RadioRA® 2 Architectural RF GRAFIK T™ Local Controls

RadioRA® 2 architectural RF GRAFIK T™ local controls function much like standard dimmers or switches, but can be operated as part of a lighting control system. GRAFIK T™ controls are useful in locations where single circuits of lighting need to be dimmed or switched.

Features

- Controls include dimmers, switches, and companion devices.
- Simple touch control.
- Distinctive architectural aesthetic.
- Softly lit white LEDs indicate light level and coordinate with any décor.
- Advanced microprocessor dimming technology for control of dimmable LED lamps.¹
- Low-end and high-end trim are available for improved LED dimming performance (dimmer only).
- Optional neutral connection available for superior LED dimming performance (C•L® dimmer only).²
- Phase selectable technology allows forward or reverse phase dimming for compatibility with more load types.
- Installs in single-pole or multi-location applications. Companion devices are available for multi-location control with dimmers and switches (maximum 4 companion devices per dimmer or switch, 1 main control per circuit).
- Use Lutron® GRAFIK T™ wallplates (sold separately). See the Colors and Finishes on page 3 for details.
- Lutron® GRAFIK T™ wallplates snap on with no visible means of attachment.

³ If using LED bulbs, they must be Lutron® compatible! For compatibility and performance information, visit our website at www.lutron.com/led, which is constantly being updated.

² GRAFIK T™ switch and Phase Selectable dimmer requires neutral connection.
# Model Numbers

<table>
<thead>
<tr>
<th></th>
<th>C•L® Dimmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRT-G25LW</td>
<td>Clear Connect® RF Technology&lt;br&gt;250 W Dimmable LED&lt;br&gt;600 W Incandescent/Halogen&lt;br&gt;400 VA (300 W) Magnetic Low-Voltage with Halogen based lamps&lt;br&gt;3.3 A (400 VA) Dimmable Fluorescent&lt;br&gt;3.3 A (400 W) Hi-lume® 1% 2-wire LED driver (10 driver maximum)&lt;br&gt;Neutral connection available&lt;br&gt;Multi-location dimmer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Phase Selectable Dimmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRT-G5NEW</td>
<td>Clear Connect® RF Technology&lt;br&gt;500 W Electronic Low-Voltage&lt;br&gt;250 W Dimmable LED&lt;br&gt;500 W Incandescent/Halogen&lt;br&gt;400 VA (300 W) Magnetic Low-Voltage with Halogen based lamps&lt;br&gt;3.3 A (400 VA) Dimmable Fluorescent&lt;br&gt;3.3 A (400 W) Hi-lume® 1% 2-wire LED driver (10 driver maximum)&lt;br&gt;Neutral connection required&lt;br&gt;Multi-location dimmer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Switches</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRT-G5ANSW³</td>
<td>Clear Connect® RF Technology&lt;br&gt;5 A Incandescent/Halogen/Fluorescent/LED/MLV/ELV/HID/Relay&lt;br&gt;3 A Fan&lt;br&gt;1/10 HP Motor&lt;br&gt;Neutral connection required&lt;br&gt;Multi-location switch</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Companion Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT-GRDW</td>
<td>Companion device (works with dimmer or switch)</td>
</tr>
</tbody>
</table>

For compatibility and performance information, visit our website at www.lutron.com/led, which is constantly being updated.

Includes Mark X®, Tu-Wire®, and POWERSENSE®.

Not for use with receptacles or appliances (e.g., garbage disposals). See Application Note #109 for compatibility with dimmable receptacles.
How to Build a Faceplate Kit Model Number

Ganging with GRAFIK T™ controls.

LWT — GT — WH

Family
LWT = New Architectural Faceplate Kit

Colors and Finishes
See Colors and Finishes for details

Available Combinations

<table>
<thead>
<tr>
<th>1-Gang</th>
<th>2-Gang</th>
<th>3-Gang</th>
<th>4-Gang</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>GG</td>
<td>GGG</td>
<td>GGGG</td>
</tr>
<tr>
<td></td>
<td>GT</td>
<td>GGT</td>
<td>GGGT</td>
</tr>
<tr>
<td>TG</td>
<td>TG</td>
<td>GTT</td>
<td>GTTT</td>
</tr>
<tr>
<td>TGG</td>
<td>TTG</td>
<td>TTGG</td>
<td>TTGG</td>
</tr>
</tbody>
</table>

Gangs and Openings

G = GRAFIK T™ opening 1,3,4
T = New Architectural opening 2

Colors and Finishes

Architectural Matte Finishes
- Almond AL
- Beige BE
- Black BL
- Brown BR
- Gray GR
- Ivory IV
- Light Almond LA
- Sienna SI
- Taupe TP
- White WH

Architectural Glass Finish (faceplate only)
- Clear White Glass CWH
- Clear Black Glass CBL

Architectural Metal Finishes (faceplate only)
- Bright Nickel BN
- Antique Brass QB
- Satin Chrome SC
- Antique Bronze OZ
- Satin Black Steel SK

- Architectural Matte Finishes: AM-CK-1
- Architectural Metal Finishes: AMTL-CK-1

• Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.
• Color chip keychains are available for more precise color matching:
  - Architectural Matte Finishes: AM-CK-1
  - Architectural Metal Finishes: AMTL-CK-1

1. GRAFIK T™ controls will only fit into “G” openings.
2. New Architectural accessories will fit into “T” openings when ganging with GRAFIK T™ controls.
3. GRAFIK T™ controls cannot be ganged with Vierti controls or wallplates.
4. GRAFIK T™ controls cannot be ganged with Palladiom™ controls (“P” openings)
5. “XXX” in the model number represents color/finish code. See Colors and Finishes on page 3 for details.
RadioRA® 2 Architectural RF GRAFIK T™ Local Controls

Specifications

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>Dimmers: RRT-G25LW, RRT-G5NEW</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Switch: RRT-G5ANSW</td>
</tr>
<tr>
<td></td>
<td>Companion Device: RT-GRDW</td>
</tr>
<tr>
<td></td>
<td>Wallplate:</td>
</tr>
<tr>
<td></td>
<td>LWT-G-XXX¹, LWT-GG-XXX¹, LWT-GGG-XXX¹</td>
</tr>
<tr>
<td></td>
<td>LWT-GT-XXX¹, LWT-GGT-XXX¹, LWT-GGGT-XXX¹</td>
</tr>
<tr>
<td></td>
<td>LWT-GTT-XXX¹, LWT-GGTT-XXX¹, LWT-TGG-XXX¹, LWT-GTTT-XXX¹</td>
</tr>
<tr>
<td></td>
<td>LWT-TTG-XXX¹, LWT-TGGG-XXX¹, LWT-TTTG-XXX¹</td>
</tr>
<tr>
<td></td>
<td>LWT-TTGG-XXX¹</td>
</tr>
<tr>
<td>Power</td>
<td>120 V ~ 50 / 60 Hz</td>
</tr>
<tr>
<td>Typical Power</td>
<td>Dimmer / Switch: 0.20 W</td>
</tr>
<tr>
<td>Consumption</td>
<td>Companion Device: 0.10 W</td>
</tr>
<tr>
<td></td>
<td>Test conditions: load is off</td>
</tr>
<tr>
<td>Regulatory</td>
<td>UL®, cUL®, NOM, FCC, IC, IFTEL</td>
</tr>
<tr>
<td>Approvals</td>
<td></td>
</tr>
<tr>
<td>Environment</td>
<td>Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing. Indoor use only.</td>
</tr>
<tr>
<td>Communications</td>
<td>Dimmers / Switches communicate with the RadioRA® 2 system through Radio Frequency (RF) and must be located within 30 ft (9 m) of a repeater. Companion devices are not required to be within a specific range of a repeater.</td>
</tr>
<tr>
<td>ESD Protection</td>
<td>Tested to withstand electrostatic discharge without damage or memory loss.</td>
</tr>
<tr>
<td>Surge Protection</td>
<td>Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits.</td>
</tr>
<tr>
<td>Power Failure</td>
<td>Power failure memory: should power be interrupted, the control will return to its previous state when power is restored.</td>
</tr>
<tr>
<td>Mounting</td>
<td>Requires a U.S. wallbox. 3½ in (89 mm) deep recommended, 2¼ in (57 mm) deep minimum.</td>
</tr>
<tr>
<td>Wiring</td>
<td>Uses conventional 3-way and 4-way wiring. Total multi-location wire length (blue wire) between all units must not exceed 150 ft (45 m).</td>
</tr>
</tbody>
</table>

¹ “XXX” in the model number represents color/finish code. See the Colors and Finishes on page 3 for details.
RadioRA® 2 Architectural RF GRAFIK T™ Local Controls

Operation

Adjust
• Touch to set lights to desired level (dimmer only)
• Slide to adjust light level (dimmer only)
• Touch anywhere to toggle load On / Off (switch only)

Toggle
• Touch to turn off or to turn on to previous light level
• When On, press and hold to engage the delayed long fade to Off (dimmer only)
• Toggle button is white when On, orange when Off

FASS™
Front Accessible Service Switch

Note: The FASS™ is not available on companion devices.

IMPORTANT NOTICE:
FASS™ - Front Accessible Service Switch
To replace bulb(s), remove power by pulling the FASS™ down fully on all main controlling devices. After replacing bulb(s), push the FASS™ back up fully to restore power to the control(s).
Advanced Programming Mode

NOTE: All advanced programming from a local device is disabled once it is addressed in a RadioRA® 2 or HomeWorks® QS system. All advanced features are available from the GUI.

All Dimmers, Switches, and Accessories

GRAFIK T™ dimmers and switches contain an Advanced Programming Mode (APM) that allows users to customize the control to meet their specific needs. For a detailed description of APM features and uses please refer to Lutron® Application Note #534.

Available advanced features include:

- **High-end Trim**: Adjust the maximum light level of the load.
- **Low-end Trim**: Adjust the minimum light level of the load.
- **LED Brightness**: Select between high and low brightness of the control LED.
- **Sound On/Off**: Enable or disable audible clicking feedback.
- **Delayed Fade-to-Off**: Adjust the waiting period upon fade-to-off.
- **Toggle Fade Rate Adjust**: Adjust the fade rate upon toggling.
- **Protected Preset Adjust**: Select between locked and unlocked presets.

Phase Selectable Dimmers Only

GRAFIK T™ Phase Selectable dimmers contain an extra menu to allow for the selection of FORWARD and REVERSE dimming phase. The Phase Selectable dimmer default powers up in reverse dimming phase.

Instructions for selecting phase:

1. Pull the FASS™ down to remove power from the dimmer.
2. Press and hold the top (high-end) of the light bar.
3. Push the FASS™ back up fully to reapply power.
4. Hold the top (high-end) of the light bar for 6 seconds until the device beeps, then release.
5. Once in “Phase Selection Mode”, two lit LEDs show current setting:
   a. Top LED flashing indicates FORWARD-PHASE had been selected.
   b. Bottom LED flashing indicates REVERSE-PHASE has been selected.
6. Press the top or bottom LED to change the dimming phase.
7. Press and hold the toggle button for 6 seconds to exit “Phase Selection Mode”.

FORWARD Phase

REVERSE Phase

Toggle Button
RadioRA® 2 Architectural RF GRAFIK T™ Local Controls

Dimensions

All dimensions are shown as in (mm)

Front View

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>4.69</td>
<td>(119)</td>
</tr>
<tr>
<td>Width</td>
<td>2.83</td>
<td>(72 )</td>
</tr>
<tr>
<td>Depth</td>
<td>0.17</td>
<td>(4 )</td>
</tr>
</tbody>
</table>

Side View

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>0.42</td>
<td>(11)</td>
</tr>
<tr>
<td>Width</td>
<td>1.33</td>
<td>(34)</td>
</tr>
</tbody>
</table>

Mounting and Parts Identification

Wallbox

Control

Control Mounting Screws

Wallplate Adapter

Adapter Mounting Screws

Wallplate

Wallplate adapter and wallplate purchased separately.
# Ganging and Derating

When combining controls in the same wallbox, derating is required. See **Load Type and Capacity**. No derating is required for companion devices.

## Load Type and Capacity

<table>
<thead>
<tr>
<th>Control</th>
<th>Load Type</th>
<th>Not Ganged</th>
<th>End of Gang</th>
<th>Middle of Gang</th>
<th>Neutral Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRT-G25LW&lt;sup&gt;1,2&lt;/sup&gt;</td>
<td>LED</td>
<td>250 W</td>
<td>250 W</td>
<td>250 W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MLV Halogen&lt;sup&gt;3,4,5&lt;/sup&gt;</td>
<td>400 VA (300 W)</td>
<td>400 VA (300 W)</td>
<td>400 VA (300 W)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Incandescent / Halogen</td>
<td>600 W</td>
<td>500 W</td>
<td>400 W</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Lutron® Hi-lume® 1% 2-wire LED driver&lt;sup&gt;8&lt;/sup&gt;</td>
<td>3.3 A (400 W), 10 drivers max</td>
<td>3.3 A (400 W), 10 drivers max</td>
<td>3.3 A (400 W), 10 drivers max</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dimmable Fluorescent&lt;sup&gt;6&lt;/sup&gt;</td>
<td>3.3 A (400 VA)</td>
<td>3.3 A (400 VA)</td>
<td>3.3 A (400 VA)</td>
<td>Required</td>
</tr>
<tr>
<td>RRT-G5NEW&lt;sup&gt;1,2&lt;/sup&gt;</td>
<td>LED</td>
<td>250 W</td>
<td>250 W</td>
<td>250 W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MLV Halogen&lt;sup&gt;3,4,5&lt;/sup&gt;</td>
<td>400 VA (300 W)</td>
<td>400 VA (300 W)</td>
<td>400 VA (300 W)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Incandescent / Halogen / ELV&lt;sup&gt;4&lt;/sup&gt;</td>
<td>500 W</td>
<td>400 W</td>
<td>300 W</td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>Lutron® Hi-lume® 1% 2-wire LED driver&lt;sup&gt;8&lt;/sup&gt;</td>
<td>3.3 A (400 W), 10 drivers max</td>
<td>3.3 A (400 W), 10 drivers max</td>
<td>3.3 A (400 W), 10 drivers max</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dimmable Fluorescent&lt;sup&gt;6&lt;/sup&gt;</td>
<td>3.3 A (400 VA)</td>
<td>3.3 A (400 VA)</td>
<td>3.3 A (400 VA)</td>
<td></td>
</tr>
<tr>
<td>RRT-G5ANSW&lt;sup&gt;2,7&lt;/sup&gt;</td>
<td>Lighting</td>
<td>5 A (600 W)</td>
<td>4.1 A (500 W)</td>
<td>3.3 A (400 W)</td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>Fan</td>
<td>3 A (360 W)</td>
<td>3 A (360 W)</td>
<td>3 A (360 W)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Motor</td>
<td>1/10 HP</td>
<td>1/10 HP</td>
<td>1/10 HP</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mixed</td>
<td>3 A (360 W)</td>
<td>3 A (360 W)</td>
<td>3 A (360 W)</td>
<td></td>
</tr>
</tbody>
</table>

1. Designed for use with permanently installed LED, incandescent, tungsten halogen, or magnetic low voltage transformers with halogen based lamps.
2. Power Boosters/Load Interfaces: can be used to control power boosters/load interfaces. For a list of compatible power boosters/load interfaces see [Compatible Power Boosters and Load Interfaces](#). When using with power boosters/load interfaces, the neutral must be connected.
3. Low-Voltage Applications: Use only with magnetic (core and coil) low-voltage transformers with halogen based lamps. Not recommended for use with electronic (solid-state) low-voltage transformers but UL® listed for dimmable ELV transformers.
4. Operation of a low-voltage circuit with lamps inoperative or removed may result in transformer overheating and premature failure. Lutron strongly recommends the following:
   - Do not operate low-voltage circuits without operative lamps in place.
   - Replace burned-out lamps as soon as possible.
   - Use transformers that incorporate thermal protection or fused transformer primary windings to prevent transformer failure due to overcurrent.
5. When using the dimmer / switch to control MLV halogen fixtures, the maximum lamp wattage is determined by the efficiency of the transformer, with 70%-85% as typical. For actual transformer efficiency, contact either the fixture or transformer manufacturer. The total VA rating of the transformer(s) shall not exceed the VA rating of the dimmer / switch.
6. Includes Mark X®, Tu-Wire®, and POWERSENSE®.
7. Not for use with receptacles or appliances (e.g., garbage disposals). See Application Note #109 for compatibility with dimmed receptacles.
8. Neutral required for Lutron Hi-lume® 1% 2-wire LED driver and fixture.
## Minimum Load

<table>
<thead>
<tr>
<th>Application</th>
<th>Number of Companion Devices</th>
<th>LED&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Incandescent/Halogen</th>
<th>MLV Halogen</th>
<th>ELV&lt;sup&gt;2,3&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Pole</td>
<td>0</td>
<td>1 LED lamp&lt;sup&gt;4&lt;/sup&gt;</td>
<td>2 LED lamps&lt;sup&gt;4&lt;/sup&gt;</td>
<td>5 W</td>
<td>40 W</td>
</tr>
<tr>
<td>Multi-location</td>
<td>1</td>
<td>1 LED lamp&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3 LED lamps&lt;sup&gt;4&lt;/sup&gt;</td>
<td>5 W</td>
<td>80 W</td>
</tr>
<tr>
<td>Multi-location</td>
<td>2</td>
<td>1 LED lamp&lt;sup&gt;4&lt;/sup&gt;</td>
<td>4 LED lamps&lt;sup&gt;4&lt;/sup&gt;</td>
<td>5 W</td>
<td>120 W</td>
</tr>
<tr>
<td>Multi-location</td>
<td>3</td>
<td>1 LED lamp&lt;sup&gt;4&lt;/sup&gt;</td>
<td>5 LED lamps&lt;sup&gt;4&lt;/sup&gt;</td>
<td>5 W</td>
<td>160 W</td>
</tr>
<tr>
<td>Multi-location</td>
<td>4</td>
<td>1 LED lamp&lt;sup&gt;4&lt;/sup&gt;</td>
<td>6 LED lamps&lt;sup&gt;4&lt;/sup&gt;</td>
<td>5 W</td>
<td>200 W</td>
</tr>
</tbody>
</table>

1. Includes Lutron® compatible LED replacement lamps and Hi-lume® 1% 2-wire LED drivers.
2. Must meet transformer minimum load requirements.
3. ELV loads are only compatible with -G5NEW model.
4. If using LED bulbs, they must be Lutron® compatible. For compatibility and performance information, visit our website at www.lutron.com/led, which is constantly being updated.

### Switch

Minimum load for the switch is 5 W, one Lutron® compatible LED replacement lamp, or one Hi-lume® 1% 2-wire LED driver.

### Compatible Power Boosters and Load Interfaces

Some local controls can be used to control power boosters or load interfaces. Up to three power boosters or load interfaces can be used with one control. See table below for a list of controls and compatible power boosters and load interfaces. When controlling power boosters/load interfaces, the neutral must be connected.

<table>
<thead>
<tr>
<th>Control</th>
<th>Phase Adaptive Power Modules (PHPM-PA-120-WH &amp; PHPM-PA-DV-WH)&lt;sup&gt;1&lt;/sup&gt;</th>
<th>3-wire Fluorescent Power Modules (PHPM-3F-120-WH &amp; PHPM-3F-DV-WH)&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Switched Power Module (PHPM-SW-DV-WH)&lt;sup&gt;3&lt;/sup&gt;</th>
<th>0-10 V Interface and Switching Module (GRX-TV)&lt;sup&gt;4&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRT-G25LW</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RRT-G5NEW</td>
<td>✓&lt;sup&gt;5&lt;/sup&gt;</td>
<td>✓&lt;sup&gt;5&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RRT-G5ANSW</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. See Lutron® P/N 369356 for wiring diagrams.
2. See Lutron® P/N 369355 for wiring diagrams.
3. See Lutron® P/N 369357 for wiring diagrams.
4. See Lutron® P/N 369247 for wiring diagrams.
5. When using -G5NEW, dimming phase must be set to forward phase. See Advanced Programming Mode for details.
RadioRA® 2 Architectural RF GRAFIK T™ Local Controls

Wiring Diagrams

Wiring Diagram 1
Single Location Installation without Neutral
RRT-G25LW

Wiring Diagram 2
Single Location Installation with Neutral
RRT-G25LW, RRT-G5NEW, or RRT-G5ANSW

1 When using controls in single location installations, cap the blue wire. Do not connect the blue wire to any other wiring or to ground.

2 When neutral wire connection is unavailable, cap the white wire. Do not connect the white wire to any other wiring or to ground.

Continued on next page...
RadioRA® 2 Architectural RF GRAFIK T™ Local Controls

Wiring Diagrams (continued)

Wiring Diagram 3

Multi-Location Installation without Neutral\textsuperscript{1,2,3} - Dimmer Line Side
RRT-G25LW with RT-GRDW

\begin{center}
\begin{tikzpicture}
\node (dimmer) at (0,0) {Dimmer};
\node (companion) at (2,0) {Companion Device};
\node (companion2) at (4,0) {Companion Device};
\node (load) at (6,0) {Load};
\draw[->] (dimmer) -- node[above] {Red} (companion);
\draw[->] (companion) -- node[above] {Red} (companion2);
\draw[->] (companion2) -- node[above] {Red} (load);
\end{tikzpicture}
\end{center}

When neutral wire connection is unavailable, cap the white wire. Do not connect the white wire to any other wiring or to ground.

Wiring Diagram 4

Multi-Location Installation without Neutral\textsuperscript{1,2,3} - Dimmer Load Side
RRT-G25LW with RT-GRDW

\begin{center}
\begin{tikzpicture}
\node (companion1) at (0,0) {Companion Device};
\node (companion2) at (2,0) {Companion Device};
\node (dimmer) at (4,0) {Dimmer};
\node (load) at (6,0) {Load};
\draw[->] (companion1) -- node[above] {Red} (companion2);
\draw[->] (companion2) -- node[above] {Red} (dimmer);
\draw[->] (dimmer) -- node[above] {Red} (load);
\end{tikzpicture}
\end{center}

1 When neutral wire connection is unavailable, cap the white wire. Do not connect the white wire to any other wiring or to ground.
2 Up to 4 companion devices may be connected to the dimmer. Total blue traveler wire length may be up to 150 ft (45 m).
3 Dimmers may be connected on the Line side or Load side of a multi-location installation if neutral is not connected. The dimmer cannot be installed in the middle location of a 4-way installation.

Continued on next page...
Wiring Diagram 5

Multi-Location Installation with Neutral\(^1\)-\(^2\) - Control Line Side
RRT-G25LW, RRT-G5NEW, or RRT-G5ANSW with RT-GRDW

1 Up to 4 companion devices may be connected to each dimmer or switch. Total blue traveler wire length may be up to 150 ft (45 m).
2 Control must be installed on line side of circuit if using neutral wire.

Wiring Diagram 6

Multi-Location Installation with PHPM - Neutral Required
RRT-G25LW, RRT-G5NEW, or RRT-G5ANSW with RT-GRDW

1 When using -G5NEW, dimming phase must be set to forward phase. See Advanced Programming Mode for details.
RadioRA® 2 Architectural RF GRAFIK T™ Local Controls

Wiring Diagrams (continued)

Wiring Diagram 7
Multi-Location Installation with GRX-TVI - Neutral Required
RRT-G25LW, RRT-G5NEW, or RRT-G5ANSW with RT-GRDW

Wiring Diagram 8
Multi-Location Installation with Hi-lume® 1% 2-wire LED Driver with Neutral
RRT-G25LW, RRT-G5NEW¹, or RRT-G5ANSW with RT-GRDW

¹ When using -G5NEW, dimming phase must be set to forward phase. See Advanced Programming Mode for details.
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Wiring Diagrams (continued)

Wiring Diagram 9
Multi-Location Installation with Hi-lume® 1% 2-wire LED Driver without Neutral - Dimmer Line Side
RRT-G25LW with RT-GRDW

Wiring Diagram 10
Multi-Location Installation with Hi-lume® 1% 2-wire LED Driver without Neutral - Dimmer Load Side
RRT-G25LW with RT-GRDW
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GRAFIK T™ Wallplates

1 “XXX” in the model number represents color/finish code. See the Colors and Finishes on page 3 for details.