

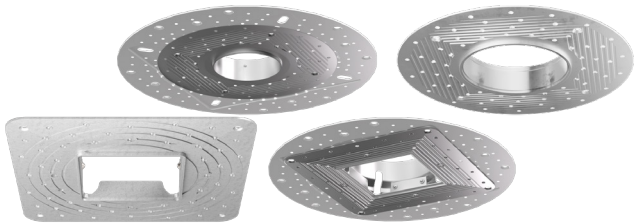
DOWNSizer™ RING

Convert 8", 7", 6" or 5" Housings down to 2", 3" or 4" Downlights

For use in enclosed housings.

THE KOTO™ DOWNSIZER RING

Our Simple Downsizer Ring allows you to reduce 8", 7", 6", 5" and 4" Existing Recessed housings down to 2", 3" or 4" Downlights.

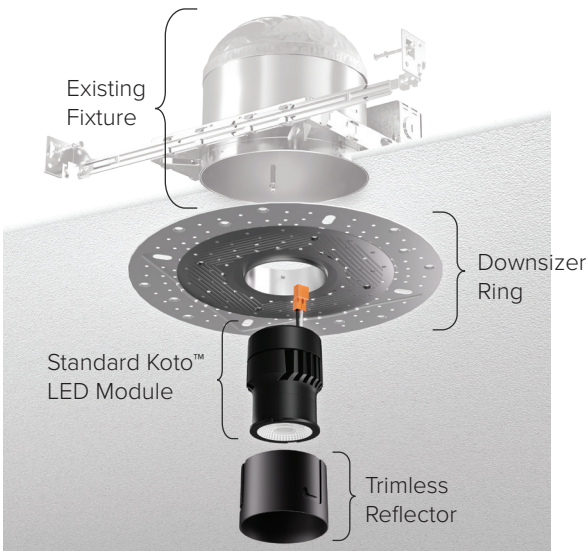


KOTO™ FEATURES

- Integral 120V, Triac/ELV dimmable driver on module for easy retrofitting
- 10°, 18°, 25°, 38°, 60°, and 90° beam angle options
- Excellent color rendering 95+ CRI
- Title 24 JA8-2022 E-Compliant
- ENERGY STAR Compliant
- Covered by U.S. PATENTS and Patents Pending

SET UP

1. Select a Koto™ LED Module.
2. Select Downsizer Ring
3. Select a Trim.



SPECIFICATIONS

Lumens/Wattage	350 lm (5W), 750 lm (10.5W), 850 lm (10.5W), 950 lm (10.5W), 1000 lm (12.5W), 1150 lm (12.5W), 1350 lm (12.5W)
Voltage	120V
Color Temp.	2400K, 2700K, 3000K, 3500K, 4000K, CT5, Sunset, or Human Centric
CRI	95+
Damp Location	Adjustable Trims
Wet Location	Fixed Trims
Dimming	Triac/ELV (5%)
Beam Angle	10°, 18°, 25°, 38°, 60° & 90°

Finishes



PRODUCT NUMBER BUILDER

STEP 1. Specify Koto™ LED Module part number (Select one) Example: ELK0730

ITEM	LUMENS/WATTAGE		COLOR TEMPERATURE		BEAM ANGLE	
ELK						
	Standard Koto™ LED Module					
	03 ^{1,2}	350 lm (5W)	24	2400K	(Blank)	38° ⁵
	07 ¹	750 lm (10.5W)	27	2700K	-S	18°
	09 ¹	950 lm (10.5W)	30	3000K	-N	25°
	11 ¹	1150 lm (12.5W)	35	3500K	-W	60°
	13 ¹	1350 lm (12.5W)	40	4000K	-E	90° ⁶
			SD ³	Sunset		
			HC ⁴	Human Centric		
	08 ¹	850 lm (10.5W)	CT5 CCT Switch: 2700K, 3000K, 3500K, 4000K, 5000K			
	10 ¹	1000 lm (12.5W)				
	¹ 120V, Triac/ELV dimming ² Available in 2700K & 3000K		³ Sunset, Dim to Warm technology, dims from 3000K to 1800K. Available with ELK09 & ELK11 only ⁴ Human Centric, Dim to Warm technology, dims from 4000K to 2200K. Available with ELK11 module only		⁵ 38° installed on module with 25° & 60° included in the box ⁶ 90° available with frosted reflector only	
	10° Narrow Spot Koto™ LED Module					
03 ¹	350 lm (5W)	27	2700K	-NSP ⁷	10°	
08 ¹	850 lm (10.5W)	30	3000K			
¹ 120V, Triac/ELV dimming				⁷ 10° installed on module, field changeable 25° & 38° lens included in box		
	Standard Koto™ FOCUS LED Module					
	07 ¹	720-860 lm (10.5W)	27	2700K	-FC ⁸	18°-50°
			30	3000K		
			35	3500K		
			40	4000K		
			SD ³	Sunset		
	¹ 120V, Triac/ELV dimming		³ Sunset, Dim to Warm technology, dims from 3000K to 1800K		⁸ Adjustable Focus offers 18°-50° with a twist of the snoot.	

Field Changeable Secondary Module Optics (Not Compatible with Koto Focus Module)											
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

Socket Adapters for Retrofitting Existing Housings (Adapters to male Quick Connect)				
PSA30	PSA31	PSA38	PSA38-4	PSA38-22
E26 Medium Base Adapter	GU10 Base Adapter	Hard Wire Adapter	4" Hard Wire Adapter	22" Rewiring Kit Hard Wire Adapter

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		

PRODUCT NUMBER BUILDER

STEP 2. Specify Downsizer part number

2" KOTO™ TRIMLESS



Style: **Downsizer Ring to convert 5", 6", 7" and 8" housings down to a 2" Trimless**

Item: **EDSR-2SFRD**



Style: **Downsizer ring to Convert 3" and 4" Housings down to a 2" Trimless**

Item: **EL2SFR**



Style: **2" Adjustable Trimless Reflector**
Requires EDSR-2SFRD or EL2SFR
(Sold separately)

Item: **ELK215W** (All White)
ELK215B (All Black)

2" KOTO™ TRIM



Style: **Downsizer Ring to convert 5", 6", 7" and 8" housings down to a 2" Trim**

Item: **EDSR-3SFRD**



Style: **Downsizer ring to Convert 3" and 4" housings down to a 2" Trim**

Item: **EL3SFR**



Style: **2" Fixed Deep Reflector**
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

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



Style: **2" Adjustable Reflector**
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

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



Style: **2" Adjustable Pinhole**
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

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



Style: **2" Sleek Reflector**
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

Item: **ELK2863W** (All White)
ELK2863BB (All Black)



Style: **2" Curved Reflector**
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

Item: **ELK2872W** (All White)
ELK2872B (All Black)



Style: **2" Adjustable Gimbal**
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

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



Style: **2" Fixed Deep Reflector**
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

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



Style: **2" Adjustable Reflector**
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

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



Style: **2" Adjustable Pinhole**
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

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



Style: **2" Square Reflector**
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

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



2" Adjustable Pinhole
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

ELK2588W (All White)
ELK2588B (All Black)
ELK2588BZ (All Bronze)



2" Sleek Wall Wash Reflector
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

ELK2883W (All White)
ELK2883BB (All Black)

PRODUCT NUMBER BUILDER

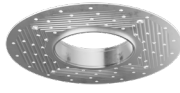
STEP 2. Specify Downsizer part number

3" KOTO™ ROUND TRIMLESS



Style: **Downsizer Ring to convert 5", 6", 7" and 8" housings down to a 3" Round Trimless**

Item: **EDSR-3SFRD**



Style: **Downsizer ring to Convert 4" Housings down to a 3" Round Trimless**

Item: **EL3SFR**



Style: **3" Adjustable Trimless Reflector**
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

Item: **ELK315W** (All White)
ELK315B (All Black)
ELK315H (Haze)



Style: **3" Trimless Reflector**
Requires EDSR-3SFRD or EL3SFR
(Sold separately)

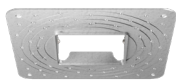
Item: **ELK308W** (White)
ELK308B (All Black)
ELK308H (Haze)

3" KOTO™ SQUARE TRIMLESS



Style: **Downsizer Ring to convert 5", 6", 7" and 8" housings down to a 3" Square Trimless**

Item: **EDSR-3SFSQ**



Style: **Downsizer ring to Convert 4" Housings down to a 3" Square Trimless**

Item: **EL03SFS**



Style: **3" Square Trimless Reflector**
Requires EDSR-3SFSQ or EL03SFS
(Sold separately)

Item: **ELK370W** (All White)
ELK370B (All Black)
ELK370H (Haze)



Style: **3" Square Adjustable Trimless Reflector**
Requires EDSR-3SFSQ or EL03SFS
(Sold separately)

Item: **ELK381W** (White)
ELK381B (All Black)
ELK381H (Haze)

4" KOTO™ ROUND TRIMLESS



Style: **Downsizer Ring to convert 5", 6", 7" and 8" housings down to a 4" Round Trimless**

Item: **EDSR-4SFRD**



Style: **4" Adjustable Trimless Reflector**
Requires EDSR-4SFRD
(Sold separately)

Item: **ELK415W** (All White)
ELK415B (All Black)
ELK415BZ (All Bronze)
ELK415H (All Haze)



Style: **4" Fixed Trimless Reflector**
Requires EDSR-4SFRD
(Sold separately)

Item: **ELK408W** (All White)
ELK408B (All Black)
ELK408BZ (All Bronze)
ELK408H (All Haze)

4" KOTO™ SQUARE TRIMLESS



Style: **Downsizer Ring to convert 5", 6", 7" and 8" housings down to a 4" Square Trimless**

Item: **EDSR-4SFSQ**



Style: **4" Fixed Trimless Reflector**
Requires EDSR-4SFSQ
(Sold separately)

Item: **ELK445W** (All White)
ELK445B (All Black)



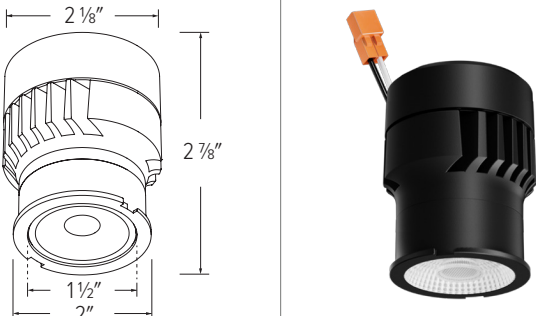
Style: **4" Adjustable Trimless Reflector**
Requires EDSR-4SFSQ
(Sold separately)

Item: **ELK459W** (All White)
ELK459B (All Black)
ELK459H (All Haze)

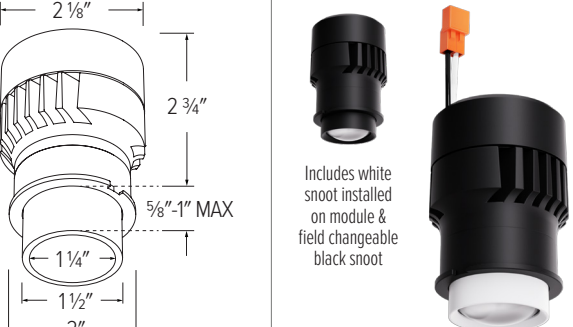
PRODUCT DIMENSIONS

STANDARD KOTO™ LED MODULES

ELK03/ELK07/ELK09/ELK11/ELK13/ELK08/ELK10
STANDARD KOTO™ LED MODULE



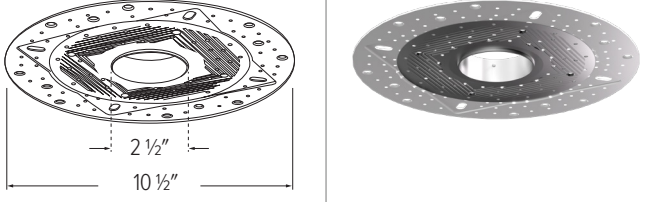
ELK0727-FC/ELK0730-FC/ELK0735-FC/ELK0740-FC/ELK07SD-FC
STANDARD KOTO™ FOCUS LED MODULE



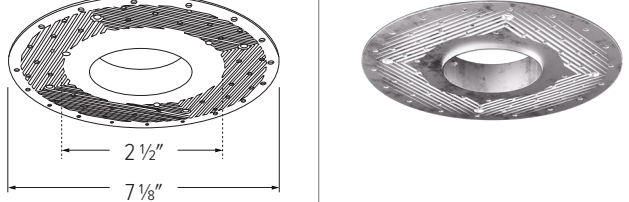
Includes white snout installed on module & field changeable black snout

2" KOTO™ TRIMLESS

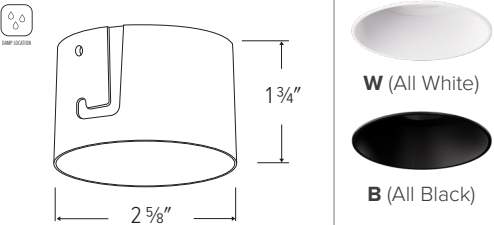
EDSR-2SFRD - DOWNSIZER RING
CONVERTS 5", 6", 7" AND 8" HOUSINGS DOWN TO A 2" TRIMLESS



EL2SFR - DOWNSIZER RING
CONVERTS 3" AND 4" HOUSINGS DOWN TO A 2" TRIMLESS



ELK215 - 2" ROUND ADJUSTABLE TRIMLESS REFLECTOR

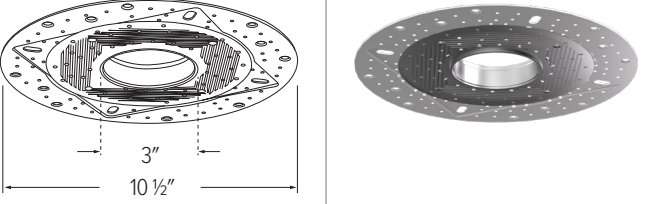


Requires EDSR-2SFRD or EL2SFR (Sold separately)

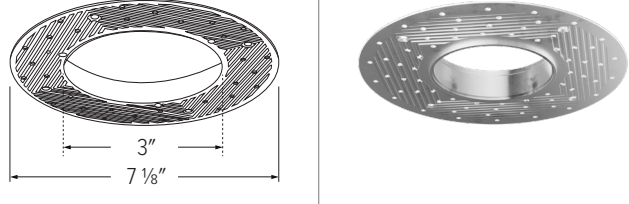
W (All White)
B (All Black)

2" KOTO™ TRIMS

EDSR-3SFRD - DOWNSIZER RING
CONVERTS 5", 6", 7" AND 8" HOUSINGS DOWN TO A 2" TRIM



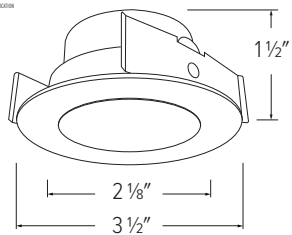
EL3SFR - DOWNSIZER RING
CONVERTS 3" AND 4" HOUSINGS DOWN TO A 2" TRIM



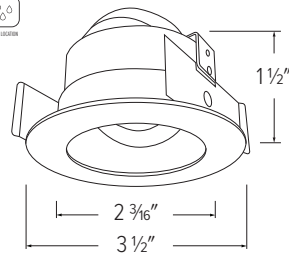
PRODUCT DIMENSIONS

2" KOTO™ TRIMS

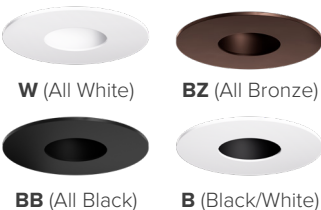
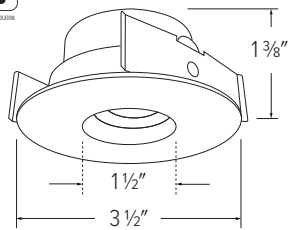
ELK2818 - 2" ROUND DEEP REFLECTOR



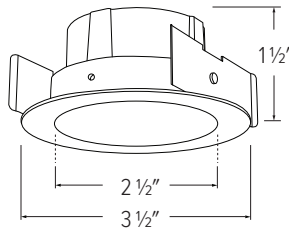
ELK2829 - 2" ROUND ADJUSTABLE REFLECTOR



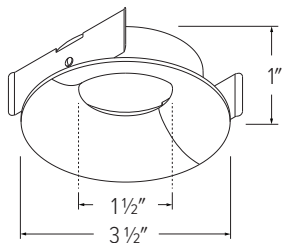
ELK2827 - 2" ROUND ADJUSTABLE PINHOLE



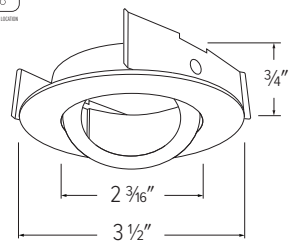
ELK2863 - 2" ROUND SLEEK REFLECTOR



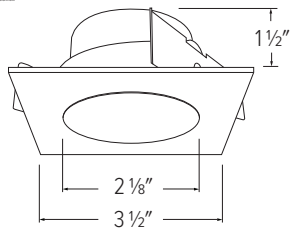
ELK2872 - 2" ROUND CURVED REFLECTOR



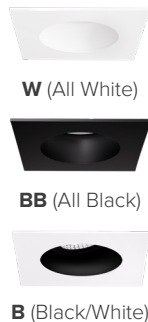
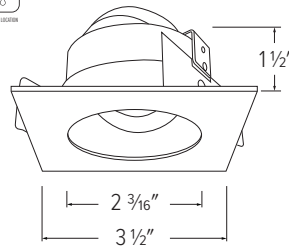
ELK2888 - 2" ROUND GIMBAL



ELK2518 - 2" SQUARE DEEP REFLECTOR



ELK2529 - 2" SQUARE ADJUSTABLE REFLECTOR



PRODUCT DIMENSIONS

2" KOTO™ TRIMS

ELK2527 - 2" SQUARE ADJUSTABLE PINHOLE

358° Rotation - 30° Tilt

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

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)

ELK2883 - 2" ROUND SLEEK WALL WASH REFLECTOR

W (All White)
BB (All Black)

3" KOTO™ ROUND TRIMLESS

EDSR-3SFRD - DOWNSIZER RING CONVERTS 5", 6", 7" AND 8" HOUSINGS DOWN TO A 3" ROUND TRIMLESS

EL3SFR- DOWNSIZER RING CONVERTS 4" HOUSINGS DOWN TO A 3" ROUND TRIMLESS

ELK315 - 3" ROUND ADJUSTABLE TRIMLESS REFLECTOR

W (All White) **H** (All Haze)
B (All Black)

Requires EDSR-3SFRD or EL3SFR (Sold separately)

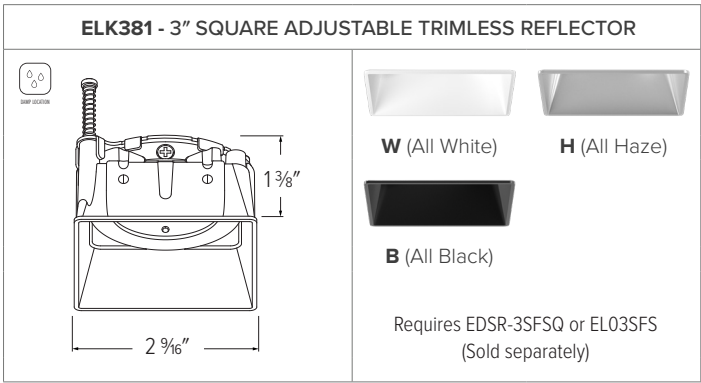
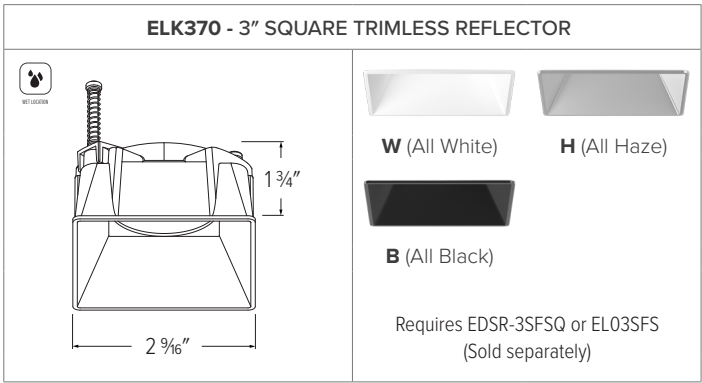
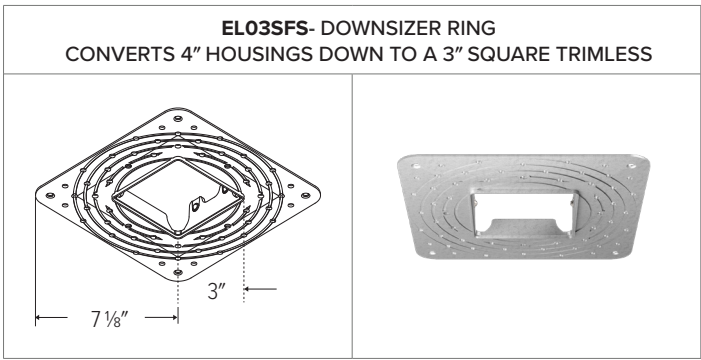
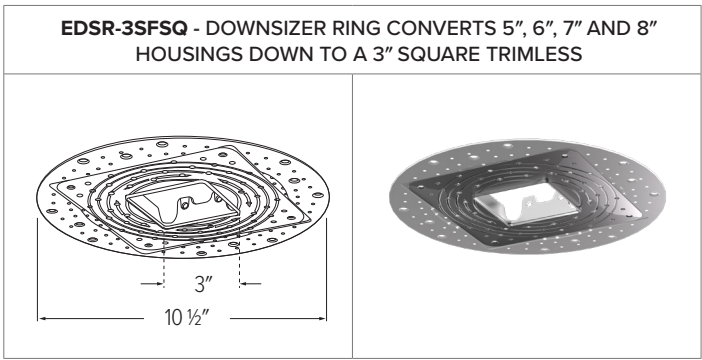
ELK308 - 3" ROUND TRIMLESS REFLECTOR

W (All White) **H** (All Haze)
B (All Black)

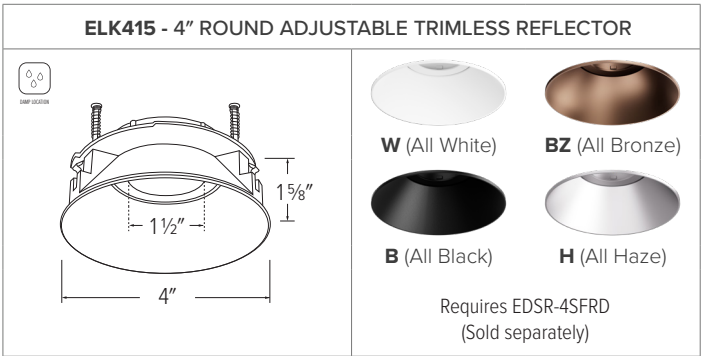
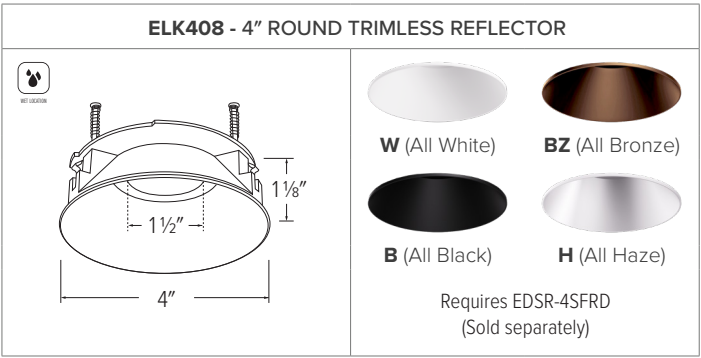
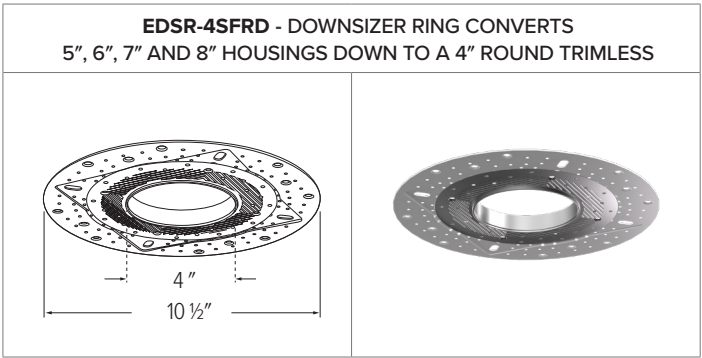
Requires EDSR-3SFRD or EL3SFR (Sold separately)

PRODUCT DIMENSIONS

3" KOTO™ SQUARE TRIMLESS



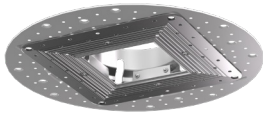
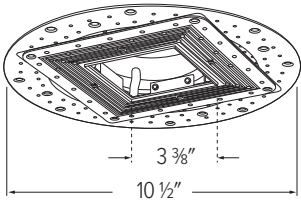
4" KOTO™ ROUND TRIMLESS



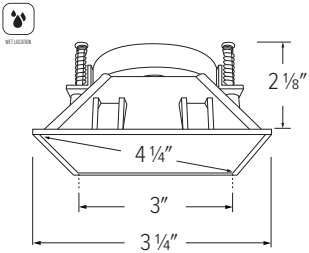
PRODUCT DIMENSIONS

4" KOTO™ SQUARE TRIMLESS

EDSR-4SFSQ - DOWNSIZER RING CONVERTS 5", 6", 7" AND 8" HOUSINGS DOWN TO A 4" SQUARE TRIMLESS



ELK445 - 4" SQUARE TRIMLESS REFLECTOR



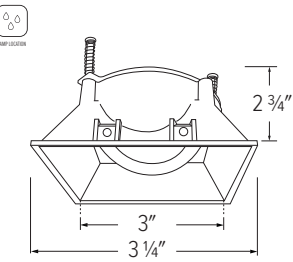
W (All White)



B (All Black)

Requires EDSR-4SFSQ
(Sold separately)

ELK459 - 4" SQUARE ADJUSTABLE TRIMLESS REFLECTOR



W (All White)



H (All Haze)



B (All Black)

Requires EDSR-4SFSQ
(Sold separately)

TECHNICAL DETAILS

Optics: Polycarbonate module lens diffuses light evenly throughout while reducing glare with LED technology. Standard lens is shatterproof

Construction

Light Engine: Diecast aluminum body with heat fins allow for efficient cooling

Downsizer Ring: Made of high quality metal.

Trims: Diecast aluminum trims with powder coated finish.

Installation: Twist-on design for toolless trim installation. Module must be installed into an enclosed housing. Koto Standard is not compatible with open frames.

For open frames see KOTO Max and Koto Canless systems. Koto Standard module and wiring must be inside of housing.

Disclaimer: Downsizer ring may limit can from being removed from ceiling, installer is responsible to make sure they still have access to the housing's junction box after installing downsizer ring.

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 heatsink. Instant On to Full Brightness technology. No LED pixilation.

Electrical: Module connects to 120V power supply. High efficiency driver with a power factor >0.9. Start time of less than 0.75 seconds.

Dimming: Works with 120V 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.

Human-Centric: Human-centric(HC) is our dim-to-warm LED technology that mimics the change of natural light throughout the day. Our HC items start at 4000K and go as low as 2200K when dimmed. For HC technology be sure to order an item with the "HC" in the Color Temperature (CCT) attribute.

Listings: RoHS Compliant. Meets Energy Star & California Title 24 JA8-2022-E standards

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.



DIMMER COMPATIBILITY CHART

FOR REFERENCE ONLY

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MANUFACTURER	PRODUCT	PART NUMBER	DIMMED LIGHT OUTPUT RANGE
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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