

Tunable White Koto™ LED Module

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



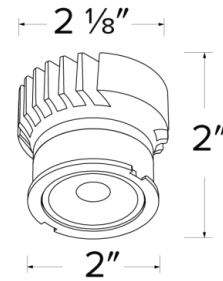
Features

- 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 - 5000K | 38° |
| ELK19T41D | LED | 1800K - 4000K | 38° |
| ELK19T62D | LED | 2700K - 6500K | 38° |
| ELK19TWD-E | LED | 2700K - 5000K | 90° |
| ELK19T41D-E | LED | 1800K - 4000K | 90° |
| ELK19T62D-E | LED | 2700K - 6500K | 90° |

Product Number Builder Example: ELK19TWD

Tunable White Koto™ LED
Module

ELK19

Color Temperature

TWD 2700K - 5000K

T41D 1800K - 4000K

T62D 2700K - 6500K

Beam Spread

38° lens

-S 18° lens

-N 25° lens

-W 60° lens

-E 90° lens ¹

Optional Accessory

Standard

L45 Hex Louver

L46 Linear Lens

L47 Spread Lens

L49 Frosted Diffuser

L51 Color Shifter

L50W White Snoot

L50B Black 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™



ETW3SL

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



ETW3WZ

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



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

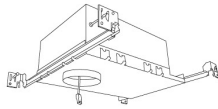
Requires Control Ready Housing Option. One Control module required per housing
*Control Modules Order Separately

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)



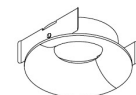
Round Adjustable Reflector

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



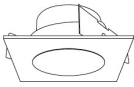
Round Adjustable Pinhole

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



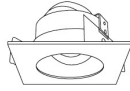
Round Curved Reflector

ELK2872
Finishes:
(W, B*)



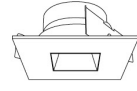
Square Deep Reflector

ELK2518
Finishes:
(W, B, BB)



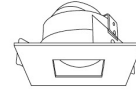
Square Adjustable Reflector

ELK2529
Finishes:
(W, B, BB)



Square Reflector

ELK2541
Finishes:
(W, B, BB)



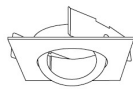
Square Adjustable Pinhole

ELK2527
Finishes:
(W, B, BB)



Round Gimbal

ELK2888
Finishes:
(W, B*, BZ)



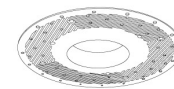
Square Gimbal

ELK2588
Finishes:
(W, B*, BZ)



Round Adj. Trimless Reflector

ELK215
Finishes:
(W, B*)



Trimless Spackle Frame

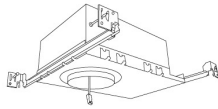
EL2SFR
For use with ELK215

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

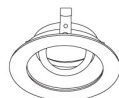
| CAT NO. | SPECIFICATIONS |
|-------------|-----------------------------|
| E35KT10ICAD | 1000 lm, 14W, 120/277V AC |
| E35KT12ICAD | 1250 lm, 18.3W, 120/277V AC |

3" Pex™ Twist-On Trims



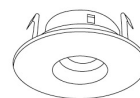
Round Deep Reflector

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)



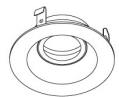
Round Adj. Slot Aperture

ELK3620
Finishes:
(W)



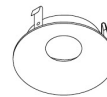
Round Adj. Wall Wash

ELK3622
Finishes:
(W)



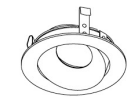
Round Regressed Eyeball

ELK3653
Finishes:
(W, BB, B)



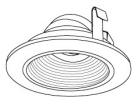
Round Curved Reflector

ELK3672
Finishes:
(W, B)



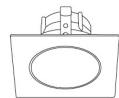
Round Directional Gimbal

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



Round Adjustable Baffle

ELK3693
Finishes:
(W)



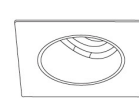
Square Deep Reflector

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



Square Adjustable Reflector

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



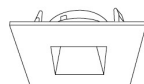
Square Adj. Wall Wash

ELK3322
Finishes:
(W)



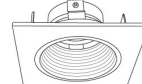
Square Adjustable Pinhole

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



Square Reflector

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



Square Adjustable Baffle

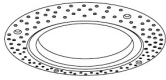
ELK3393
Finishes:
(W)

*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

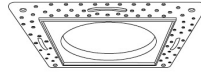
3" Pex™ Flush Mount Trim Adaptors



Round Flush Mount Trim Adaptor

EL3FMR

Compatible 3" Pex™ Round trims:
ELK3618, ELK3629, ELK3627, ELK3693,
ELK3620, ELK3622 Series

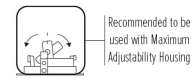


Square Flush Mount Trim Adaptor

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)



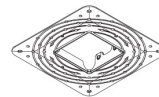
Square Trimless Reflector
ELK370

Finishes:
(W, B, H)



Square Adjustable Trimless Reflector
ELK381

Finishes:
(W, B, H)



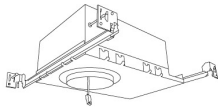
Square Trimless Spackle Frame
EL03SFS
For use with ELK370 & ELK381

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

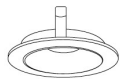
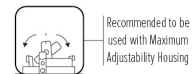
4" Koto™ Dedicated LED ICA Housings



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)



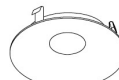
Slot Aperture
ELK4130
Finishes:
(W)



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



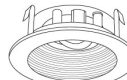
Regressed Eyeball
ELK4153
Finishes:
(W, BB, B)



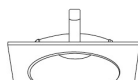
Curved Reflector
ELK4172
Finishes:
(W, B)



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



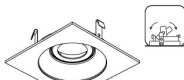
Adjustable Baffle
ELK4193
Finishes:
(W, BB, B)



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)



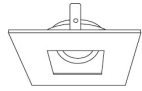
Adjustable Wall Wash
ELK4222
Finishes:
(W)

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)

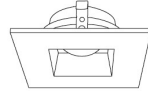
Compatible Products

For use with Tunable White Koto™ LED Module

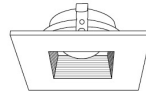
4" Pex™ Twist-On Trims



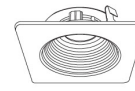
Adjustable Pinhole
ELK4227
 Finishes:
 (W, BB, BZ, B, C, H)



Adjustable Reflector
ELK4282
 Finishes:
 (W, BZ)



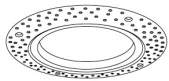
Adjustable Baffle
ELK4284
 Finishes:
 (W, B, BZ)



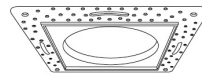
Adj. Phenolic Baffle
ELK4293
 Finishes:
 (W, BB, B)

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

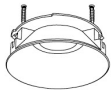


Round Flush Mount Trim Adaptor
EL4FMR
 Compatible 3" Pex™ Round trims:
 ELK4116, ELK4118, ELK4127, ELK4129,
 ELK4710, ELK4713, ELK4715 Series



Square Flush Mount Trim Adaptor
EL4FMS
 Compatible 3" Pex™ Square trims:
 ELK4216, ELK4218, ELK4227,
 ELK4229 Series

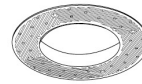
4" Pex™ Trimless



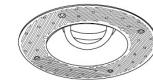
Round Trimless Reflector
ELK408
 Finishes:
 (W, B, H, BZ)



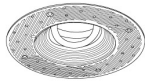
Round Adj. Trimless Reflector
ELK415
 Finishes:
 (W, B, H, BZ)



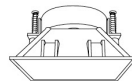
Round Trimless Spackle Frame
EL4SFR
 For use with ELK408 & ELK415



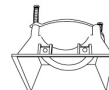
Smooth Reflector
ELK430
 Finishes:
 (W, B, BZ)



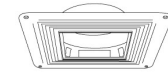
Baffle
ELK434
 Finishes:
 (W, B, BZ)



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

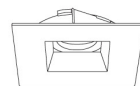
4" Flexa™ Twist-On Trims



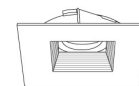
Round Reflector
ELK4721
 Finishes:
 (WW, BB, BZBZ, BW, CW, HW)



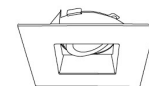
Round Baffle
ELK4723
 Finishes:
 (WW, BB, BZBZ, BW)



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

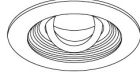
For use with Tunable White Koto™ LED Module

4" Unique™ Twist-On Trims



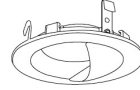
Round Adjustable Reflector

ELK4710
Finishes:
(W, B, BZ)



Round Adjustable Baffle

ELK4713
Finishes:
(W, BZ)



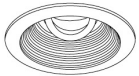
Round Wall Wash

ELK4715
Finishes:
(W, BZ)



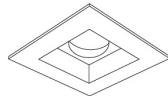
Round Adj. Deep Reflector

ELK4717
Finishes:
(W, BZ)



Round Adj. Deep Baffle

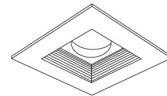
ELK4719
Finishes:
(W)



Square Reflector

ELK4714
Finishes:
(W, B, BZ)

**Not for Remodel Housing*



Square Baffle

ELK4716
Finishes:
(W, BZ)

**Not for Remodel Housing*

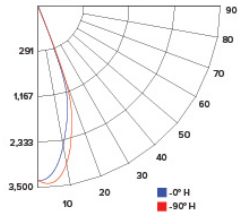
*Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black Reflector w/White Ring, **C** - Chrome Reflector w/White Ring, **H** - Haze Reflector w/White Ring

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

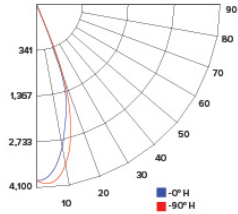
| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|--------------------------|-------------------------|---------------|
| 5' | 136 | 3.0' |
| 7.5' | 60.5 | 4.6' |
| 10' | 34.0 | 6.1' |
| 12.5' | 21.8 | 7.6' |

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

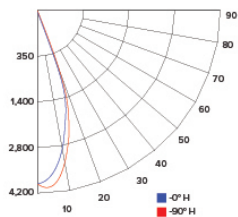
| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|--------------------------|-------------------------|---------------|
| 5' | 158 | 3.0' |
| 7.5' | 70.1 | 4.5' |
| 10' | 39.5 | 6.0' |
| 12.5' | 25.3 | 7.5' |

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 |