ELIUM™

PRECISION ILLUMINATED®

Project Name:

Fixture Type:

Date:

4″ ELIUM™ Gear Adjustable Canless Downlights

IC Rated, up to 950 lumens. 120-277V, Triac, ELV, 0-10V, DALI-2, Lutron, eldoLed. New Construction & Remodel. Round, Square, Flanged and Flangeless.

4″ ELIUM TRIMS

Round Bevel

Round Pinhole

Round Wall Wash

Square Bevel

Square Pinhole

Square Wall Wash

Flangeless Round Bevel

Flangeless Round Pinhole

Flangeless Round Wall Wash

Flangeless Square Bevel

Flangeless Square Pinhole

Flangeless Square Wall Wash

FEATURES

- 3 Part System: Frame, Module, & Trim
- UL Listed for direct contact with insulation
- Title 24 JA8-2025-E
- Shallow height requires less than 4″ ceiling depth
- Lockable gear adjustment up to 40° center axis tilt and 359° rotation, adjusted with 3/32″ Allen Key from below the ceiling
- Patented LED Module with in field changeable optics
- Standard Dimming to 1% with 0-10V, Triac and ELV dimmers. Optional 0.1% dimming
- Compatible with ceilings up to 2″ thick (2″ thick ceilings may limit tilt)
- Flanged and flangeless options
- Precision single piece die-cast trims
- 50,000 hours lifespan L70
- Compatible with sloped ceilings from 2/12 - 8/12

SPECIFICATIONS

WATTAGE:	10.5W
LUMENS:	950 lm
VOLTAGE:	120-277V
COLOR TEMP:	2700K, 3000K, 3500K, 4000K, Sunset Dim to Warm, Human Centric Dim to Warm
DIMMABLE:	0-10V, Triac, ELV (1%), 0-10V (0.1%), DALI-2 (0.1%), 120V, Triac/ELV (5%)
BEAM ANGLE:	15°, 24°, 36°, 50°
UL LISTED:	Damp & Wet location options
CRI:	95+

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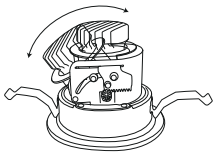
4″ ELIUM™ 3-PART SYSTEM: FRAME, MODULE & TRIM

Clear and Solite
Lens Options

Flangeless **Millwork Options**



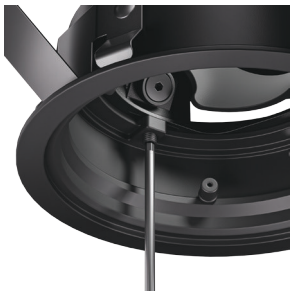
0°–35° adjustability
359° rotation

LOCKABLE HOT AIMING GEAR ADJUSTMENT FROM BELOW

Adjustability

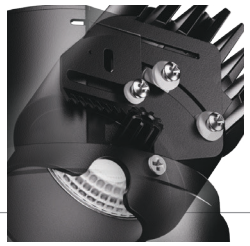
Hot Aiming from below the ceiling using a 3⁄32″ Allen Key

Rotation Lock



359° Lockable Rotation with 3⁄32″ Allen Key*

Lockable Gear Adjustment



Easy access for quick and effortless adjustments from below the ceiling

* 3⁄32″ Allen Key **(LU332ALLEN)** ordered separately

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1. Specify frame part number — FRAME

Example: LUAE45RDX09

ELIUM	SIZE	STYLE	DRIVER	LUMENS	IC	OPTIONAL EM
LUAE						
LUAE	**45** 4″	**RD** Round (New Construction)	**X** 120-277V, 0-10V, Triac/ELV (1%)	**09** 950 lm (10.5W)	**IC** IC Rated	**(Blank)** No EM
		SQ Square (New Construction)	**ED**[1] eldoLed, 0-10V (0.1%)			**E5** 25W EM, 90 min
	REM	Remodel/Retrofit	**AL**[1] eldoLed, DALI-2 (0.1%)			
			TE 120V, Triac/ELV (5%)			

[1] Special order, extended lead time of 2-10 weeks may apply.

2. Specify module part number — MODULE

Example: LUAE2130D-S

ELIUM	TYPE	COLOR TEMPERATURE	BEAM
LUAE			
LUAE	**21** CREE Chip, CRI 95+	**27D** 2700K	**-S** 15°[3]
		30D 3000K	**-N** 24°
		35D 3500K	**-F** 36°
		40D 4000K	**-W** 50°
	19 Bridgelux Chip, Dim to Warm, 3000K to 1800K	**SD** Sunset Dim to Warm[1]	**-XX** 36° installed, with 15°, 24° & 50° lenses included
	19 LTF Chip, Dim to Warm, 4000K to 2200K	**HC** Human Centric Dim to Warm[2]	

[1] Automatically dims from 3000K to 1800K
[2] Automatically dims from 4000K to 2200K
[3] Not for SD option

SECONDARY MODULE OPTICS*

L45	L57	L51	L49	L47
Black Louver	White Louver	CCT Reducer	Frosted Lens	Solite Lens

*Module Fits up to 4 secondary optics

3. Specify trim part number — TRIM

Example: LU45RD10T72W

ELIUM	SIZE	SHAPE	STYLE	TRIM	LENS	FINISH
LU						
LU	**45** 4″	**RD** Round	**10** Bevel	**T** Flanged[2]	**(Blank)** Open, No Lens[5,7]	**W** All White[9]
		SQ Square	**27** Pinhole	**LS** Flangeless[3,4]	**72** Clear Lens[6,7]	**BB** All Black
			33 Wall Wash[1]		**83** Solite Lens[6,7]	**BZ** All Bronze
					94 Linear Lens[6,8]	**CC** Custom Color
						HH All Haze
						HW Haze with White Flange[10]

[1] Requires Linear Lens (94 lens option)
[2] For ceiling thickness up to 2″
[3] Works with all ceiling thicknesses (2″+ thick ceilings may limit adjustment). Millwork adapter adjusts 7/16″ - 7/8″ for wood ceiling layer
[4] Requires Spackle Frame or Millwork Adapter ordered separately
[5] Damp Location
[6] Wet Location
[7] Not available for Wall Wash Trim
[8] For Wall Wash trim only
[9] White trims are field paintable
[10] For Flanged Bevel and Wall Wash only

ACCESSORIES

SPACKLE FRAME FOR FLANGELESS	MILLWORK ADAPTER FOR FLANGELESS	ALLEN KEY
Round: **LU45RDSF** Square: **LU45SQSF**	Round: **LU45RDWC** Square: **LU45SQWC**	**LU332ALLEN**

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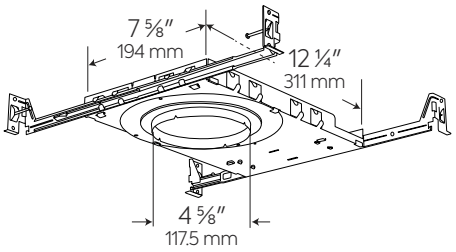
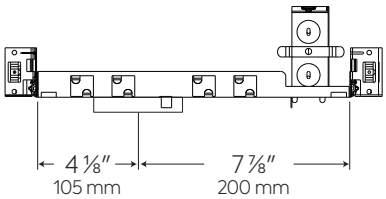
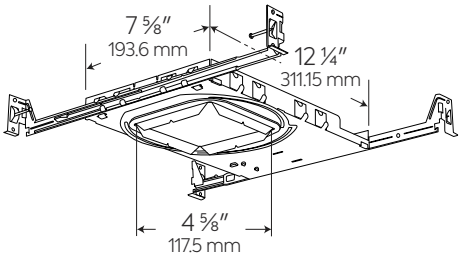
PRODUCTS

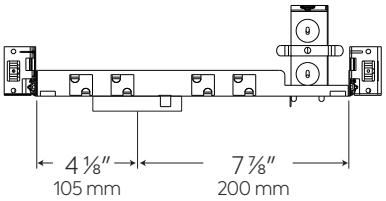
Housings





4″ ROUND



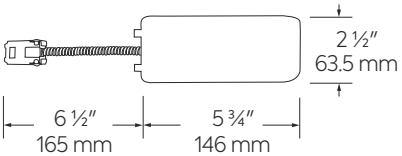


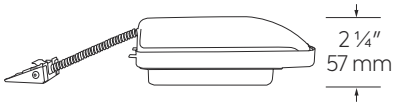
4″ SQUARE

45° bidirectional collar rotation
for square alignment

Remodel/Retrofit

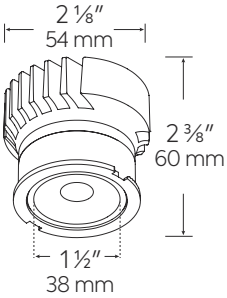
ELIUM Remodel/Retrofit





Module

ELIUM Module



Accessories

Black Louver
L45

White Louver
L57

CCT Reducer
L51

Frosted Lens
L49

Lenses
LUP15D (15°)
LUP24D (24°)
LUP36D (36°)
LUP50D (50°)

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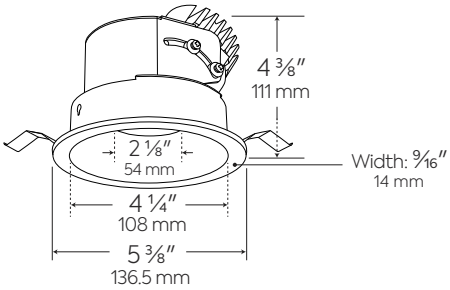
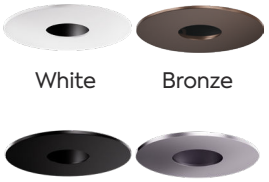
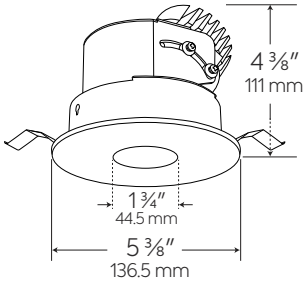
Trims

Round Bevel

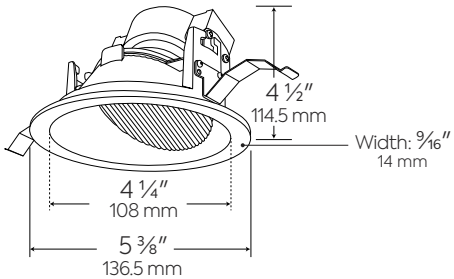


Round Pinhole

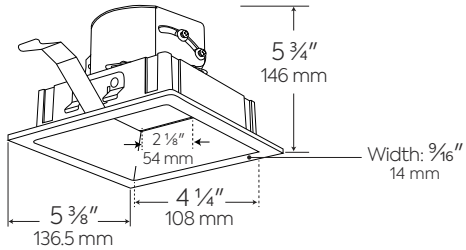


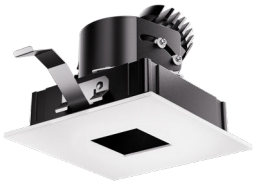


Round Wall Wash



Square Bevel





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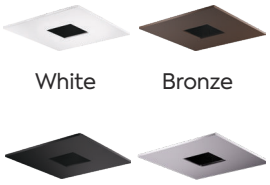

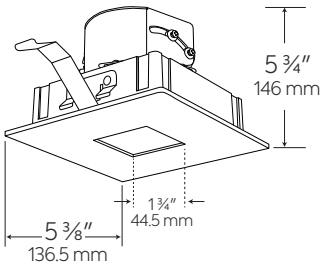

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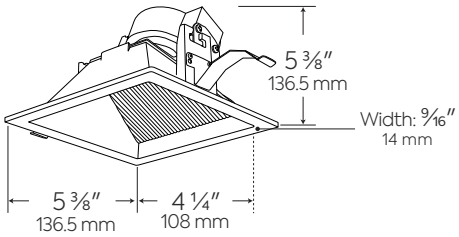
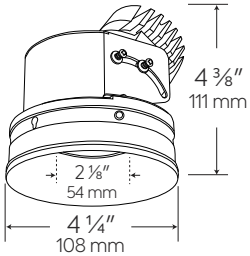
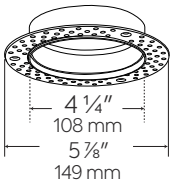
Trims

Square Wall Wash

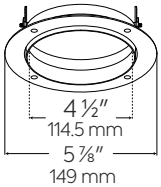


Flangeless Round Bevel



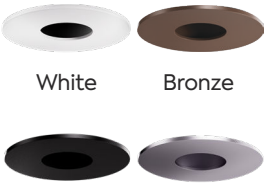


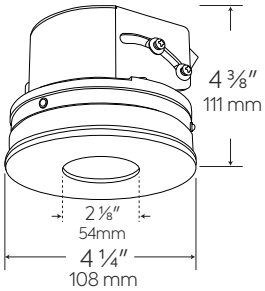
Spackle Frame
Ordered Separately

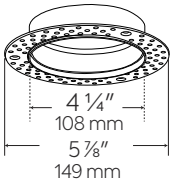


Millwork Adapter
(Ordered Separately)
Adjusts 7/16″ (11mm) - 7/8″ (22mm) for wood layer.

Flangeless Round Pinhole







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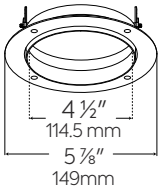

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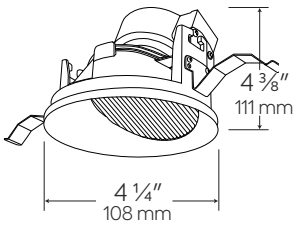
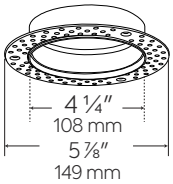
Flangeless Round Wall Wash





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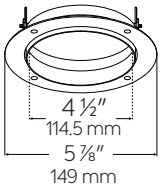

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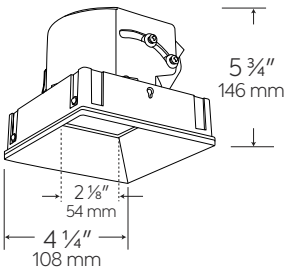
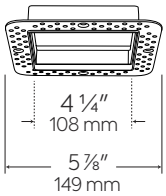
Flangeless Square Bevel





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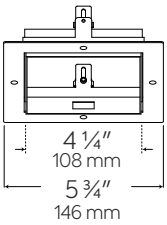

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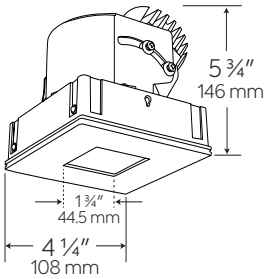
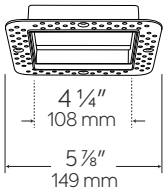
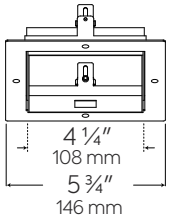
Trims

Flangeless Square Pinhole



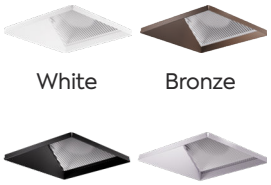


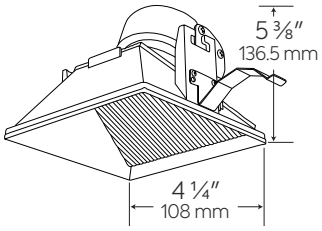
Spackle Frame
Ordered Separately

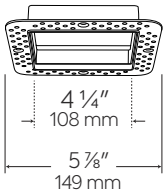


Millwork Adapter
(Ordered Separately)
Adjusts 7⁄16″ (11mm) – ⅞″ (22mm) for wood layer.

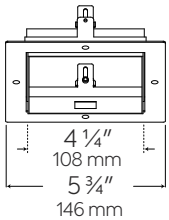
Flangeless Square Wall Wash







Spackle Frame
Ordered Separately



Millwork Adapter
(Ordered Separately)
Adjusts 7⁄16″ (11mm) – ⅞″ (22mm) for wood layer.

Fire Rated Products and Accessories

1-HOUR FIRE ENCLOSURE FOR RECESSED FIXTURES	MICA ADHESIVE FIRE TAPE FOR FIRE ENCLOSURE	2-HOUR FIRE COVER FOR RECESSED FIXTURES
FIREENCL **Standard** – 9″ H x 20 ⅜″ L x 14 ⅜″ W, (228.5″ mm H x 517.5″ mm L x 365″ mm) **FIREENCL-S** **Shallow (-S)** – 7 ¼″ H x 16″ L x 14 ⅜″ W (184″ mm H x 506.5″ mm L x 365″ mm W) Provides fire barrier around recessed lights. ETL approved 1-hour fire rating. Meets UL 263, ASTM E119 Specifications. To be used with Mica Tape to seal the power feeding point. (FIRETAPE sold separately)	**FIRETAPE** ¾″ W x 16″ L, (19 mm W x 405.6 mm L) Fire proof mica adhesive tape helps seal the power feeding point on Fire Enclosure. Offers outstanding high temperature and flame resistance, and provides excellent electrical insulation.	**FIRECVR** 9 ¾″ H x 17″ O.D. x 13″ I.D. (501.5 mm H x 432 mm O.D. x 330 mm I.D.) Made of heat activated intumescent material. UL approved for most ceiling types: sheetrock drywall, gypsum & acoustical tiles. UL Rated enclosure stops flame spread and heat transmission for up to 2 hours.

ELIUM™ PRECISION ILLUMINATED®
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TECHNICAL SPECIFICATIONS

The ELIUM Downlight is a modular, high-performance recessed lighting system designed for versatility and ease of installation. The system consists of three key components: Housing, Module, and Trim Mechanism. The module securely twists onto the trim mechanism and connects to the housing via a quick-connect system. Both the module and driver are fully serviceable from below the ceiling.

HOUSING:

- Shalllow height requires less than 4″ of ceiling space.
- High-strength hanger bars can be easily nailed to wood joists or slid onto T-Grid drop ceilings. Adjustable from 7.5″ to 24″ Wide.
- Universal housing works with flanged, flangeless & millwork applications.
- Accessible driver mounted on the frame for easy servicing.
- Rotatable square collar ensures precise square alignment.
- Knockouts for easy wiring: Seven 1/2″ trade-size conduit knockouts and 4 EZ-Romex cable traps for easy wiring.

EMERGENCY OPTIONS:

- 90-minute emergency battery backup with remote test switch.
- 25W emergency backup accessible from below.

OPTICS:

- Precision-engineered PIR optics available in 15°, 24°, 36° and 50° beam spreads.
- Field-changeable secondary lenses available—no accessory holder required. Module can hold up to 4 secondary lenses.

LED TECHNOLOGY:

- 95+ CRI for exceptionally accurate color rendering.
- 50,000-hour L70 lifespan based on LM80 test standards.
- Advanced thermal management with integrated heat sink.
- Instant-on to full brightness with no visible LED pixilation.

SUNSET DIMMING & HUMAN CENTRIC:

- **Optional:** Dim-to-warm LED technology: Color temperature automatically warms as it dims.
- **Sunset dimming:** 3000K at full brightness, dimming smoothly down to 1800K.
- **Human Centric:** 4000K at full brightness, dimming smoothly down to 2200K.

ADJUSTABILITY:

- Adjustable from below the ceiling while keeping the light centered with the trim opening.
- 40° tilt adjustment, set using a 3/32″ Allen key with an Automatic locking mechanism ensures secure positioning.
- Lockable 359° rotation for precise aiming.

TRIM:

- Diecast aluminum powder coated trim.
- White finish is field paintable.

MODULE - LUMEN MULTIPLIER

CCT	MULTIPLIER	BEAM ANGLE	MULTIPLIER	LENSES	MULTIPLIER
2700K	0.96	**15°**	0.84	**L45** - Black Louver	0.95
3000K	1	**24°**	0.89	**L57** - White Louver	0.96
3500K	1.05	**36°**	1	**L47** - Optic Spread	0.93
4000K	1.085	**50°**	1.065	**L49** - Frosted Lens	0.85
SD	0.80			**L51** - CCT Reducer	0.90
HC	0.80			**Trim 72** - Clear Lens	0.95
				Trim 83 - Solite Lens	0.87

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DIMMER COMPATIBILITY CHART

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Testing conducted by ELIUM Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer specifications for more detailed information on product certifications and standards. Consult the dimmer manufacturer prior to installation to ensure compatibility.

MANUFACTURER	PRODUCT	PART NUMBER	DIMMED LIGHT OUTPUT RANGE
120V - Triac/ELV Dimmers for LU29RD, LU29SQ, LU37RD, LU37SQ, LU45RD & LU45SQ Series			
Leviton	120V AC 60Hz, 300W Electronic Low Voltage, 400 Volt Amp, Single Pole, 3-Way	IPE04	1% - 100%
	120V AC 60Hz, 300W CFL or 600W Incandescent, 400 Volt Amp, Single Pole, 3-Way	6673-10W	1% - 100%
	120V AC, 600W Incandescent with LED Locator, Single Pole, 3-Way	VP106	1% - 100%
	120V AC 60Hz, 500W Incandescent with LED Level Indicator, Single Pole, 3-Way	6161	1% - 100%
	120V AC, 150W LED/CFL or 600W Incandescent, Single Pole, 3-Way	6674	1% - 100%
Lutron	120V AC, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	RRD-6CL	1% - 100%
	120V AC 60Hz, 150W LED/CFL/Incandescent/Halogen, Single Pole, 3-Way	DVCL-153P	1% - 100%
	120V 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	TGCL-153P	1% - 100%
	120V AC 60Hz, 300W Electronic Low Voltage, 3-Way, Commercial/Residential Application	DVELV-303P	1% - 100%
	120V, 600W Incandescent/Halogen, Single Pole, Residential Indoor Application	TG-600P	1% - 100%
	120V, 1000W Incandescent or 600W Magnetic Low Voltage, Single Pole, 3-Way	CT103P	1% - 100%
	120V AC 60Hz, 600W Electronic Low Voltage, Single Pole/Multi-Location	MAELV600	1% - 100%
	120V AC 60Hz, 500W Electronic Low Voltage, Single Pole/Multi-Location	FAELV500	1% - 100%
	120V AC 60Hz, 600W Incandescent/Halogen, Single Pole, Slide-to-Off Dimmer	S-600P	1% - 100%
	120V AC 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	SCL-153P	1% - 100%
	Caséta® Wireless Dimmer	PD-6WCL	1% - 100%
	120V AC 60Hz, Low Voltage Load Type, 150W Single Pole	DVLV-600P	5% - 100%
	120V AC, 60Hz, 600W Incandescent/Halogen, Single Pole, 3-Way, Residential and Commercial Application	DV-603P	1% - 100%
	120V AC, 50/60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way, Indoor Application	MA-PRO	1% - 100%
	120V AC 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	MACL-153M	1% - 100%

***NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details**

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Integrating our lighting with your Smart Home System is a breeze. Simply check your Smart Home system for compatible smart switches and cross-reference that with our Dimming Compatibility Chart. Once the switches are integrated with your Smart Home system your lights will be ready to go.

amazon alexa | Google Assistant | Apple HomeKit | INSTEON | LUTRON | wemo

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120V - Triac/ELV Dimmers for LU29RD, LU29SQ, LU37RD, LU37SQ, LU45RD & LU45SQ Series			
Eaton	120V AC, 300W LED/CFL or 600W Incandescent/MLV/Halogen, Single Pole, 3-Way	TAL06P1-C1	1% - 100%
Cooper	120V AC 60Hz, 300W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	SLC03P / DAL06P	1% - 100%
	120V AC 60Hz, 300W LED/CFL or 600W Incandescent, Single Pole, 3-Way, Residential	DLC03P	1% - 100%
	120V AC 60Hz, 600W Incandescent/Halogen, Single Pole, 3-Way	RI061-VW-K2	1% - 100%
	120V AC 60Hz, 300W LED/CFL/ Incandescent/Halogen, Single Pole, 3-Way	AAL06A-C2	1% - 100%
Lightolier	120V, 260W Incandescent/Halogen, Single Pole, 3-Way	ZP260QEW	1% - 100%

0-10V Type Dimmers - 120/277V for LU29RD, LU29SQ, LU37RD, LU37SQ, LU45RD & LU45SQ Series			
Lutron	120/277V AC, 0-10V LED/CFL Ballast, Single Pole, 3-Way	NFTV	1% - 100%
	120/277V AC, 0-10V, Single Pole, 3-Way, Commercial and Residential, Indoor Application	DVSTV	1% - 100%
	120/277V AC 50/60Hz, 0-10V LED/CFL Ballast, Single Pole, 3-Way, Indoor Application	DVTV	1% - 100%
Leviton	120/277V AC 60Hz, 0-10V LED/CFL Ballast, Single Pole, 3-Way	IP710-DL	1% - 100%

***NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details**

Disclaimer: Minimum and maximum loads for LEDs and CFLs are given in number of lamps and may vary depending on the lamp being used. Testing conducted by ELCO Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer specifications for more detailed information on product certifications and standards.

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