ELCO Lighting

12V AC Retrofit Koto™ LED Module

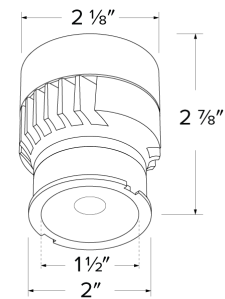Works with 3″ and 4″ ELCO 12V AC Housings with 3" and 4" Koto™ Trims as a retrofit option

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 (L45), Linear Lens (L46), Spread Lens (L47), Clear Lens (L48), Frosted Lens (L49), Color Shifter (L50)
- 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.	2700K - SunsetK
Lamp Type	LED
Beam Angle	25°, 38°, 60°
CRI	90

Dimensions

2 ⅛″

2 ⅞″

1½″

2″

Product Numbers

Item	Lamp type	Lumens	CCT	Watts	Voltage	Beam Angle
ELK0827-12	LED	800 lm	2700K	9W	12V AC	25°, 38°, 60°
ELK0830-12	LED	800 lm	3000K	9W	12V AC	25°, 38°, 60°
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 pixalation.

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
ELK			

08 800

27 2700K
30 3000K
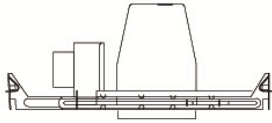**SD** Sunset [1]

-12 12V AC

[1] Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed
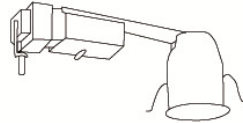
Compatible Products
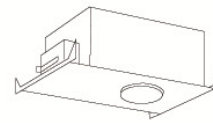
For use with **Koto™ 12V AC Retrofit LED Light Engine**

ELCO Lighting

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

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

3" Low Voltage Housing
Remodel

CAT NO.	SPECIFICATIONS
EL2699LDRICA	Magnetic Transformer
EL2699LDRICEA	Electronic Transformer
EL2699RA	120V Magnetic Transformer
EL2699R-277A	277V Magnetic Transformer
EL2699REA	120V Electronic Transformer

3" Low Voltage Housing
New Construction

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

3" Pex™ Twist-&-Lock Trims

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

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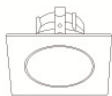ELK3629
Finishes:
(W, BB, BZ, B, C, H)

Round Adjustable Pinhole
ELK3627
Finishes:
(B, BB, BZ)

Round Adjustable Baffle
ELK3693
Finishes:
(W)

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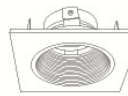Finishes:
(W, BB, BZ, B, C, H)

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

Square Adjustable Pinhole
ELK3327
Finishes:
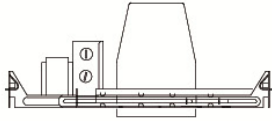(B, BB, BZ)

Square Adjustable Baffle
ELK3393
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
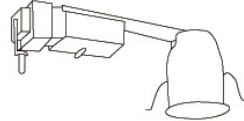
Compatible Products
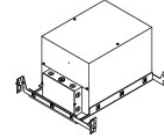
ELCO Lighting

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

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

4" Low Voltage Housing
Remodel

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

4" Low Voltage Housing
New Construction

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

4" Twist-&-Lock Trims

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

Pex™ Adjustable Gimbal
ELK4129
Finishes:
(W, BB, BZ, B, C, H)

Pex™ Adjustable Pinhole
ELK4127
Finishes:
(B, BB, BZ)

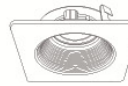**Pex™ Adjustable Baffle**
ELK4193
Finishes:
(W, BB, B)

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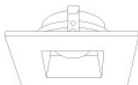ELK4218
Finishes:
(W, BB, BZ, B, C, H)

Pex™ Adjustable Gimbal
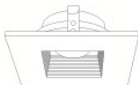ELK4229
Finishes:
(W, BB, BZ, B, C, H)

Pex™ Adjustable Pinhole
ELK4227
Finishes:
(B, BB, BZ)

Pex™ Adjustable Phenolic Baffle
ELK4293
Finishes:
(W, BB, B)

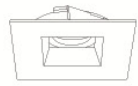**Pex™ Adjustable Reflector**
ELK4282
Finishes:
(W)

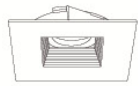**Pex™ Adjustable Baffle**
ELK4284
Finishes:
(W)

Flexa™ Round Reflector
ELK4721
Finishes:
(WW, BB, BZBZ, BW, CC, CW, HW, CN)

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

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

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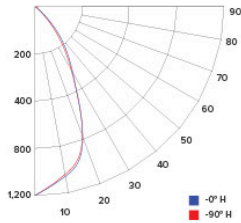Finishes:
(WW, BB, BZBZ, BW)
Not for Remodel Housing

*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

Photometric Report

12V AC Retrofit Koto™ LED Module

PHOTOMETRIC REPORT

Product #: ELK0830-12
Wattage / Lumens: 10W / 971.7 lm
Luminaire LPW: 97 lm/W

CANDLE POWER SUMMARY

Degress Vertical	0°
0	1199
5	1152
15	968
25	540
35	252
45	95
55	31
65	13
75	6
85	2
90	1

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