

Performance Specifications

For complete
CSI specifications:
www.lutron.com/bpspecs

Robust Design

SOLID STATE TRIAC DIMMING

Lutron selects reliable, solid-state triacs. They are rated for a minimum of 150% of the control's rated capacity.

SURGE PROTECTION

Tested to withstand surges of 6000V, 200A meeting ANSI/IEEE Std. C62.41-1980

FILTERING NETWORK

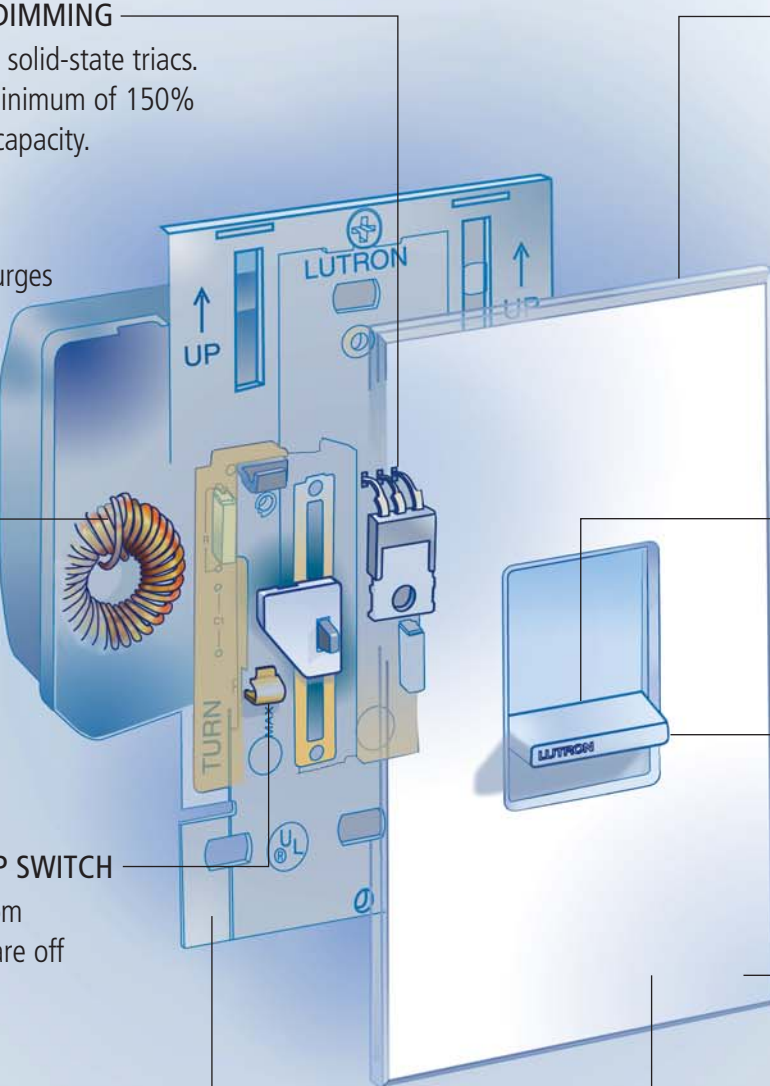
Large toroidal choke minimizes or eliminates radio frequency interference

ACCESSIBLE AIR-GAP SWITCH

Disconnects power from the load when lights are off

HEAT TRANSFER TECHNOLOGY

Engineered full-sized heat sinks transfer heat away from integral components, ensuring reduced operating temperatures that result in a long product life



POWER-FAILURE MEMORY

Light is restored to the same level set prior to the power-failure

UV STABLE COLOR

Tested for color stability when exposed to sunlight as defined in ASTM D4674-89

Elegant Aesthetics

NO EXPOSED METAL

Wallplates conceal heat sink and mounting hardware for a sleek appearance on all thin-profile controls

ELECTROSTATIC DISCHARGE PROTECTION

Protecting against static discharge up to 16KV

SQUARE LAW DIMMING

Slider position indicates the perceived light level

LUTRON

The name means quality and beautiful aesthetics

PRECISE COLOR CONSISTENCY

To assure color consistency all Lutron products meet Lutron's stringent color tolerances of $\Delta E \leq 1.0$, CIE $L^*a^*b^*$ color space units

VOLTAGE COMPENSATION

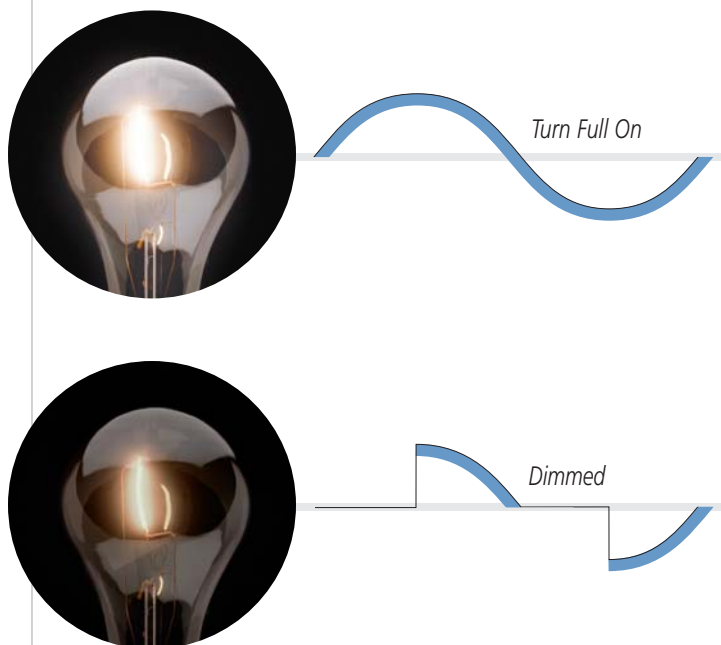
Reduces light fluctuations that can accompany line-voltage variation

Solid State Dimming

Semiconductor device (triac) turns the lights on and off 120 times per second saving electricity and extending bulb life while providing a steady illumination

THE BENEFITS:

- Save energy as you dim, reduce your utility costs
- Extend lamp life by running the lamps cooler so that the tungsten filament evaporates more slowly; reduce the number of lamps you buy, install and discard



RECOMMENDED SPECIFICATIONS:

Controls shall be solid state, UL listed specifically for each required load.

Voltage Compensation

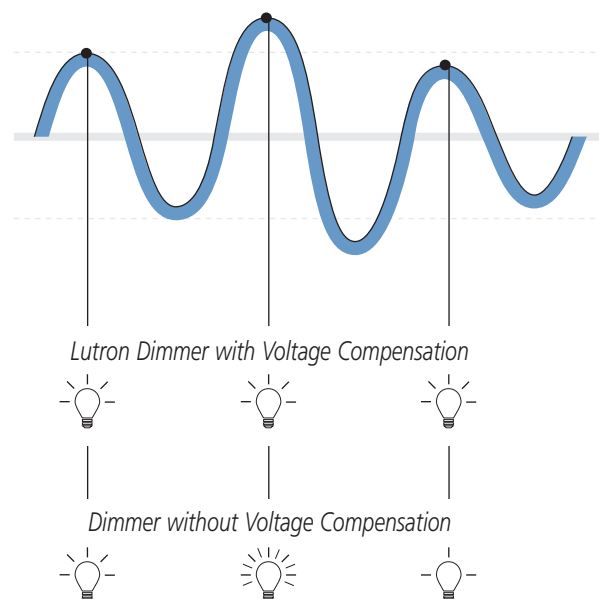
Special circuitry that maintains the power delivered to the lamp in the event of line-voltage variations



THE BENEFITS:

- Flicker free dimming through voltage variations caused by elevators, chiller pumps, building load changes or power grid fluctuations

*Notches and Low Frequency Noise:
100–5kHz caused by elevators and large industrial loads*



RECOMMENDED SPECIFICATIONS:

Dimmer shall include voltage compensation to stabilize light output from variations in the AC line-voltage. Dimmers in which the light output is not held constant with varying AC line-voltage shall not be acceptable.

Lightning Strike Surge Protection

Special circuitry protects the electronics from surges

THE BENEFITS:

- Protect your dimmer from power surges during a storm or from within the building



RECOMMENDED SPECIFICATIONS:

Controls shall meet ANSI/IEEE Std. C62.41-1980, tested to withstand voltage surges of up to 6000V and current surges of up to 200A without damage.

Electrostatic Discharge Protection

Designed to withstand the static discharges (static shocks) common in a dry climate

For example when you walk across the room in the winter and touch a door knob, another person, or the dimmer.

THE BENEFITS:

- Protect your dimmer from static discharge



RECOMMENDED SPECIFICATIONS:

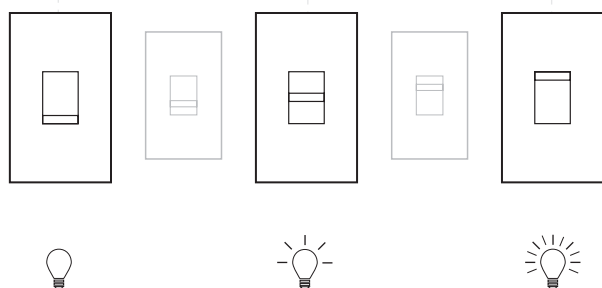
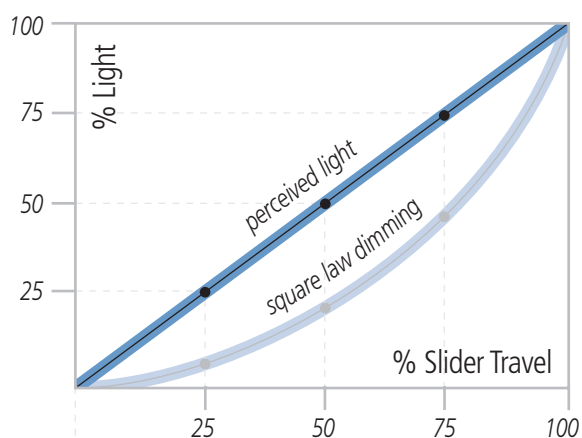
Controls shall not be susceptible to damage or loss of memory due to 16KVolt static discharges.

Square Law Dimming

Dimmer output follows the square law power curve

THE BENEFITS:

- Slider position matches the perceived light level
- No “dead spots” at top or bottom of the slider travel



RECOMMENDED SPECIFICATIONS:

Dimmer slider position shall indicate perceived light level, using the square law power curve in the IESNA Lighting Handbook, 9th edition.

Smooth and Continuous Dimming

Smooth and continuous lighting control across the dimming range

THE BENEFITS:

- Flicker-free continuous lighting control



RECOMMENDED SPECIFICATIONS:

Dimmers shall provide smooth and continuously variable control of light intensity.

Air-Gap Switch

Visible and front accessible mechanism activates a positive air-gap switch to completely disconnect power from the load for service

THE BENEFITS:

- Creates a safe condition for changing lamps with no leakage current to the fixture



RECOMMENDED SPECIFICATIONS:

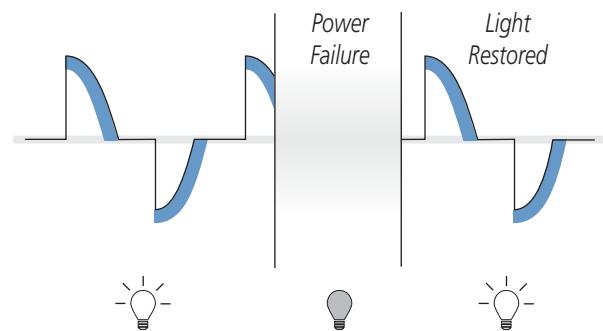
Control shall have a visible, obvious and accessible mechanical air-gap switch to totally disconnect power from the load so that no leakage current shall be present at the fixture(s).

Power-Failure Memory

Lights always return to the previous state when power is restored

THE BENEFITS:

- Minimizes the inconvenience of power service interruptions
- Keeps building lights as you left them when you go away



RECOMMENDED SPECIFICATIONS:

Controls shall incorporate power-failure memory. Should power be interrupted and subsequently returned, the lights will come back on to the same levels set prior to the power interruption. Restoration to some other default level is not acceptable.

Performance Specifications

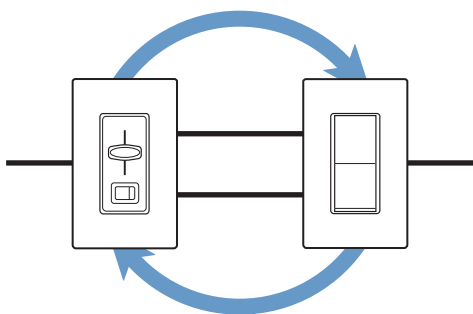
For complete
CSI specifications:
www.lutron.com/bpspecs

Load-Side or Line-Side

Wire the dimmer into either 3-way switch location

THE BENEFITS:

- Select dimmer location independent of the wiring
- Swap dimmer/switch location at any time
- Simple to retrofit a switch with a dimmer



RECOMMENDED SPECIFICATIONS:

Dimmer shall be capable of operating in either 3-way switch location.

Total Fluorescent System Solutions

Controls and ballasts from one manufacturer ensure system compatibility, performance, and support

THE BENEFITS:

- Ensures fluorescent dimming performance since dimmer and ballasts are designed to work together
- Provide single source performance responsibility and technical support



RECOMMENDED SPECIFICATIONS:

Dimmers and ballasts shall be produced by the same manufacturer to ensure proper ballast/control compatibility.

Performance Specifications

For complete
CSI specifications:
www.lutron.com/bpspecs

Precise Color Consistency

Color variations are monitored to ensure that all visible plastic parts have a consistent color

THE BENEFITS:

- All Lutron dimmers, switches, receptacles, and wallplates match across the whole product family



RECOMMENDED SPECIFICATIONS:

To ensure a precise color match between all plastic parts, color variation of any control shall not exceed a ΔE of 1.0, as defined in ASTM E 308-99.

Screwless Seamless Wallplate

Snap on wallplate for a sleek screwless appearance

THE BENEFITS:

- Clean and stylish appearance
- No visible mounting hardware
- Adapter plate reduces installation time



RECOMMENDED SPECIFICATIONS:

Wallplates shall provide a continuous, seamless cover with no exposed hardware or screws. Multigang wallplates shall include snap-in auto-align adapter plate for proper device alignment.

No Exposed Metal Heat Fins

Completely enclosed heat sink for an aesthetically pleasing appearance

THE BENEFITS:

- Clean and stylish appearance



RECOMMENDED SPECIFICATIONS:

Controls shall be thin profile with no exposed heat sink/yoke.

UV Stable Color

Visible plastic parts do not fade or yellow with prolonged exposure to sunlight



THE BENEFITS:

- Durable plastic maintains quality color throughout the product life
- New devices will match the Lutron devices already installed

RECOMMENDED SPECIFICATIONS:

To ensure colors do not fade or yellow, visible parts of controls or wallplates shall exhibit ultraviolet stability as defined in ASTM D4674-89.

Performance Specifications

For complete
CSI specifications:
www.lutron.com/bpspecs

World Class Quality Process

For over 40 years Lutron has designed, manufactured, and delivered quality lighting control products



RECOMMENDED SPECIFICATIONS:

Manufacturer shall be Lutron Electronics.

All dimming controls shall be 100% function tested at the time of manufacture.

ISO 9001 registration.