

Project name:

Fixture type:

Date:

## 10° Koto™ LED Module (Narrow Spot)

Works with 2", 3", 4" & 6" Recessed Housings and Koto™ Trims



### Features

- Includes 10° lens installed, and field changeable 25° & 38° lens included (for ELK0827-NSP & ELK0830-NSP)
- Includes 38° lens installed, and field changeable 10° & 25° lens included (for ELK0327 & ELK0330)
- Integrated 120V dimmable driver Triac/ELV
- Excellent color rendering 93+ CRI
- Works in 2", 3", 4" & 6" ELCO Housings with Koto™ twist-on trims
- Energy Star Certified. Title 24 JA8-2019 Compliant
- Optional: Louver (<u>L45</u>), Linear Lens (<u>L46</u>), Spread Lens (<u>L47</u>), Clear Lens (<u>L48</u>), Frosted Lens (<u>L49</u>), Color Shifter (<u>L50</u>), Snoot (<u>L51W</u>, <u>L51B</u>), Blue Lens (<u>L52</u>), Pink Lens (<u>L53</u>), Single Asymmetric Lens (<u>L54</u>), Double Asymmetric Lens (<u>L55</u>)
- Covered by U.S. PATENTS and Patents Pending

### **Technical Details**

**Optics:** Frosted polycarbonate module lens diffuses light evenly throughout while reducing glare with LED technology.

**Construction**: Integrated driver and light engine with quick connect. Diecast aluminum body with heat fins allow for efficient cooling.

**Installation:** Twist-on design for toolless trim installation, for use with Koto<sup>™</sup> trims only. Can be use in 2", 3", 4" & 6" housings with quick connect base.

**Electrical:** Up to 850 lm/2700K-3000K. Module connects to 120 power supply. High efficiency driver with a power factor >0.9. Start time of less than 0.75 seconds.

**LED Technology:** Extremely accurate Color Rendering Index of 93+. 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 technology. No LED pixilation.

**Dimmability:** Works with 120V Triac and ELV type dimmers. Dims down to 5%. For full list of dimmers, refere to the Dimmer Compatibility List. Industry leading dimming that dims smoothly with no hot spots or flickering.

Listings: cUL Listed for Damp Locations. cUL Listed for Wet Location with Wet location trims. RoHS Compliant. Energy Star Certified. Title 24 JA8-2019 Compliant

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

### Specifications

Wattage	5W		
Lumens	350 lm		
Voltage	120V		
Color Temp.	2700К		
Dimmable	Triac/ELV		
Lamp Type	LED		
Beam Angle	38°		
CRI	95		
Wet Location	cUL Listed w/Wet Location Trim		
Damp Location CUL Listed			

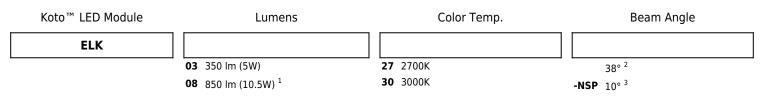
## 2 ½" 2 ½" 2 ½" - 1½" - 2"

### **Product Number**

Dimensions

Item	Lamp type	Lumens	сст	Watts	Voltage	Dimming	Beam Angle
ELK0327	LED	350 lm	2700K	5W	120V	Triac/ELV	38°

### Product Number Builder Example: ELK0327



<sup>1</sup> Available only with -NSP beam angle option

 $^2$  38° lens installed. Includes field changeable 10° and 25° lens with module.

 $^{\rm 3}$  10° lens installed. Includes field changeable 25° and 38° lens with module.



For use with  $\mathbf{Koto}^{\scriptscriptstyle \mathrm{M}} \ \mathbf{LED} \ \mathbf{Module}$ 

## 2″ Koto™ Dedicated LED ICA Housings



2" ICA Maximum Adjustability Housing New Construction

CAT NO. SPECIFICATIONS

EL276ICA Maximum Adjustability

### 2" Pex™ Twist-On Trims



#### Round Deep Reflector

ELK2818 Finishes: (W, B, H, BB, BZ)



Square Deep Reflector

ELK2518 Finishes: (W, B, BB)



Round Gimbal ELK2888 Finishes: (W, B\*, BZ)



#### Round Adjustable Reflector

ELK2829 Finishes: (W, B, H, BB, BZ)



Square Adjustable Reflector

ELK2529 Finishes: (W, B, BB)

Square Gimbal ELK2588 Finishes: (W, B\*, BZ)



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#### Round Adjustable Pinhole

ELK2827 Finishes: (W, B, BB, BZ)



Square Reflector ELK2541 Finishes: (W, B, BB)



Round Adj. Trimless Reflector ELK215 Finishes: (W, B\*)



#### Round Curved Reflector

ELK2872 Finishes: (W, B\*)



Square Adjustable Pinhole ELK2527 Finishes: (W, B, BB)



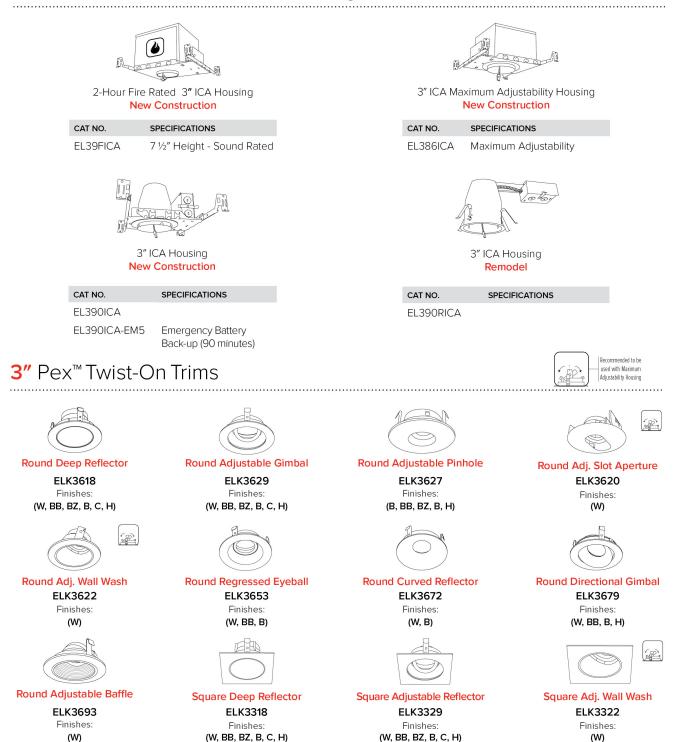
Trimless Spackle Frame EL2SFR For use with ELK215

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 ELK2872, ELK2888, ELK2588, & ELK258, & ELK215)



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

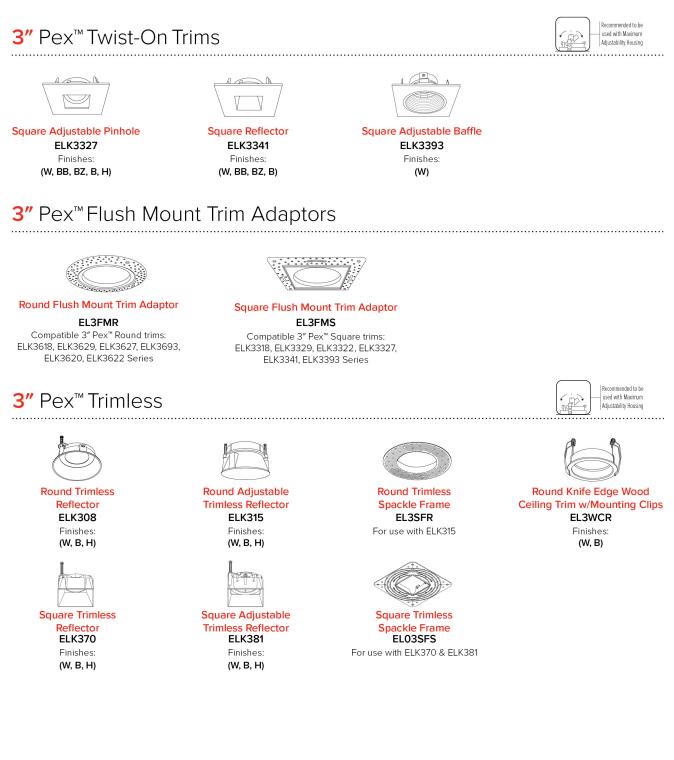
## 3″ Koto™ Dedicated LED ICA Housings



\*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

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





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)



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

## 4" Koto<sup>™</sup> Dedicated LED ICA Housings



4" ICA Maximum Adjustability Housing **New Construction** 

SPECIFICATIONS

Maximum Adjustability

CAT NO.

EL485ICA

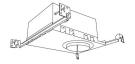


4" ICA Housing **New Construction** 

CAT NO. SPECIFICATIONS EL490ICA

EL490ICA-EM5 Emergency Battery Back-up (90 minutes)





4" R-60 Spray Foam Insulation Housing **New Construction** 

CAT NO.	SPECIFICATIONS
EL490AJICA	Maximum Adjustability, For use in R60 or Chicago plenum applications



4" ICA Housing Remodel

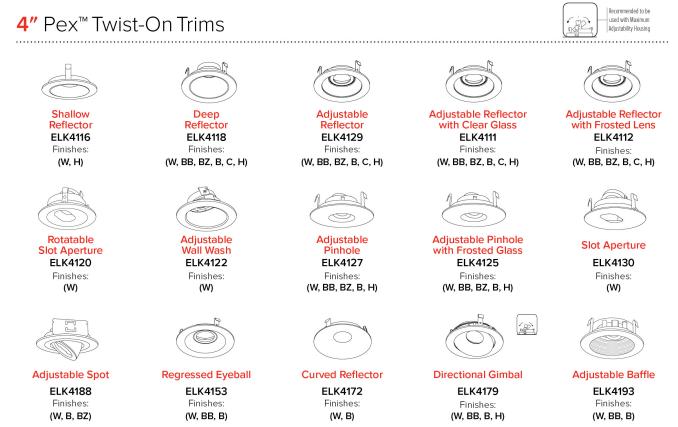
CAT NO. SPECIFICATIONS EL490RICA 14W, 120V



2-Hour Fire Rated 4" ICA Housing **New Construction** 

CAT NO. SPECIFICATIONS

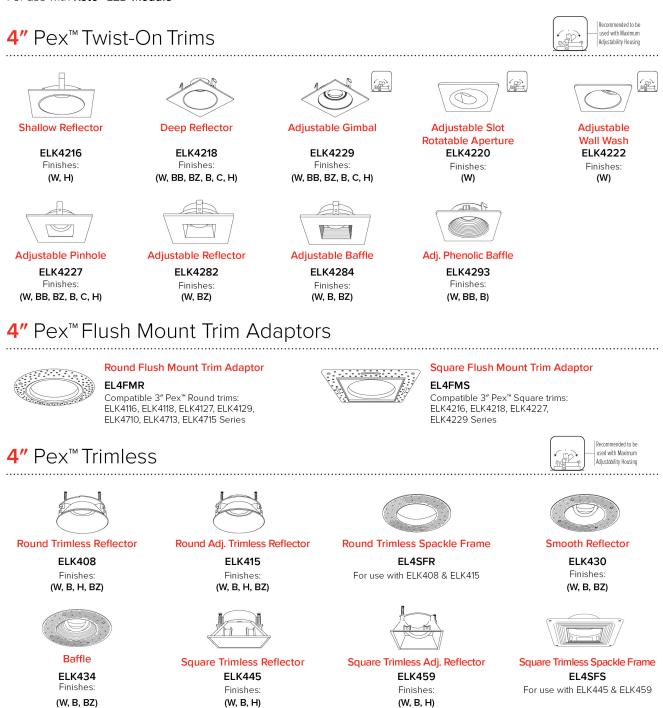
#### EL48FICA 7 1/2" Height, Sound Rated



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 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 Koto<sup>™</sup> LED Module

**Round Reflector** 

ELK4721

Finishes:

(WW, BB, BZBZ,

BW, CW, HW)

## **4″** Flexa™ Twist-On Trims



Round Baffle ELK4723 Finishes: (WW, BB, BZBZ, BW)



Square Reflector

ELK4741 Finishes: (WW, BB, BZBZ, BW, HW) \*Not for Remodel Housing



Square Baffle

ELK4743 Finishes: (WW, BB, BZBZ, BW)

\*Not for Remodel Housing



**EL** ELCO Lighting

Square Adj. Reflector ELK4759

> Finishes: (WW, BB, B, H)

\*Not for Remodel Housing

## **4**″ Unique<sup>™</sup> Twist-On Trims



### Round Adjustable Reflector

ELK4710 Finishes: (W, B, BZ)



Round Adj. Deep Baffle ELK4719 Finishes: (W)



#### Round Adjustable Baffle

ELK4713 Finishes: (W, BZ)



Square Reflector ELK4714 Finishes: (W, B, BZ) \*Not for Remodel Housing



Round Wall Wash

ELK4715 Finishes: (W, BZ)



Square Baffle ELK4716 Finishes: (W, BZ) \*Not for Remodel Housing



#### Round Adj. Deep Reflector

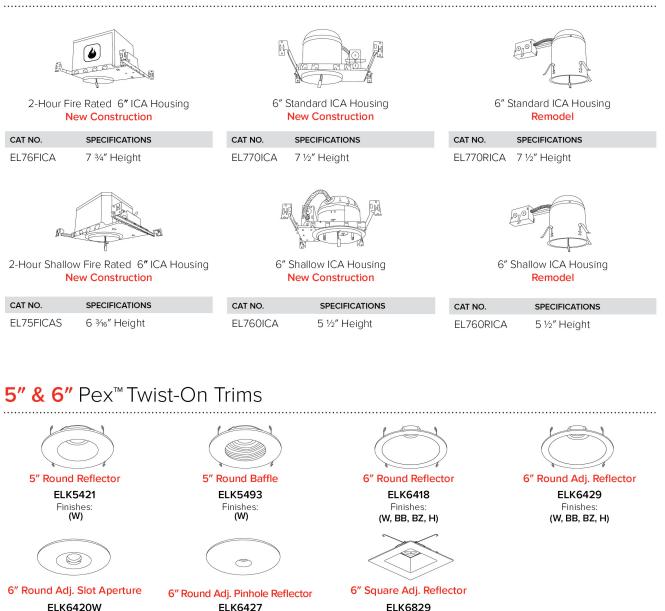
ELK4717 Finishes: (W, BZ)

\*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, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, H - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, CN - Chrome Reflector w/Nickel Ring, HW - Haze Reflector w/White Ring, HW - Haze



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

## 6" Koto™ Dedicated LED ICA Housings



Finishes: (W)

ELK6427 Finishes: (W, B, H)

ELK6829

Finishes: (W, BB, H)

\*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

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



## 6" Flexa<sup>™</sup> Twist-On Trims





6" Round Reflector ELK610 Finishes: (WW, BB, BZBZ, CC, BW, CW, HW)





ELK693 Finishes: (WW, BB, BZBZ, BW)

## 6" Unique™ Twist-On Trims



6" Round Reflector ELK6710

Finishes: (W, B, BZ)



6" Round Baffle ELK6713 Finishes: (W, BZ)



6" Round Wall Wash ELK6715 Finishes: (W, BZ)

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 ELK6710, ELK6713, ELK671



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

## 2″ Koto Sylo™ Build-Your-Own

EKS25PDW

EKS25PDB

EKS25PDS

2" Koto Sylo Housing Surface Mount				
CAT NO.	SPECIFICATIONS			
EKS25SFW	White Finish			
EKS25SFB	Black Finish			
EKS25SFS	Silver Finish			
R				



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2" Koto Sylo Housing Monopoint

CAT NO.	SPECIFICATIONS
EKS25MPW	White Finish
EKS25MPB	Black Finish
EKS25MPS	Silver Finish



2" Koto Sylo Housing Surface Mount

CAT NO.	SPECIFICATIONS
EKS25TRW	White Finish
EKS25TRB	Black Finish
EKS25TRS	Silver Finish

	2" Koto Sy Pen	lo Housing <mark>dant</mark>	2′
C	CAT NO.	SPECIFICATIONS	CAT NO.

White Finish

Black Finish

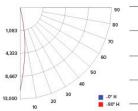
Silver Finish

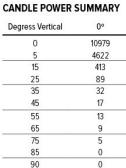
# Photometric Report

### 10° Koto<sup>™</sup> LED Module (Narrow Spot)

#### PHOTOMETRIC REPORT

Product #: ELK0830-NSP Wattage / Lumens: 15.8W / 871.4 Im Luminaire LPW: 55.1 lm/W





#### **ILLUMINANCE AT A DISTANCE**

Distance to Target Plane	Center Beam Footcandles	Beam Diameter	
4′	686	0.8′	
6'	305	1.2′	
8'	172	1.6′	
10'	110	2.0'	

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	783.9	90.2
0-40°	809.4	93.2
0-60°	836.1	96.2
0-90°	852.2	98.1



## Dimmer Compatibility Chart Standard Koto<sup>™</sup> LED Modules For ELK07, ELK08CT5, ELK09, ELK10CT5, ELK11 & ELK13 Series

### 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	1K35O2	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/ 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%
	Energi Savr Node LED+ Phase Adaptive, Commercial Application, Foward Phase, (Zone 1) (Zones 2-4)	QSN-4A5-S	10% - 97%
	RadioRA <sup>®</sup> 2, 120V, 50/60-Hz, 150W LED or 600W Incandescent/Halogen, 3-Way & 4-Way, Residential Application	RRD-6CL	10% - 95%
	RadioRA <sup>®</sup> 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) 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%
	HomeWorks® for LED/Incandescent/Halogen loads, Foward Phase, (Zone 1) (Zones 2-4)	LQSE-4A5-120-D	10% - 100%
	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%

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

Apple HomeKit

INSTEON

wemo

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Manufacturer	Product	Part Number	Dimmed Light Output Range
Lutron	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%
	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 <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%
SnapOne™	Control4 <sup>®</sup> Centralized 8-Channel Adaptive Phase Dimmer, 120/277V AC, 50/60-Hz, 200W LED, 500W Fluorescent/CFL, 1000W Incandescent/Halogen/ELV/MLV*	C4-DIN-8APD	5% - 100%
	Control4 <sup>®</sup> Centralized 8-Channel Forward Phase Dimmer, 100/120V AC, 50/60-Hz, 200W LED, 500W Fluorescent/CFL, 1000W Incandescent/Halogen/MLV*	C4-DIN-8FPD	25% - 100%
	Control4 <sup>®</sup> Wireless Adaptive Phase Dimmer, 120V AC, 50/60-Hz, 120W LED, 300W Fluorescent/CFL, 600W Incandescent/Halogen	C4-APD120	23% - 100%
	Control4 <sup>®</sup> Forward Phase Dimmer, 120V AC, 50/60-Hz, 200W LED, 500W Fluorescent/CFL, 1000W Incandescent/Halogen	C4-FPD120	4% - 100%
*MLV each transformer must be loaded to at least 50% of its maximum load	Control4 <sup>®</sup> Essential Forward Phase Dimmer, 120V AC, 60-Hz, 300W LED, 300W Fluorescent/CFL, 600W Incandescent/Halogen	C4-V-FPD120	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.

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