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 38º lens, with 28º and 60º lenses. Optional: 15º and 18º 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

2 ⅛″

2″

2″
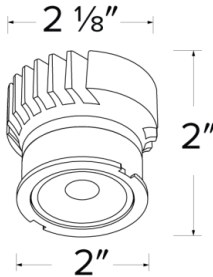
Technical Details

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
ELK19			

Color Temperature

TWD	2700K - 5000K
T41D	1800K - 4000K
T62D	2700K - 6500K

Beam Spread

	38º lens
-S	18º lens
-N	25º lens
-W	60º lens

Optional Accessory

	Standard
L45	Hex Louver
L46	Linear Lens
L47	Spread Lens
L49	Frosted Diffuser
L51	Color Shifter
L50W	White Snoot
L50B	Black Snoot

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

SILVAIR (Technology Partner) — 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
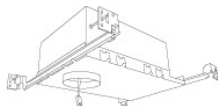
Requires Control Ready Housing Option. One Control module required per housing
*Control Modules Order Separately

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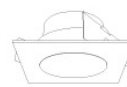
Round Deep Reflector
ELK2818
Finishes:
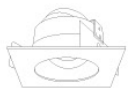(W, B, H, BB, BZ)

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
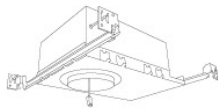Finishes:
(W, B, BZ)

Square Gimbal
ELK2588
Finishes:
(W, BZ)

Compatible Products

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

ELCO Lighting

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

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:
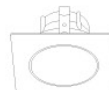(B, BB, BZ)

Round Adjustable Baffle
ELK3693
Finishes:
(W)

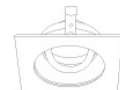**Round Adj. Slot Aperture**
ELK3620
Finishes:
(W)

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 **Tunable White Koto™ LED Module**

3" Pex™ Trimless

Spackle Frame

EL3SFR

Adjustable Trimless Reflector
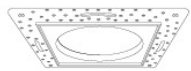
ELK315
Finishes:
(W, B, H)

3" Flush Mount Trim Adaptors

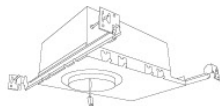**Round Flush Mount**

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

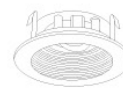Recommended to be used with Maximum Adjustability Housing

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 **Tunable White Koto™** LED Module

ELCO Lighting

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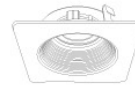ELK4229
Finishes:
(W, BB, BZ, B, C, H)

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

Adjustable Phenolic Baffle
ELK4293
Finishes:
(W, BB, B)
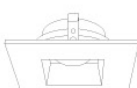
Adj. Slot Rotatable Aperture
ELK4220
Finishes:
(W)
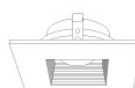
Adjustable Wall Wash
ELK4222
Finishes:
(W)

Adjustable Reflector
ELK4282
Finishes:
(W)

Adjustable Baffle
ELK4284
Finishes:
(W)

4" Flexa™ Twist-On Trims

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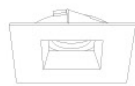(WW, BB, BZBZ, BW, CC, CW, HW, CN)

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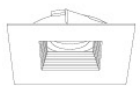Finishes:
(WW, BB, BZBZ, BW)

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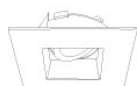(WW, BB, BZBZ, BW, HW)
Not for Remodel Housing

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 **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
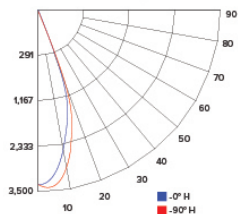*For use with ELK41 & Unique™ Trims*

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
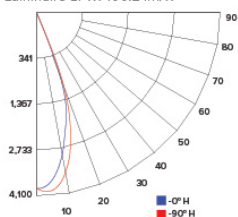
CANDLE POWER SUMMARY

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
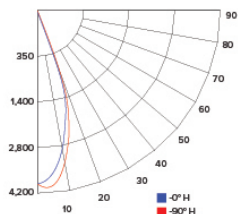
CANDLE POWER SUMMARY

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