

6" STANDARD KOTO™
DOWNLIGHTING SYSTEM

5W-12.5W, 2400K-4000K, CT5, Sunset, or Human Centric.
Up to 1400 lm, 120V

THE KOTO™ SYSTEM

The high quality residential grade downlight with a 2" aperture with lumen output up to 1400 lumens. The quality driver built on top of the modules allows for simple product maintenance and updates

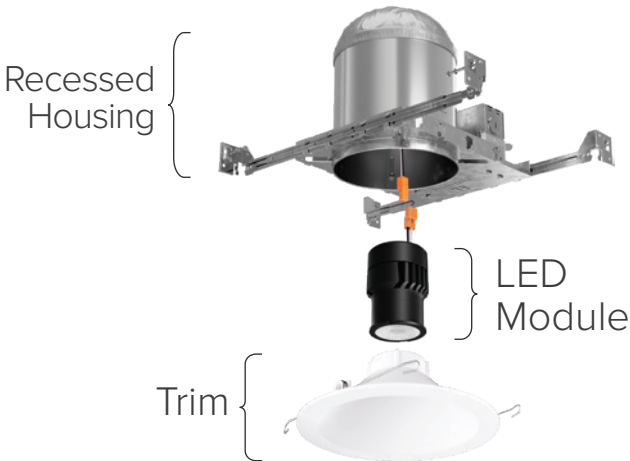


FEATURES

- Integral 120V, Triac/ELV dimmable driver on module for easy maintenance and upgrades
- 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 New Construction, Remodel Housing, or Retrofit Socket Adapter.
2. Select a Standard Koto™ LED Module.
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+

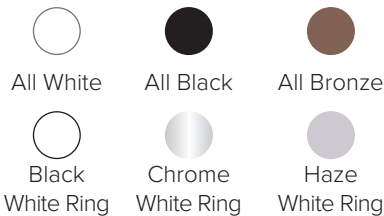
Damp Location UL Listed Adjustable Trims

Wet Location UL Listed Fixed Trims

Dimming Triac/ELV (5%)

Beam Angle 10°, 18°, 25°, 38°, 60° & 90°

Finishes



PRODUCT NUMBER BUILDER

STEP 1. Specify Housing part number (Select one)

Example: EL770ICA

6" IC AIRTIGHT RECESSED HOUSINGS

ITEM	STYLE		ICA		OPTIONAL EMERGENCY BATTERY BACKUP	
EL7						
EL7	Standard New Construction/Remodel Housings					
	70 ¹	New Construction (7" Height)	ICA	IC Airtight	(Blank)	No Battery Backup
	70R ¹	Remodel (7 ½" Height)			-EM5 ²	90 min., 25W MAX
	60 ¹	Shallow New Construction (5 ½" Height)				
	60R ¹	Shallow Remodel (5 ½" Height)				
	¹ Collar adjustable up to 1 ½" ceiling thickness				⁵ Accessible from below the ceiling	
	2-Hr Fire Rated New Construction Housings					
	6F ¹	New Construction (7 ¾" Height)	ICA	IC Airtight	(Blank)	No Battery Backup
					-EM5 ²	90 min., 25W MAX
	5F ¹	Shallow New Construction (6 ¾" Height)	ICAS	IC Airtight		
¹ Collar adjustable up to 1 ½" ceiling thickness				² Access from above required		

Socket Adapters for Retrofitting Existing ELCO Housings (Adapters to male Quick Connect)					
PSA30	PSA31	PSA35	PSA38	PSA38-4	PSA38-22
E26 Medium Base Adapter	GU10 Base Adapter	GU24 Base Adapter	Hard Wire Adapter	4" Hard Wire Adapter	22" Rewiring Kit Hard Wire Adapter

PRODUCT NUMBER BUILDER

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

Example: ELK0730

ITEM	LUMENS/WATTAGE		COLOR TEMPERATURE		BEAM ANGLE	
ELK						
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

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 3. Specify Trim part number (Select one)

6" KOTO™ ROUND TRIMS



Style: **Fixed Reflector**
Item: **ELK6418W** (All White)
ELK6418BB (All Black)
ELK6418BZ (All Bronze)
ELK6418H (Haze/White Ring)



Style: **Adjustable Reflector**
Item: **ELK6429W** (All White)
ELK6429BB (All Black)
ELK6429BZ (All Bronze)
ELK6429H (Haze/White Ring)



Style: **Adjustable Slot Aperture**
Item: **ELK6420W** (All White)



Style: **Adjustable Pinhole with Reflector**
Item: **ELK6427W** (All White)
ELK6427B (Black/White Ring)
ELK6427H (Haze/White Ring)

6" KOTO™ SQUARE TRIMS

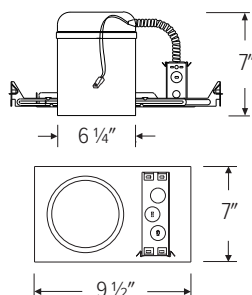


Style: **Adjustable Reflector**
Item: **ELK6829W** (All White)
ELK6829BB (All Black)
ELK6829H (Haze/White Ring)

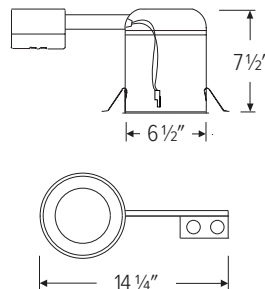
PRODUCT DIMENSIONS

STANDARD KOTO™ IC AIRTIGHT RECESSED HOUSINGS

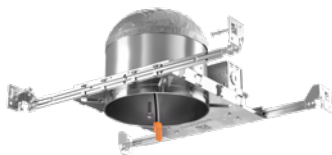
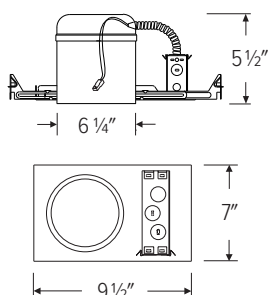
EL770ICA
STANDARD NEW CONSTRUCTION HOUSING



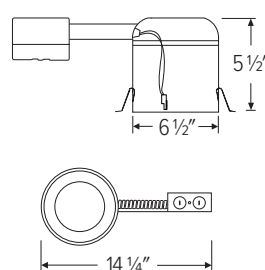
EL770RICA
STANDARD REMODEL HOUSING



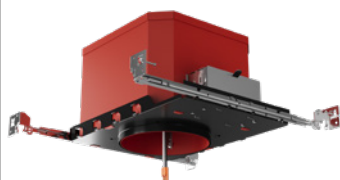
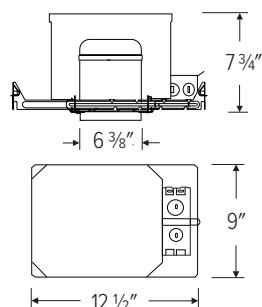
EL760ICA
SHALLOW NEW CONSTRUCTION HOUSING



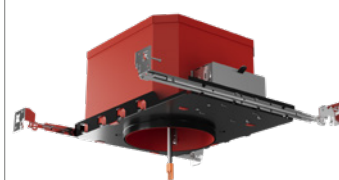
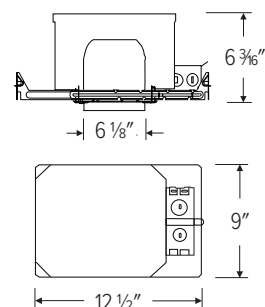
EL760RICA
SHALLOW REMODEL HOUSING



EL76FICA
2-HOUR FIRE RATED NEW CONSTRUCTION HOUSING

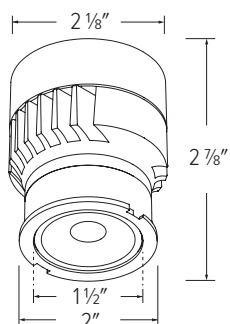


EL75FICAS
SHALLOW 2-HOUR FIRE RATED NEW CONSTRUCTION HOUSING

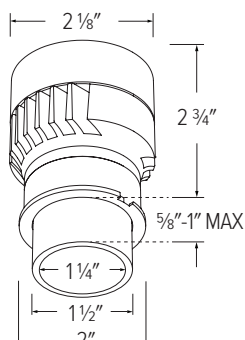


STANDARD KOTO™ LED MODULES

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



PRODUCT DIMENSIONS

KOTO™ ROUND TRIMS

6"

7 1/2"

W (All White)

BZ (All Bronze)

BB (All Black)

H (Haze/White)

6"

7 1/2"

30° Tilt

W (All White)

BZ (All Bronze)

BB (All Black)

H (Haze/White)

7 1/4"

1 3/8"

2 1/4"

W (All White)

8"

1 3/4"

25° Tilt

W (All White)

H (Haze/White)

B (Black/White)

6 3/4"

4 1/4"

W (All White)

H (Haze/White)

BB (All Black)

ACCESSORIES

LENS & OPTICS (field changeable)

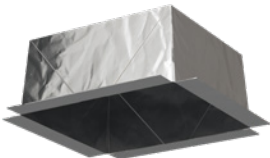
FIELD CHANGEABLE LENS		HEX LOUVER	LINEAR LENS	SPREAD LENS
				
EP731C (18°) / EP732C (25°) EP733C (38°) / EP734C (60°)		L45 (Black) / L57 (White) For a better glare shield	L46 For a wide rectangular illumination pattern	L47 For a symmetrical broadening of light beams

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

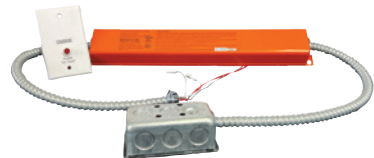
ACCESSORIES FOR RETROFITS (socket adapters for retrofitting existing housings - adapters to male Quick Connect)

Medium Base Adapter	GU10 Base Adapter	GU24 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	PSA35 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 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. Standard lens is shatterproof

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

Installation (Light Engine): Twist-on design for toolless trim installation. For use with standard Koto™ trims only. Can be use in 2", 3", 4", 5" and 6" 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 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.

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.



DIMMER COMPATIBILITY CHART

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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

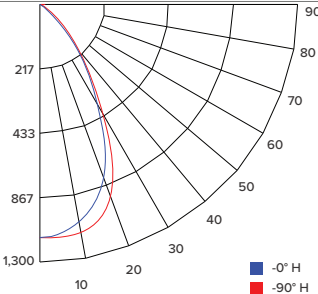
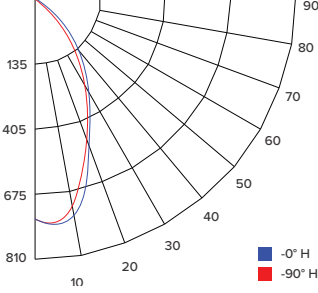
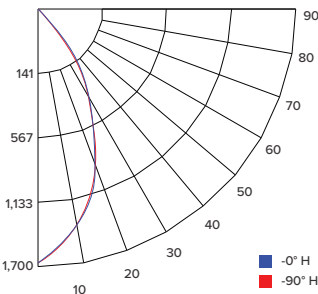
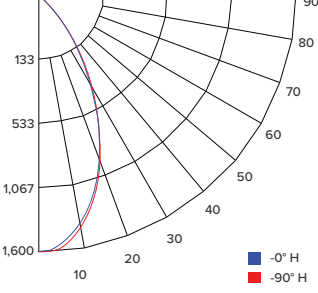
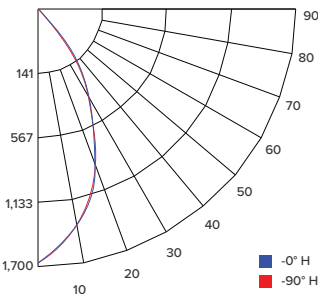
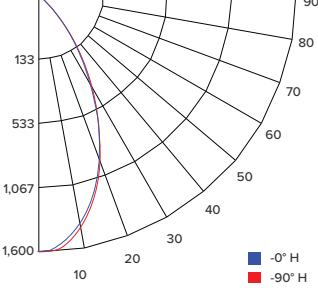
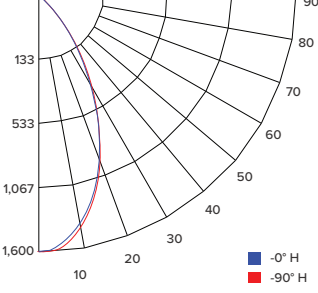
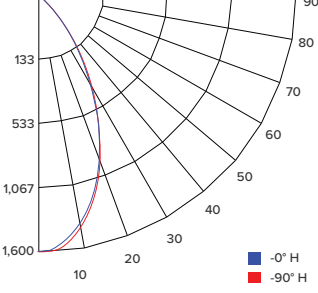
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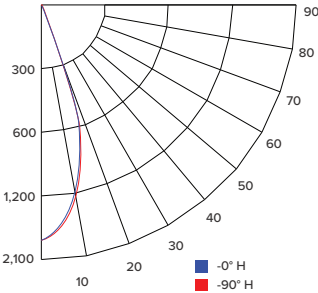
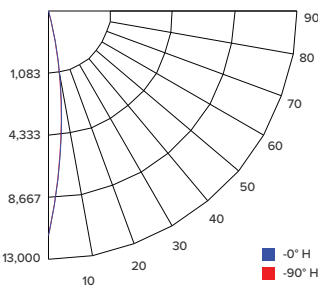
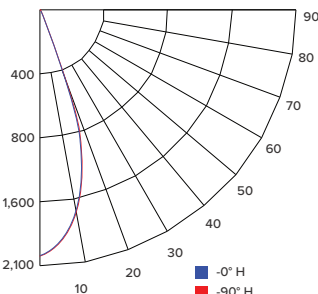
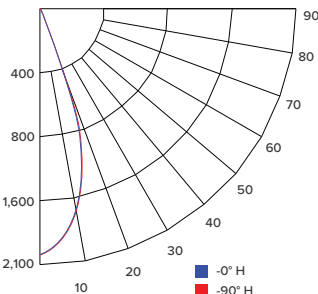
Integrating our lighting with your Smart Home System is a breeze. Simply check your Smart Home system for compatible smart switches and cross reference that with our Dimming Compatibility Chart. Once the switches are integrated with your Smart Home system your lights will be ready to go.



KOTO™ LED MODULE

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK0730 Wattage / Lumens: 10.6W / 813.8 lm Luminaire LPW: 76.7 lm/W 	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	1186	4'	74.1	3.2'
	5	1188	6'	32.9	4.8'
	15	1004	8'	18.5	6.4'
	25	536	10'	11.9	8.0'
	35	254	ZONAL LUMEN SUMMARY		
	45	93			
	55	27	Zone	Lumens	%Luminaire
	65	12	0-30°	580.1	71.3
	75	6	0-40°	714.6	87.8
Product #: ELK09SD Wattage / Lumens: 10.9W / 605.1 lm Luminaire LPW: 55.5 lm/W 	85	3	0-60°	797.0	98
	90	1	0-90°	813.5	100
PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK1127 Wattage / Lumens: 12.5W / 1086.2 lm Luminaire LPW: 86.9 lm/W 	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	731	4'	45.7	3.1'
	5	751	6'	20.3	4.7'
	15	640	8'	11.4	6.2'
	25	337	10'	7.31	7.8'
	35	175	ZONAL LUMEN SUMMARY		
	45	79			
	55	23	Zone	Lumens	%Luminaire
	65	10	0-30°	402.9	66.6
	75	4	0-40°	510.3	84.4
Product #: ELK1330 Wattage / Lumens: 11.8W / 1312.2 lm Luminaire LPW: 111.2 lm/W 	85	1	0-60°	588.6	97.3
	90	0	0-90°	601.9	99.5
PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK127 Wattage / Lumens: 12.5W / 1086.2 lm Luminaire LPW: 86.9 lm/W 	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	1606	4'	100	3.2'
	5	1542	6'	44.6	4.8'
	15	1297	8'	25.1	6.4'
	25	723	10'	16.1	7.9'
	35	338	ZONAL LUMEN SUMMARY		
	45	128			
	55	42	Zone	Lumens	%Luminaire
	65	17	0-30°	757.2	70.6
	75	8	0-40°	933.9	87.1
Product #: ELK1330 Wattage / Lumens: 11.8W / 1312.2 lm Luminaire LPW: 111.2 lm/W 	85	3	0-60°	1,045.2	97.5
	90	1	0-90°	1,066.1	99.4
PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK1330 Wattage / Lumens: 11.8W / 1312.2 lm Luminaire LPW: 111.2 lm/W 	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	1575	4'	98.4	4.0'
	5	1497	6'	43.8	6.0'
	15	1224	8'	24.6	8.0'
	25	824	10'	15.8	10.0'
	35	377	ZONAL LUMEN SUMMARY		
	45	142			
	55	35	Zone	Lumens	%Luminaire
	65	9	0-30°	879.8	67.1
	75	2	0-40°	1,140.2	86.9
Product #: ELK1330 Wattage / Lumens: 11.8W / 1312.2 lm Luminaire LPW: 111.2 lm/W 	85	1	0-60°	1,298.7	99
	90	0	0-90°	1,311.4	100

KOTO™ LED MODULE

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK08CT5 @3500K Wattage / Lumens: 10.19W / 902.5 lm Luminaire LPW: 88.5 lm/W 	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	1999	4'	124.9	2.6'
	5	1840	6'	55.5	3.8'
	15	1126	8'	31.2	5.1'
	25	372	10'	20.0	6.4'
	35	83	ZONAL LUMEN SUMMARY		
	45	35			
	55	20	Zone	Lumens	%Luminaire
	65	11	0-30°	720.4	79.9
	75	7	0-40°	786.4	87.2
	85	6	0-60°	835.1	92.6
	90	6	0-90°	860.9	95.4
PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK0830-NSP Wattage / Lumens: 15.8W / 871.4 lm Luminaire LPW: 55.1 lm/W 	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	10979	4'	686	0.8'
	5	4622	6'	305	1.2'
	15	413	8'	172	1.6'
	25	89	10'	110	2.0'
	35	32	ZONAL LUMEN SUMMARY		
	45	17			
	55	13	Zone	Lumens	%Luminaire
	65	9	0-30°	783.9	90.2
	75	5	0-40°	809.4	93.2
	85	0	0-60°	836.1	96.2
	90	0	0-90°	852.2	98.1
PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK10CT5 @4000K Wattage / Lumens: 12.19W / 1043.6 lm Luminaire LPW: 85.6 lm/W 	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	2348	4'	146.7	2.6'
	5	2177	6'	65.2	3.9'
	15	1349	8'	36.6	5.2'
	25	455	10'	23.4	6.5'
	35	101	ZONAL LUMEN SUMMARY		
	45	41			
	55	22	Zone	Lumens	%Luminaire
	65	12	0-30°	849.4	81.4
	75	7	0-40°	926.5	88.8
	85	5	0-60°	981.4	94.1
	90	5	0-90°	1,006.3	96.5
PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK10CT5 @5000K Wattage / Lumens: 12.3W / 1032.7 lm Luminaire LPW: 83.9 lm/W 	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	2297	4'	143.5	2.6'
	5	2078	6'	63.8	3.9'
	15	1210	8'	35.8	5.2'
	25	368	10'	22.9	6.5'
	35	79	ZONAL LUMEN SUMMARY		
	45	36			
	55	20	Zone	Lumens	%Luminaire
	65	11	0-30°	837.9	81.2
	75	6	0-40°	917.0	88.8
	85	5	0-60°	971.5	94.1
	90	5	0-90°	996.1	96.5