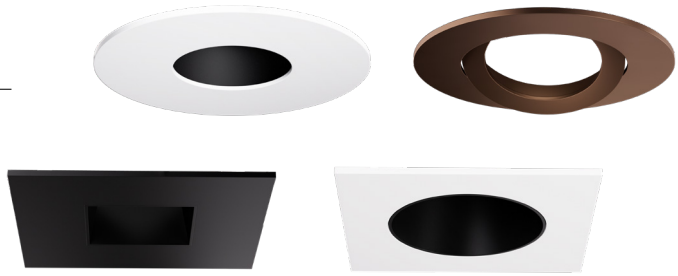
ELCO Lighting

Project Name:
Fixture Type:
Date:

2″ TUNABLE WHITE KOTO™

14W-18.3W, 1000 lm - 1250 lm, 120/277V AC/50-60Hz



THE TUNABLE WHITE KOTO™ SYSTEM

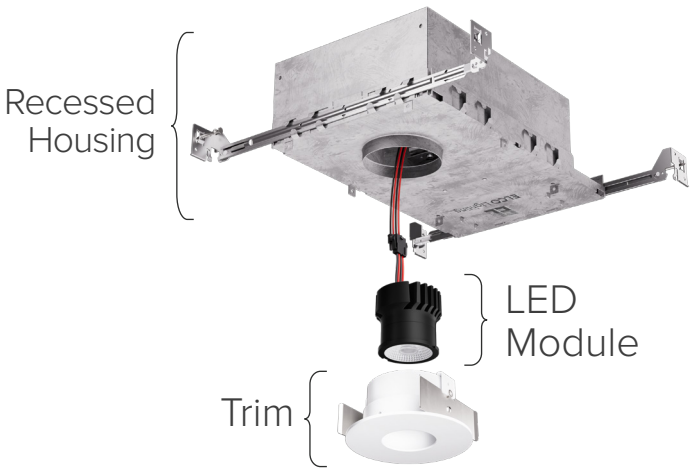
The high quality residential downlight with a 2″ aperture with lumen output up to 1250 lumens.

FEATURES

- 120/277V AC/50-60Hz universal input voltage
- Title 24 JA8-2022 E-Compliant
- ENERGY STAR Compliant
- Covered by U.S. PATENTS and Patents Pending

SET UP

1. Select a New Construction Housing
2. Select a Tunable White Koto™ LED Module.
3. Select a Trim.



SPECIFICATIONS

Lumens/Wattage	1000 lm (14W), 1250 lm (18.3W)
Voltage	120/277V AC
Color Temp.	1800K - 4000K, 2700K - 6500K
CRI	95+
Damp Location	Rated
Wet Location	Rated for wet location trims
Dimmable	Dual Channel 0-10V
Beam Angle	18°, 25°, 38°, 60° & 90°

Finishes

All White | All Black | All Bronze

Black White Ring | Haze White Ring

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PRODUCT NUMBER BUILDER

STEP 1. Specify Housing part number (Select one) Example: E21KT10ICAD

2″ TUNABLE WHITE KOTO™ SHALLOW IC AIRTIGHT HOUSING

ITEM	LUMENS/HEIGHT	ICA	DRIVER
E21KT			
	10 1000 (14W) - 4″ Height	**ICA** IC Airtight	**D** Dual Channel 0-10V
	12 1250 (18.3W) - 5 ½″ Height		

2″ Extension Collar for Koto Housings	
ELK2X-125	Extends collar for ceiling thicknesses up to 1.25″

STEP 2. Specify Koto™ LED Module part number (Select one) Example: ELK19TWD

ITEM	COLOR TEMPERATURE	BEAM ANGLE
ELK19		
ELK19	**T41D** 1800K - 4000K **TWD** 2700K - 6500K	**(Blank)** 38° **-S** 18° **-N** 25° **-W** 60° **-E** [1] 90°
		[1] 90° Frosted Reflector

Field Changeable Secondary Module Optics											
L45 Black Hex Louver	**L57** White Hex Louver	**L46** Linear Lens	**L47** Spread Lens	**L49** Frosted Diffuser	**L51** CCT Reducer	**L52** Blue Color Shifter	**L53** Pink Color Shifter	**L54** Single Asymmetric	**L55** Double Asymmetric	**L50W** White Snoot	**L50B** Black Snoot

Koto Modules - Lumen Value Multiplier			
CCT	Multiplier	Beam Angle	Multiplier
2700K	0.96	**18˚**	0.84
3000K	1	**25˚**	0.89
3500K	1.05	**38˚**	1
4000K	1.085	**60˚**	1.065
5000K	1.1	**90˚**	0.95
SD	0.80		
HC	0.85		

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PRODUCT NUMBER BUILDER

STEP 3. Specify Trim part number (Select one)

2″ KOTO™ ROUND TRIMS



Style: **Deep Reflector**
Item: **ELK2818W** (All White)
ELK2818BB (All Black)
ELK2818BZ (All Bronze)
ELK2818B (Black/White Ring)
ELK2818H (Haze/White Ring)



Style: **Adjustable Pinhole**
Item: **ELK2827W** (All White)
ELK2827BB (All Black)
ELK2827BZ (All Bronze)
ELK2827B (Black/White Ring)



Style: **Adjustable Reflector**
Item: **ELK2829W** (All White)
ELK2829BB (All Black)
ELK2829BZ (All Bronze)
ELK2829B (Black/White Ring)
ELK2829H (Haze/White Ring)



Style: **Curved Reflector**
Item: **ELK2872W** (All White)
ELK2872B (All Black)



Style: **Gimbal**
Item: **ELK2888W** (All White)
ELK2888B (All Black)
ELK2888BZ (All Bronze)



Style: **Sleek Reflector**
Item: **ELK2863W** (All White)
ELK2863BB (All Black)



Style: **Sleek Wall Wash Reflector**
Item: **ELK2883W** (All White)
ELK2883BB (All Black)

2″ KOTO™ SQUARE TRIMS



Style: **Deep Reflector**
Item: **ELK2518W** (All White)
ELK2518BB (All Black)
ELK2518B (Black/White Ring)



Style: **Adjustable Pinhole**
Item: **ELK2527W** (All White)
ELK2527BB (All Black)
ELK2527B (Black/White Ring)



Style: **Adjustable Reflector**
Item: **ELK2529W** (All White)
ELK2529BB (All Black)
ELK2529B (Black/White Ring)



Style: **Reflector**
Item: **ELK2541W** (All White)
ELK2541BB (All Black)
ELK2541B (Black/White Ring)

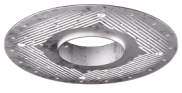


Style: **Gimbal**
Item: **ELK2588W** (All White)
ELK2588B (All Black)
ELK2588BZ (All Bronze)

2″ KOTO™ ROUND TRIMLESS



Style: **Adjustable Trimless Reflector**
Item: **ELK215W** (All White)
ELK215B (All Black)



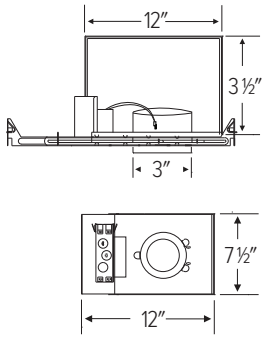
Style: **Trimless Spackle Frame**
Item: **EL2SFR**
For use with ELK215

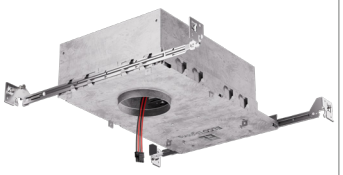
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PRODUCT DIMENSIONS

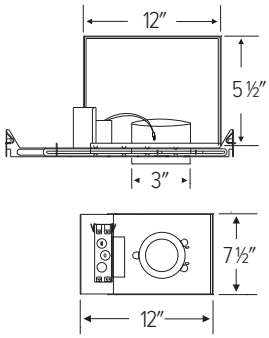
TUNABLE WHITE KOTO™ IC AIRTIGHT HOUSING

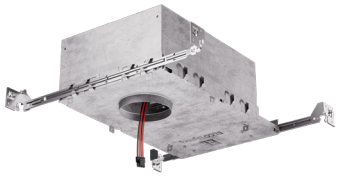
E21KT10ICA
TUNABLE WHITE KOTO™ IC HOUSING





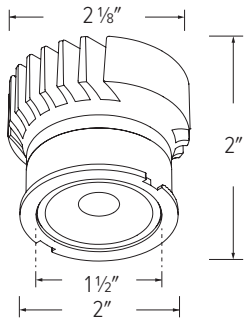
E21KT12ICA
TUNABLE WHITE KOTO™ IC HOUSING





TUNABLE WHITE KOTO™ LED MODULE

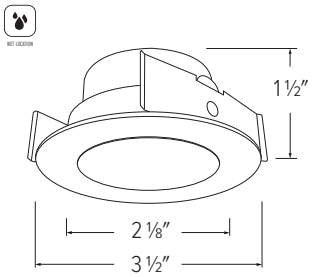
ELK19TWD/ELK19T41D/ELK19T62D
TUNABLE WHITE KOTO™ LED MODULE





KOTO™ TRIMS

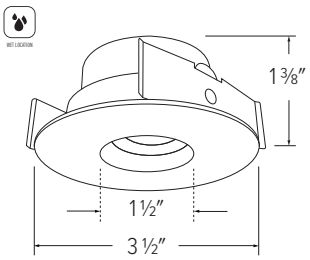
ELK2818 - 2″ ROUND DEEP REFLECTOR





W (All White)
B (Black/White)
BB (All Black)
H (Haze/White)
BZ (All Bronze)

ELK2827 - 2″ ROUND ADJUSTABLE PINHOLE



358° Rotation - 30° Tilt



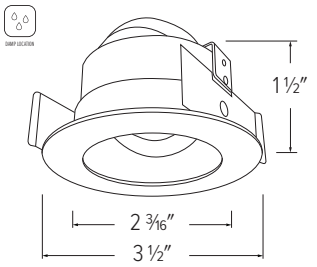
W (All White)
BZ (All Bronze)
BB (All Black)
B (Black/White)

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PRODUCT DIMENSIONS

KOTO™ TRIMS

ELK2829 - 2″ ROUND ADJUSTABLE REFLECTOR



360° Rotation - 30° Tilt



W (All White)



B (Black/White)



BB (All Black)

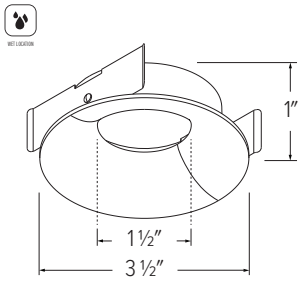


H (Haze/White)



BZ (All Bronze)

ELK2872 - 2″ ROUND CURVED REFLECTOR

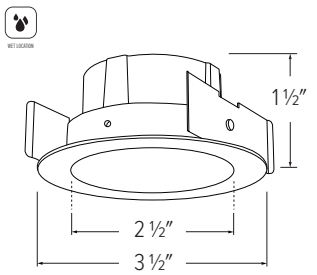


W (All White)



B (All Black)

ELK2863 - 2″ ROUND SLEEK REFLECTOR

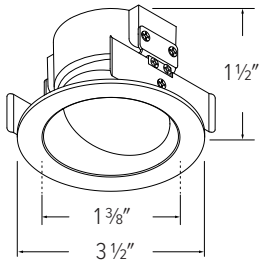


W (All White)

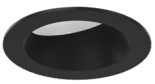


BB (All Black)

ELK2883 - 2″ ROUND SLEEK WALL WASH REFLECTOR

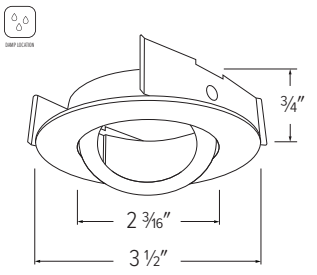


W (All White)



BB (All Black)

ELK2888 - 2″ ROUND GIMBAL



30° Tilt



W (All White)

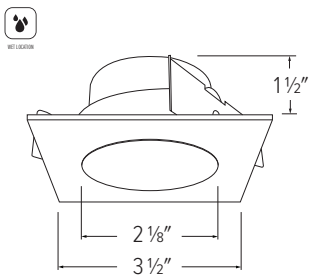


B (All Black)



BZ (All Bronze)

ELK2518 - 2″ SQUARE DEEP REFLECTOR



W (All White)

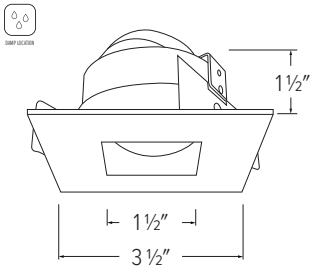


BB (All Black)



B (Black/White)

ELK2527 - 2″ SQUARE ADJUSTABLE PINHOLE



358° Rotation - 30° Tilt



W (All White)

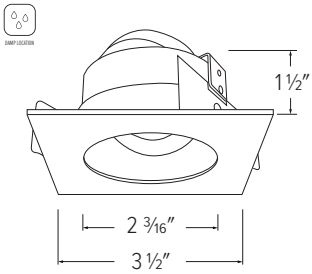


BB (All Black)



B (Black/White)

ELK2529 - 2″ SQUARE ADJUSTABLE REFLECTOR



358° Rotation - 30° Tilt

W (All White)



BB (All Black)



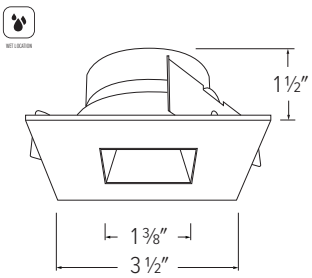
B (Black/White)

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PRODUCT DIMENSIONS

KOTO™ TRIMS

ELK2541 - 2″ SQUARE REFLECTOR



W (All White)

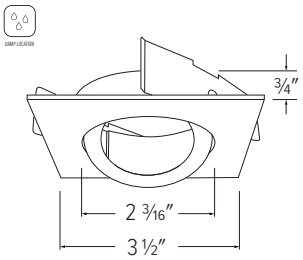


BB (All Black)



B (Black/White)

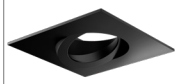
ELK2588 - 2″ SQUARE GIMBAL



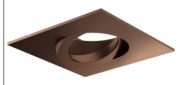
30° Tilt



W (All White)



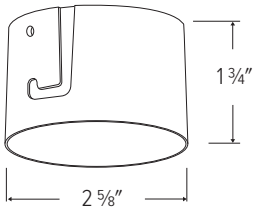
B (All Black)



BZ (All Bronze)

KOTO™ TRIMLESS

ELK215 - 2″ ROUND ADJUSTABLE TRIMLESS REFLECTOR



Requires EL4SFR (Sold Separately)

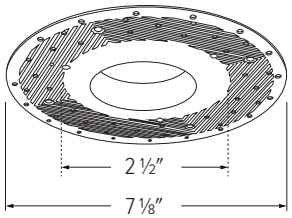


W (All White)



B (All Black)

EL2SFR - 2″ ROUND TRIMLESS SPACKLE FRAME



For use with ELK215

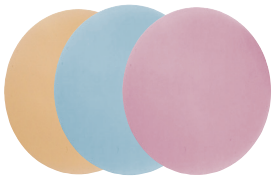


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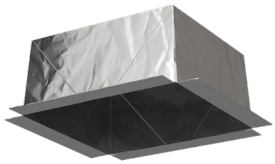
ACCESSORIES

LENS & OPTICS (field changeable)

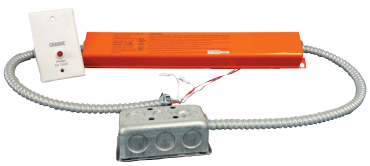
FIELD CHANGEABLE LENS		HEX LOUVER	LINEAR LENS	SPREAD LENS
				
EP731C (18°) / **EP732C** (25°) **EP733C** (38°) / **EP734C** (60°)	**EP739C** (90°)	**L45** (Black) / **L57** (White) For a better glare shield	**L46** For a wide rectangular illumination pattern	**L47** For a symmetrical broadening of light beams

FROSTED DIFFUSER	COLOR SHIFTERS	SINGLE ASYMMETRIC LENS	DOUBLE ASYMMETRIC LENS	SNOOTS
				
L49 For a softer light	**L51** (Color temp. reducer) **L52** (Blue) / **L53** (Pink)	**L54** For elliptical illumination pattern	**L55** For elliptical illumination pattern	**L50W** (White) / **L50B** (Black) Reduces glare and light spill

FIRE RATED PRODUCTS

1-HOUR FIRE ENCLOSURE FOR RECESSED FIXTURES	MICA ADHESIVE FIRE TAPE FOR FIRE ENCLOSURE	2-HOUR FIRE COVER FOR RECESSED FIXTURES
		
FIREENCL Standard - 9″ H x 20 ⅜″ L x 14 ⅜″ W **FIREENCL-S** Shallow (-S) - 7 ¼″ H x 16″ L x 14 ⅜″ W Provides fire barrier around recessed lights. ETL approved 1-hour fire rating. Meets UL 263, ASTM E119 Specifications. To be used with Mica Tape to seal the power feeding point. (FIRETAPE sold separately)	**FIRETAPE** ¾″ W x 16′ L Fire proof mica adhesive tape helps seal the power feeding point on Fire Enclosure. Offers outstanding high temperature and flame resistance, and provides excellent electrical insulation.	**FIRECVR** 9 ¾″ H x 17″ O.D. x 13″ I.D. Made of heat activated intumescent material. UL approved for most ceiling types: sheetrock drywall, gypsum & acoustical tiles. UL Rated enclosure stops flame spread and heat transmission for up to 2 hours.

EMERGENCY BATTERY BACKUP

EMERGENCY BATTERY BACKUP

KEM-ERT 90 minutes of emergency operation. Input: 100-277VAC, 50/60Hz., 25W Max Output: 170VDC, 25W Charging time: 36 hours cUL listed - Suitable for damp location

HOUSING ACCESSORY

2″ EXTENSION COLLAR

ELK2X-125 It allows the housing to install in ceiling thicknesses up to 1.25″

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TECHNICAL DETAILS

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

Construction (Light Engine): Diecast aluminum body with heat fins allow for efficient cooling.

Construction (Housing): Double Wall IC Rated for direct contact with insulation. For use in IC and Non-IC conditions. Up to 1250 lumens. Airtight housing with gasket to restrict airflow in accordance with ASTM E-283 air-tight requirements.

Installation (Light Engine): Twist-on design for toolless trim installation. For use with Koto™ trims only.

Installation (Housing): High-strength hanger bars can easily be nailed to joists. Suitable for T-grid and drop ceiling applications. See the installation sheet for detailed information. For use with ELCO Tunable White Koto™ LED Light Engines (ELK19TWD Series)

Hanger Bars: Pre-installed hanger bars with True Nail easy installation in regular lumber, engineered lumber, and laminated beams. Integral T-bar slots for easy installation in T-bars. Spans up 24″ and can be repositioned 90º. Score lines allow for tool-free hanger bar size reduction. Integral leveling flange allows for single-person installation while easily aligning the housings with the joists.

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 pixilation.

Electrical: Driver is rated for 120V and 277V input (120/277V). High-Efficiency driver with a power factor > 0.95.

Dimming: Dual Channel 0-10V dimming. 0-10V dimming down to 1% with a compatible dimmer. For a full list of dimmers refer to the Dimmer Compatibility List.

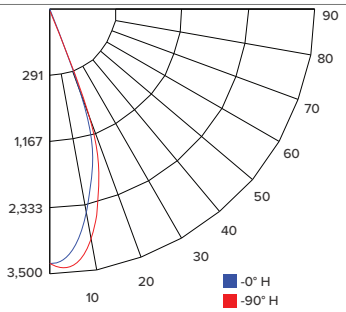
Emergency Battery Pack: Optional 25W MAX. 90 minute battery backup.

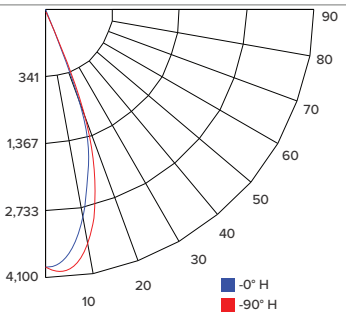
Listings: UL and cUL Listed for Damp Locations. UL and cUL Listed for Wet Location with Wet location trims. RoHS Compliant. Meets Energy Star & California Title 24 JA8-2022-E standards.

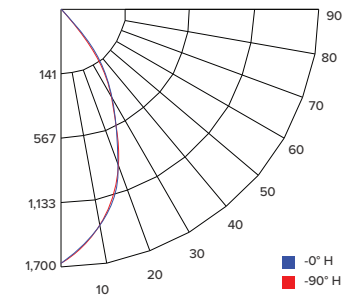
Warranty: ELCO Products are built to last with a 5-year Limited warranty.

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TUNABLE WHITE KOTO™ LED MODULE

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK19TWD (E21KT12ICAD) @2700K	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
Wattage / Lumens: 16.9 W / 1353.4 lm	0	3401	5′	136	3.0′
Luminaire LPW: 80 lm/W	5	3111	7.5′	60.5	4.6′
	15	1814	10′	34.0	6.1′
	25	543	12.5′	21.8	7.6′
	35	122	ZONAL LUMEN SUMMARY		
	45	58			
	55	34	Zone	Lumens	%Luminaire
	65	18			
	75	9	0-30°	1,145.4	84.7
	85	0	0-40°	1,244.7	92
	90	0	0-60°	1,324.7	97.9
			0-90°	1,352.7	100

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK19TWD (E21KT12ICAD) @4000K	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
Wattage / Lumens: 15.66 W / 1569.2 lm	0	3946	5′	158	3.0′
Luminaire LPW: 100.2 lm/W	5	3646	7.5′	70.1	4.5′
	15	2195	10′	39.5	6.0′
	25	691	12.5′	25.3	7.5′
	35	160	ZONAL LUMEN SUMMARY		
	45	79			
	55	45	Zone	Lumens	%Luminaire
	65	24			
	75	10	0-30°	1,332.2	84.9
	85	0	0-40°	1,447.6	92.3
	90	0	0-60°	1,539.1	98.1
			0-90°	1,568.3	100

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK19TWD (E21KT12ICAD) @6500K	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
Wattage / Lumens: 17.06 W / 1650.9 lm	0	4080	5′	163	3.0′
Luminaire LPW: 96.7 lm/W	5	3745	7.5′	72.5	4.6′
	15	2229	10′	40.8	6.1′
	25	703	12.5′	26.1	7.6′
	35	150	ZONAL LUMEN SUMMARY		
	45	73			
	55	45	Zone	Lumens	%Luminaire
	65	25			
	75	13	0-30°	1,386.3	84
	85	6	0-40°	1,509.8	91.5
	90	5	0-60°	1,610.3	97.6
			0-90°	1,649.9	100

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