

2" KOTO™ DX
DOWNLIGHTING SYSTEM

11.5W-11.8W, 2700K-4000K, Sunset, & DALI-2 Tunable White,
Up to 1000 lm, 120-277V, 0-10V/Triac/ELV, or DALI-2



THE KOTO™ DX SYSTEM

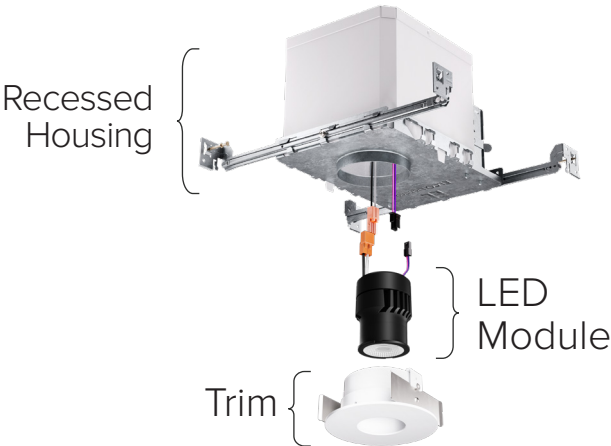
The high quality downlight with a 1.5" aperture with lumen output up to 1000 lumens. The quality driver built on top of the module allows for simple product maintenance and updates. Works with 2", 3", 4", and 6" ELCO DX Recessed Housings and Koto™ Trims

FEATURES

- Integrated 120-277V (50/60Hz), 0-10V/Triac/ELV dimmable driver to 1% or DALI-2 to 0.1%
- 18°, 25°, 38°, 60°, and 90° beam angle options
- Excellent color rendering 95+ CRI
- Title 24 JA8-2025-E Compliant
- Covered by U.S. PATENTS and Patents Pending

SET UP

1. Select a Housing
2. Select a Koto™ LED Module.
3. Select a Trim.

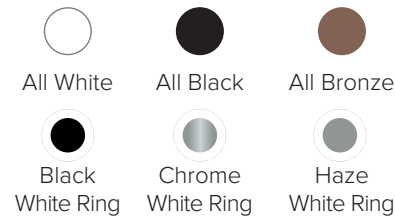


SPECIFICATIONS

Lumens/Wattage	880 lm (11.5W), DALI-2 (880 lm)
	1000 lm (11.8W), 0-10V/Triac/ELV (1000 lm)
Voltage	120-277V
Color Temp.	2700K, 3000K, 3500K, 4000K, Sunset, & Tunable White
CRI	95+
Damp Location	UL Listed
Wet Location	UL Listed w/Wet Location Trims
Dimming	0-10V/Triac/ELV (1%), DALI-2 (0.1%)
Beam Angle	18°, 25°, 38°, 60° & 90°



Finishes



PRODUCT NUMBER BUILDER

STEP 1. Specify Housing part number (Select one)

Example: EL276ICDXA

2" MAXIMUM ADJUSTABILITY IC AIRTIGHT NEW CONSTRUCTION HOUSINGS

ITEM	STYLE	ICA	OPTIONAL EMERGENCY BATTERY BACKUP
EL			
EL	Maximum Adjustability New Construction Housings		
	276 ¹ New Construction	ICDXA ¹ IC rated 120-277V (5 ½" Height) JBICDXA ² IC rated 2 hour Fire Junction Box 120-277V (4 ⅛" Height)	(Blank) No Battery Backup -EM5 ² 90 min., 25W MAX
	¹ Accommodates up to ⅝" ceiling thickness. ELK2X-125 2" extension collar available to extend ceiling thickness up to 1 ¼"	¹ For use with ⅝" thick to 1 ½" thick ceilings ² Accommodates up to 1 ½" ceiling thickness	² Access from above required

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: ELK10DX27

ITEM	LUMENS		DIMMING/VOLTAGE		COLOR TEMPERATURE		BEAM ANGLE	
ELK								
	0-10V, Triac, ELV Koto™ LED Module 1%							
	10	1000 lm (11.8W)	DX	120-277V, 0-10V, Triac, ELV 1%	27	2700K	(Blank) ²	38°
					30	3000K	-S	18°
					35	3500K	-N	25°
					40	4000K	-W	60°
					SD ¹	Sunset	-E ³	90°
					¹ Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed		² 38° lens installed. Includes 25° and 60° lens with module. ³ 90° Frosted Reflector	
	DALI 2 Tunable White Koto™ LED Module 0.1%							
	08	880 lm (11.5W)	AL	120-277V, DALI-2 0.1%	41TW ¹	Tunable 1800K - 4000K	(Blank) ²	38°
							-S	18°
							-N	25°
							-W	60°
							-E ³	90°
					¹ Tunable White Technology 4000K to 1800K		² 38° lens installed. Includes 25° and 60° lens with module. ³ 90° Frosted Reflector	

Field Changeable Secondary Module Optics

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

PRODUCT NUMBER BUILDER

STEP 3. Specify Trim part number (Select one)

2" KOTO™ ROUND TRIMS



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



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



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



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



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



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



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

2" KOTO™ SQUARE TRIMS



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



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



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



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



Style: **Adjustable Pinhole**
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)

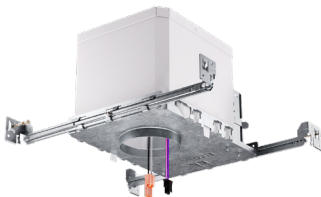
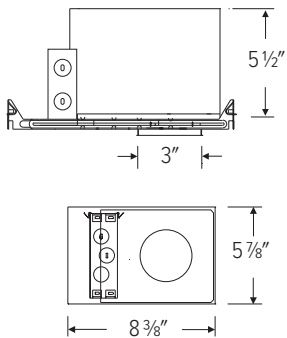


Style: **Trimless Spackle Frame**
Item: **EL2SFR**
For use with ELK215

PRODUCT DIMENSIONS

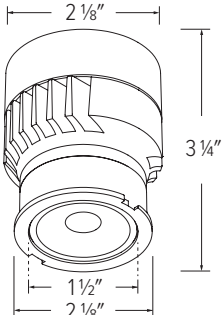
STANDARD KOTO™ IC AIRTIGHT RECESSED HOUSINGS

EL276ICDXA
MAXIMUM ADJUSTABILITY NEW CONSTRUCTION HOUSING



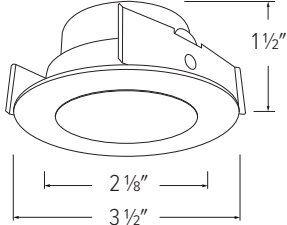
KOTO™ LED MODULES

ELK10DX, ELK08AL
KOTO DX & DALI 2 TUNABLE WHITE LED MODULE

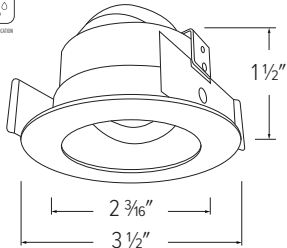


KOTO™ TRIMS

ELK2818 - 2" ROUND DEEP REFLECTOR



ELK2829 - 2" ROUND ADJUSTABLE REFLECTOR



360° Rotation - 30° Tilt

PRODUCT DIMENSIONS

KOTO™ TRIMS

ELK2827 - 2" ROUND ADJUSTABLE PINHOLE

1 3/8"

1 1/2"

3 1/2"

358° Rotation - 30° Tilt

W (All White) **BZ** (All Bronze)

BB (All Black) **B** (Black/White)

ELK2863 - 2" ROUND MICRO FLANGE REFLECTOR

1 1/2"

2 1/2"

3 1/2"

W (All White)

BB (All Black)

ELK2872 - 2" ROUND CURVED REFLECTOR

1"

1 1/2"

3 1/2"

W (All White)

B (All Black)

ELK2888 - 2" ROUND GIMBAL

3/4"

2 3/16"

3 1/2"

30° Tilt

W (All White)

B (All Black)

BZ (All Bronze)

ELK2883 - 2" SLEEK WALL REFLECTOR

1 1/4"

1 3/8"

3 1/2"

W (All White)

B (All Black)

ELK2518 - 2" SQUARE DEEP REFLECTOR

1 1/2"

2 1/8"

3 1/2"

W (All White)

BB (All Black)

B (Black/White)

ELK2529 - 2" SQUARE ADJUSTABLE REFLECTOR

1 1/2"

2 3/16"

3 1/2"

358° Rotation - 30° Tilt

W (All White)

BB (All Black)

B (Black/White)

ELK2527 - 2" SQUARE ADJUSTABLE PINHOLE

1 1/2"

1 1/2"

3 1/2"

358° Rotation - 30° Tilt

W (All White)

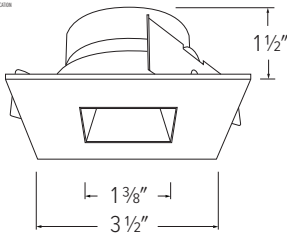
BB (All Black)

B (Black/White)

PRODUCT DIMENSIONS

KOTO™ TRIMS

REFLECTOR



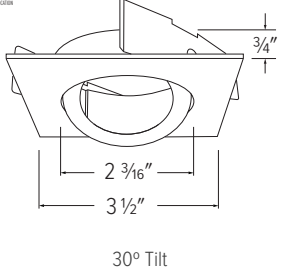
**W** (All White)

**BB** (All Black)

**B** (Black/White)

ELK2541 - 2" SQUARE REFLECTOR

REFLECTOR



**W** (All White)

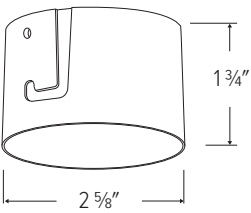
**B** (All Black)

**BZ** (All Bronze)

ELK2588 - 2" SQUARE GIMBAL

KOTO™ TRIMLESS

REFLECTOR



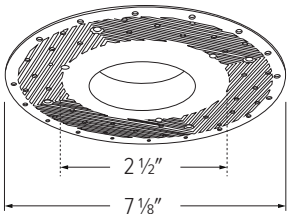
**W** (All White)

**B** (All Black)

ELK215 - 2" ROUND ADJUSTABLE TRIMLESS REFLECTOR

Requires EL4SFR (Sold Separately)

REFLECTOR

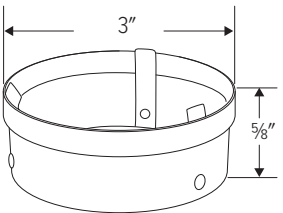




EL2SFR - 2" ROUND TRIMLESS SPACKLE FRAME

For use with ELK215

REFLECTOR





ELK2X-125 - 2" EXTENSION COLLAR FOR KOTO™ HOUSINGS

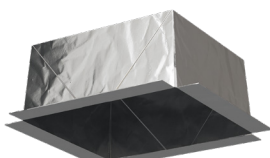
ACCESSORIES

LENS & OPTICS (field changeable)

FIELD CHANGEABLE LENS		HEX LOUVER	LINEAR LENS	SPREAD LENS
				
EP731C (18°) / EP732C (25°) EP733C (38°) / EP734C (60°)		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 3/8" L x 14 3/8" W FIREENCL-S Shallow (-S) - 7 1/4" H x 16" L x 14 3/8" 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 3/4" 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 3/4" 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

TECHNICAL DETAILS

Optics: Frosted polycarbonate module lens diffuses light evenly throughout while reducing glare with LED technology.

Construction (Light Engine): Integrated driver and light engine with quick connect. Diecast aluminum body with heat fins allow for efficient cooling.

Installation (Light Engine): Twist-on design for toolless trim installation, for use with Koto™ trims only. Can be use in 2", 3", 4" and 6" ELCO 0-10V Recessed Housings.

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 90°. 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 Maintainece 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: Module connects to 120-277V input power. High efficiency driver with a power factor >0.9. Start time of less than 0.75 seconds.

Dimming: Works with 120-277V input, 0-10V/Triac/ELV type dimmers. Dims down to 5%. For full list of dimmers, refer to the Dimmer Compatibility List. Industry leading dimming that dims smoothly with no hot spots or flickering.

Sunset: Sunset color temperature is our dim-to-warm LED technology that allows the color temperature to become warmer as the product is dimmed. Our SUNSET items start at 3000K and go as low as 1800K when dimmed. For Sunset dim technology be sure to order an item with "Sunset" in the Color Temperature (CCT) attribute.

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.

DIMMER COMPATIBILITY CHART

FOR REFERENCE ONLY

Testing conducted by ELCO Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer specifications for more detailed information on product certifications and standards. Consult the dimmer manufacturer prior to installation to ensure compatibility.

MANUFACTURER	PRODUCT	PART NUMBER	DIMMED LIGHT OUTPUT RANGE
120V - Triac/ELV Dimmers for ELK03, ELK07, ELK08, ELK09, ELK10, ELK11, and ELK13 Series			
Leviton	Decora SureSlide® Single Pole with Slide -to-Off	6672	15% - 100%
	Decora soft fade On/Off. Single Pole, 3-Way	1K35O2	5% - 100%
Lutron	Vive, 120V, 150W LED/CFL, 600W Incandescent/Halogen, FP, Single Pole/Multi-Location Dimmer, Commercial Application	MRF2S-6CL	12% - 91%
	Panel Model, Commercial/Residential Application, FP	GP (Harrier) Card	10% - 94%
	QS/Mailbox Power Module, 120/220 to 240V AC, LED/Incandescent/Halogen Load Type, Commercial/Residential Indoor Application, FP	LQRJ-WPM-6P	10% - 95%
	Grafik Eye 3000/HomeWorks, 120V, Incandescent/Fluorescent Load Type, Commercial/Residential Application, FP	HWI-WPM-6D-120	10% - 95%
	Panel Dimming Module, 120V, Commercial/Residential Application, FP	HW/LP-RPM-4U-120	10% - 95%
	Panel Adaptive Dimming Module, 120V, Commercial/Residential Application, FP	HW/LP-RPM-4A-120	9% - 95%
	HomeWorks® QS for CFL/LED, 120V, RP, Commercial/Residential Application	LQSE-4A1-DMQSE-4A1-D MQSE-3A1 MQSE-2A1-D	8% - 95%
	Energi Savr Node LED+ Phase Adaptive, Commercial Application, Reverse Phase, (Zone 1) (Zones 2-4)	QSN-4A5-S	8% - 95%
	Energi Savr Node LED+ Phase Adaptive, Commercial Application, Forward Phase, (Zone 1) (Zones 2-4)	QSN-4A5-S	10% - 97%
	RadioRA®2, 120V, 50/60-Hz, 150W LED or 600W Incandescent/Halogen, 3-Way & 4-Way, Residential Application	RRD-6CL	10% - 95%
	RadioRA®3, 120V, 250W LED/CFL or 500W Incandescent/Halogen, Single Pole, Multi-Location	RRST-PRO-N	10% - 95%
	HomeWorks® QS, 120V, 60-Hz, 150W LED/CFL or 600W Incandescent/Halogen/MLV, Residential Application	HQRD-6CL(H2) HQRD-6CL(H2)	10% - 95%
	Homeworks QS, Residential Application, Reverse Phase	LQSE-4A-120-D	8% - 89%
	HomeWorks® for LED/Incandescent/Halogen loads, Reverse Phase, (Zone 1) (Zones 2-4)	LQSE-4A5-120-D	8% - 89%
	HomeWorks® for LED/Incandescent/Halogen loads, Forward Phase, (Zone 1) (Zones 2-4)	LQSE-4A5-120-D	10% - 100%
	Ariadni® C-L Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen	AYCL-153P	10% - 100%
	Skylark Contour® C-L, Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen	CTCL-153P	10% - 100%
	Skylark® C-L Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen	SCL-153P	10% - 100%
	Diva® Series 150W Single Pole/3-Way Dimmer	DVCL-153P	10% - 100%
	Skylark Contour® Single Pole/3-Way 1000W Incandescent/Halogen	CT-103P	10% - 100%

***NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details**

Disclaimer: Minimum and maximum loads for LEDs and CFLs are given in number of lamps and may vary depending on the lamp being used. Testing conducted by ELCO Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer specifications for more detailed information on product certifications and standards.

Integrating our lighting with your Smart Home System is a breeze. Simply check your Smart Home system for compatible smart switches and cross reference that with our Dimming Compatibility Chart. Once the switches are integrated with your Smart Home system your lights will be ready to go.



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120V - Triac/ELV Dimmers for ELK03, ELK07, ELK08, ELK09, ELK10, ELK11, and ELK13 Series			
Lutron	Skylark® Single Pole 300W ELV Preset Dimmer	SELV-300P	5% - 100%
	Skylark® Single Pole 600W Incandescent/Halogen, Slide-to-Off Dimmer	S-600P	5% - 100%
	Diva® 300W Single Pole/3-Way ELV Dimmer	DVELV-303P	10% - 100%
	Diva® 600W Single Pole Incandescent/Halogen Preset Dimmer	DV-600P	5% - 100%
	Ariadni® 600W Single Pole Magnetic Low Voltage Dimmer	AYLV-600P	5% - 100%
	Ariadni® 600W Single Pole/3-Way Incandescent/Halogen Dimmer	AY-603P	5% - 100%
	Maestro® 600W Single Pole/3-Way ELV Dimmer	MAELV-600	5% - 100%
	Maestro® C-L Single Pole/3-Way Dimmer. 150W Max for LED/CFL or 600W Max for Incandescent/Halogen	MACL-153M	10% - 100%
	Caséta® Wireless Dimmer	PD-6WCL	10% - 100%
SnapOne™	Control4® Centralized 8-Channel Adaptive Phase Dimmer, 120/277V AC, 50/60-Hz, 200W LED, 500W Fluorescent/CFL, 1000W Incandescent/Halogen/ELV/MLV*	C4-DIN-8APD	5% - 100%
	Control4® Centralized 8-Channel Forward Phase Dimmer, 100/120V AC, 50/60-Hz, 200W LED, 500W Fluorescent/CFL, 1000W Incandescent/Halogen/MLV*	C4-DIN-8FPD	25% - 100%
	Control4® Wireless Adaptive Phase Dimmer, 120V AC, 50/60-Hz, 120W LED, 300W Fluorescent/CFL, 600W Incandescent/Halogen	C4-APD120	23% - 100%
	Control4® Forward Phase Dimmer, 120V AC, 50/60-Hz, 200W LED, 500W Fluorescent/CFL, 1000W Incandescent/Halogen	C4-FPD120	4% - 100%
	Control4® Essential Forward Phase Dimmer, 120V AC, 60-Hz, 300W LED, 300W Fluorescent/CFL, 600W Incandescent/Halogen	C4-V-FPD120	1% - 100%

*MLV each transformer must be loaded to at least 50% of its maximum load

***NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details**

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