

Project name:

Fixture type:

Date:

## Canless Koto<sup>™</sup> LED Module

Designed to be installed without a recessed housing. Works with New Construction Frames or Remodel Power Packs and Koto<sup>™</sup> Twist-On Trims.



#### **Features**

- IC Rated for direct contact with insulation
- Canless Module works with Koto™ frames and power packs
- Driver specified for 120V (Triac/ELV) or 120/277V (0-10V/Triac/ELV) dimming
- Works in 2", 3", 4" and 6" Canless Koto™ twist-on trims
- Push-&-Twist connector on module for easy installation
- Standard 38° Lens installed, 25° and 60° lens included with each module - Optional Lens: 18° (EP731C)
- Optional: Louver (<u>L45</u>), Linear Lens (<u>L46</u>), Spread Lens (<u>L47</u>), Frosted Lens (<u>L49</u>), White Koto Snoot (<u>L50W</u>).
   Black Koto Snoot (<u>L50B</u>), Color Shifter (<u>L51</u>), Blue Lens (<u>L52</u>), Pink Lens (<u>L53</u>)
- Excellent color rendering 95+ CRI
- Offered in 2700K, 3000K, 3500K, 4000K, Sunset Dimming (Dims from 3000K to 1800K), & Human Centric (Dims from 4000K to 2200K)
- Title 24 JA8-2022 Compliant
- Life span of 50,000 hours L70
- Covered by U.S. PATENTS and Patents Pending
   Optional Reflectors: 15<sup>o</sup> (EP735C), 25<sup>o</sup> (EP736C), 38<sup>o</sup>
- Optional Reflectors: 15<sup>2</sup> (EP735C), 25<sup>2</sup> (EP736C), 3 (EP737C), 60<sup>o</sup> (EP738C)

### **Technical Details**

Optics: PC lens diffuses light evenly throughout while reducing glare with LED COB technology.

Construction: Diecast aluminum body with heat fins allow for efficient cooling.

**Installation:** Twist-On design for toolless trim installation, for use with Canless Koto™ trims only. Can be use with New Construction Frames or Remodel IC Power Packs.

**LED Technology:** Extremely accurate Color Rendering Index (CRI) of 95+. Lumen Maintaince of 50,000 hours L70 Life based on LM80 standardized test results. Superior Thermal Management by utilizing integrated heat sink. Instant On to Full Brightness. No LED pixilation.

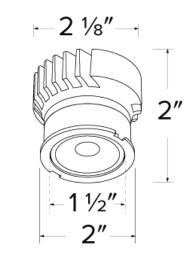
**Sunset:** Sunset color temperature is our dim-to-warm LED technology that allows the color temperature to become warmer as the product is dimmed. Our SUNSET items start at 3000K and go as low as 1800K when dimmed. For Sunset dim technology be sure to order an item with "Sunset (SDD)" in the Color Temperature (CCT) attribute.

Human Centric: Our HUMAN CENTRIC items start at 4000K and go as low as 2200K when dimmed. For Human Centric dim technology be sure to order an item with "Human Centric (HCD)" in the Color Temperature (CCT) attribute.

### Specifications

| Wattage                  | 10.5 MAXW                         |  |  |  |
|--------------------------|-----------------------------------|--|--|--|
| Lumens                   | Up to 950 lm                      |  |  |  |
| Color Temp.              | 3500K                             |  |  |  |
| Lamp Type                | LED                               |  |  |  |
| Beam Angle               | 90°                               |  |  |  |
| CRI                      | 95                                |  |  |  |
| Wet Location             | cUL Listed w/Wet<br>Location Trim |  |  |  |
| Damp Location cUL Listed |                                   |  |  |  |

### Dimensions



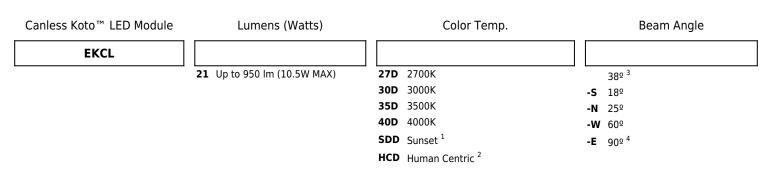
### **Product Number**

| Item        | Lamp<br>type | Lumens          | сст   | Watts    | Beam<br>Angle |
|-------------|--------------|-----------------|-------|----------|---------------|
| EKCL2135D-E | LED          | Up to 950<br>Im | 3500K | 10.5 MAX | 90°           |

| Listings: cUL Listed for Damp Locations and Wet Location with Wet location trims. RoHS Compliant. Title 24 | 1 |
|--|---|
| IA8-2022 E-Compliant.  | - |
|  |   |

Warranty: ELCO Products are built to last with a 5-year Limited Warranty.

### Product Number Builder Example: EKCL2127D



<sup>1</sup> Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

<sup>2</sup> Human Centric, Dim to Warm technology, automatically transitions from 4000K to 2200K when dimmed

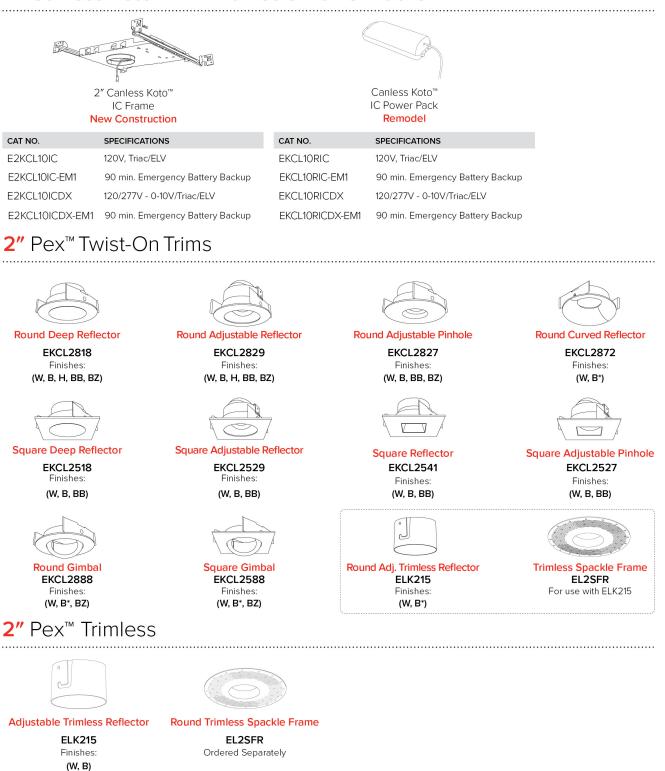
<sup>3</sup> 38° lens installed. Includes 25° and 60° lens with module.

<sup>4</sup> 90° Frosted Reflector



For use with Canless Koto<sup>™</sup> LED Module

## 2" Canless Koto™ LED Frames & Power Packs

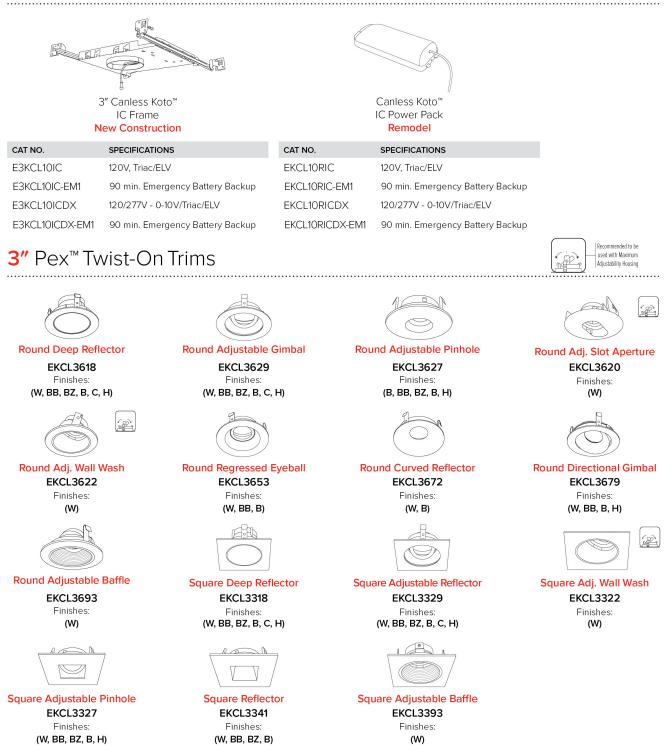


Finishes: W - All White, BB - All Black, BZ - All Bronze, B - Black w/White Ring, C - Chrome w/White Ring, H - Haze w/White Ring, B\* - All Black (For ELK28272, ELK2888, ELK2588, & ELK215)



For use with Canless Koto<sup>™</sup> LED Module

## 3" Canless LED Koto™ Frames & Power Packs

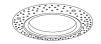


\*Finishes: W - All White, BB - All Black, BZ - All Bronze, B - Black Reflector w/White Ring, C - Chrome Reflector w/White Ring, H - Haze Reflector w/White Ring

## **EL ELCO** Lighting

For use with Canless Koto<sup>™</sup> LED Module

## 3" Pex™ Flush Mount Trim Adaptors



#### Round Flush Mount Trim Adaptor

EL3FMR Compatible 3" Pex™ Round trims: ELK3618, ELK3629, ELK3627, ELK3693, ELK3620, ELK3622 Series



#### Square Flush Mount Trim Adaptor EL3FMS

Compatible 3″ Pex™ Square trims: ELK3318, ELK3329, ELK3322, ELK3327, ELK3341, ELK3393 Series

## 3" Pex™ Trimless



Round Trimless Reflector ELK308 Finishes: (W, B, H)



Square Trimless Reflector ELK370 Finishes: (W, B, H)



Round Adjustable Trimless Reflector ELK315 Finishes:



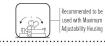
Square Adjustable Trimless Reflector ELK381 Finishes: (W, B, H)



Round Trimless Spackle Frame EL3SFR For use with ELK315



Square Trimless Spackle Frame EL03SFS For use with ELK370 & ELK381





Round Knife Edge Wood Ceiling Trim w/Mounting Clips EL3WCR Finishes: (W, B)

Finishes: W - All White, BB - All Black, BZ - All Bronze, B - Black w/White Ring, C - Chrome w/White Ring, H - Haze w/White Ring, B\* - All Black (For ELK315, ELK370, & ELK381)



.....

Recommended to be

used with Maximum Adjustability Housing

For use with Canless Koto<sup>™</sup> LED Module

### 4" Canless Koto™ LED Frames & Power Packs



4″ Canless Koto™ IC Frame

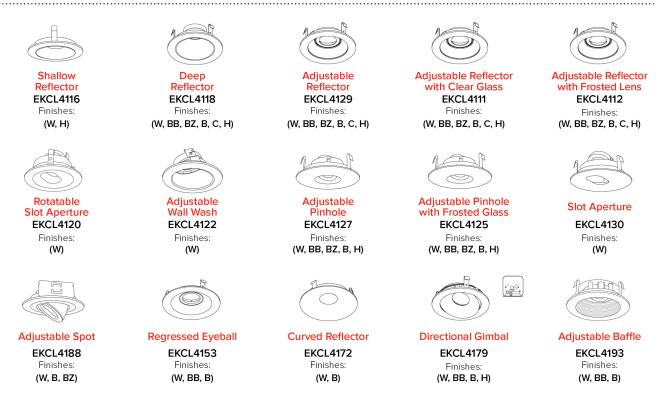




Canless Koto<sup>™</sup> IC Power Pack **Remodel** 

| CAT NO.         | SPECIFICATIONS                   | CAT NO.         | SPECIFICATIONS                   |
|-----------------|----------------------------------|-----------------|----------------------------------|
| E4KCL10IC       | 120V, Triac/ELV                  | EKCL10RIC       | 120V, Triac/ELV                  |
| E4KCL10IC-EM1   | 90 min. Emergency Battery Backup | EKCL10RIC-EM1   | 90 min. Emergency Battery Backup |
| E4KCL0ICDX      | 120/277V - 0-10V/Triac/ELV       | EKCL10RICDX     | 120/277V - 0-10V/Triac/ELV       |
| E4KCL10ICDX-EM1 | 90 min. Emergency Battery Backup | EKCL10RICDX-EM1 | 90 min. Emergency Battery Backup |

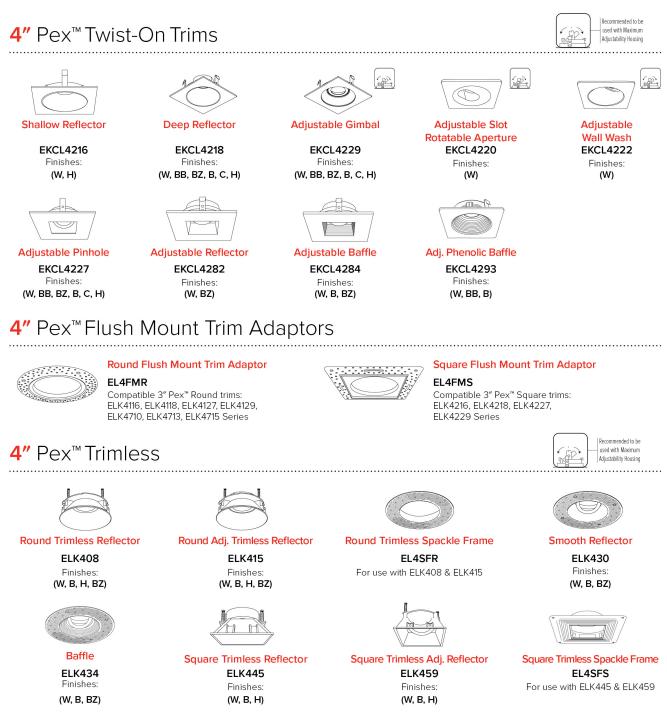
## **4″** Pex™ Twist-On Trims



Finishes: W - All White, BB - All Black, BZ - All Bronze, B - Black w/White Ring, C - Chrome w/White Ring, H - Haze w/White Ring, B\* - All Black (For ELK4188, ELK4172, & ELK4284)

For use with Canless Koto<sup>™</sup> LED Module

## EL ELCO Lighting

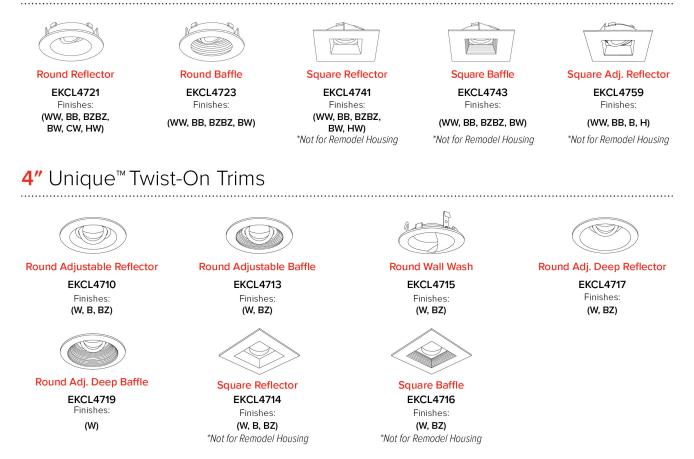


Finishes: W - All White, BB - All Black, BZ - All Bronze, B - Black w/White Ring, C - Chrome w/White Ring, H - Haze w/White Ring, B\* - All Black, (For ELK408, ELK415, ELK434, ELK445, ELK459)

For use with Canless Koto<sup>™</sup> LED Module



## **4**″ Flexa™ Twist-On Trims

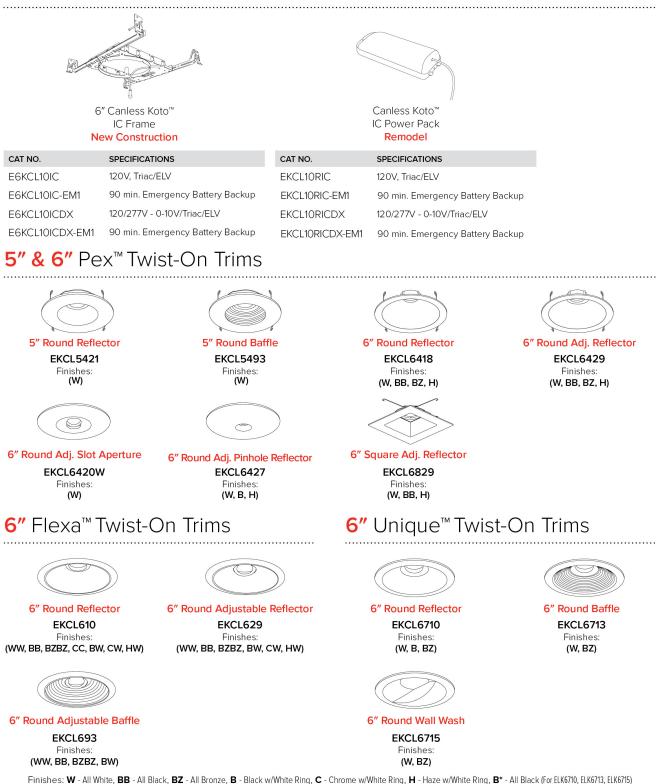


\*Finishes: W - All White, WW - All White, B - Black Reflector w/White Ring, C - Chrome Reflector w/White Ring, H - Haze Reflector w/White Ring, BB - All Black, BZ - All Bronze, CC - All Chrome, BZBZ - All Bronze, BW - Black Reflector w/White Ring, CW - Chrome Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring



For use with Canless Koto<sup>™</sup> LED Module

### 6" Canless Koto™ LED Frames & Power Packs





### Dimmer Compatibility Chart 120V - Triac/ELV Dimmers For Canless Koto<sup>™</sup> System E2KCL10IC, E3KCL10IC, E4KCL10IC, E6KCL10IC, and EKCL10RIC

#### For Reference Only

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. Consult the dimmer manufacturer prior to installation to ensure compatibility.

| Manufacturer | Product  | Part Number                                   | Dimmed Light<br>Output Range |
|--------------|--|---|------------------------------|
| Leviton      | Decora SureSlide <sup>®</sup> Single Pole with Slide -to-Off   | 6672  | 15% - 100%                   |
|              | Leviton Dimmer   | 1K35O2  | 5% - 100%                    |
| Lutron       | Vive, 120V, 150W LED/CFL, 600W Incandescent/Halogen, FP,<br>Single Pole/Multi-Location Dimmer, Commercial Application                    | MRF2S-6CL                                     | 12% - 91%                    |
|              | Panel Model, Commercial/Residential Application, FP  | GP (Harrier) Card                             | 10% - 94%                    |
|              | Grafik QS/Mailbox Power Module, 120/220 to 240V AC, LED/Incandescent/Halogen<br>Load Type, Commercial/Residential Indoor Application, FP | LQRJ-WPM-6P                                   | 10% - 95%                    |
|              | Grafik Eye 3000/HomeWorks, 120V, Incandescent/Fluorescent Load Type,<br>Commercial/Residential Application, FP                           | HWI-WPM-6D-120                                | 10% - 95%                    |
|              | Panel Dimming Module, 120V, Commercial/Residential Application, FP   | HW/LP-RPM-4U-120                              | 10% - 95%                    |
|              | Panel Adaptive Dimming Module, 120V, Commercial/Residential Application, FP  | HW/LP-RPM-4A-120                              | 9% - 95%                     |
|              | HomeWorks® QS for CFL/LED loads, 120V, RP, Commercial/Residential Application  | LQSE-4A1-D/MQSE-4A1-D/<br>MQSE-3A1/MQSE-2A1-D | 8% - 95%                     |
|              | Energi Savr Node LED+ Phase Adaptive, Commercial Application, Reverse Phase,<br>(Zone 1) (Zones 2-4)                                     | QSN-4A5-S                                     | 8% - 95%                     |
|              | RadioRA®2, 120V, 50/60-Hz, 150W LED or 600W Incandescent/Halogen,<br>3-Way & 4-Way, Residential Application                              | RRD-6CL                                       | 10% - 95%                    |
|              | RadioRA®3, 120V, 250W LED/CFL or 500W Incandescent/Halogen, Single Pole, Multi-Location  | RRST-PRO-N                                    | 10% - 95%                    |
|              | HomeWorks® QS, 120V, 60-Hz, 150W LED/CFL or 600W Incandescent/Halogen/MLV, Residential Application                                       | HQRD-6CL(H2)<br>HQRA-6CL(H2)                  | 10% - 95%                    |
|              | Homeworks QS, Residential Application, Reverse Phase   | LQSE-4A-120-D                                 | 8% - 89%                     |
|              | HomeWorks® for LED/Incandescent/Halogen loads, Reverse Phase, (Zone 1) (Zones 2-4)   | LQSE-4A5-120-D                                | 8% - 89%                     |
|              | Ariadni® C·L Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen  | AYCL-153P                                     | 10% - 100%                   |
|              | Skylark Contour® C·L, Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen   | CTCL-153P                                     | 10% - 100%                   |
|              | Skylark® C·L Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen  | SCL-153P                                      | 10% - 100%                   |
|              | Diva® Series 150W Single Pole/3-Way Dimmer   | DVCL-153P                                     | 10% - 100%                   |
|              | Skylark Contour® Single Pole/3-Way 1000W Incandescent/Halogen  | CT-103P                                       | 10% - 100%                   |

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

 O amazon alexa
 S Google Assistant
 I N S T E Ů N'
 CUTRON.
 WCMO

 2042 E. Vernon Ave. Vernon CA 90058
 Tel 323.231.2600
 Fax 323.231.3200
 elcolighting.com
 RV 06.24

| Manufacturer | Product  | Part Number | Dimmed Light<br>Output Range |
|--------------|--|-------------|------------------------------|
| Lutron       | Skylark® Single Pole 300W ELV Preset Dimmer  | SELV-300P   | 5% - 100%                    |
|              | Skylark® Single Pole 600W Incandescent/Halogen, Slide-to-Off Dimmer  | S-600P      | 5% - 100%                    |
|              | Diva® 300W Single Pole/3-Way ELV Dimmer  | DVELV-303P  | 10% - 100%                   |
|              | Diva® 600W Single Pole Incandescent/Halogen Preset Dimmer  | DV-600P     | 5% - 100%                    |
|              | Ariadni® 600W Single Pole Magnetic Low Voltage Dimmer  | AYLV-600P   | 5% - 100%                    |
|              | Ariadni® 600W Single Pole/3-Way Incandescent/Halogen Dimmer  | AY-603P     | 5% - 100%                    |
|              | Maestro <sup>®</sup> 600W Single Pole/3-Way ELV Dimmer   | MAELV-600   | 5% - 100%                    |
|              | Maestro <sup>®</sup> C·L Single Pole/3-Way Dimmer. 150W Max for LED/CFL or 600W Max for Incandescent/Halogen | MACL-153M   | 10% - 100%                   |
|              | Caséta® Wireless Dimmer  | PD-6WCL     | 10% - 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 refrence 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 | er Google Assistant     | <mark>ම</mark> Apple HomeKit | INS          | ТЕΌΝ        |              | RON.        | wemo     |
|----------------|-------------------------|------------------------------|--------------|-------------|--------------|-------------|----------|
|                | 2042 E. Vernon Ave. Ver | non CA 90058 Te              | 323.231.2600 | Fax 323.231 | .3200 elcoli | ighting.com | RV 06.24 |



## **Dimmer Compatibility Chart** 120/277V - 0-10V/Triac/ELV Dimmers For Canless Koto<sup>™</sup> System E2KCL10ICDX, E3KCL10ICDX, E4KCL10ICDX, E6KCL10ICDX,

and EKCL10RICDX

#### For Reference Only

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. Consult the dimmer manufacturer prior to installation to ensure compatibility. The listed values were measured under ideal conditions in a test lab. Results in the field may differ.

| Manufacturer   | Product  | Part Number     | Dimmed Light<br>Output Range |
|----------------|--|-----------------|------------------------------|
| Triac/ELV Type | Dimmers - 120V Only  |                 |                              |
| 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,<br>Indoor Application | MA-PRO          | 1% - 100%                    |
|                | 120V AC 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way,                         | MACL-153M       | 1% - 100%                    |
| 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%                    |
| 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%                    |

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

O amazon alexa

Google Assistant

Apple HomeKit

INSTEON

wemo

2042 E. Vernon Ave. Vernon CA 90058 Tel 323.231.2600 Fax 323.231.3200 elcolighting.com

RV 06.24

| Manufacturer   | Product  | Part Number | Dimmed Light<br>Output Range |
|----------------|--|-------------|------------------------------|
| 0-10V Type Dim | nmers - 120/277V   |             |                              |
| 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.

Integrating our lighting with your Smart Home System is a breeze. Simply check your Smart Home system for compatible smart switches and cross refrence 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      | 嶟 Apple HomeKit  | INS          | ТЕΌΝ        | 315<br>917 | LUTRON.          | wemo     |
|----------------|-------------------------|------------------|--------------|-------------|------------|------------------|----------|
|                | 2042 E. Vernon Ave. Ver | non CA 90058 Tel | 323.231.2600 | Fax 323.231 | 1.3200     | elcolighting.com | RV 06.24 |