

Project name:

Fixture type:

Date:

Koto[™] LED Module

Works with 2", 3", 4", 5" & 6" Recessed Housings and Koto™ Trims



Features

- Integrated 120V Dimmable Driver Triac/ELV
- Excellent color rendering 95+ CRI
- Sunset Module ELK09SD & ELK11SD starts from 3000K and dims to 1800K
- Human Centric Module ELK11HC starts from 4000K and dims to 2200K
- Works in 2", 3", 4" and 6" ELCO housings with Koto™ twist-on
- Energy Star Certified
- Title 24 JA8-2019 Compliant
- 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), Clear Lens (L48), Frosted Lens (L49), Snoot (L50), Color Shifter (L51)
- 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. Standard lens is shaterproof.

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

Installation: Twist-lock design for toolless trim installation, for use with Koto[™] trims only. Can be use in 2["], 3["], 4["], 5["] and 6["] housings with quick connect base.

Electrical: Module connects to 120 power supply. High efficiency driver with a power factor >0.9. Start time of less than 0.75 seconds.

Operating Temperature: 0°F - 200°F of operating temperature.

Delivered Lumens: ELK0724 730 lm/2400K/10.5W ELK0727 770 lm/2700K/10.5W ELK0730 800 lm/3000K/10.5W ELK0735 830 lm/3500K/10.5W ELK0740 860 lm/4000K/10.5W

ELK0924 900 lm/2400K/10.5W ELK0927 940 lm/2700K/10.5W ELK0930 990 lm/3000K/10.5W ELK0935 1040 lm/3500K/10.5W ELK0940 1100 lm/4000K/10.5W ELK09SD 940 lm/Sunset/10.5W

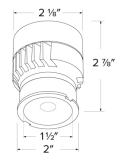
ELK1124 1060 lm/2400K/12.5W ELK1127 1100 lm/2700K/12.5W ELK1130 1150 lm/3000K/12.5W ELK1135 1200 lm/3500K/12.5W ELK1140 1260 lm/4000K/12.5W ELK115D 1050 lm/Sunset/12.5W ELK11HC 1050 lm/Human Centric/12.5W

ELK1327 1250 lm/2700K/12.5W **ELK1330** 1300 lm/3000K/12.5W **ELK1335** 1350 lm/3500K/12.5W **ELK1340** 1400 lm/4000K/12.5W

Specifications

Wattage	10.5W
Lumens	830 lm
Voltage	120V
Color Temp.	3500K
Dimmable	Triac/ELV
Lamp Type	LED
Beam Angle	38°
CRI	95
Wet Location	cUL Listed w/Wet Location Trim
Damp Location CUL Listed	

Dimensions



 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" in the Color Temperature (CCT) attribute. Dimmability: Works with 120V Triac and ELV type dimmers. Dims down to 5%. For full list of dimmers, refer 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. Meets Energy Star & California Title 24 JA8-2019 standards. Warranty: ELCO Products are built to last with a 5-year Limited Warranty. 	LED Technology: Extremely accurate Color Rendering Index 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 technology. No LED pixilation.	
refer 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. Meets Energy Star & California Title 24 JA8-2019 standards.	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" in the Color Temperature (CCT)	
Meets Energy Star & California Title 24 JA8-2019 standards.	refer to the Dimmer Compatibility List. Industry leading dimming that dims smoothly with no hot spots or	
Warranty: ELCO Products are built to last with a 5-year Limited Warranty.	5	-
	Warranty: ELCO Products are built to last with a 5-year Limited Warranty.	

Product Number Builder Example: ELK0724

Koto™ LED Module	Lumens	Color Temp.	Beam Angle
ELK			
	07 750 lm (10.5W)	24 2400K	
	09 950 lm (10.5W)	27 2700K	-S 18°
	11 1150 lm (12.5W)	30 3000K	-N 25°
	13 1350 lm (12.5W)	35 3500K	-W 60°
		40 4000K	
		SD Sunset ^{1, 2}	
		HC Human Centric ^{3, 4}	

¹ Available with ELK09 and ELK11 lumen outputs only

² Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

³ Available with ELK11 lumen outputs only

⁴ Human Centric, Dim to Warm technology, automatically transitions from 4000K to 2200K when dimmed

 $^{\scriptscriptstyle 5}$ 38° lens installed. Includes 25° and 60° 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.SPECIFICATIONSEL276ICAMaximum Adjustability

2" Pex™ Twist-On Trims



Round Deep Reflector

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



Square Adjustable Reflector

ELK2529 Finishes: (W, B, BB)



Square Gimbal ELK2588 Finishes: (W, BZ)



Round Adjustable Reflector

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



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



Round Adjustable Pinhole

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



Square Adjustable Pinhole

ELK2527 Finishes: (W, B, BB)



Square Deep Reflector

ELK2518 Finishes: (W, B, BB)

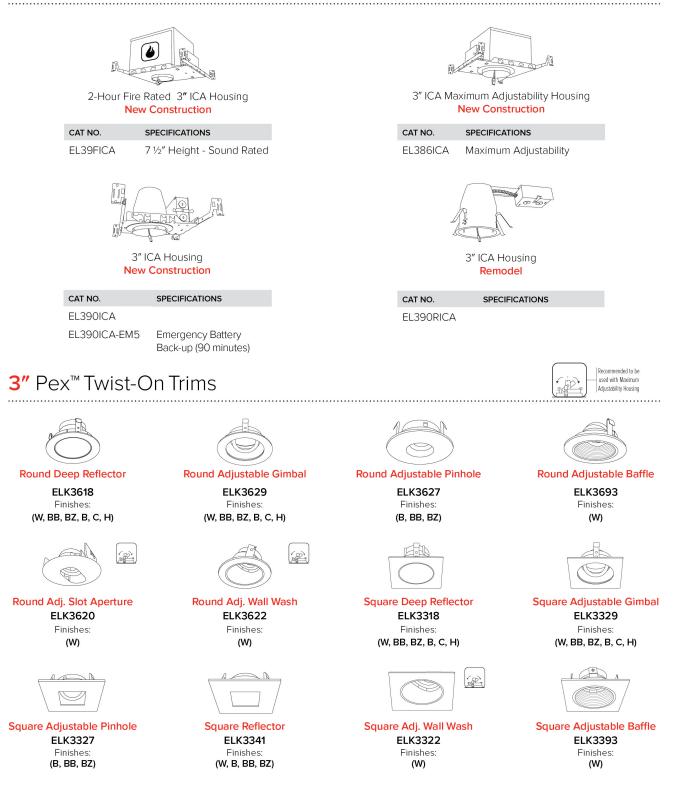


Round Gimbal ELK2888 Finishes: (W, B, BZ)



For use with Koto[™] LED Module

3″ Koto™ Dedicated LED ICA Housings





.....

For use with Koto[™] LED Module

3" Pex™ Trimless

• Only for use with EL386ICA

.....



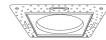
Spackle Frame

EL3SFR



3" Flush Mount Trim Adaptors





Round Flush Mount EL3FMR Square Flush Mount EL3FMS



.....

For use with Koto[™] LED Module

4″ Koto[™] Dedicated LED ICA Housings



4" ICA Maximum Adjustability Housing New Construction

SPECIFICATIONS

Maximum Adjustability

CAT NO.

EL485ICA

ousing	4″ ICA Housing
	New Construction

CAT NO.	SPECIFICATIONS
EL490ICA	14W, 120/277V
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

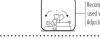
EL490RICA 14W, 120V



2-Hour Fire Rated 4" ICA Housing New Construction

CAT NO. SPECIFICATIONS

EL48FICA 7 1/2" Height, Sound Rated



Recommended to be used with Maximum Adjustability Housing

4" Pex[™] Round Twist-On Trims



Reflector ELK4118 Finishes: (W, BB, BZ, B, C, H)



Slot Aperture ELK4130 Finishes: (W)



Adjustable Gimbal

ELK4129 Finishes: (W, BB, BZ, B, C, H)



Rotatable Slot Aperture ELK4120 Finishes: (W)



Adjustable Pinhole

ELK4127 Finishes: (B, BB, BZ)



Adj. Wall Wash ELK4122 Finishes: (W)



Adjustable Baffle

ELK4193 Finishes: (W, BB, B)

For use with Koto[™] LED Module

4″ Pex™Square Twist-On Trims



Reflector

ELK4218 Finishes: (W, BB, BZ, B, C, H)



Adjustable Gimbal

ELK4229 Finishes: (W, BB, BZ, B, C, H)



Adj. Slot Rotatable Aperture ELK4220 Finishes: (W)



Adjustable Wall Wash ELK4222 Finishes: (W)

Adjustable Pinhole ELK4227

> Finishes: **(B, BB, BZ)**



Adjustable Reflector ELK4282 Finishes: (W)



Recommended to be

used with Maximum

EL ELCO Lighting



Adjustable Phenolic Baffle

ELK4293 Finishes: (W, BB, B)



Adjustable Baffle ELK4284 Finishes: (W)

4" Flexa™ Twist-On Trims



Round Reflector

ELK4721 Finishes: (WW, BB, BZBZ, BW, CC, CW, HW, CN)



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



```
Round Baffle
```

Finishes: (WW, BB, BZBZ, BW)



Square Baffle ELK4743 Finishes: (WW, BB, BZBZ, BW) *Not for Remodel Housing



Adjustable Square Reflector ELK4759 Finishes: (WW, BB, B, H)



For use with Koto[™] LED Module

4" Pex™ Trimless

Only for use with EL485ICA & EL490AJICA



Round Spackle Frame Only EL4SFR



Round Smooth Reflector

ELK408 Finishes: (W, B, BZ, H)



.....

Reflector ELK415 Finishes: (W, B, BZ, H)



Adjustable Reflector with Spackle Frame ELK430 Finishes: (W, B, BZ, H)



Sq. Spackle Frame EL4SFS



Adjustable Baffle with Spackle Frame ELK434 Finishes: (W, B, BZ)



Sq. Smooth Reflector ELK445 Finishes: (W, B, H)



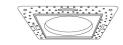
Sq. Adjustable Reflector ELK459 Finishes: (W, B, H)

4" Flush Mount Trim Adaptors



Round Flush Mount

EL4FMR For use with ELK41 & Unique™ Trims



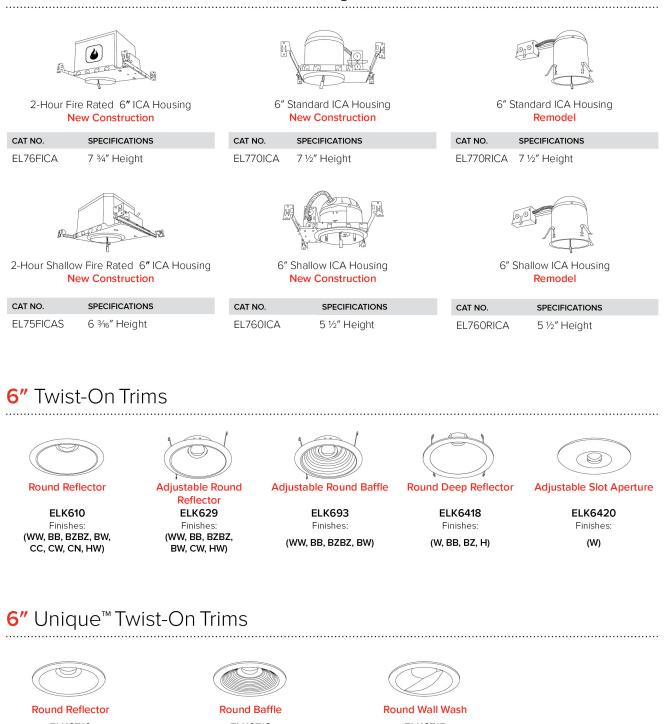
Square Flush Mount

EL4FMS For use with ELK42 Trims



For use with Koto[™] LED Module

6" Koto™ Dedicated LED ICA Housings



ELK6710 Finishes: (W, B, BZ) ELK6713 Finishes: (W, BZ)

ELK6715

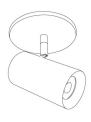
Finishes: (W, BZ)



For use with Koto[™] LED Module

2″ Koto Sylo™ Build-Your-Own

	Sylo Housing ce Mount
CAT NO.	SPECIFICATIONS
EKS25SFW	White Finish
EKS25SFB	Black Finish
EKS25SFS	Silver Finish



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

R	
The second secon	

2" Koto Sylo Housing Pendant

CAT NO.	SPECIFICATIONS
EKS25PDW	White Finish
EKS25PDB	Black Finish
EKS25PDS	Silver Finish

Photometric Report

Koto[™] LED Module

PHOTOMETRIC REPORT

Product #: ELK0730 Wattage / Lumens: 10.6W / 813.8 lm Luminaire LPW: 76.7 lm/W



CANDLE POWER SUMMARY

0°

PHOTOMETRIC REPORT

Product #: ELK0735 Wattage / Lumens: 10W / 947.4 Im Luminaire LPW: 95 lm/W



CANDLE POWER SUMMARY

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	74.1	3.2'
6'	32.9	4.8′
8'	18.5	6.4′
10′	11.9	8.0′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	580.1	71.3
0-40°	714.6	87.8
0-60°	797.0	98
0-90°	813.5	100

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	141	2.6′
6′	62.5	3.9'
8′	35.1	5.2'
10′	22.5	6.5′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	812.7	85.8
0-40°	876.7	92.6
0-60°	919.5	97.1
0-90°	936.3	98.9

PHOTOMETRIC REPORT

Product #: ELK0930 Wattage / Lumens: 10W / 972 Im Luminaire LPW: 97 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	1455
5	1397
15	1175
25	655
35	306
45	116
55	38
65	16
75	7
85	2
90	1

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter	
4'	90.9	3.1′	-
6'	40.4	4.7'	
8′	22.7	6.3'	
10′	14.5	7.8′	

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	685.9	70.6
0-40°	846.0	87.1
0-60°	946.8	97.5
0-90°	965.8	99.4

PHOTOMETRIC REPORT

Product #: ELK0935 Wattage / Lumens: 10W / 990.8 Im Luminaire LPW: 99 lm/W



CANDLE POWER SUMMARY

ILLUMINANCE AT A DISTANCE

22 22	Distance to Target Plane	Center Beam Footcandles	Beam Diameter	
-	4'	143	2.6′	_
	6'	63.8	3.9'	
_	8′	35.9	5.2'	
	10′	23.0	6.4′	

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire	
 0-30°	826.6	83.5	_
0-40°	890.6	89.9	
0-60°	937.1	94.6	_
 0-90°	962	97.1	_

Photometric Report

Koto[™] LED Module

PHOTOMETRIC REPORT

Product #: ELK09SD Wattage / Lumens: 10.9W / 605.1 lm Luminaire LPW: 55.5 lm/W



CANDLE POWER SUMMARY

CANDLE POWER SUMMARY

0°

0°

0°

Degress Vertical

Degress Vertical

Degress Vertical

CANDLE POWER SUMMARY

Product #: ELK1127 Wattage / Lumens: 12.5W / 1086.2 Im Luminaire LPW: 86.9 Im/W

PHOTOMETRIC REPORT



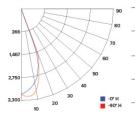
PHOTOMETRIC REPORT

Product #: ELK1130 Wattage / Lumens: 11.8W / 1162.5 lm Luminaire LPW: 98.5 lm/W



PHOTOMETRIC REPORT

Product #: ELK1135 Wattage / Lumens: 11.8W / 1210 lm Luminaire LPW: 102.5 lm/W



CANDLE POWER SUMMARY

Degress Vertical 0°

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	45.7	3.1′
6′	20.3	4.7′
8′	11.4	6.2'
10′	7.31	7.8′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	402.9	66.6
0-40°	510.3	84.4
0-60°	588.6	97.3
0-90°	601.9	99.5

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	100	3.2′
6′	44.6	4.8′
8′	25.1	6.4′
10′	16.1	7.9′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	757.2	70.6
0-40°	933.9	87.1
0-60°	1,045.2	97.5
0-90°	1,066.1	99.4

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	190	2.4′
6'	84.5	3.6′
8′	47.5	4.8′
10'	30.4	6.0′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire		
0-30°	997.9	85.9		
0-40°	1,064.7	91.6		
0-60°	1,125.3	96.9		
0-90°	1,161.6	100		

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	198	2.4′
6′	87.9	3.6′
8′	49.4	4.8′
10′	31.6	6.0′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	1,037.8	85.9
0-40°	1,107.3	91.6
0-60°	1,170.3	96.9
0-90°	1,208.1	100

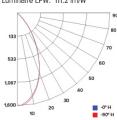
2042 E. Vernon Ave., Vernon, CA 90058 • Tel (323) 231-2600 Fax (323) 231-3200 • elcolighting.com © ELCO Lighting 2024. All rights reserved • Rev. 23 Apr 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.

Photometric Report

Koto[™] LED Module

PHOTOMETRIC REPORT

Product #: ELK1330 Wattage / Lumens: 11.8W / 1312.2 lm Luminaire LPW: 111.2 lm/W



CANDLE POWER SUMMARY Degress Vertical 0°

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter	
4'	98.4	4.0'	
6'	43.8		
8′	24.6	8.0'	
10′	45.0	10.0'	
	15.8 RY	10.0	
		%Luminaire	
NAL LUMEN SUMMA	RY		
DNAL LUMEN SUMMA	RY Lumens	%Luminaire	
Zone 0-30°	RY Lumens 879.8	%Luminaire 67.1	



Dimmer Compatibility Chart Standard Koto™ 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®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) 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

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

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 [®] 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	e: Google Assistant	儜 Apple HomeKit	INS	ΤΕ ΌΝ'	Support Support	LUTRON.	wemo
	2042 E. Vernon Ave. Ver	non CA 90058 Tel 32	3.231.2600	Fax 323.231.	.3200	elcolighting.com	