24V DC Koto™ LED Module

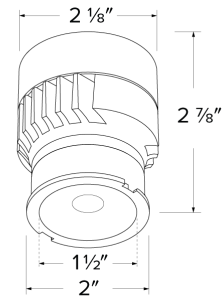Works with 2″, 3″ & 4″ Koto™ 24V DC Recessed Housings and Koto™ Trims

Features

- 10W, 800 lm, 2700K, 24V DC input
- Integrated 24V DC Dimmable Driver for low voltage and PoE applications
- 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)
- Works in 2″, 3″, 4″, 5" & 6" ELCO Koto DC housings with Koto™ twist-&-lock trims
- Excellent color rendering 90+ CRI
- Title 24 JA8-2022 Compliant
- Meets Energy Star Requirements
- 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 24V DC driver. Diecast aluminum body with heat fins allows for efficient cooling.

Installation: Twist-lock design for toolless trim installation.

Electrical: Module connects to 24V DC power supply. High-efficiency driver with a power factor >0.9. Start time of less than 0.75 seconds. PoE ready.

LED Technology: Extremely accurate Color Rendering Index of 95+. Lumen Maintenance 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 pixelation.

Dimmability: Dimming based on power supply.

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

Specifications

Wattage	10W
Lumens	800 lm
Voltage	24V DC
Color Temp.	2700K - 3000K
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
ELK0827-24	LED	800 lm	2700K	10W	24V DC	25°, 38°, 60°
ELK0830-24	LED	800 lm	3000K	10W	24V DC	25°, 38°, 60°

Product Number Builder   Example: **ELK0827-24**

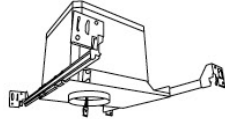| 24V DC Koto™ LED Module	Lumens	Color Temp.	Voltage
ELK			

08 800

27 2700K
30 3000K

-24 24V DC

Compatible Products

For use with **24V DC Koto™ LED Module**

2″ Koto™ Dedicated LED ICA Housings (24V DC Input)

24V DC 2″ ICA Maximum Adjustability Housing
New Construction

CAT NO.	SPECIFICATIONS
E24V276ICA	Maximum Adjustability

2″ Pex™ Twist-On Trims

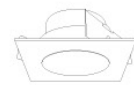**Round Deep Reflector**
ELK2818
Finishes:
(W, B, H, BB, BZ)

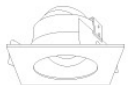**Round Adjustable Reflector**
ELK2829
Finishes:
(W, B, H, BB, BZ)

Round Adjustable Pinhole
ELK2827
Finishes:
(W, B, BB, BZ)

Square Deep Reflector
ELK2518
Finishes:
(W, B, BB)

Square Adjustable Reflector
ELK2529
Finishes:
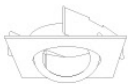(W, B, BB)

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

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

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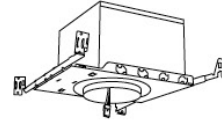

Square Gimbal
ELK2588
Finishes:
(W, BZ)

Compatible Products

ELCO Lighting

3″ Koto™ Dedicated LED ICA Housings (24V DC Input)

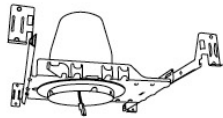**24V DC 2-Hour Fire Rated 3″ ICA Housing**
New Construction

CAT NO.	SPECIFICATIONS
E24V39FICA	7 ½″ Height - Sound Rated

24V DC 3″ ICA Maximum Adjustability Housing
New Construction

CAT NO.	SPECIFICATIONS
E24V386ICA	Maximum Adjustability

24V DC 3″ ICA Housing
New Construction

CAT NO.	SPECIFICATIONS
E24V390ICA	

24V DC 3″ ICA Housing
Remodel

CAT NO.	SPECIFICATIONS
E24V390RICA	

3″ Pex™ Twist-On Trims

Recommended to be used with Maximum Adjustability Housing

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:
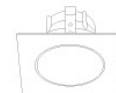(B, BB, BZ)

Round Adjustable Baffle
ELK3693
Finishes:
(W)

Round Adj. Slot Aperture
ELK3620
Finishes:
(W)

Round Adj. Wall Wash
ELK3622
Finishes:
(W)

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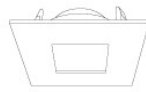Finishes:
(W, BB, BZ, B, C, H)

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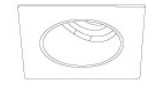ELK3329
Finishes:
(W, BB, BZ, B, C, H)

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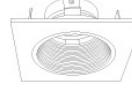ELK3327
Finishes:
(B, BB, BZ)

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

Square Adj. Wall Wash
ELK3322
Finishes:
(W)

Square Adjustable Baffle
ELK3393
Finishes:
(W)

Compatible Products

For use with **24V DC Koto™ LED Module**

3" Pex™ Trimless   ·   *Only for use with E24V386ICA*

Spackle Frame
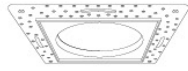
EL3SFR

Adjustable Trimless Reflector

ELK315
Finishes:
(W, B, H)

3" Flush Mount Trim Adaptors
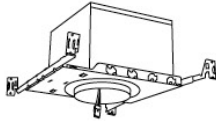

Round Flush Mount

EL3FMR

Square Flush Mount

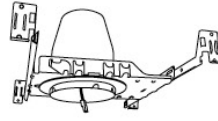**EL3FMS**

Compatible Products

For use with **24V DC Koto™ LED Module**
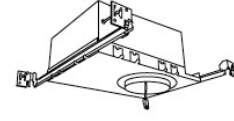
4" Koto™ Dedicated LED ICA Housings (24V DC Input)

24V DC 4" ICA Maximum Adjustability Housing
New Construction

CAT NO.	SPECIFICATIONS
E24V485ICA	Maximum Adjustability

24V DC 4" ICA Housing
New Construction

CAT NO.	SPECIFICATIONS
E24V490ICA	

24V DC 4" R-60 Spray Foam Insulation
New Construction Housing

CAT NO.	SPECIFICATIONS
E24V490AJICA	Maximum Adjustability, For use in R60 or Chicago plenum applications

24V DC 4" ICA Housing
Remodel

CAT NO.	SPECIFICATIONS
E24V490RICA	

24V DC 2-Hour Fire Rated 4" ICA Housing
New Construction

CAT NO.	SPECIFICATIONS
E24V48FICA	7 ½" Height Sound Rated

4" Pex™ Round Twist-On Trims

 Recommended to be used with Maximum Adjustability Housing

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

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

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

Adjustable Baffle
ELK4193
Finishes:
(W, BB, B)

Slot Aperture
ELK4130
Finishes:
(W)

Rotatable Slot Aperture
ELK4120
Finishes:
(W)

Adj. Wall Wash
ELK4122
Finishes:
(W)

Compatible Products

For use with **24V DC Koto™ LED Module**

4” Pex™ Square Twist-On Trims

Recommended to be used with Maximum Adjustability Housing

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

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

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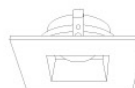ELK4227
Finishes:
(B, BB, BZ)

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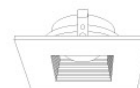ELK4293
Finishes:
(W, BB, B)

Adj. Slot Rotatable Aperture
ELK4220
Finishes:
(W)

Adjustable Wall Wash
ELK4222
Finishes:
(W)

Adjustable Reflector
ELK4282
Finishes:
(W)

Adjustable Baffle
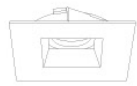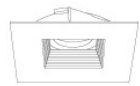ELK4284
Finishes:
(W)

4” Flexa™ Twist-On Trims

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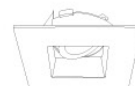(WW, BB, BZBZ, BW, CC, CW, HW, CN)

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

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

Compatible Products

For use with **24V DC Koto™ LED Module**

ELCO Lighting

4” Pex™ Trimless · *Only for use with E24V485ICA & E24V490AJICA*

Round Spackle Frame Only
EL4SFR

Round Smooth Reflector
ELK408
Finishes:
(W, B, BZ, H)

Round Adjustable Reflector
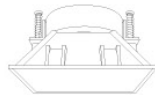**ELK415**
Finishes:
(W, B, BZ, H)

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

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

Sq. Spackle Frame
EL4SFS

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
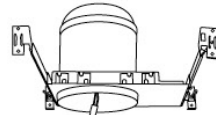**EL4FMS**
For use with
ELK42 Trims

Compatible Products

ELCO Lighting

6" Koto™ Dedicated LED ICA Housings (24V DC Input)

24V DC 2-Hour Fire Rated 6" ICA Housing
New Construction

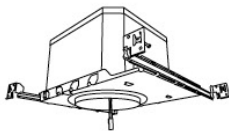| CAT NO.	SPECIFICATIONS
E24V76FICA	7 ¾" Height

24V DC 6" Standard ICA Housing
New Construction

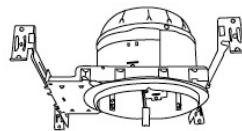| CAT NO.	SPECIFICATIONS
E24V770ICA	7 ½" Height
E24V770ICA-EM5	Battery Backup, 24W MAX.

24V DC 6" Standard ICA Housing
Remodel

CAT NO.	SPECIFICATIONS
E24V770RICA	7 ½" Height

24V DC 2-Hour Shallow Fire Rated 6" ICA
New Construction Housing

CAT NO.	SPECIFICATIONS
E24V75FICAS	6 ³⁄₁₆" Height

24V DC 6" Shallow ICA Housing
New Construction

CAT NO.	SPECIFICATIONS
E24V760ICA	5 ½" Height
E24V760ICA-EM5	Battery Backup, 24W MAX.

24V DC 6" Shallow ICA Housing
Remodel

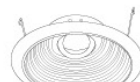| CAT NO.	SPECIFICATIONS
E24V760RICA	5 ½" Height

6" Twist-On Trims

Round Reflector

ELK610
Finishes:
(WW, BB, BZBZ, BW,
CC, CW, CN, HW)

Adjustable Round Reflector

ELK629
Finishes:
(WW, BB, BZBZ,
BW, CW, HW)

Adjustable Round Baffle

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

Round Deep Reflector

ELK6418
Finishes:
(W, BB, BZ, H)

Adjustable Slot Aperture

ELK6420
Finishes:
(W)

6" Unique™ Twist-On Trims

Round Reflector

ELK6710
Finishes:
(W, B, BZ)

Round Baffle

ELK6713
Finishes:
(W, BZ)

Round Wall Wash

ELK6715
Finishes:
(W, BZ)

Compatible Products

For use with **24V DC Koto™** LED Module

24V DC Transformers

Electronic Low Voltage
Dimmable Driver

CAT NO.	SPECIFICATIONS
DRVE24V60W	60W, 120V Input

Constant Voltage
LED Driver

CAT NO.	SPECIFICATIONS
DRV60W	60W, 120/277V Input
DRV100W	100W, 120/277V Input

0-10V
Dimmable Driver

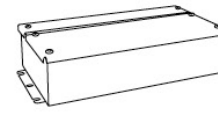| CAT NO.	SPECIFICATIONS
DRV30W-10	30W, 120/277V Input
DRV60W-10	60W, 120/277V Input
DRV96W-10	96W, 120/277V Input

Lutron™ Hi-Lume 1%
LED Driver

CAT NO.	SPECIFICATIONS
DRVLT40W	40W, Triac, 120/277V
DRVLT340W	40W, Lutron Ecosystem, 120/277V

Lutron™ Hi-Lume Premiere 0.1%
Dimming LED Driver

CAT NO.	SPECIFICATIONS
DRVL396W	96W, Lutron Ecosystem, 120/277V Input

Universal (Small)
Dimming LED Driver

CAT NO.	SPECIFICATIONS
DRVU24V24WD	24W, 24V DC (1A), Triac/ELV/MLV
DRVU24V60WD	60W, 24V DC (2.5A), Triac/ELV/MLV

Universal (Medium)
Dimming LED Driver

CAT NO.	SPECIFICATIONS
DRVU24V100WD	100W, 24V DC (4A), Triac/ELV/MLV

Universal (Large)
Dimming LED Driver

CAT NO.	SPECIFICATIONS
DRVU24V200WD	200W, 24V DC (8A), Triac/ELV/MLV

Universal (X-Large)
Dimming LED Driver

CAT NO.	SPECIFICATIONS
DRVU24V300WD	300W, 24V DC (12A), Triac/ELV/MLV
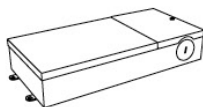
Electronic (Large)
Dimming LED Driver

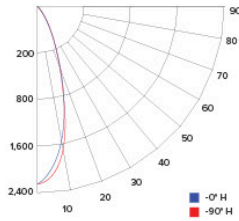| CAT NO.	SPECIFICATIONS
DRVE24V48DW	48W, 24V DC (2A), Triac
DRVE24V60DW	60W, 24V DC (2.5A), Triac
DRVE24V96DW	96W, 24V DC (4A), Triac

Dimmer
with Built-in Driver

CAT NO.	SPECIFICATIONS
DIMTP2	60W, 120V
DIMTP3	100W, 120V

Photometric Report

24V DC Koto™ LED Module

PHOTOMETRIC REPORT

Product #: ELK0827-24 (36°)
Wattage / Lumens: 10W / 860.2 lm
Luminaire LPW: 86 lm/W

CANDLE POWER SUMMARY

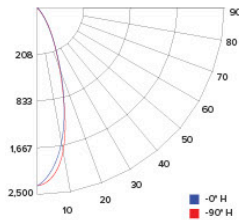| Degress Vertical	0°
0	2329
5	2082
15	1212
25	301
35	61
45	35
55	22
65	12
75	5
85	0
90	0

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	146	2.4'
6'	64.7	3.5'
8'	36.4	4.7'
10'	23.3	5.9'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	754.8	87.3
0-40°	806.2	93.2
0-60°	850.3	98.3
0-90°	864.6	100

PHOTOMETRIC REPORT

Product #: ELK0830-24 (36°)
Wattage / Lumens: 10W / 901.2 lm
Luminaire LPW: 90.1 lm/W

CANDLE POWER SUMMARY

Degress Vertical	0°
0	2426
5	2169
15	1262
25	314
35	64
45	37
55	23
65	12
75	6
85	0
90	0

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	152	2.4'
6'	67.4	3.5'
8'	37.9	4.7'
10'	24.3	5.9'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	786.2	87.3
0-40°	839.8	93.2
0-60°	885.7	98.3
0-90°	900.6	100