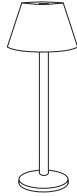# LUTRON®

For Your Information ...

Guide to Dimming Table Lamps

Why Dim Table Lamps?
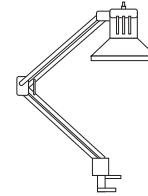
Table lamps, floor lamps, and other portable lamps, are in almost every room in the home.

Table Lamps   Floor Lamps   Other Portable Lamps

Dimming incandescent table lamps provide convenience, ease of use, and flexibility. You can adjust the lights to desired ambiences. Lutron lamp dimmers, along with other Lutron dimmers and window treatments, give you the ultimate control of all of the lighting in your home.

You'll also find a number of outstanding features and benefits, including:

• Eliminate the need for costly 3-way bulbs to vary light levels
• Dimmers sit on tabletop — no more reaching under lamp shades to turn lights on/off
• LEDs glow softly in the dark for easy location and as a comforting night light (available on most models)

How to Dim Table Lamps

Lutron lamp dimmers are UL Listed for this application and are easy to install. Most install simply by plugging them into a wall receptacle. Incandescent table lamps can then by dimmed by plugging the table lamp into the lamp dimmer cord.

Some wall receptacles are controlled by a wall switch. In these cases, the wall switch controls power to the wall receptacle (see figure below). Lutron lamp dimmers may also be used in these applications by plugging the dimmer into the switched wall receptacle.

Wall switches that control wall receptacles should not be replaced with Wallbox dimmers. The Underwriters Laboratories (UL) 1472 listing for Wallbox dimmers requires them to be used on permanently installed fixtures. For more information on these UL requirements, see the back page "Applicable Requirements: UL, *NEC.*"

Refer to the Lamp Dimmer Selection Guide on the following pages to select the dimmer that best suits your application.
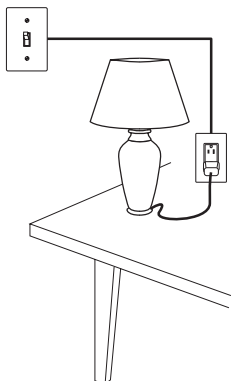
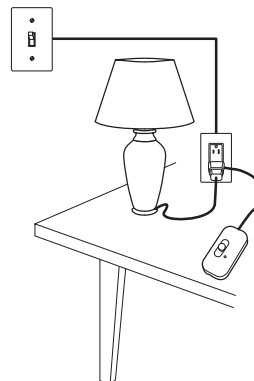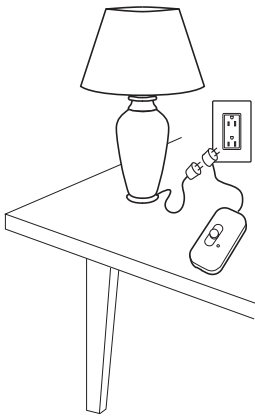Table lamp controlled by wall switch.

Table lamp controlled by wall switch and dimmed with Table Lamp Dimmer.

Need additional assistance? Call the Lutron Technical Support Center *1-800-523-9466*.
Please provide exact model number when calling.
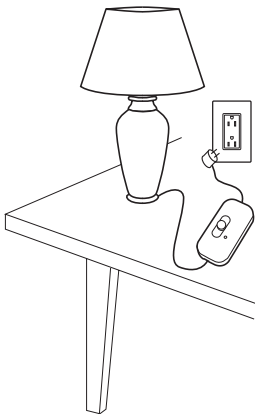
Lamp Dimmer Selection Guide

Credenza®

Plug your table or floor lamp into the dimmer cord, plug the dimmer into a receptacle, and you're ready to create the perfect light levels for TV, reading, or relaxation. Choose from white, brown, and black. The Credenza® dimmer is available with or without night-light.

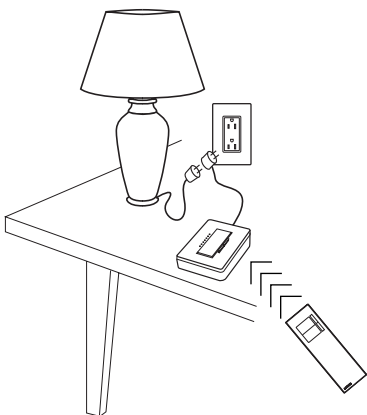| Credenza® Models	Available Colors	Load
TT-300H-	WH-White BR-Brown BK-Black	300W Incan.
TT-300NLH- (with night-light)	WH-White BR-Brown BK-Black	300W Incan.

Attaché®

The "on-cord" dimmer that's easy to connect to floor or table lamps. Determine a position on the lamp cord for the placement of the dimmer. Unplug the lamp, and using a standard wire cutter, simply cut the cord, plug the ends into each side of the Attaché dimmer, and enjoy your lamps like never before. Choose white or brown. The Attaché® dimmer is available with or without night-light.

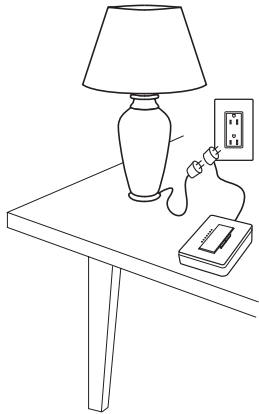| Attaché® Models	Available Colors	Load
LC-300H-	WH-White BR-Brown	300W Incan.
LC-300NLH- (with nightlight)	WH-White BR-Brown	300W Incan.

spacer SYSTEM™

Simply plug in and operate by remote control. Lamp dimmers can be tied into a complete room lighting control system, when used with Spacer System™ wall dimmers and Favorite Scene or 4-Scene transmitters. It's now possible to control every light with a single remote control. Great for TV rooms, home theaters, kitchens, and bedrooms. Lamp dimmers and remote controls (transmitters) available in Royal Plum only.

Spacer System™ Models	Available Colors	Load
SPS-300LD-	RP-Royal Plum	300W Incan.
SPS-FSIT- (Favorite Scene Transmitter)	RP-Royal Plum	

**Need additional assistance? Call the Lutron Technical Support Center *1-800-523-9466.*
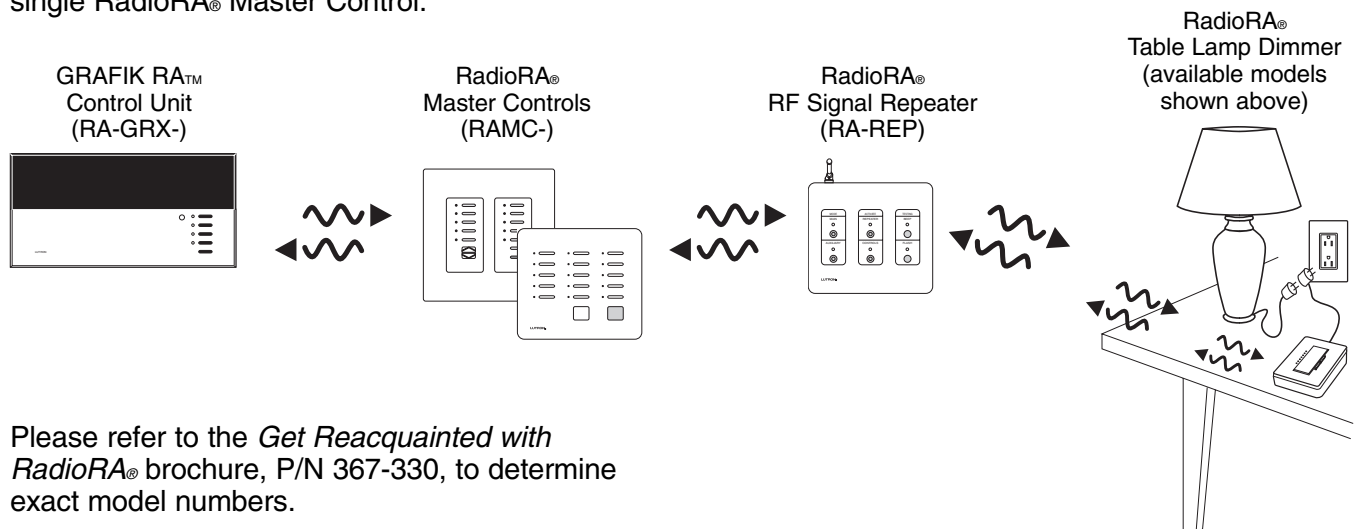Please provide exact model number when calling.**

RadioRA®

What the Spacer System™ lighting control system does for dimming in an entire room, the RadioRA® lighting control system does for dimming an entire home. Wireless, radio frequency (RF) remote control empowers homeowners with dimming products they can retrofit into existing homes. In that tradition, the RadioRA® lamp dimmer ties table and floor lamps into a whole-home lighting control system.

RadioRA® Models	Available Colors	Load
RA-300TL-	WH-White RP-Royal Plum	300W Incan.
RALV-300TL-	WH-White RP-Royal Plum	300VA MLV

GRAFIK RA™

Interfacing lamp dimmers into a whole-home system, such as a GRAFIK Eye® lighting control system, is also possible. By incorporating RadioRA® lamp dimmers and controls, with the GRAFIK Eye® lighting control system, you can control both your table lamps and GRAFIK Eye® lighting control system from a single RadioRA® Master Control.

GRAFIK RA™
Control Unit
(RA-GRX-)

RadioRA®
Master Controls
(RAMC-)

RadioRA®
RF Signal Repeater
(RA-REP)

RadioRA®
Table Lamp Dimmer
(available models
shown above)

Please refer to the *Get Reacquainted with RadioRA®* brochure, P/N 367-330, to determine exact model numbers.

Need additional assistance? Call the Lutron Technical Support Center *1-800-523-9466*.
Please provide exact model number when calling.

3

Applicable Requirements: UL, *NEC*

Two different standards are used by Underwriters Laboratory (UL) to evaluate wall-mounted dimmers:

* *UL 1472: Solid-State Dimming Controls* for dimmers replacing standard wall switches (General-Use Dimmers).

* *UL 508: Industrial Control Equipment* for all other dimmers (i.e. theatres and complete dimming systems)

UL 1472 requires products to be marked for use with permanently installed fixtures only. Prior codes required installation in accordance with the manufacturer's markings and instructions. The new 2002 National Electrical Code (*NEC®*)[1] contains changes to explicitly alert electrical inspectors to this issue.

The following article was added to the 2002 *NEC*:

"General-use dimmer switches shall be used only to control permanently installed incandescent luminaires (lighting fixtures) unless listed for the control of other loads and installed accordingly."

In the past, some portable lamps were dimmed by plugging them into a standard wall receptacle controlled by a Wallbox dimmer. The new clause is designed to prohibit this type of installation. The intent is to minimize the risk of accidental dimming of other electrical products (i.e. vacuum cleaners, general household appliances). This risk is more common in private homes where power cords are often moved between receptacles.

Lutron's Wallbox dimmers are evaluated to UL 1472. This standard requires that products be marked for use only with permanently installed fixtures. Product literature must caution against the use of dimmers to control receptacles. These requirements have been in effect for more than 10 years. The addition of this new clause to the *NEC* will simply reinforce these UL requirements.

Historically, dimmed receptacles has been allowed or overlooked due to a lack of explicit code language. We expect that inspectors will now pay closer attention to this issue.

Lutron's commercial control systems, such as GRAFIK Systems products, are evaluated to UL 508, and are not considered *general-use dimmer switches*. This standard does not require the cautionary product marking or statements spelled out in UL 1472. Technically, the *NEC* change does not prevent these types of control systems from controlling standard receptacles.

However, interpretation of the *NEC* code is left to the AHJ (Authority Having Jurisdiction), which is typically the local electrical inspector. Some inspectors may choose to interpret the restriction of permanently installed fixtures to commercial control systems as well. Always check with your local inspector to verify that your installation will meet local interpretation of the *NEC* code.

If you need further assistance, please feel free to contact Lutron's Technical Support Center at the number below.

[1] National Electrical Code and NEC are registered trademarks of the National Fire Protection Association, Quincy, MA.

Worldwide Technical and Sales Assistance
If you need assistance call the toll-free *Lutron Technical Support Center.* Please provide exact model number when calling.
24 hours/day + 7 days/week
(800) 523-9466 (U.S.A. and Canada)
Other countries call (610) 282-3800
Visit us on the web at www.lutron.com

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