ELIUM™

PRECISION ILLUMINATED®

Project Name:

Fixture Type:

Date:

# 3″ ELIUM™ Double Head Gear Adjustable Canless Downlights

IC Rated, 1900 lumens. 120-277V, Triac, ELV, 0-10V, DALI-2, Lutron, EldoLed. New Construction & Remodel. Round, Square, Flanged and Flangeless.

## 3″ 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: Double head frame, two modules, & two trims
- 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 35° 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 - 7/12

## SPECIFICATIONS

| | |
|---|---|
| WATTAGE: | 10.5W |
| LUMENS: | 1900 lm (950 lm per head) |
| VOLTAGE: | 120-277V |
| COLOR TEMP: | 2700K, 3000K, 3500K, 4000K,<br>Sunset Dim to Warm,<br>Human Centric Dim to Warm |
| DIMMABLE: | 0-10V, Triac, ELV (1%), 0-10V (0.1%),<br>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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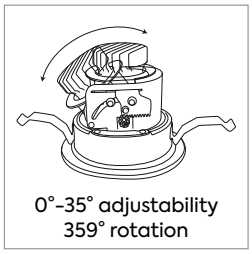
## 3″ ELIUM™ 3-PART SYSTEM: DOUBLE HEAD FRAME, MODULE & TRIM

**1900** Lumens
**950** lm per head



0°–35° adjustability
359° rotation

Clear and Solite
**Lens Options**

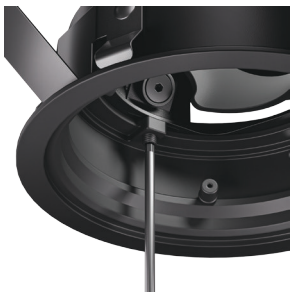
Flangeless **Millwork**
**Options**

## LOCKABLE HOT AIMING GEAR ADJUSTMENT FROM BELOW

### Adjustability

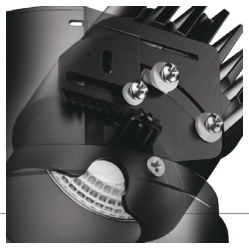
Hot Aiming from below the ceiling using a 3⁄32″ Allen Key

### 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: L2DA37RDTE19IC

| ELIUM | SIZE | STYLE | DRIVER | LUMENS | IC | OPTIONAL EM |
|---|---|---|---|---|---|---|
| L2DA | | | | | | |
| **L2DA** | **37** 3″ | **RD** Round (New Construction) | **X** 120-277V, 0-10V, Triac/ELV (1%) | **19** 1900 lm (21W) | **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 – TWO SELECTIONS REQUIRED, MAY MIX AND MATCH

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** LED COB | **SD** Dim to Warm Bridgelux[1] | **-XX** 36° installed, with 15°, 24° & 50° lenses included |
| | | **HC** Dim to Warm LTF[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 – TWO SELECTIONS REQUIRED, MAY MIX AND MATCH

Example: LU37RD27LSBB

| ELIUM | SIZE | SHAPE | STYLE | TRIM | LENS | FINISH |
|---|---|---|---|---|---|---|
| LU | | | | | | |
| **LU** | **37** 3″ | **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: **LU37RDSF** Square: **LU37SQSF** | Round: **LU37RDWC** Square: **LU37SQWC** | **LU332ALLEN** |



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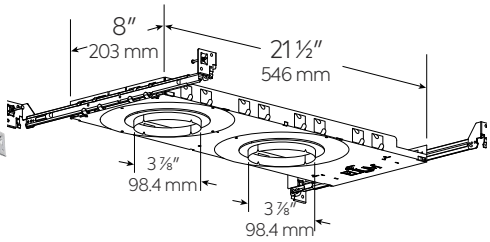
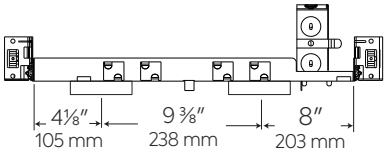
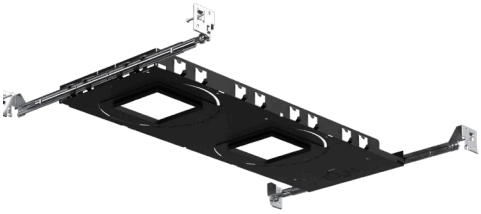
# PRODUCTS

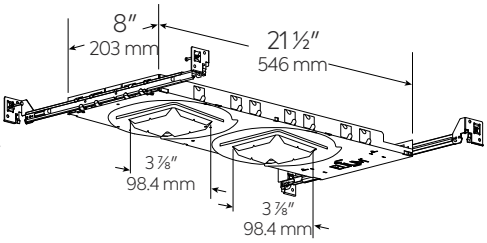
## Double Head Frames

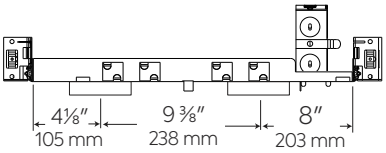



4″ ROUND





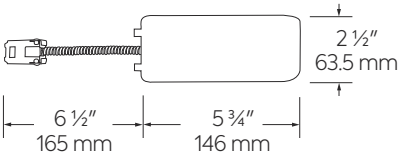



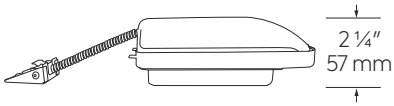

4″ SQUARE

**45° bidirectional collar rotation**
for square alignment

## Remodel/Retrofit

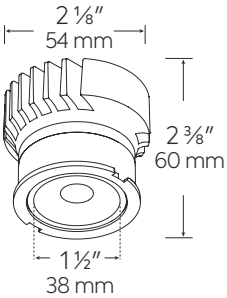
ELIUM Remodel/Retrofit




## 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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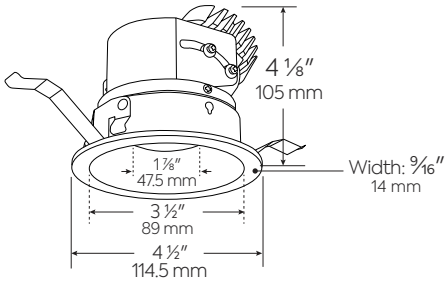
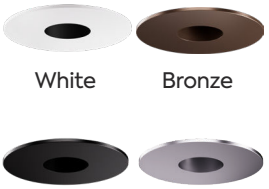
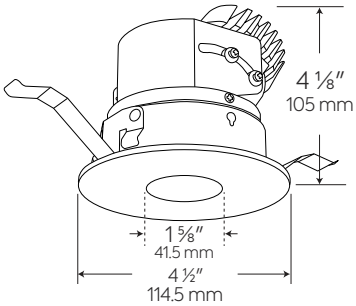
## Trims

Round Bevel

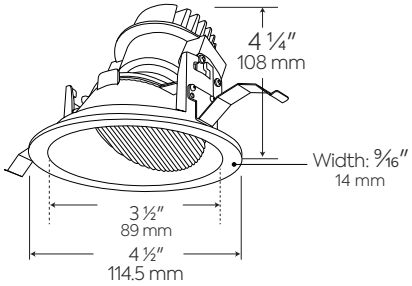


Round Pinhole

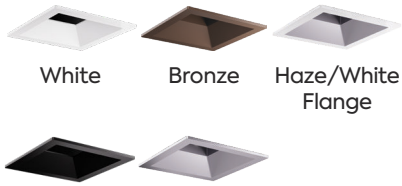


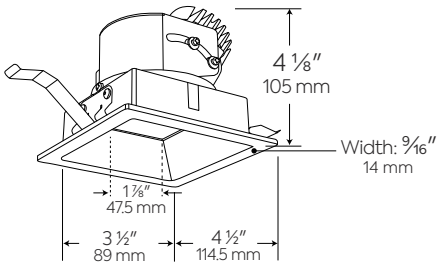



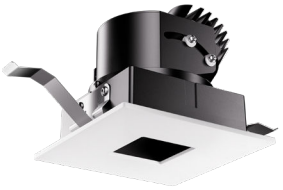
Round Wall Wash



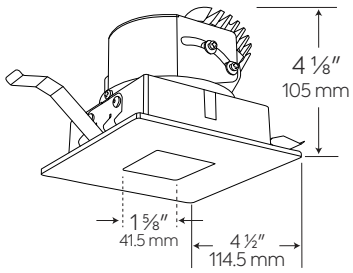
Square Bevel



Square Pinhole



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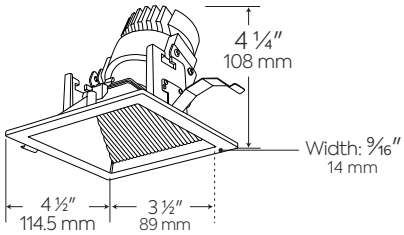
## Trims

Square Wall Wash

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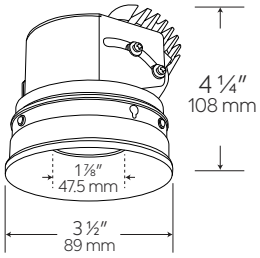
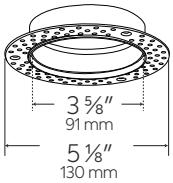
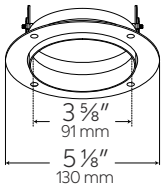
Flangeless Round Bevel




Spackle Frame
Ordered Separately




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

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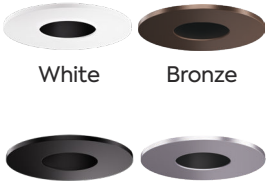
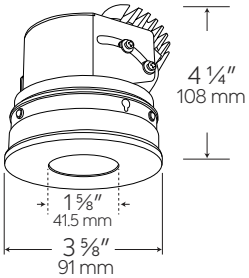
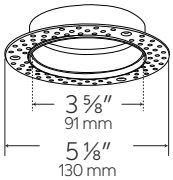
Flangeless Round Pinhole

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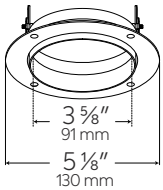


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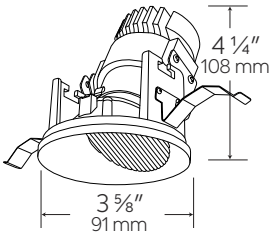
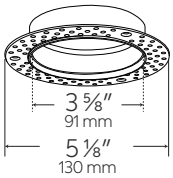
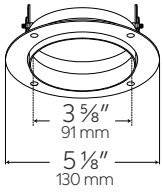
Flangeless Round Wall Wash




Spackle Frame
Ordered Separately




Millwork Adapter
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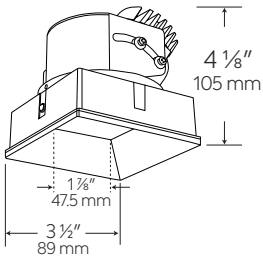
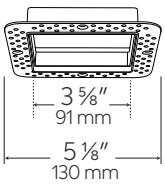
Flangeless Square Bevel

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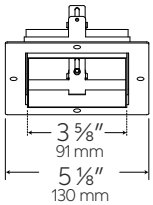


Millwork Adapter
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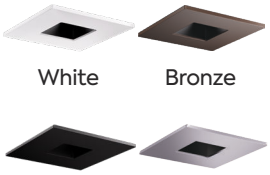
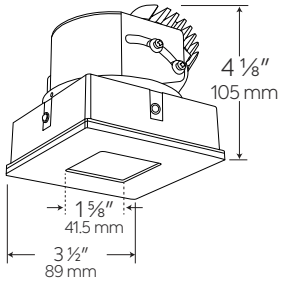
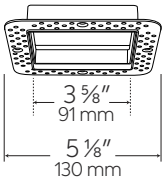
## Trims

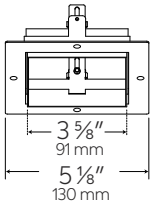
Flangeless Square Pinhole




Spackle Frame
Ordered Separately

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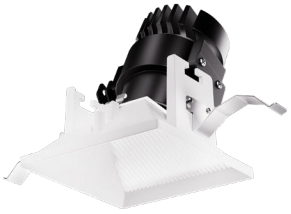
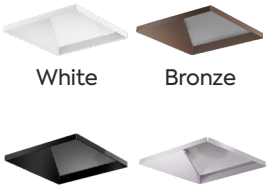
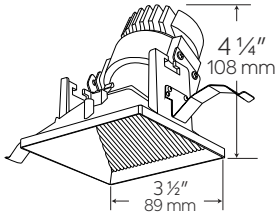
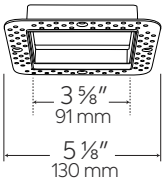


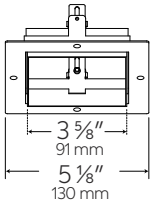
Flangeless Square Wall Wash




Spackle Frame
Ordered Separately




Millwork Adapter
(Ordered Separately)
Adjusts 7/16″ (11mm) - 7/8″ (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**<br>**Standard** - 9″ H x 20 3/8″ L x 14 3/8″ W,<br>(228.5″ mm H x 517.5″ mm L x 365″ mm)<br>**FIREENCL-S**<br>**Shallow (-S)** - 7 1/4″ H x 16″ L x 14 3/8″ W<br>(184″ mm H x 506.5″ mm L x 365″ mm W)<br><br>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** 3/4″ W x 16″ L,<br>(19 mm W x 405.6 mm L)<br><br>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**<br>9 3/4″ H x 17″ O.D. x 13″ I.D.<br>(501.5 mm H x 432 mm O.D. x 330 mm I.D. )<br><br>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. |



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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.
- 35° 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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| 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**

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.

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.

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| MANUFACTURER | PRODUCT | PART NUMBER | DIMMED LIGHT OUTPUT RANGE |
|---|---|---|---|
| **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**

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