

# Canless Koto™ LED Module

Designed to be installed without a recessed housing. Works with New Construction Frames or Remodel Power Packs and Koto™ 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 (L45), Linear Lens (L46), Spread Lens (L47), Frosted Lens (L49), White Koto Snoot (L50W), Black Koto Snoot (L50B), Color Shifter (L51), Blue Lens (L52), Pink Lens (L53)
- 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° (EP735C), 25° (EP736C), 38° (EP737C), 60° (EP738C)

## Specifications

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

## Dimensions



## Product Number

| Item      | Lamp type | Lumens       | CCT            | Watts    | Beam Angle |
|-----------|-----------|--------------|----------------|----------|------------|
| EKCL21HCD | LED       | Up to 950 lm | Human Centrick | 10.5 MAX | 90°        |

## 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.

**Listings:** cUL Listed for Damp Locations and Wet Location with Wet location trims. RoHS Compliant. Title 24 JA8-2022 E-Compliant.

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

Product Number Builder    Example: **EKCL2127D**

| Canless Koto™ LED Module | Lumens (Watts)                     | Color Temp.                                                                                                                                             | Beam Angle                                                                                                       |
|--------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>EKCL</b>              | <b>21</b> Up to 950 lm (10.5W MAX) | <b>27D</b> 2700K<br><b>30D</b> 3000K<br><b>35D</b> 3500K<br><b>40D</b> 4000K<br><b>SDD</b> Sunset <sup>1</sup><br><b>HCD</b> Human Centric <sup>2</sup> | <b>NOKEY38</b> 38º <sup>3</sup><br><b>-S</b> 18º<br><b>-N</b> 25º<br><b>-W</b> 60º<br><b>-E</b> 90º <sup>4</sup> |

<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



**ELCO Lighting**

# Dimmer Compatibility Chart

## 120V - Triac/ELV Dimmers

### For Canless Koto™ System

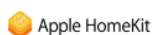
E2KCL10IC, E3KCL10IC, E4KCL10IC, E6KCL10IC, and EKCL10RIC

#### 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 Output Range |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------|
| Leviton      | Decora SureSlide® Single Pole with Slide -to-Off                                                                                      | 6672                                          | 15% - 100%                |
|              | Leviton Dimmer                                                                                                                        | 1K3502                                        | 5% - 100%                 |
| Lutron       | Vive, 120V, 150W LED/CFL, 600W Incandescent/Halogen, FP, 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 Load Type, Commercial/Residential Indoor Application, FP | LQRJ-WPM-6P                                   | 10% - 95%                 |
|              | Grafik Eye 3000/HomeWorks, 120V, Incandescent/Fluorescent Load Type, 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, (Zone 1) (Zones 2-4)                                     | QSN-4A5-S                                     | 8% - 95%                  |
|              | RadioRA®2, 120V, 50/60-Hz, 150W LED or 600W Incandescent/Halogen, 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 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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RV 06.24

| Manufacturer | Product                                                                                          | Part Number | Dimmed Light 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® 600W Single Pole/3-Way ELV Dimmer                                                       | MAELV-600   | 5% - 100%                 |
|              | Maestro® 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.

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# Dimmer Compatibility Chart

## 120/277V - 0-10V/Triac/ELV Dimmers

### For Canless Koto™ System

E2KCL10ICDX, E3KCL10ICDX, E4KCL10ICDX, E6KCL10ICDX,  
and EKCL10RICDX

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| Manufacturer                              | Product                                                                                              | Part Number     | Dimmed Light Output Range |
|-------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------|---------------------------|
| <b>Triac/ELV Type Dimmers - 120V Only</b> |                                                                                                      |                 |                           |
| 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%                 |
| 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%                 |

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| Manufacturer                         | Product                                                                                | Part Number | Dimmed Light Output Range |
|--------------------------------------|----------------------------------------------------------------------------------------|-------------|---------------------------|
| <b>0-10V Type Dimmers - 120/277V</b> |                                                                                        |             |                           |
| 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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