" Downlight, White
<b>Cree</b>	9.5W	CR4	4" Downlight, 2700k, Edison Base
	9.5W	CR6	6" Downlight, 2700k, GU24 Base
	9.5W	CR6-GU24	6" Downlight, 2700k, GU24 Base
<b>EcoSmart</b>	9.5W	ECO4-575L	4" Downlight
	9.5W	ECO-575L	6" Downlight
<b>GE</b>	7.0W	LED7DP20S830/20	PAR20, 3000k, Flood, Silver Base
	10.0W	LED10DP30S830/20	PAR30, 3000k, Short Neck, Silver Base
	10.0W	LED10DP3LS830/20	PAR30, 3000k, Long Neck, Silver Base
<b>Lithonia</b>	7.5W	LK3BMWLED	3" Downlight
	13.0W	LK5BMWLED	5" Downlight
<b>Philips</b>	18.0W	18E26PAR38-E2	PAR38
<b>Sylvania</b>	8.0W	LED8PAR20/DIM/827/FL36	PAR20, 2700k, FL
	10.0W	LED10PARS20/DIM//P/930/FL30	PAR20, 9300k
	15.0W	LED15BR30/DIM/827	R30, 2700k



### CFL bulbs\*

Brand	Wattage	Model	Description
<b>Philips</b>	20W	EL/A R40 Dim 20W	R40

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## Bulbs for 1000W RF Dimmer w/ Neutral Wire

Models: RRD-10ND  
HQRD-10ND



### LED bulbs

Brand	Wattage	Model	Description
<b>Commercial Electric</b>	14.5W	CED6 WW 120 WH	6" Downlight, White
<b>Cree</b>	9.5W	CR6	6" Downlight, 2700k, Edison Base
	9.5W	CR4	4" Downlight, 2700k, Edison Base
	9.5W	CR6-GU24	6" Downlight, 2700k, GU24 Base
<b>EcoSmart</b>	9.5W	ECO-575L	6" Downlight
	9.5W	ECO4-575L	4" Downlight
<b>GE</b>	7.0W	LED7DP20S830/20	PAR20, 3000k, Flood, Silver Base
	10.0W	LED10DP3LS830/20	PAR30, 3000k, Long Neck, Silver Base
<b>Lithonia</b>	7.5W	LK3BMWLED	3" Downlight
	9.0W	LK4BMWLED	4" Downlight
	13.0W	LK5BMWLED	5" Downlight
<b>Philips</b>	18.0W	18E26PAR38-E2	PAR38
<b>Sylvania</b>	8.0W	LED8PAR20/DIM/827/FL36	PAR20, 2700k, FL
	10.0W	LED10PARS20/DIM//P/930/FL30	PAR20, 9300k
	11.0W	RT6 Fixture	Ultra RT6 6" Downlight
	15.0W	LED15BR30/DIM/827	R30, 2700k
	15.0W	LED15PAR30LN/DIM/830/FL40	PAR30, 3000k, FL
	15.0W	LED15PAR30LN/DIM/827/FL40	PAR30, 2700k, FL
	15.0W	LED15PAR30LN/DIM/830/NFL25	PAR30, 3000k, NFL
	17.0W	LED17PAR30LN/DIM/P/830/NFL25	PAR30, 3000k, NFL
	18.0W	LED18PAR38LN/DIM/830/NFL25	PAR38, 3000k, NFL
	18.0W	LED18PAR38LN/DIM/827/FL40	PAR38, 2700k, FL
	18.0W	LED18PAR38LN/DIM/830/FL40	PAR38, 3000k, FL

### CFL bulbs\*

Brand	Wattage	Model	Description
<b>Philips</b>	20W	EL/A R40 Dim 20W	R40

\* CFLs typically require a warmup period before their full dimming range is achieved.

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## Bulbs for GRAFIK Eye® QS Main Unit and Wallbox Power Module

Models: QSGRJ  
HQRJ-WPM-6D-120



### LED bulbs

Brand	Wattage	Model	Description
<b>Commercial Electric</b>	14.5W	CED6 WW 120 WH	6" Downlight, White
<b>Cree</b>	9.5W	CR6	6" Downlight, 2700k, Edison Base
	9.5W	CR4	4" Downlight, 2700k, Edison Base
	9.5W	CR6-GU24	6" Downlight, 2700k, GU24 Base
<b>EcoSmart</b>	9.5W	ECO-575L	6" Downlight
	9.5W	ECO4-575L	4" Downlight
	18.0W	ECS 38 WW FL 120	PAR38, Warm White, 3000k
	18.0W	ECS 38 CW FL 120	PAR38, Daylight White, 4900k
<b>GE</b>	7.0W	LED7DP20S830/20	PAR20, 3000k, Flood, Silver Base
	10.0W	LED10DP3LS830/20	PAR30, 3000k, Long Neck, Silver Base
<b>Lithonia</b>	7.5W	LK3BMWLED	3" Downlight
	9.0W	LK4BMWLED	4" Downlight
	12.0W	REAL6 D6MW ESL	6" LED Module
	13.0W	LK5BMWLED	5" Downlight
<b>Philips</b>	18.0W	18E26PAR38-E2	PAR38
<b>Sylvania</b>	8.0W	LED8PAR20/DIM/827/FL36	PAR20, 2700k, FL
	10.0W	LED10PARS20/DIM//P/930/FL30	PAR20, 9300k
	15.0W	LED15BR30/DIM/827	R30, 2700k
	18.0W	LED18PAR38LN/DIM/830/NFL25	PAR38, 3000k, FL
	18.0W	LED18PAR38LN/DIM/827/FL40	PAR38, 2700k, FL
	18.0W	LED18PAR38LN/DIM/830/FL40	PAR38, 3000k, FL
	21.0W	LED21PAR38/DIM/P/930/FL30	PAR38, 3000k, FL



### CFL bulbs\*

Brand	Wattage	Model	Description
<b>TCP</b>	14W	TCP 4R2014TD50K	R20, TrueDim, 5000k
	16W	TCP 41316TD30K	A21, TrueDim, 3000k

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## Bulbs for 4 Zone Forward Phase Remote Dimming Module

Models: HW-RPM-4U-120



### LED bulbs

Brand	Wattage	Model	Description
<b>Commercial Electric</b>	14.5W	CED6 WW 120 WH	6" Downlight, White
<b>Cree</b>	9.5W	CR6	6" Downlight, 2700k, Edison Base
	9.5W	CR4	4" Downlight, 2700k, Edison Base
	9.5W	CR6-GU24	6" Downlight, 2700k, GU24 Base
<b>EcoSmart</b>	9.5W	ECO4-575L	4" Downlight
	9.5W	ECO-575L	6" Downlight
<b>GE</b>	10.0W	LED10DP30S830/20	PAR30, 3000k, Short Neck, Silver Base
	10.0W	LED10DP3LS830/20	PAR30, 3000k, Long Neck, Silver Base
<b>Lithonia</b>	7.5W	LK3BMWLED	3" Downlight
	9.0W	LK4BMWLED	4" Downlight
	13.0W	LK5BMWLED	5" Downlight
<b>Philips</b>	18.0W	18E26PAR38-E2	PAR38
<b>Sylvania</b>	15.0W	LED15PAR30LN/DIM/830/FL40	PAR30, 3000k, FL
	15.0W	LED15PAR30LN/DIM/827/FL40	PAR30, 2700k, FL
	15.0W	LED15PAR30LN/DIM/830/NFL25	PAR30, 3000k, NFL
	15.0W	LED15BR30/DIM/827	R30, 2700k
	17.0W	LED17PAR30LN/DIM/P/830/NFL25	PAR30, 3000k, NFL
	18.0W	LED18PAR38LN/DIM/830/NFL25	PAR38, 3000k, FL*
	18.0W	LED18PAR38LN/DIM/827/FL40	PAR38, 2700k, FL*
	18.0W	LED18PAR38LN/DIM/830/FL40	PAR38, 3000k, FL*
	21.0W	LED21PAR38/DIM/P/930/FL30	PAR38, 3000k, FL

\* Use with LUT-LBX

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## Bulbs for 4 Zone Phase Adaptive Remote Dimming Module

Models: HW-RPM-4A-120



### LED bulbs

Brand	Wattage	Model	Description
<b>Commercial Electric</b>	14.5W	CED6 WW 120 WH	6" Downlight, White
<b>Cree</b>	9.5W	CR4	4" Downlight, 2700k, Edison Base
	9.5W	CR6-GU24	6" Downlight, 2700k, GU24 Base
	9.5W	CR6	6" Downlight, 2700k, Edison Base
<b>EcoSmart</b>	9.5W	ECO4-575L	4" Downlight
	9.5W	ECO-575L	6" Downlight
<b>GE</b>	7.0W	LED7DP20S830/20	PAR20, 3000k, Flood, Silver Base*
	10.0W	LED10DP3LS830/20	PAR30, 3000k, Long Neck, Silver Base*
<b>Lithonia</b>	7.5W	LK3BMWLED	3" Downlight
	9.0W	LK4BMWLED	4" Downlight
	12.0W	REAL6 D6MW ESL	6" LED Module
	13.0W	LK5BMWLED	5" Downlight
<b>Philips</b>	18.0W	18E26PAR38-E2	PAR38
<b>Sylvania</b>	8.0W	LED8PAR20/DIM/827/FL36	PAR20, 2700k, FL
	9.0W	RT4 Fixture	Ultra RT4 4" Downlight
	11.0W	RT6 Fixture	Ultra RT6 6" Downlight**
	15.0W	LED15PAR30LN/DIM/830/FL40	PAR30, 3000k, FL
	15.0W	LED15PAR30LN/DIM/827/FL40	PAR30, 2700k, FL
	15.0W	LED15PAR30LN/DIM/830/NFL25	PAR30, 3000k, NFL
	15.0W	LED15BR30/DIM/827	R30, 2700k
	18.0W	LED18PAR38LN/DIM/830/NFL25	PAR38, 3000k, FL
	18.0W	LED18PAR38LN/DIM/827/FL40	PAR38, 2700k, FL
	18.0W	LED18PAR38LN/DIM/830/FL40	PAR38, 3000k, FL
21.0W	LED21PAR38/DIM/P/930/FL30	PAR38, 3000k, FL	

\* Reverse phase only

\*\* Forward phase only

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## How to calculate wattage when mixing lamp types: (example only)

**Total CFL/LED  
Wattage Installed**



3 CFL bulbs x 16 W each  
= **48 W**

**Maximum Allowable  
Incandescent/Halogen Wattage**



6 Incandescent bulbs x 65 W each  
= **390 W**

### Example 1:

1. I have a single-gang dimmer and 3 CFL bulbs that are 16 W each, totaling 48 W.
2. Because I have 48 W of CFL bulbs installed, I can have up to 400 W of incandescent bulbs also controlled by this dimmer (6 incandescent bulbs that are 65 W each = 390 W)

(Please note this example applies to a single-gang dimmer only.)

Single-Gang	Total CFL/LED Wattage Installed		Maximum Allowable Incandescent/Halogen Wattage
	0 W	+	600 W
	1-25 W	+	500 W
	26-50 W	+	400 W
	51-75 W	+	300 W
	76-100 W	+	200 W
	101-125 W	+	100 W
	126-150 W	+	0 W
End of Gang	Total CFL/LED Wattage Installed		Maximum Allowable Incandescent/Halogen Wattage
	0 W	+	500 W
	1-25 W	+	400 W
	26-50 W	+	300 W
	51-75 W	+	200 W
	76-100 W	+	100 W
	101-125 W	+	50 W
	126-150 W	+	0 W
Middle of Gang	Total CFL/LED Wattage Installed		Maximum Allowable Incandescent/Halogen Wattage
	0 W	+	400 W
	1-25 W	+	300 W
	26-50 W	+	200 W
	51-75 W	+	100 W
	76-100 W	+	50 W
	101-125 W	+	0 W
	126-150 W	+	0 W