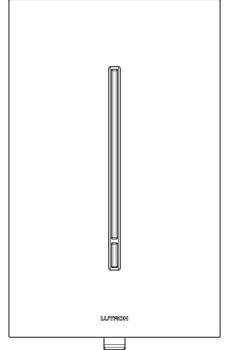
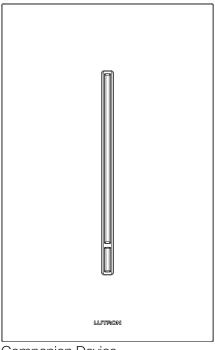
GRAFIK TTM Controls

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.
- Models available with or without Clear Connect_® RF wireless technology.
- Clear Connect_® RF technology (GTJ models only) compatible with:
 - Pico® wireless controls
 - Radio Powr Savr™ Occupancy/Vacancy Sensors
 - Radio Powr Savr™ Daylight Sensors
- 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 on 250 W LED models 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. All controls come with white wallplate. Other colors and finishes are sold separately. See the **Colors and Finishes** on page 3 for details.
- Lutron_☉ GRAFIK T_™ wallplates snap on with no visible means of attachment.



Dimmer/Switch



Companion Device

¹ 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_{\rm TM} switch and Phase Selectable dimmers requires neutral connection.

Image Model Numbers:

Wallbox Controls

369826g 1 10.05.15

369826g 2 10.05.15

Model Numbers

C•L _® Dimmers	
	150 W Dimmable LED ¹
GT-150-WH	600 W Incandescent/Halogen
	2-wire dimmer (no neutral connection) Single-pole dimmer
	250 W Dimmable LED ¹
	600 W Incandescent/Halogen
	400 VA (300 W) Magnetic Low-Voltage with Halogen based lamps
GT-250M-WH	3.3 A (400 VA) Dimmable Fluorescent ² 3.3 A (400 W) Hi-lume _® A-Series LTE LED Driver (10 driver maximum)
	Neutral connection available
	Multi-location dimmer
	Clear Connect₀ RF Technology
GTJ-150-WH	150 W Dimmable LED ¹ 600 W Incandescent/Halogen
	2-wire dimmer (no neutral connection)
	Single-pole dimmer
	Clear Connect₀ RF Technology 250 W Dimmable LED ¹
	600 W Incandescent/Halogen
GTJ-250M-WH	400 VA (300 W) Magnetic Low-Voltage with Halogen based lamps
	3.3 A (400 VA) Dimmable Fluorescent ² 3.3 A (400 W) Hi-lume _® A-Series LTE LED Driver (10 driver maximum)
	Neutral connection available
	Multi-location dimmer
Phase Selectable Dimmers	
	500 W Electronic Low-Voltage
	250 W Dimmable LED ¹ 500 W Incandescent/Halogen
	400 VA (300 W) Magnetic Low-Voltage with Halogen based lamps
GT-5NEM-WH	3.3 A (400 VA) Dimmable Fluorescent ²
	3.3 A (400 W) Hi-lume® A-Series LTE LED Driver (10 driver maximum) Neutral connection required
	Multi-location dimmer
	Clear Connecto RF Technology
	500 W Electronic Low-Voltage 250 W Dimmable LED ¹
	500 W Incandescent/Halogen
GTJ-5NEM-WH	400 VA (300 W) Magnetic Low-Voltage with Halogen based lamps
	3.3 A (400 VA) Dimmable Fluorescent ² 3.3 A (400 W) Hi-lume® A-Series LTE LED Driver (10 driver maximum)
	Neutral connection required
	Multi-location dimmer
Switches	
	5 A Incandescent/Halogen/Fluorescent/LED/MLV/ELV/HID/Relay
GT-5ANSM-WH ³	3 A Fan 1/10 HP Motor
	Neutral connection required
	Multi-location Switch
	Clear Connect₀ RF Technology 5 A Incandescent/Halogen/Fluorescent/LED/MLV/ELV/HID/Relay
GTJ-5ANSM-WH ³	3 A Fan
	1/10 HP Motor
	Neutral connection required Multi-location Switch
Companion Device	
GT-AD-WH	Companion device (works with dimmer or switch)

² Includes Mark X_®, Tu-Wire_®, and POWERSENSE_®.

³ Not for use with receptacles or appliances (e.g., garbage disposals). See Application Note #109 for compatibility with dimmable receptacles.

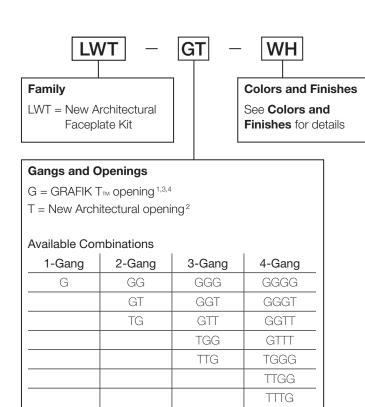
Mark X is a registered trademark of Philips Electronics North America Corporation. POWERSENSE is a registered trademark of OSRAM SYLVANIA Inc.

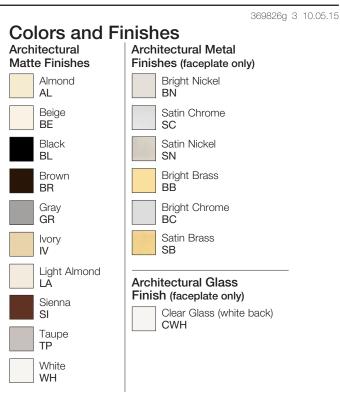
STITEON SPECIFICATION SUBMITTAL

LUTRON . SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

How to Build a Faceplate Kit Model Number

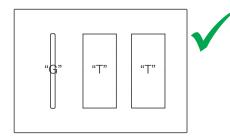
Ganging with GRAFIK T[™] controls.



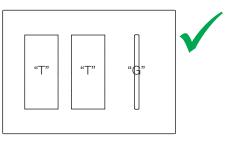


- Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.
- Color chip keychains are available for more precise color matching:
 - Architectural Matte Finishes: AM-CK-1
- Architectural Metal Finishes: AMTL-CK-1

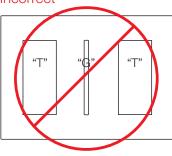
Correct (LWT-GTT-XXX⁵)



Correct (LWT-TTG-XXX⁵)







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 Viertie controls or wallplates.

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 for details.

SPECIFICATION SUBMITTAL

LUTRON . SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

C•L_® Controls

Specifications

Regulatory Approvals

- UL_® Listed •
- cUL_® Listed
- NOM Certified
- FCC/IC
- IFTEL

Power

120 V∼ 50/60 Hz

Typical Power Consumption

- Dimmer/Switch: 0.2 W (GTJ models), 0.1 W (GT models)
- Companion device: 0.1 W
- Test conditions: load is off

Environment

- Ambient Temperature Operating Range: 32 °F to 104 °F (0 °C to 40 °C)
- Relative humidity: 0% to 90% non-condensing
- For indoor use only.

Performance

- Power failure memory: should power be interrupted, the control will return to its previous state when power is restored.
- 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.
- Tested to withstand electrostatic discharge without damage or memory loss.
- Dimmers/Switches communicate with Pico® wireless controls or Radio Powr Savr™ sensors through Radio Frequency (RF) and must be located within 30 ft (9 m) of these devices (GTJ models only). Companion devices do not have Clear Connect_® RF technology and are not required to be within a specific range of these devices.
- 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).

Application Requirements

- When using LEDs, only Lutron_® approved lamps marked or rated as Dimmable can be used.
- 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.
- For a complete list of approved DIMMABLE LEDs please visit www.lutron.com/led or call 1.800.523.9466.
- Up to 10 sensors or Pico_® wireless controls can be assigned to each dimmer or switch (GTJ models only).
- Sensors can be assigned to multiple dimmers or switches (GTJ models only).

Mounting

• Requires a U.S. wallbox. 3¹/₂ in (89 mm) deep recommended, 21/4 in (57 mm) deep minimum.

Warrantv

1 Year Limited Warranty For additional Warranty information, please visit www.lutron.com/TechnicalDocumentLibrary/ 369-119 Wallbox Warranty.pdf

SPECIFICATION SUBMITTAL

LUTRON . SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

Operation	369826g 5 10.05.18
	 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) 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 lamp(s), remove power by pulling the FASS™ down fully on all main controlling devices. After replacing lamp(s), push the FASS™ back up fully to restore power to the control(s).

C•L_® Controls

Wallbox Controls

369826g 5 10.05.15

LUTRON. SPECIFICATION SUBMITTAL

LUTRON . SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

Advanced Programming Mode

All Dimmers, Switches, and Accessories

GRAFIK T[™] dimmers and switches contain and 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:

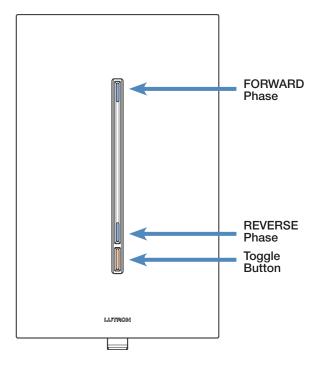
- High-end Trim: Adjust the maximum light level of the load.
- Low-end Trim: Adjust the minimum light level of the load.
- LED Brightness: Select between high and low brightness of the control LED.
- Sound On/Off: Enable or disable audible clicking feedback.
- Delayed Fade-to-Off: Adjust the waiting 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 selection of FORWARD and REVERSE dimming phase. The Phase Selectable dimmer default power is in reverse dimming phase.

Instructions for selecting phase:

- 1. Pull FASS™ open to remove power from dimmer.
- 2. Press and hold high-end of lightbar.
- 3. Close FASS™ to reapply power.
- 4. Hold high-end of lightbar for 6 seconds until device beeps, then release.
- 5. Once in phase selection menu, two lit LEDs show current setting:a. Top LED flashing indicates FORWARD PHASE selected.b. Bottom LED flashing indicates REVERSE PHASE selected.
- 6. Press top or bottom LED to change dimming phase.
- 7. Press and hold toggle button for 6 seconds to exit Phase Selection menu.



LUTRON. SPECIFICATION SUBMITTAL

Page

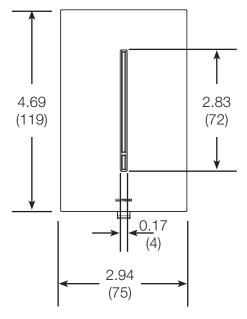
Job Name:	Model Numbers:		
Job Number:			
Jeb Number.			

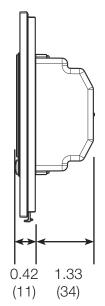
369826g 7 10.05.15

Dimensions

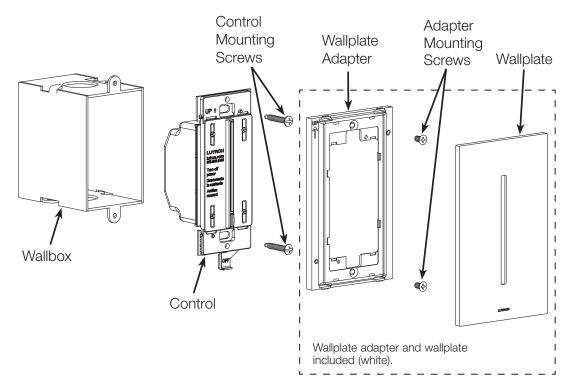
All dimensions are shown as $\mathop{\text{in}}\limits_{(\text{mm})}$

Front View





Mounting and Parts Identification



LUTRON. SPECIFICATION SUBMITTAL

Page Job Name: Model Numbers: Job Number:

Side View

Page

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

Control	Load Type	Not Ganged	End of Gang	Middle of Gang	Neutral Connection
GT-150-WH1	LED	150 W	150 W	150 W	
GTJ-150-WH ¹	Incandescent/ Halogen	600 W	500 W	400 W	No
	LED	250 W	250 W	250 W	
	Incandescent/ Halogen	600 W	500 W	400 W	
GT-250M-WH ^{2,3}	MLV Halogen ^{4,5,6}	400 VA (300 W)	400 VA (300 W)	400 VA (300 W)	Optional
GTJ-250M-WH ^{2,3}	Lutron₀ Hi-lume₀ A-Series LTE LED Driver ⁹	3.3 A (400 W), 10 drivers max	3.3 A (400 W), 10 drivers max	3.3 A (400 W), 10 drivers max	
	Dimmable Fluorescent ⁷	3.3 A (400 VA)	3.3 A (400 VA)	3.3 A (400 VA)	0 VA) Required
	LED	250 W	250 W	250 W	
	Incandescent/ Halogen/ELV ⁵	500 W	400 W	300 W	
GT-5NEM-WH ^{2,3}	MLV Halogen ^{4,5,6}	400 VA (300 W)	400 VA (300 W)	400 VA (300 W)	
GTJ-5NEM-WH ^{2,3}	Lutron₀ Hi-lume₀ A-Series LTE LED Driver ⁹	3.3 A (400 W), 10 drivers max	3.3 A (400 W), 10 drivers max	3.3 A (400 W), 10 drivers max	Required
	Dimmable Fluorescent ⁷	3.3 A (400 VA)	3.3 A (400 VA)	3.3 A (400 VA)	
	Lighting	5 A (600 W)	4.1 A (500 W)	3.3 A (400 W)	
GT-5ANSM-WH ^{3,8}	Fan	3 A (360 W)	3 A (360 W)	3 A (360 W)	Dequired
GTJ-5ANSM-WH ^{3,8}	Motor	1/10 HP	1/10 HP	1/10 HP	Required
	Mixed	3 A (360 W)	3 A (360 W)	3 A (360 W)	

¹ Designed for use with permanently installed LED, incandescent, or tungsten halogen only.

² Designed for use with permanently installed LED, incandescent, tungsten halogen, or magnetic low voltage transformers with halogen based lamps.

³ 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.

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 UL₀ listed for dimmable ELV transformers.

⁵ 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.

⁶ 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.

⁷ Includes Mark X_®, Tu-Wire_®, and POWERSENSE_®.

⁸ Not for use with receptacles or appliances (e.g., garbage disposals). See Application Note #109 for compatibility with dimmed receptacles.

⁹ Neutral required for Lutron® Hi-lume® A-Series LTE LED Driver and fixture.

Mark X is a registered trademark of Philips Electronics North America Corporation. POWERSENSE is a registered trademark of OSRAM SYLVANIA Inc.

LUTRON. SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:	
Job Number:		

369826g 9 10.05.15

Minimum Load

Dimmer	Imer LED ¹		LED ¹		idescent/ alogen	MLV	Halogen	ELV ^{2,3}
Application	Number of Companion Devices	With Neutral Connected	With Neutral Disconnected	With Neutral Connected	With Neutral Disconnected	With Neutral Connected	With Neutral Disconnected	With Neutral Connected
Single Pole	0	1 LED lamp ⁴	2 LED lamps ⁴	5 W	40 W	40 W	40 W	40 W
Multi-location	1	1 LED lamp ⁴	3 LED lamps ⁴	5 W	80 W	40 W	80 W	40 W
Multi-location	2	1 LED lamp ⁴	4 LED lamps ⁴	5 W	120 W	40 W	120 W	40 W
Multi-location	3	1 LED lamp ⁴	5 LED lamps ⁴	5 W	160 W	40 W	160 W	40 W
Multi-location	4	1 LED lamp ⁴	6 LED lamps ⁴	5 W	200 W	40 W	200 W	40 W

1 Includes Lutron® compatible LED replacement lamps and A-Series LED drivers.

2 Must meet transformer minimum load requirements.

3 ELV loads are only compatible with -G5NEW model

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 A-Series I FD 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.

Control	Phase Adaptive Power Modules (PHPM-PA-120-WH & PHPM-PA-DV-WH) ¹	3-wire Fluorescent Power Modules (PHPM-3F-120-WH & PHPM-3F-DV-WH) ²	Switched Power Module (PHPM-SW-DV-WH) ³	0-10 V Interface and Switching Module (GRX-TVI) ⁴
GT-250M GTJ-250M	~	\checkmark		\checkmark
GT-5NEM GTJ-5NEM	√ 5	√ 5		√ ⁵
GT-5ANSM GTJ-5ANSM			\checkmark	

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.

See Lutron_® P/N 369247 for wiring diagrams. 4

⁵ When using -G5NEW, dimming phase must be set to forward phase. See Advanced Programming Mode for details.

SPECIFICATION SUBMITTAL

LUTRON. SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

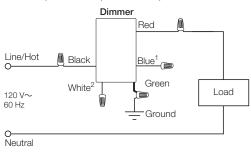
Page

Wiring Diagrams

369826g 10 10.05.15

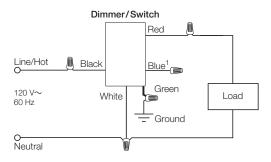
Wiring Diagram 1

Single Location Installation without Neutral^{1,2} GT-150, GTJ-150, GT-250M, or GTJ-250M only



Wiring Diagram 2

Single Location Installation with Neutral¹ GT-250M, GTJ-250M, GT-5NEM, GTJ-5NEM, GT-5ANSM, ORGTJ-5ANSM,



¹ When using controls in single location installations, cap off the blue wire. **Do not** connect the blue wire to any other wiring or to ground (-5ANSM,-5NEM, and -250M models only). ² When neutral wire connection is unavailable, cap off the white wire. **Do not** connect the white wire to any other wiring or to ground (-250M models only).

Continued on next page ...

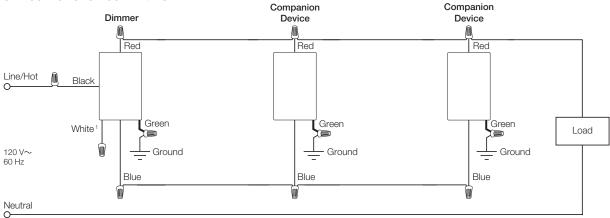
LUTRON, SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:	
Job Number:		

Wiring Diagrams (continued)

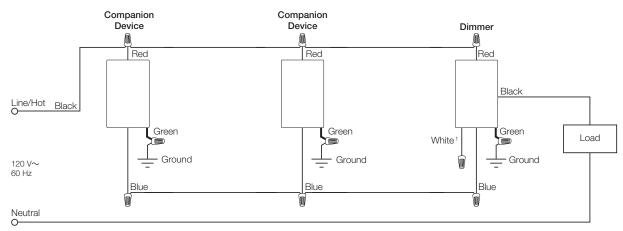
Wiring Diagram 3

Multi-Location Installation without Neutral^{1,2,3} - Dimmer Line Side GT-250M or GTJ-250M with GT-AD



Wiring Diagram 4

Multi-Location Installation without Neutral^{1,2,3} - Dimmer Load Side GT-250M or GTJ-250M with GT-AD



¹ When neutral wire connection is unavailable, cap off 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 each 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 ...

SELUTRON SPECIFICATION SUBMITTAL

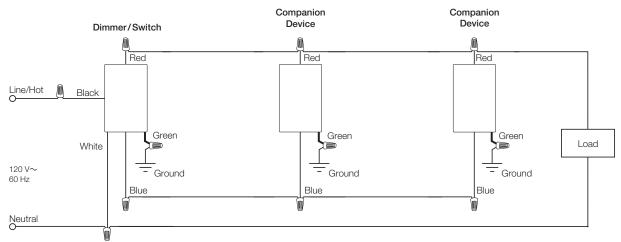
LUTRON . SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

Page

Wiring Diagrams (continued)

Wiring Diagram 5

Multi-Location Installation with Neutral^{1,2} - Control Line Side GT-250M, GTJ-250M, GT-5NEM, GTJ-5NEM, GT-5ANSM, or GTJ-5ANSM, with GT-AD



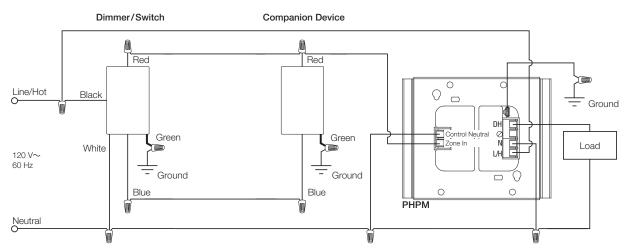
¹ Up to 4 companion devices may be connected to each dimmer or switch. Total blue traveler wire length may be up to 150 ft (45 m).

² Control must be installed on line side of circuit if using neutral wire.

Wiring Diagram 6

Multi-Location Installation with PHPM - Neutral Required

GT-250M, GTJ-250M, GT-5NEM¹, GTJ-5NEM¹, GT-5ANSM, or GTJ-5ANSM, with GT-AD



¹ When using -5NEM, dimming phase must be set to forward phase. See **Advanced Programming Mode** for details.

LUTRON, SPECIFICATION SUBMITTAL

		i age
Job Name:	Model Numbers:	
Job Number:		
	1	

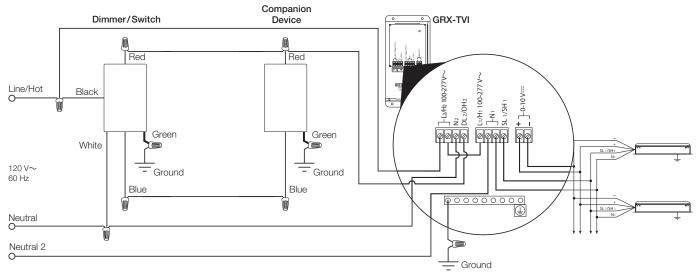
C•L_® Controls

Wiring Diagrams (continued)

Wiring Diagram 7

Multi-Location Installation with GRX-TVI - Neutral Required

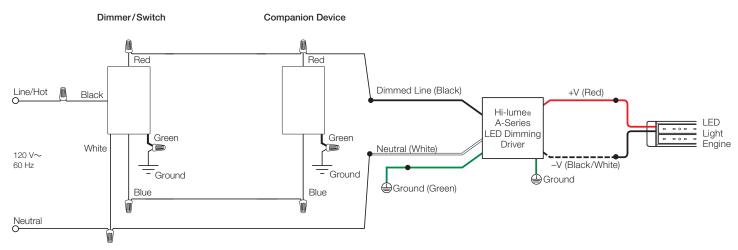
GT-250M, GTJ-250M, GT-5NEM, GTJ-5NEM, GT-5ANSM, or GTJ-5ANSM, with GT-AD



Wiring Diagram 8

Multi-Location Installation with LTE Driver with Neutral

GT-250M, GTJ-250M, GT-5NEM¹, GTJ-5NEM¹, GT-5ANSM, or GTJ-5ANSM, with GT-AD



¹ When using -5NEM, dimming phase must be set to forward phase. See **Advanced Programming Mode** for details.

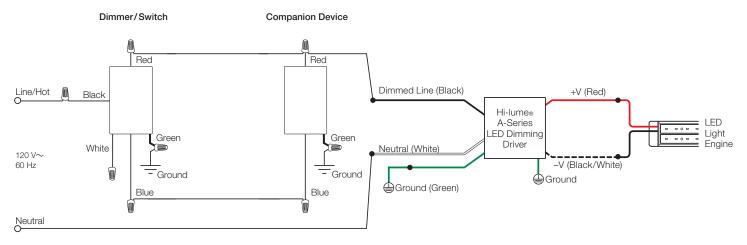
UTRON SPECIFICATION SUBMITTAL

LUTRON . SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

369826g 14 10.05.15

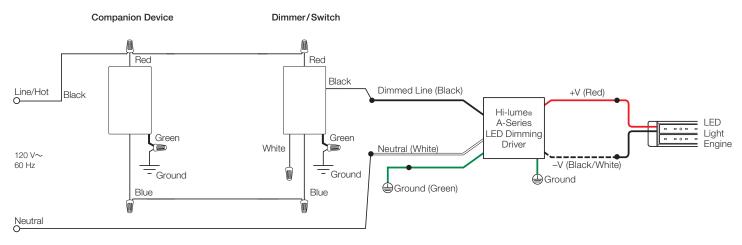
Wiring Diagram 9

Multi-Location Installation with LTE Driver without Neutral - Dimmer Line Side GT-250M or GTJ-250M with GT-AD



Wiring Diagram 10

Multi-Location Installation with LTE Driver without Neutral - Dimmer Load Side GT-250M or GTJ-250M with GT-AD



②**LUTRON**。SPECIFICATION SUBMITTAL

Page Job Name: Model Numbers: Job Number:

369826g 15 10.05.15 **GRAFIK TTM Wallplates** LWT-G-XXX¹ LWT-GG-XXX¹ LWT-GGG-XXX¹ LWT-GGGG-XXX¹ (1 Gang) (2 Gang) (3 Gang) (4 Gang) LWT-GT-XXX¹ LWT-GGT-XXX¹ LWT-GGGT-XXX¹ (2 Gang) (3 Gang) (4 Gang) LWT-TG-XXX1 LWT-TGG-XXX¹ LWT-TGGG-XXX¹ (2 Gang) (4 Gang) (3 Gang) LWT-GTT-XXX¹ LWT-GTTT-XXX¹ (3 Gang) (4 Gang) LWT-TTG-XXX¹ LWT-TTTG-XXX¹ (3 Gang) (4 Gang) 1 "XXX" in the model number represents color/finish code. See the **Colors and Finishes** on page 3 for details. LWT-TTGG-XXX¹ LWT-GGTT-XXX¹ (4 Gang) (4 Gang)

LUTRON. SPECIFICATION SUBMITTAL

Page

		0
Job Name:	Model Numbers:	
Joh Number		
Job Number:		