

Tunable White Koto™ LED Module

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



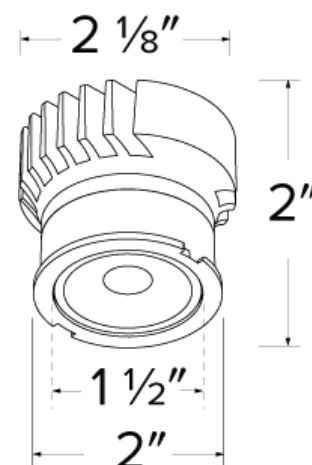
Features

- Driver on housing extends lifespan and allows for more dimming options and applications
- Includes Standard 38° lens, with 28° and 60° lenses. Optional: 15°, 18°, 90° lens available
- Optional: Louver (L45), Linear Lens (L46), Spread Lens (L47), Clear Lens (L48), Frosted Lens (L49), White Koto Snoot (L50W), Black Koto Snoot (L50B), Color Shifter (L51), Blue Lens (L52), Pink Lens (L53), Single Asymmetric Lens (L54), Double Asymmetric Lens (L55)
- Works in 2", 3" and 4" ELCO Tunable White housings with Koto™ twist-On trims
- Excellent color rendering 95+ CRI throughout white tuning
- Title 24 JA8 2019 Registered
- Life span of 50,000 hours L70
- Covered by U.S. PATENTS and Patents Pending
- Damp location rated and wet location rated for wet location trims

Specifications

Color Temp.	1800K - 4000K - 2700K - 6500K
Lamp Type	LED
Beam Angle	38° - 90°
CRI	95
Wet Location	Rated for wet location trims
Damp Location	Rated

Dimensions



Technical Details

Optics: PC lens diffuses light evenly throughout while reducing glare with LED COB technology.

Construction: Diecast aluminum body with heat fins allow for efficient cooling.

Compatible Housings: Koto™ Module is compatible with Tunable White Housings: 120/277V AC/50-60Hz universal input voltage.

Installation: Twist-On design for toolless trim installation, for use with Koto™ trims only. Can be used in 2", 3" & 4" Tunable White Koto™ Housings only.

LED Technology: Extremely accurate Color Rendering Index (CRI) 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. No LED pixelation.

Dimmability: Based on housing dimmer used.

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

Product Numbers

Item	Lamp type	CCT	Beam Angle
ELK19TWD	LED	2700K - 6500K	38°
ELK19T41D	LED	1800K - 4000K	38°
ELK19TWD-E	LED	2700K - 6500K	90°
ELK19T41D-E	LED	1800K - 4000K	90°

Product Number Builder

Example: ELK19TWD

Tunable White Koto™ LED Module	Color Temperature	Beam Spread	Optional Accessory
ELK19	TWD2700K - 6500K T41D1800K - 4000K	38º lens -S18º lens -N25º lens -W60º lens -E90º lens¹	Standard L45Hex Louver L46Linear Lens L47Spread Lens L49Frosted Diffuser L51Color Shifter L50WWhite Snoot L50BBlack Snoot

¹ 90° Frosted Reflector

Compatible Products

For use with Dedicated 3" & 4" Koto Tunable White Housings



Control Modules Features

- Requires control ready housing
- Seamless device commissioning
- Rules setting and supervision
- Data gathering on usage, locations, users, time of day
- Automation based on users and sensors
- Firmware updates over the air
- Customizable and integration-ready APIs
- Control module required per housing

Wireless Control Modules for Tunable White Koto™



Technology Partner
SILVIAIR  

ETW3SL

- iOS app and web portal interface options
- Energy usage monitoring
- Ecosystem with sensors, switches



WIZ    
CONNECTED

ETW3WZ

- iOS app, Android app, and web portal interface options
- Predictive Maintenance
- Ecosystem with sensors and switches, lamps and luminaires



WISILICA   

ETW3WS

- iOS app, Android app, and web portal interface options
- Energy usage monitoring
- Predictive Maintenance
- Ecosystem with sensors, switches, gateways

Wired Control Protocol for Tunable White Koto™

**Wired control devices required*



ETW3DL

- DALI-2 DT8 certified
- Two-channel control of color temperature and intensity
- Commission and manage lighting fixtures via DALI2 DT8 certified controller



ETW310V

- 0-10V Control Module is compatible with industry standard 0-10V, 1-10V current sourcing or current sinking wired control devices. The Control Module provides for two-channel control of color temperature and intensity

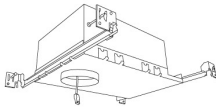
Requires Control Ready Housing Option. One Control module required per housing
*Control Modules Order Separately

Compatible Products



For use with **Tunable White Koto™ LED Module**

2" Tunable White Koto™ Dedicated LED ICA Housings



2" Tunable White Koto™ IC Airtight Housing
Shallow New Construction

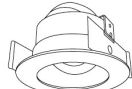
CAT NO.	SPECIFICATIONS
E21KT10ICAD	1000 lm, 14W, 120/277V AC
E21KT12ICAD	1250 lm, 18.3W, 120/277V AC

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)



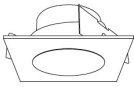
Round Adjustable Pinhole

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



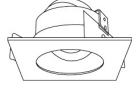
Round Curved Reflector

ELK2872
Finishes:
(W, B*)



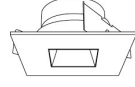
Square Deep Reflector

ELK2518
Finishes:
(W, B, BB)



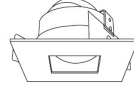
Square Adjustable Reflector

ELK2529
Finishes:
(W, B, BB)



Square Reflector

ELK2541
Finishes:
(W, B, BB)



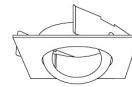
Square Adjustable Pinhole

ELK2527
Finishes:
(W, B, BB)



Round Gimbal

ELK2888
Finishes:
(W, B*, BZ)



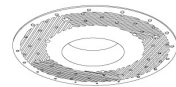
Square Gimbal

ELK2588
Finishes:
(W, B*, BZ)



Round Adj. Trimless Reflector

ELK215
Finishes:
(W, B*)



Trimless Spackle Frame

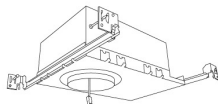
EL2SFR
For use with ELK215

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, & ELK215)

Compatible Products

For use with **Tunable White Koto™ LED Module**

3" Tunable White Koto™ Dedicated LED ICA Housings



3" Tunable White Koto™ IC Airtight Housing
New Construction

CAT NO.	SPECIFICATIONS
E35KT10ICAD	1000 lm, 14W, 120/277V AC
E35KT12ICAD	1250 lm, 18.3W, 120/277V AC

3" Pex™ Twist-On 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, B, H)



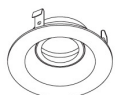
Round Adj. Slot Aperture

ELK3620
Finishes:
(W)



Round Adj. Wall Wash

ELK3622
Finishes:
(W)



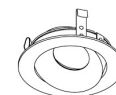
Round Regressed Eyeball

ELK3653
Finishes:
(W, BB, B)



Round Curved Reflector

ELK3672
Finishes:
(W, B)



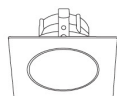
Round Directional Gimbal

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



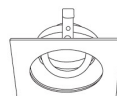
Round Adjustable Baffle

ELK3693
Finishes:
(W)



Square Deep Reflector

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



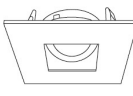
Square Adjustable Reflector

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



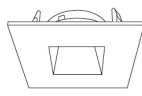
Square Adj. Wall Wash

ELK3322
Finishes:
(W)



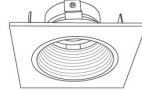
Square Adjustable Pinhole

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



Square Reflector

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



Square Adjustable Baffle

ELK3393
Finishes:
(W)

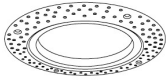
*Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black Reflector w/White Ring, **C** - Chrome Reflector w/White Ring, **H** - Haze Reflector w/White Ring

Compatible Products

For use with Tunable White Koto™ LED Module



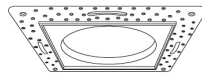
3" Pex™ Flush Mount Trim Adaptors



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



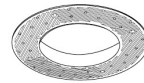
Round Trimless
Reflector
ELK308

Finishes:
(W, B, H)



Round Adjustable
Trimless Reflector
ELK315

Finishes:
(W, B, H)



Round Trimless
Spackle Frame
EL3SFR

For use with ELK315



Round Knife Edge Wood
Ceiling Trim w/Mounting Clips
EL3WCR

Finishes:
(W, B)



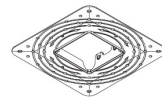
Square Trimless
Reflector
ELK370

Finishes:
(W, B, H)



Square Adjustable
Trimless Reflector
ELK381

Finishes:
(W, B, H)



Square Trimless
Spackle Frame
EL03SFS

For use with ELK370 & ELK381

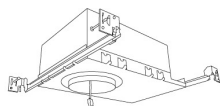
Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black w/White Ring, **C** - Chrome w/White Ring, **H** - Haze w/White Ring, **B*** - All Black (For ELK315, ELK370, & ELK381)

Compatible Products



For use with **Tunable White Koto™ LED Module**

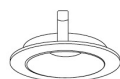
4" Koto™ Dedicated LED ICA Housings



4" Tunable White Koto™ IC Airtight Housing
New Construction

CAT NO.	SPECIFICATIONS
E45KT10ICAD	1000 lm, 14W, 120/277V AC
E45KT12ICAD	1250 lm, 18.3W, 120/277V AC

4" Pex™ Twist-On Trims



Shallow Reflector
ELK4116
Finishes:
(W, H)



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



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



Adjustable Reflector with Clear Glass
ELK4111
Finishes:
(W, BB, BZ, B, C, H)



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



Rotatable Slot Aperture
ELK4120
Finishes:
(W)



Adjustable Wall Wash
ELK4122
Finishes:
(W)



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



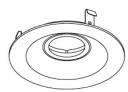
Adjustable Pinhole with Frosted Glass
ELK4125
Finishes:
(W, BB, BZ, B, H)



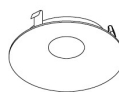
Slot Aperture
ELK4130
Finishes:
(W)



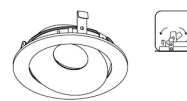
Adjustable Spot
ELK4188
Finishes:
(W, B, BZ)



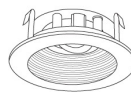
Regressed Eyeball
ELK4153
Finishes:
(W, BB, B)



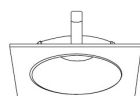
Curved Reflector
ELK4172
Finishes:
(W, B)



Directional Gimbal
ELK4179
Finishes:
(W, BB, B, H)



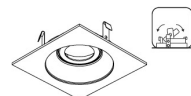
Adjustable Baffle
ELK4193
Finishes:
(W, BB, B)



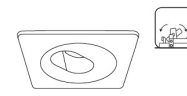
Shallow Reflector
ELK4216
Finishes:
(W, H)



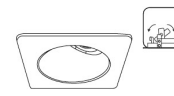
Deep Reflector
ELK4218
Finishes:
(W, BB, BZ, B, C, H)



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



Adjustable Slot Rotatable Aperture
ELK4220
Finishes:
(W)



Adjustable Wall Wash
ELK4222
Finishes:
(W)

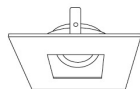
Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black w/White Ring, **C** - Chrome w/White Ring, **H** - Haze w/White Ring, **B*** - All Black (For ELK4188, ELK4172, & ELK4284)

Compatible Products



For use with Tunable White Koto™ LED Module

4" Pex™ Twist-On Trims

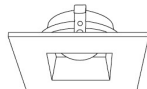


Adjustable Pinhole

ELK4227

Finishes:

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

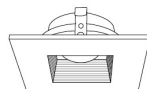


Adjustable Reflector

ELK4282

Finishes:

(W, BZ)

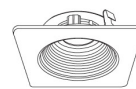


Adjustable Baffle

ELK4284

Finishes:

(W, B, BZ)



Adj. Phenolic Baffle

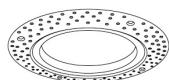
ELK4293

Finishes:

(W, BB, B)

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)

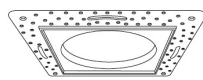
4" Pex™ Flush Mount Trim Adaptors



Round Flush Mount Trim Adaptor

EL4FMR

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

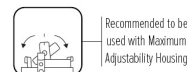


Square Flush Mount Trim Adaptor

EL4FMS

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

4" Pex™ Trimless



Round Trimless Reflector

ELK408

Finishes:

(W, B, H, BZ)

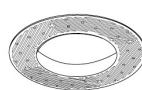


Round Adj. Trimless Reflector

ELK415

Finishes:

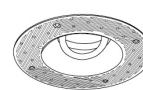
(W, B, H, BZ)



Round Trimless Spackle Frame

EL4SFR

For use with ELK408 & ELK415

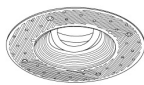


Smooth Reflector

ELK430

Finishes:

(W, B, BZ)

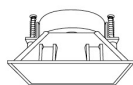


Baffle

ELK434

Finishes:

(W, B, BZ)

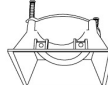


Square Trimless Reflector

ELK445

Finishes:

(W, B, H)

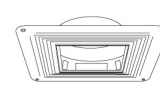


Square Trimless Adj. Reflector

ELK459

Finishes:

(W, B, H)



Square Trimless Spackle Frame

EL4SFS

For use with ELK445 & ELK459

4" Flexa™ Twist-On Trims



Round Reflector

ELK4721

Finishes:

(WW, BB, BZBZ, BW, CW, HW)

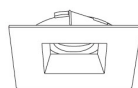


Round Baffle

ELK4723

Finishes:

(WW, BB, BZBZ, BW)



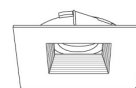
Square Reflector

ELK4741

Finishes:

(WW, BB, BZBZ, BW, HW)

**Not for Remodel Housing*



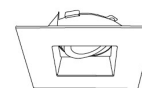
Square Baffle

ELK4743

Finishes:

(WW, BB, BZBZ, BW)

**Not for Remodel Housing*



Square Adj. Reflector

ELK4759

Finishes:

(WW, BB, B, H)

**Not for Remodel Housing*

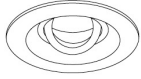
*Finishes: **W** - All White, **WW** - All White, **B** - Black Reflector w/White Ring, **C** - Chrome Reflector w/White Ring, **H** - Haze Reflector w/White Ring, **BB** - All Black, **BZ** - All Bronze, **CC** - All Chrome, **BZBZ** - All Bronze, **BW** - Black Reflector w/White Ring, **CW** - Chrome Reflector w/White Ring, **CN** - Chrome Reflector w/Nickel Ring, **HW** - Haze Reflector w/White Ring

Compatible Products

For use with Tunable White Koto™ LED Module



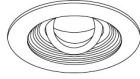
4" Unique™ Twist-On Trims



Round Adjustable Reflector

ELK4710

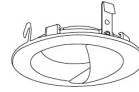
Finishes:
(W, B, BZ)



Round Adjustable Baffle

ELK4713

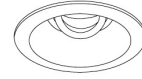
Finishes:
(W, BZ)



Round Wall Wash

ELK4715

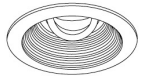
Finishes:
(W, BZ)



Round Adj. Deep Reflector

ELK4717

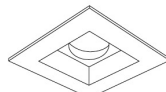
Finishes:
(W, BZ)



Round Adj. Deep Baffle

ELK4719

Finishes:
(W)

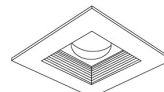


Square Reflector

ELK4714

Finishes:
(W, B, BZ)

**Not for Remodel Housing*



Square Baffle

ELK4716

Finishes:
(W, BZ)

**Not for Remodel Housing*

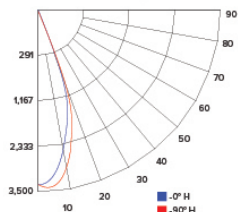
*Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black Reflector w/White Ring, **C** - Chrome Reflector w/White Ring, **H** - Haze Reflector w/White Ring

Photometric Report

Tunable White Koto™ LED Module

PHOTOMETRIC REPORT

Product #: ELK19TWD
(E45KT12ICAD) @2700K
Wattage / Lumens: 16.9 W / 1353.4 lm
Luminaire LPW: 80 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	3401
5	3111
15	1814
25	543
35	122
45	58
55	34
65	18
75	9
85	0
90	0

ILLUMINANCE AT A DISTANCE

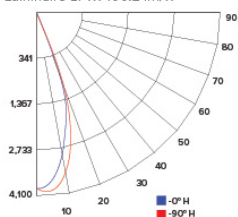
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
5'	136	3.0'
7.5'	60.5	4.6'
10'	34.0	6.1'
12.5'	21.8	7.6'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	1,145.4	84.7
0-40°	1,244.7	92
0-60°	1,324.7	97.9
0-90°	1,352.7	100

PHOTOMETRIC REPORT

Product #: ELK19TWD
(E45KT12ICAD) @4000K
Wattage / Lumens: 15.66 W / 1569.2 lm
Luminaire LPW: 100.2 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	3946
5	3646
15	2195
25	691
35	160
45	79
55	45
65	24
75	10
85	0
90	0

ILLUMINANCE AT A DISTANCE

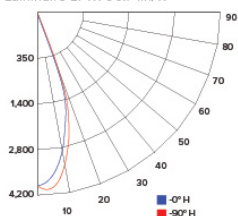
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
5'	158	3.0'
7.5'	70.1	4.5'
10'	39.5	6.0'
12.5'	25.3	7.5'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	1,332.2	84.9
0-40°	1,447.6	92.3
0-60°	1,539.1	98.1
0-90°	1,568.3	100

PHOTOMETRIC REPORT

Product #: ELK19TWD
(E45KT12ICAD) @6500K
Wattage / Lumens: 17.06 W / 1650.9 lm
Luminaire LPW: 96.7 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	4080
5	3745
15	2229
25	703
35	150
45	73
55	45
65	25
75	13
85	6
90	5

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
5'	163	3.0'
7.5'	72.5	4.6'
10'	40.8	6.1'
12.5'	26.1	7.6'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	1,386.3	84
0-40°	1,509.8	91.5
0-60°	1,610.3	97.6
0-90°	1,649.9	100