

Tunable White Koto™ LED Module

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



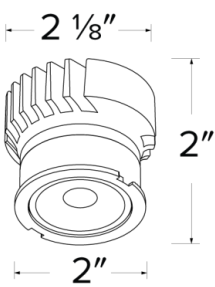
Features

- Driver on housing extends lifespan and allows for more dimming options and applications
- Includes Standard 38° lens, with 28° and 60° lenses. Optional: 15° and 18° lens available
- 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°
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°

Product Number Builder

Example: ELK19TWD

Tunable White Koto™ LED Module	Color Temperature	Beam Spread	Optional Accessory
<div>ELK19</div>	<div></div> <div>TWD 2700K - 5000K T41D 1800K - 4000K T62D 2700K - 6500K</div>	<div></div> <div>38° lens -S 18° lens -N 25° lens -W 60° lens</div>	<div></div> <div>Standard L45 Hex Louver L46 Linear Lens L47 Spread Lens L49 Frosted Diffuser L51 Color Shifter L50W White Snoot L50B Black Snoot</div>

Compatible Products



For use with Dedicated 2", 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™



CASAMBI

ETW3CS

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



Technology Partner
SILVAIR

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*



DALI-2

ETW3DL

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



0-10V

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

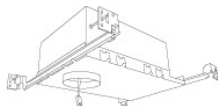
Requires Control Ready Housing Option. One Control module required per housing
*Control Modules Order Separately

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)



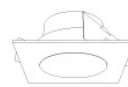
Round Adjustable Reflector

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



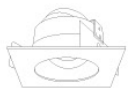
Round Adjustable Pinhole

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



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

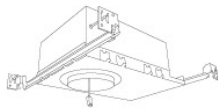
ELK2588
Finishes:
(W, BZ)

Compatible Products



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)



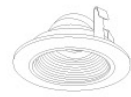
Round Adjustable Gimbal

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



Round Adjustable Pinhole

ELK3627
Finishes:
(B, BB, BZ)



Round Adjustable Baffle

ELK3693
Finishes:
(W)



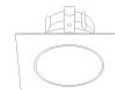
Round Adj. Slot Aperture

ELK3620
Finishes:
(W)



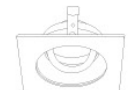
Round Adj. Wall Wash

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 Tunable White Koto™ LED Module



3" Pex™ Trimless



Spackle Frame

EL3SFR



**Adjustable Trimless
Reflector**

ELK315

Finishes:

(W, B, H)

3" Flush Mount Trim Adaptors



Round Flush Mount

EL3FMR



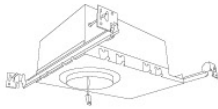
Square Flush Mount

EL3FMS

Compatible Products

For use with 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™ Round Twist-On Trims



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 Tunable White Koto™ LED Module



4" Pex™ Square Twist-On Trims



Reflector

ELK4218

Finishes:

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



Adjustable Gimbal

ELK4229

Finishes:

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

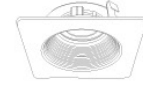


Adjustable Pinhole

ELK4227

Finishes:

(B, BB, BZ)



Adjustable Phenolic Baffle

ELK4293

Finishes:

(W, BB, B)



Adj. Slot Rotatable Aperture

ELK4220

Finishes:

(W)

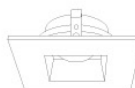


Adjustable Wall Wash

ELK4222

Finishes:

(W)

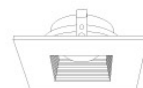


Adjustable Reflector

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)

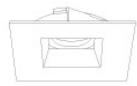


Round Baffle

ELK4723

Finishes:

(WW, BB, BZBZ, BW)



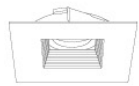
Square Reflector

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 Tunable White Koto™ LED Module

4" Pex™ Trimless



**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)

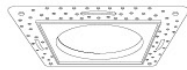


Sq. Adjustable Reflector
ELK459
Finishes:
(W, B, H)

4" Flush Mount Trim Adaptors



Round Flush Mount
EL4FMR
For use with
ELK41 & Unique™ Trims



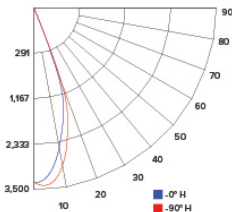
Square Flush Mount
EL4FMS
For use with
ELK42 Trims

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

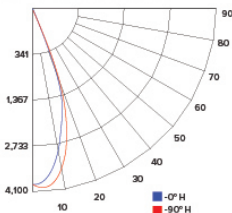
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
5'	136	3.0'
7.5'	60.5	4.6'
10'	34.0	6.1'
12.5'	21.8	7.6'

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

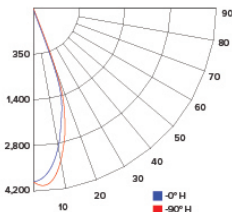
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
5'	158	3.0'
7.5'	70.1	4.5'
10'	39.5	6.0'
12.5'	25.3	7.5'

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