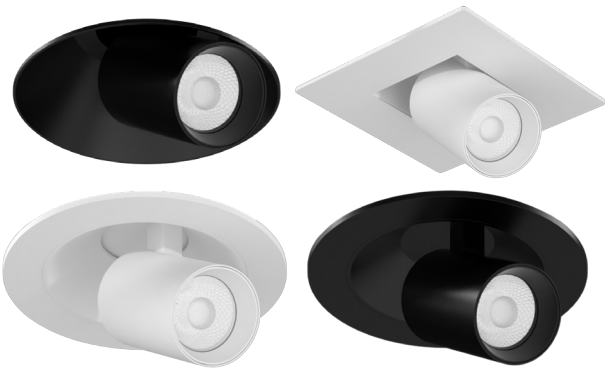
ELCO Lighting

Project Name:
Fixture Type:
Date:

4" KOTO™ AIM DOWNLIGHTING SYSTEM

10W, 2700K, 3000K, 1000 lm, 120V



THE KOTO™ AIM SYSTEM

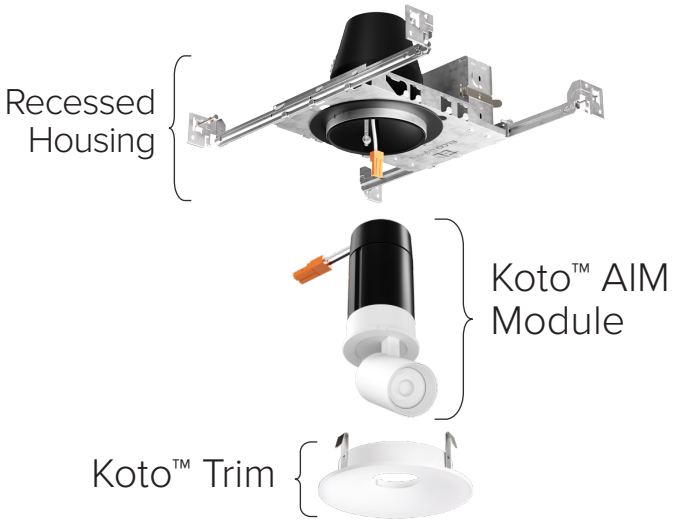
Designed for flexibility and precision, the Koto™ AIM System combines an adjustable LED module with interchangeable trims and field-changeable optics to direct light where it is needed. Its modular design simplifies installation, maintenance, and future upgrades, while a range of trim styles and beam angles provides the flexibility to achieve the desired lighting effect.

FEATURES

- Integral 120V, Triac/ELV dimmable driver on module for easy maintenance and upgrades
- 15°, 24°, 36° & 50° beam angle options
- Excellent color rendering 95+ CRI
- Title 24 JA8-2025-E Compliant
- ENERGY STAR Compliant
- Covered by U.S. PATENTS and Patents Pending

SET UP

1. Select a New Construction, Remodel Housing, or Retrofit Socket Adapter.
2. Select a Koto™ AIM LED Module.
3. Select a Trim.



SPECIFICATIONS

Lumens/Wattage	1000 lm (10W)
Voltage	120V
Color Temp.	2700K & 3000K
CRI	95+
Damp Location	UL Listed
Dimming	Triac/ELV (1%)
Beam Angle	15°, 24°, 36° & 50°
Finishes	All White, All Black

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PRODUCT NUMBER BUILDER

STEP 1. Specify Housing part number (Select one) Example: EL490ICA

4" IC AIRTIGHT RECESSED HOUSINGS

ITEM	STYLE	ICA	OPTIONAL EMERGENCY BATTERY BACKUP
EL4			
	Standard New Construction/Remodel Housings		
	90[1] New Construction (5 ½" Height)	**ICA** IC Airtight	**(Blank)** No Battery Backup
	90R[2] Remodel (5 ½" Height)		**-EM5**[3] 90 min., 25W MAX
	[1] Collar adjustable up to 2 ¼" ceiling thickness [2] Collar adjustable up to ⅝" ceiling thickness		[3] Accessible from below the ceiling
	R-60 Foam Insulation New Construction Housings		
	90AJ[1] New Construction (5 ½" Height)	**ICA** IC Airtight	
	[1] Collar adjustable up to 1 ½" ceiling thickness		
	2-Hr Fire Rated New Construction Housing		
	8F[1] New Construction (6 ⅞" Height)	**ICA** IC Airtight	**(Blank)** No Battery Backup
			-EM5[2] 90 min., 25W MAX
	[1] Collar adjustable up to 1 ½" ceiling thickness		[2] Access from above required
EJB			
	New Construction Housings for 2-Hr Fire Rated Ceilings		
	483[1] Max. Adjustability New Construction 2-Hr Junction Box (4" Height)	**ICA** IC Airtight	**(Blank)** No Battery Backup
	[1] Collar adjustable up to 1 ¼" ceiling thickness		

Socket Adapters for Retrofitting Existing ELCO 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

STEP 2. Specify Koto™ LED Module part number (Select one) Example: ELK1027-AM-W

ITEM	COLOR TEMPERATURE		FINISHES	
ELK10				
	AIM Koto™ LED Module			
	27-AM	2700K	**-W**	All White
	30-AM	3000K	**-BB**	All Black

Koto™ Modules - Lumen Value Multiplier

CCT	Multiplier
2700K	0.96
3000K	1

Field Changeable Secondary Module Optics

L63	L64
HEX LOUVER All Black	HEX LOUVER All White

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PRODUCT NUMBER BUILDER

STEP 3. Specify Trim part number (Select one)

4" KOTO™ ROUND TRIMS



Style: **Adjustable Reflector**

Item: **ELK4129W** (All White)
ELK4129BB (All Black)
ELK4129BZ (All Bronze)
ELK4129B (Black/White Ring)
ELK4129C (Chrome/White Ring)
ELK4129H (Haze/White Ring)



Style: **Fixed Deep Reflector**

Item: **ELK4118W** (All White)
ELK4118BB (All Black)
ELK4118BZ (All Bronze)
ELK4118B (Black/White Ring)
ELK4118C (Chrome/White Ring)
ELK4118H (Haze/White Ring)



Style: **Adjustable Pinhole**

Item: **ELK4127W** (All White)
ELK4127BB (All Black)
ELK4127BZ (All Bronze)
ELK4127B (Black/White Ring)
ELK4127H (Haze/White Ring)



Style: **Shallow Reflector**

Item: **ELK4116W** (All White)
ELK4116H (Haze/White Ring)



Style: **Curved Reflector**

Item: **ELK4172W** (All White)
ELK4172B (All Black)



Style: **Adjustable Spot**

Item: **ELK4188W** (All White)
ELK4188B (All Black)
ELK4188BZ (All Bronze)



Style: **Sleek Reflector**

Item: **ELK4163W** (All White)
ELK4163BB (All Black)



Style: **Flush Mount Spackle Frame**

Item: **EL4FMR**
Compatible with ELK4116, ELK4118, ELK4127, ELK4129, ELK4163 trims

4" KOTO™ SQUARE TRIMS



Style: **Shallow Reflector**

Item: **ELK4216W** (All White)
ELK4216H (Haze/White Ring)



Style: **Adjustable Pinhole**

Item: **ELK4227W** (All White)
ELK4227BB (All Black)
ELK4227BZ (All Bronze)
ELK4227B (Black/White Ring)
ELK4227H (Haze/White Ring)



Style: **Adjustable Reflector**

Item: **ELK4282W** (All White)
ELK4282BZ (All Bronze)



Style: **Square Reflector**

Item: **ELK4741WW** (All White)
ELK4741BB (All Black)
ELK4741BZBZ (All Bronze)
ELK4741BW (Black/White Ring)
ELK4741HW (Haze/White Ring)
Must be used with New Construction Housings



Style: **Flush Mount Spackle Frame**

Item: **EL4FMS**
Compatible with ELK4216, ELK4227 trims

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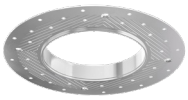
PRODUCT NUMBER BUILDER

STEP 3. Specify Trim part number (Select one)

4" KOTO™ ROUND TRIMLESS (For use with EL490AJICA Housing only)



Style: **Fixed Trimless Reflector**
Item: **ELK408W** (All White)
ELK408B (All Black)
ELK408BZ (All Bronze)
ELK408H (All Haze)
Requires EL4SFR or EL4WCARD (Sold separately)



Style: **Trimless Spackle Frame**
Item: **EL4SFR**
For use with ELK408



Style: **Trimless Wood Ceiling Ring**
Item: **EL4WCARD**
For use with ELK408

4" KOTO™ SQUARE TRIMLESS (For use with EL490AJICA Housing only)



Style: **Fixed Trimless Reflector**
Item: **ELK445W** (All White)
ELK445B (All Black)
Requires EL4SFS (Sold separately)

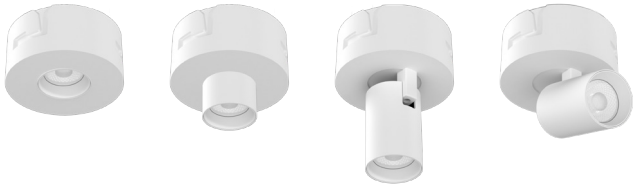


Style: **Trimless Spackle Frame**
Item: **EL4SFS**
For use with ELK445

KOTO™ AIM

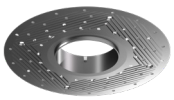


Style: **Koto™ AIM Trimless**
Item: **ELK273W** (All White)
ELK273B (All Black)
Must be used with Spackle Frame EL2SFR



ELK10 + ELK273W Full Retraction → Full Extension Height → Maximum Tilt





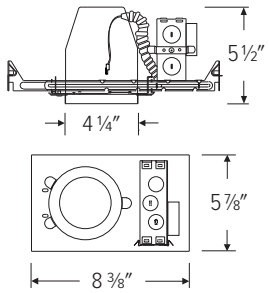
Style: **Trimless Spackle Frame**
Item: **EL2SFR**
For use with ELK273 Koto™ AIM Trimless

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PRODUCT DIMENSIONS

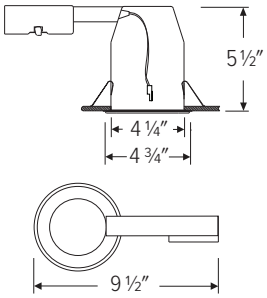
STANDARD KOTO™ IC AIRTIGHT RECESSED HOUSINGS

EL490ICA
STANDARD NEW CONSTRUCTION HOUSING



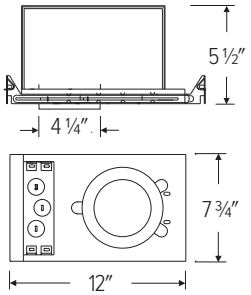


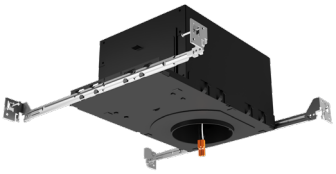
EL490RICA
STANDARD REMODEL HOUSING



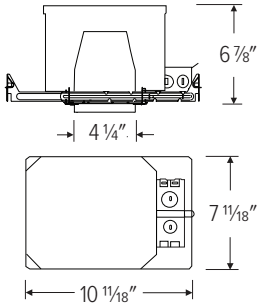


EL490AJICA
R-60 FOAM INSULATED NEW CONSTRUCTION HOUSING



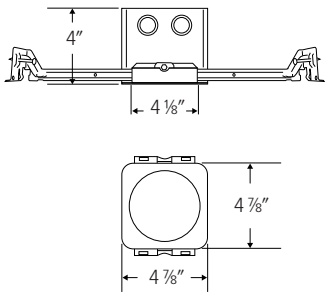


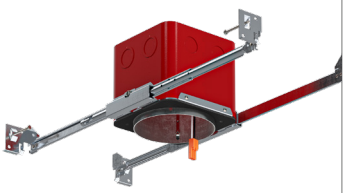
EL48FICA
2-HOUR FIRE RATED NEW CONSTRUCTION HOUSING





EJB483ICA
NEW CONSTRUCTION HOUSING JBOX FOR 2-HOUR FIRE RATED CEILINGS



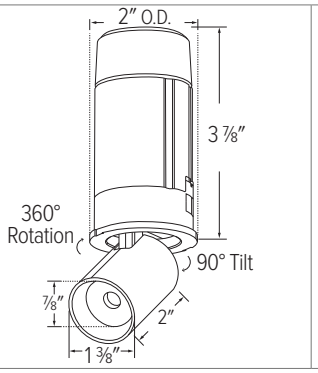


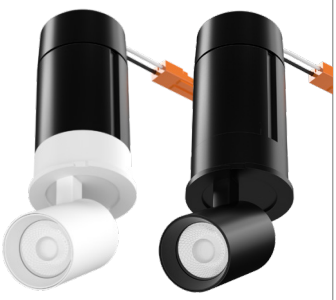
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PRODUCT DIMENSIONS

KOTO™ AIM LED MODULE

ELK10XX-AM
KOTO™ AIM LED MODULE

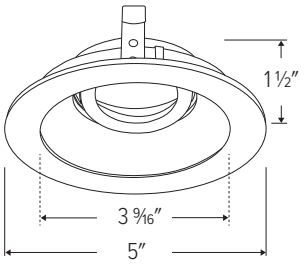




-W (All White) **-BB** (All Black)



KOTO™ TRIMS



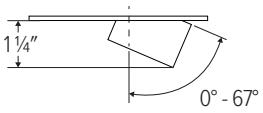
358° Rotation
25° tilt (for EL490 Series)

ELK4129 - 4″ ROUND ADJUSTABLE REFLECTOR

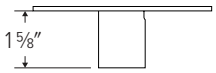


W (All White) **B** (Black/White)
BB (All Black) **C** (Chrome/White)
BZ (All Bronze) **H** (Haze/White)

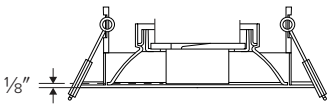
ELK10 + ELK4129 Max. Tilt

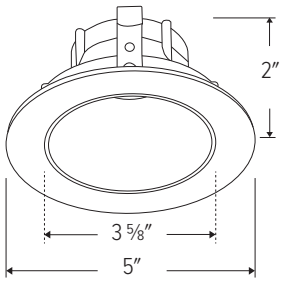


ELK10 + ELK4129 Full Extension Height



ELK10 + ELK4129 Full Retraction Height



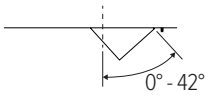


ELK4118 - 4″ ROUND DEEP REFLECTOR

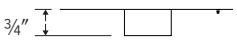


W (All White) **B** (Black/White)
BB (All Black) **C** (Chrome/White)
BZ (All Bronze) **H** (Haze/White)

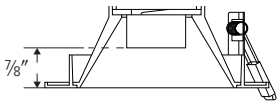
ELK10 + ELK4118 Max. Tilt

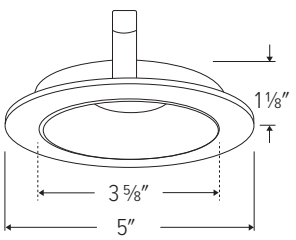


ELK10 + ELK4118 Full Extension Height



ELK10 + ELK4118 Full Retraction Height



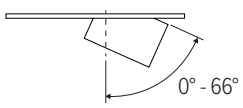


ELK4116 - 4″ ROUND SHALLOW REFLECTOR

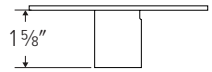


W (All White)
H (Haze/White)

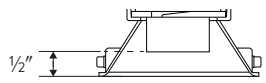
ELK10 + ELK4116 Max. Tilt



ELK10 + ELK4116 Full Extension Height



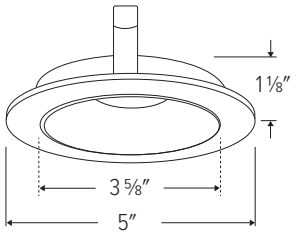
ELK10 + ELK4116 Full Retraction Height



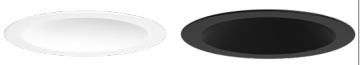
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PRODUCT DIMENSIONS

KOTO™ TRIMS

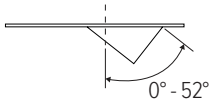


ELK4163 - 4″ ROUND SHALLOW REFLECTOR



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

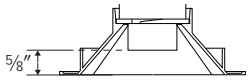
ELK10 + ELK4163 Max. Tilt

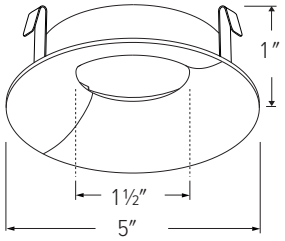


ELK10 + ELK4163 Full Extension Height



ELK10 + ELK4163 Full Retraction Height



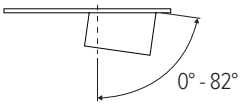


ELK4172 - 4″ ROUND CURVED REFLECTOR

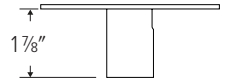


W (All White) **B** (All Black)

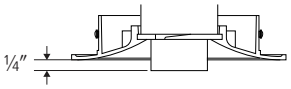
ELK10 + ELK4172 Max. Tilt

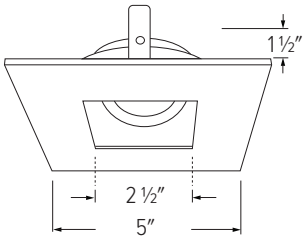


ELK10 + ELK4172 Full Extension Height



ELK10 + ELK4172 Full Retraction Height





25° tilt (for EL490 Series)

ELK4227 - 4″ SQUARE ADJUSTABLE PINHOLE

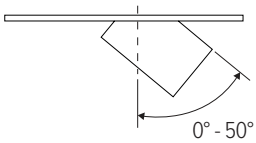


W (All White) **B** (Black/White)

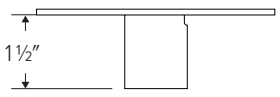
BB (All Black) **H** (Haze/White)

BZ (All Bronze)

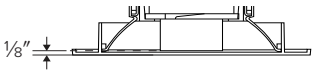
ELK10 + ELK4227 Max. Tilt

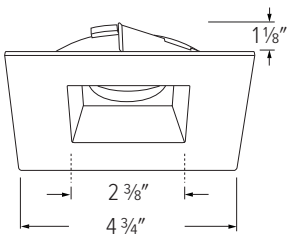


ELK10 + ELK4227 Full Extension Height



ELK10 + ELK4227 Full Retraction Height





Must be used with Maximum Adjustability Housings

ELK4741 - 4″ SQUARE REFLECTOR

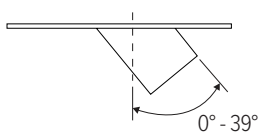


WW (All White) **BW** (Black/White)

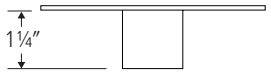
BB (All Black) **HW** (Haze/White)

BZBZ (All Bronze)

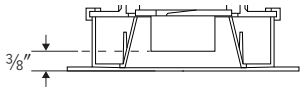
ELK10 + ELK4741 Max. Tilt



ELK10 + ELK4741 Full Extension Height



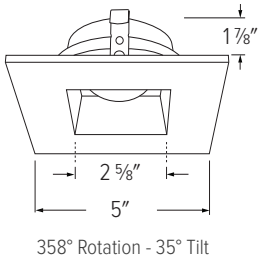
ELK10 + ELK4741 Full Retraction Height



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PRODUCT DIMENSIONS

KOTO™ TRIMS



358° Rotation - 35° Tilt

ELK4282 - 4″ SQUARE ADJUSTABLE REFLECTOR

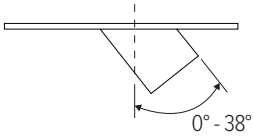


W (All White)

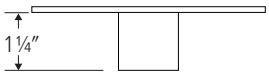


BZ (All Bronze)

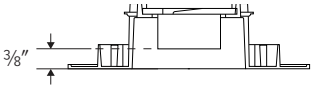
ELK10 + ELK4282 Max. Tilt

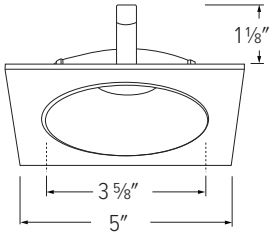


ELK10 + ELK4282 Full Extension Height



ELK10 + ELK4282 Full Retraction Height





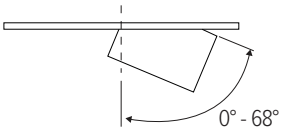
ELK4216 - 4″ SQUARE SHALLOW REFLECTOR

W (All White)

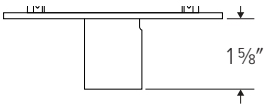


H (Haze/White)

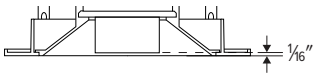
ELK10 + ELK4216 Max. Tilt

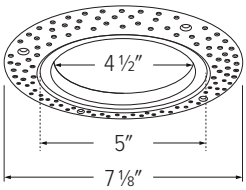


ELK10 + ELK4216 Full Extension Height



ELK10 + ELK4216 Full Retraction Height

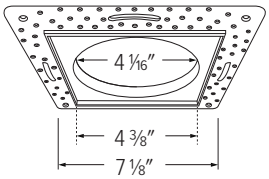




Compatible with ELK4116, ELK4118, & ELK4129 trims

EL4FMR - 4″ ROUND FLUSH MOUNT SPACKLE FRAME



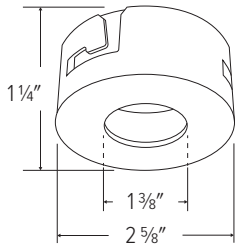


EL4FMS - 4″ SQUARE FLUSH MOUNT SPACKLE FRAME



Compatible with ELK4216, ELK4218 & ELK4227 trims

KOTO™ ROUND TRIMLESS



To be used with EL2SFR spackle frame

ELK273 - 2" Round Koto™ AIM Trim

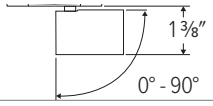


W (All White)

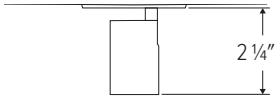


B (All Black)

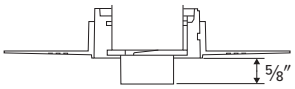
ELK10 + ELK273 Max. Tilt



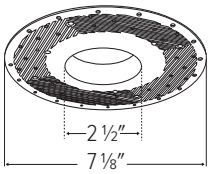
ELK10 + ELK273 Full Extension Height



ELK10 + ELK273 Full Retraction Height



EL2SFR - 2″ ROUND TRIMLESS SPACKLE FRAME



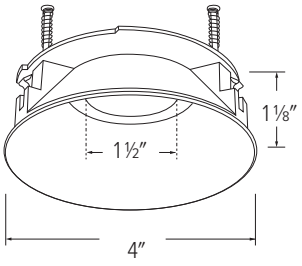


To be used with ELK273 only

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PRODUCT DIMENSIONS

KOTO™ ROUND TRIMLESS



ELK408- 4″ ROUND TRIMLESS SMOOTH REFLECTOR

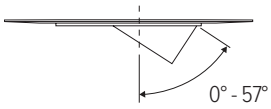


W (All White) **BZ** (All Bronze)

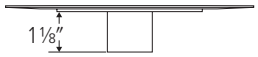
B (All Black) **H** (All Haze)

Requires EL4SFR (Sold Separately)

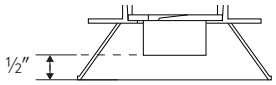
ELK10 + ELK408 Max. Tilt



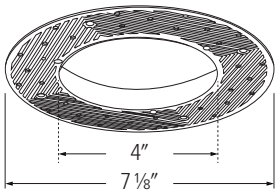
ELK10 + ELK408 Full Extension Height



ELK10 + ELK408 Full Retraction Height



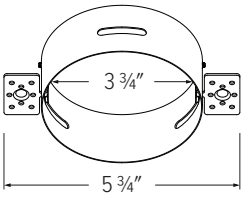
EL4SFR - 4″ ROUND TRIMLESS SPACKLE FRAME





For use with ELK408

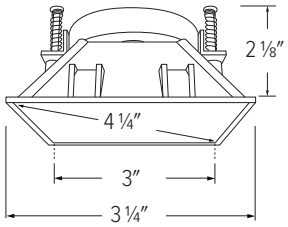
EL4WCARD - 4″ ROUND TRIMLESS WOOD CEILING RING





For use with ELK408

KOTO™ SQUARE TRIMLESS



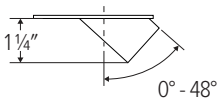
ELK445 - 4″ SQUARE TRIMLESS REFLECTOR



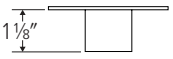
W (All White) **B** (All Black)

Requires EL4SFS (Sold separately)

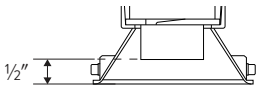
ELK10 + ELK445 Max. Tilt



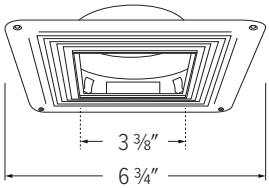
ELK10 + ELK445 Full Extension Height



ELK10 + ELK445 Full Retraction Height



EL4SFS - 4″ SQUARE TRIMLESS SPACKLE FRAME



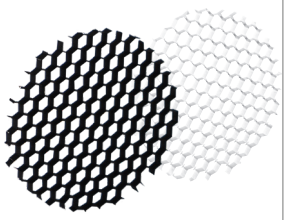


For use with ELK445

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ACCESSORIES

LENS AND OPTICS

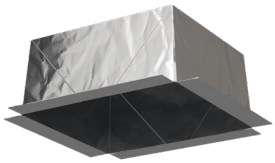
HEX LOUVER

L64 (White) / **L63** (Black) For a better glare shield

ACCESSORIES FOR RETROFITS

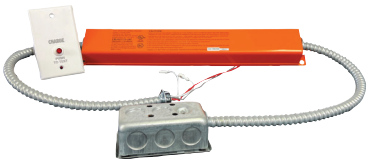
(socket adapters for retrofitting existing housings - adapters to male Quick Connect)

Medium Base Adapter	GU10 Base Adapter	Hard Wire Adapter	4″ Hard Wire Adapter	22″ Rewiring Kit
				
PSA30 Socket adapter medium base to LED Quick Connect	**PSA31** Socket adapter GU10 to LED Quick Connect	**PSA38** Hard wire adapter to male Quick Connect terminal	**PSA38-4** 4″ Hard wire adapter to male Quick Connect terminal	**PSA38-22** 22″ Rewiring kit to male Quick Connect terminal

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: 110VAC, 25W Charging time: 36 hours cUL listed - Suitable for damp location

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TECHNICAL DETAILS

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

Construction (Light Engine): Diecast aluminum body allow for efficient cooling

Installation (Light Engine): Twist-on design for toolless trim installation. For use with standard Koto™ trims only. Can be used in 4″ ELCO housings with quick connect base.

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 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 pixelation.

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 1%. 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.
RoHS Compliant. Meets Energy Star & California Title 24 JA8-2025-E standards.

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

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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
Lutron	Caséta Wireless In-Wall Dimmer (PD-6WCL)	PD-6WCL	1% - 100%
	Maestro PRO LED + Tap Dimmer, 250 Watts of dimmable LED/CFL, 500 Watts of incandescent/halogen/ELV, or 400VA MLV lighting loads	MA-PRO	1% - 100%
	Maestro LED+ Dimmer Switch 150 W LED/CFL, 150W of dimmable LEDs, 600W of incandescent or halogen lighting	MACL-153M	1% - 100%
	Skylark Contour LED+ Preset Dimmer, Incandescent / Halogen, 600 W, 120 V, LED / CFL, 150 W, 120 V	CTCL-153P	1% - 100%
	Diva LED, Single Pole, 3-Way, LED+ Preset Dimmer, Incandescent / Halogen, 120 V, LED / CFL, 120 V	DVCL-153P	1% - 100%
	Skylark LED+, Single Pole, 3-Way, LED+ Dimmer, Incandescent / Halogen, 600 W, 120 V, LED / CFL, 150 W, 120 V	SCL-153P	1% - 100%
	Maestro, 600 W/600 VA Neutral Wire Dimmer, 120 V - 50/60 Hz	RRD-6ND	1% - 100%
	Preset Dimmers, Single Pole, Magnetic Low Voltage, 120 V	DVLV-600P	1% - 100%
	Ariadni® / Toggler® 600 W Incandescent/Halogen Preset Dimmer (3-Way)	AY-603P	1% - 100%
	RadioRa 3 250 W (LED/CFL)* or 500 W Incandescent/Halogen/ELV or 400 VA MLV Phase Selectable Neutral Dimmer	RRST-PRO-N	1% - 100%
Leviton	Decora Digital Dimmer Switch, Low Voltage/LED/CFL/Incandescent dimmer with Bluetooth & timer	DDE06-BLZ	1% - 100%
	Trimatron Rotary Dimmer Switch Universal Dimmer, Single pole, 600W Incandescent, 150W LED, CFL	RNL06	1% - 100%
	Decora SureSlide Dimmer Switch for Dimmable LED, Halogen, and Incandescent Bulbs	6672	5% - 100%
	Decora SureSlide Dimmer Switch for Dimmable LED, Halogen, and Incandescent Bulbs	6674	5% - 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.

amazon alexa | Google Assistant | Apple HomeKit | INSTEON | LUTRON | wemo

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