

Project name:	
Fixture type:	
Date:	

12V AC Retrofit Koto™ LED Module

Works with 3" and 4" ELCO 12V AC Housings with 3" and 4" Koto™ Trims as a retrofit option



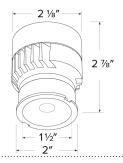
Features

- 9W, 800 lm, 3000K
- Integrated 12V AC Dimmable Driver
- Works with Electronic and Magnetic 12V AC
 transformers
- Works in 3" and 4" ELCO Low Voltage Housings with GU5.3 Base.
- Excellent color rendering 93+ CRI
- 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>), Clear Lens (<u>L48</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>), Single Asymmetric Lens (<u>L54</u>), Double Asymmetric Lens (<u>L55</u>)
- Title 24 JA8-2019 Compliant
- Meets Energy Star Requirements
- Covered by U.S. PATENTS and Patents Pending

Specifications

Wattage	9W
Lumens	800 lm
Voltage	12V AC
Color Temp.	SunsetK
Lamp Type	LED
Beam Angle	25°, 38°, 60°
CRI	90

Dimensions



Product Number

Item	Lamp type	Lumens	сст	Watts	Voltage	Beam Angle
ELK08SD-12	LED	800 lm	SunsetK	9W	12V AC	25°, 38°, 60°

Technical Details

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

Construction: Integrated 12V AC driver and light engine. Diecast aluminum body with heat fins allow for efficient cooling.

Installation: Twist-lock design for toolless trim installation. Works in 3″ and 4″ ELCO Low Voltage Housings with GU5.3 Base using 3″ and 4″ Koto™ Trims.

Electrical: Module connects to 12V AC 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 90+. 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.

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: Dims down to 10%. For full list of dimmers, refer to the Dimmer Compatibility List. Industry leading dimming.

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

Product Number Builder Example: ELK0827-12

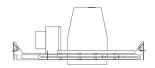
12V AC Retrofit Koto™ LED Module	Lumens	Color Temp.	Voltage
	1		
ELK			
	08 800 (9W)	27 2700K	-12 12V AC
		30 3000K	
		SD Sunset 1	

 $^{^{\}mathrm{1}}$ Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed



For use with Koto™ 12V AC Retrofit LED Light Engine

For Retrofitting 3" Bi-Pin 12V AC GU5.3 Housings



3" Low Voltage Housing **New Construction**



3" Low Voltage Housing Remodel



3" Low Voltage Housing **New Construction**

CAT NO.	SPECIFICATIONS
EL2699LDICA	Magnetic Transformer
EL2699LDICEA	Electronic Transformer
EL2699A	120V Magnetic Transformer
EL2699-277A	277V Magnetic Transformer
EL2699EA	120V Electronic Transformer

SPECIFICATIONS
Magnetic Transformer
Electronic Transformer
120V Magnetic Transformer
277V Magnetic Transformer
120V Electronic Transformer

CAT NO.	SPECIFICATIONS
EL2699ICA	Magnetic Transformer, 50W Max.
EL2699ICEA	Electronic Transformer, 50W Max.





used with Maximum



Round Deep Reflector

ELK3618 Finishes: (W, BB, BZ, B, C, H)



Round Adj. Wall Wash

(W)



ELK3622 Finishes:



Round Adjustable Baffle

ELK3693 Finishes: (W)



Square Adjustable Pinhole

ELK3327 Finishes: (W, BB, BZ, B, H)



Round Adjustable Gimbal

ELK3629 Finishes: (W, BB, BZ, B, C, H)



Round Regressed Eyeball

ELK3653 Finishes: (W, BB, B)



Square Deep Reflector

ELK3318 Finishes: (W, BB, BZ, B, C, H)



Square Reflector

ELK3341 Finishes: (W, BB, BZ, B)



Round Adjustable Pinhole

ELK3627 Finishes: (B, BB, BZ, B, H)



Round Curved Reflector

ELK3672 Finishes: (W, B)



Square Adjustable Reflector

ELK3329 Finishes: (W, BB, BZ, B, C, H)



Square Adjustable Baffle

ELK3393 Finishes: (W)



Round Adj. Slot Aperture

ELK3620 Finishes: (W)



Round Directional Gimbal

ELK3679 Finishes: (W, BB, B, H)



Square Adj. Wall Wash

ELK3322 Finishes: (W)

^{*}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™ 12V AC Retrofit LED Light Engine

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: (W, B, H)



Square Adjustable Trimless Reflector ELK381

Finishes: (W, B, H)



Round Trimless Spackle Frame

EL3SFRFor use with ELK315



Round Knife Edge Wood Ceiling Trim w/Mounting Clips

EL3WCR Finishes: (W, B)



Spackle Frame EL03SFS

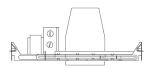
For use with ELK370 & ELK381

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)

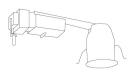


For use with Koto™ 12V AC Retrofit LED Light Engine

For Retrofitting 4" Bi-Pin 12V AC GU5.3 Housings



4" Low Voltage Housing **New Construction**



4" Low Voltage Housing Remodel



4" Low Voltage Housing **New Construction**

CAT NO.	SPECIFICATIONS
EL1499LDICA	Magnetic Transformer
EL1499LDICEA	Electronic Transformer
EL1499A	Magnetic Transformer, 50W
EL1499-277A	Magnetic Transformer, 50W
EL1499EA	Electronic Transformer, 50W

CAI NO.	SPECIFICATIONS
EL1499LDRICA	Magnetic Transformer
E1499LDRICEA	Electronic Transformer
EL1499RA	Magnetic Transformer
EL1499REA	Electronic Transformer

CAT NO.	SPECIFICATIONS
EL1499ICA	Magnetic Transformer, 50W
EL1499ICA-277	Magnetic Transformer, 50W
EL1499ICA-L	Magnetic Transformer, 50W
EL1499ICEA	Electronic Transformer, 50W

4" Pex[™] Twist-On Trims





Shallow Reflector ELK4116 Finishes: (W, H)



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



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



Adjustable Reflector with Clear Glass ELK4111

(W, BB, BZ, B, C, H)



with Frosted Lens ELK4112 Finishes: (W, BB, BZ, B, C, H)

Adjustable Reflector



Slot Aperture ELK4120 Finishes: (W)



Adjustable Wall Wash ELK4122 Finishes: (W)



Adjustable Pinhole ELK4127 Finishes: (W, BB, BZ, B, H)



Adjustable Pinhole with Frosted Glass ELK4125 Finishes:

(W, BB, BZ, B, H)



Slot Aperture ELK4130 Finishes: (W)



Adjustable Spot ELK4188 Finishes:

(W, B, BZ)



Regressed Eyeball ELK4153 Finishes:

(W, BB, B)



Curved Reflector ELK4172 Finishes:

(W, B)



Directional Gimbal ELK4179

Finishes:

(W, BB, B, H)





Adjustable Baffle

ELK4193 Finishes: (W, BB, B)

^{*}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™ 12V AC Retrofit LED Light Engine

4" Pex™ Twist-On Trims





Shallow Reflector

ELK4216 Finishes: (W, H)



Adjustable Pinhole

ELK4227 Finishes: (W, BB, BZ, B, C, H)



Deep Reflector

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



Adjustable Reflector

ELK4282 Finishes: (W, BZ)



Adjustable Gimbal

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



Adjustable Baffle

ELK4284 Finishes: (W, B, BZ)



Adjustable Slot Rotatable Aperture

ELK4220 Finishes: (W)



Adjustable Wall Wash ELK4222

Finishes: (W)



Adj. Phenolic Baffle

ELK4293 Finishes: (W, BB, B)

4" Pex™Flush Mount Trim Adaptors



Round Flush Mount Trim Adaptor

EL4FMR

Compatible 3" Pex™ Round trims: ELK4116, ELK4118, ELK4127, ELK4129, ELK4710, ELK4713, ELK4715 Series



Square Flush Mount Trim Adaptor

EL4FMS

Compatible 3" Pex™ Square trims: ELK4216, ELK4218, ELK4227, ELK4229 Series

4" Pex[™] Trimless



Recommended to be used with Maximum Adjustability Housing



Round Trimless Reflector

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



Baffle FI K434

Finishes: (W, B, BZ)



Round Adj. Trimless Reflector

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



Square Trimless Reflector ELK445

ELK445 Finishes: (W, B, H)



Round Trimless Spackle Frame

For use with ELK408 & ELK415



Square Trimless Adj. Reflector

ELK459 Finishes: (W, B, H)



Smooth Reflector

ELK430 Finishes: (W, B, BZ)



Square Trimless Spackle Frame EL4SFS

For use with ELK445 & ELK459

*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™ 12V AC Retrofit LED Light Engine

4" Flexa™ Twist-On Trims



Round Reflector

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



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



Square Adj. Reflector

ELK4759 Finishes:

(WW, BB, B, H)

*Not for Remodel Housing

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)

4" Unique™ 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



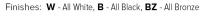
Round Wall Was

ELK4715 Finishes: (W, BZ)



Square Baffle

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





Round Adj. Deep Reflector

ELK4717 Finishes: (W, BZ)

Photometric Report

12V AC Retrofit Koto™ LED Module

PHOTOMETRIC REPORT **CANDLE POWER SUMMARY** Product #: ELK0830-12 Degress Vertical Wattage / Lumens: 10W / 971.7 lm Luminaire LPW: 97 lm/W

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter	
4′	103.3	3.1′	_
6′	36.4	4.7′	
8′	18.7	6.3'	
10′	12.6	7.8′	

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire	
0-30°	565.3	70.6	_
0.40°	697.3	87.1	
0-60°	780.3	97.5	
0-90°	796.0	99.4	