ELCO Lighting

Project Name:
Fixture Type:
Date:

STANDARD KOTO™ MULTIPLES SYSTEM

5W-12.5W, 2400K-4000K, Sunset, Human Centric, 5CCT, 1800K - 4000K Tunable White

KOTO™ MULTIPLES SYSTEM

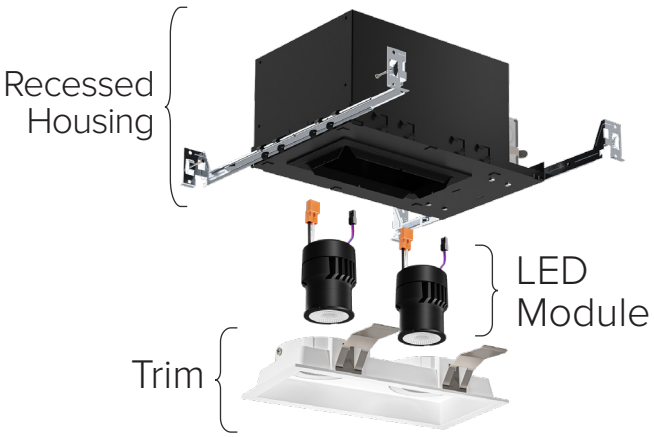
Brings the diversity of the Koto™ modular engine to any residential or commercial setting, creating a clean, elegant look featuring specification-grade illumination. Designed around a 1 ½" aperture, the luminaire features an integrated driver and tool-free installation.

FEATURES

- 1, 2, & 3 heads available, Trim & Trimless
- Single head up to 1,400 lm, double head up to 2,800 lm, triple head up to 4,200 lm
- 10°, 18°, 25°, 38°, 60°, and 90° beam angle options
- Excellent color rendering 95+ CRI
- Title 24 JA8-2025-E Compliant. ENERGY STAR Compliant
- Works with ceiling thickness up to 1.5"
- Covered by U.S. PATENTS and Patents Pending

SET UP

1. Select a 1, 2, or 3 Head Housing
2. Select Standard Koto™ LED Module(s)
3. Select a Trim.



SPECIFICATIONS

Lumens/Wattage Per Head	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 or 120-277V
Color Temp.	2400K, 2700K, 3000K, 3500K, 4000K, Sunset, Human Centric, 5CCT, Tunable White
CRI	95+
Dimming	Triac/ELV 0-10V/Triac/ELV (1%) DALI-2 dims to (0.1%)
Beam Angle	10°, 18°, 25°, 38°, 60° & 90°
Finishes	All White, All Black

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PRODUCT NUMBER BUILDER

STEP 1. Specify Housing part number (Select one) Example: E2KM2BICDXA

STANDARD MULTIPLES IC AIRTIGHT NEW CONSTRUCTION HOUSINGS

ITEM	HEADS		ICA	
E2KM				
	IC Airtight New Construction Housings			
	1A	Single Head New Construction (5 ½" Height)	**ICDXA**	IC Airtight
	2B	Double Head New Construction (5 ½" Height)		
	3C	Triple Head New Construction (5 ½" Height)		

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PRODUCT NUMBER BUILDER

STEP 2. Specify Koto™ LED Module part number(s) (Select one, two, or three) Example: ELK0730

LUMENS/WATTAGE PER HEAD		COLOR TEMPERATURE		BEAM ANGLE	
120V Standard Koto™ LED Module					
ELK07[1]	750 lm (10.5W)	**24**	2400K	**(Blank)**[4]	38°
ELK09[1]	950 lm (10.5W)	**27**	2700K	**-S**	18°
ELK11[1]	1150 lm (12.5W)	**30**	3000K	**-N**	25°
ELK13[1]	1350 lm (12.5W)	**35**	3500K	**-W**	60°
		40	4000K	**-E**[5]	90°
		SD[2]	Sunset		
		HC[3]	Human Centric		
ELK08[1]	850 lm (10.5W)	**CT5**	CCT Switch: 2700K, 3000K, 3500K, 4000K, 5000K		
ELK10[1]	1000 lm (12.5W)				
[1] 120V, Triac/ELV dimming		[2] Sunset, Dim to Warm technology, dims from 3000K to 1800K. Available with ELK09 & ELK11 only [3] Human Centric, Dim to Warm technology, dims from 4000K to 2200K. Available with ELK11 module only		[4] 38° installed on module with 25° & 60° included in the box [5] 90° available with frosted reflector only	
120V 10° Narrow Spot Koto™ LED Module					
ELK03[1]	350 lm (5W)	**27**	2700K	**-NSP**[2]	10°
ELK08[1]	850 lm (10.5W)	**30**	3000K		
[1] 120V, Triac/ELV dimming				[2] 10° installed on module, field changeable 25° & 38° lens included in box	
120V Standard Koto™ FOCUS LED Module					
ELK07[1]	720-860 lm (10.5W)	**27**	2700K	**-FC**[3]	18°-50°
		30	3000K		
		35	3500K		
		40	4000K		
		SD[2]	Sunset		
[1] 120V, Triac/ELV dimming		[2] Sunset, Dim to Warm technology, dims from 3000K to 1800K		[3] Adjustable Focus offers 18°-50° with a twist of the snoot. Koto™ Focus LED Module includes white snoot installed on module and field changeable black snoot. Not compatible with lens accessories.	
120V-277V Triac/ELV/0-10V Koto™ 1% Dimming					
ELK10DX[1]	1000 lm (11.8W)	**27**	2700K	**(Blank)**[3]	38°
		30	3000K	**-S**	18°
		35	3500K	**-N**	25°
		40	4000K	**-W**	60°
		SD[2]	Sunset	**-E**[4]	90°
[1] 0-10V/Triac/ELV, 1% dimming		[2] Sunset, Dim to Warm technology, dims from 3000K to 1800K		[3] 38° installed on module with 25° & 60° included in the box. [4] 90° available with frosted reflector only	
120 - 277V Dali 2 Koto™ Tunable White 0.1% Dimming					
ELK08AL[1]	880 lm (11.5W)	**41TW** [2]	1800K - 4000K	**(Blank)**[3]	38°
				-S	18°
				-N	25°
				-W	60°
				-E[4]	90°
[1] DALI-2, 0.1%		[2] Tunable White Technology 4000K to 1800K.		[3] 38° installed on module with 25° & 60° included in the box. [4] 90° available with frosted reflector only	

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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) Example: EKCM230B2W

KOTO™ MULTIPLES TRIMS & TRIMLESS

STYLE	ITEM	HEADS	FINISH
EKCM			
	218 Trim **230**[1] Trimless	**A1** Single Head **B2** Double Head **C3** Triple Head	**W** All White **BB** All Black
	[1] Choose the corresponding Spackle Frame below.		

Koto™ Multiples Trimless Spackle Frame required for EKCM230 series trims		
EKCM2SFA1	**EKCM2SFB2**	**EKCM2SFC3**
Single Head Spackle Frame	Double Head Spackle Frame	Triple Head Spackle Frame

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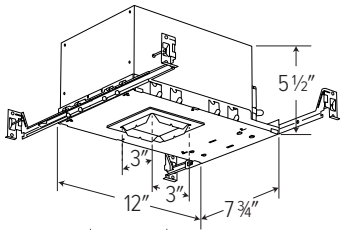
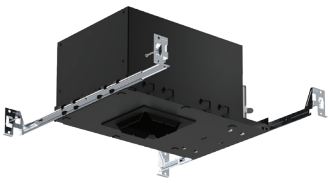
PRODUCT DIMENSIONS

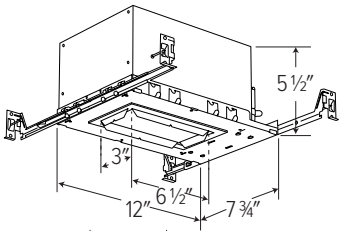
STANDARD KOTO™ MULTIPLES IC AIRTIGHT RECESSED HOUSINGS

E2KM1AICDXA
SINGLE HEAD IC AIRTIGHT NEW CONSTRUCTION HOUSING

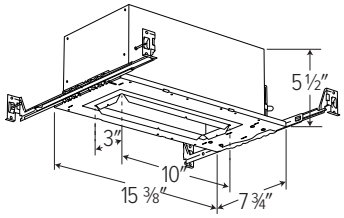




E2KM2BICDXA
DOUBLE HEAD IC AIRTIGHT NEW CONSTRUCTION HOUSING

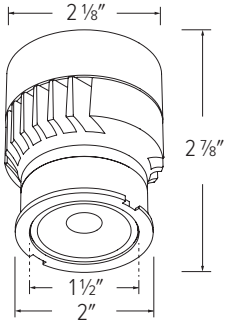


E2KM3CICDXA
TRIPLE HEAD IC AIRTIGHT NEW CONSTRUCTION HOUSING

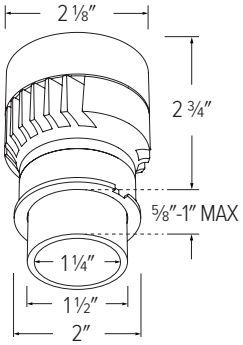


STANDARD KOTO™ LED MODULES

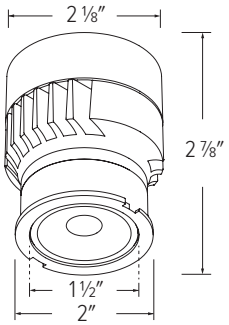
ELK03/ELK07/ELK09/ELK11/ELK13/ELK08/ELK10
STANDARD KOTO™ LED MODULE



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



ELK10DX/ELK08AL
120-277V TRIAC/ELV/0-10V & DALI-2 TUNABLE WHITE KOTO™ LED MODULES



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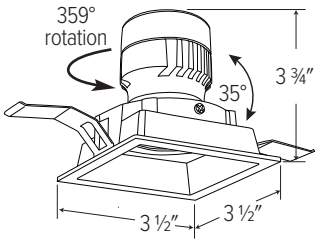
PRODUCT DIMENSIONS

STANDARD KOTO™ MULTIPLES TRIMS

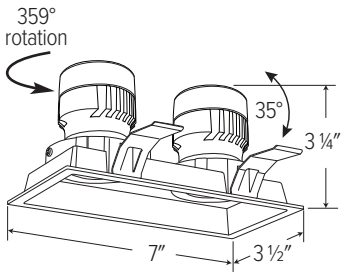
EKCM218A1 - SINGLE HEAD TRIM



W (All White)

BB (All Black)

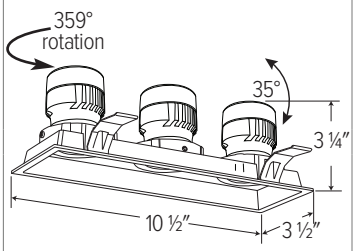
EKCM218B2 - DOUBLE HEAD TRIM



W (All White)

BB (All Black)

EKCM218C3 - TRIPLE HEAD TRIM



W (All White)

BB (All Black)

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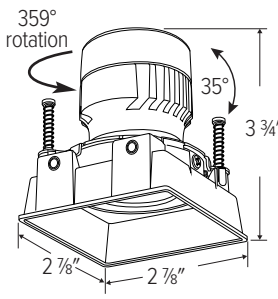
PRODUCT DIMENSIONS

STANDARD KOTO™ MULTIPLES TRIMLESS

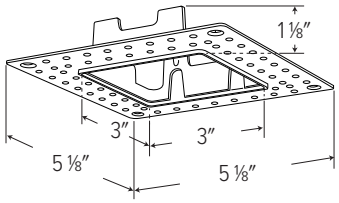
EKCM230A1 - SINGLE HEAD TRIMLESS

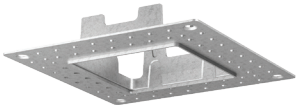


W (All White)

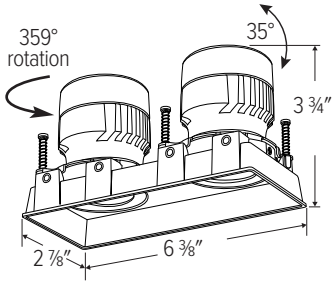
BB (All Black)

EKCM2SFA1 - SINGLE HEAD SPACKLE FRAME





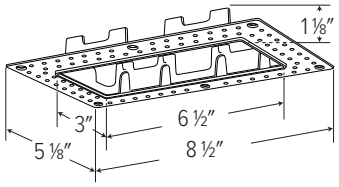
EKCM230B2 - DOUBLE HEAD TRIMLESS

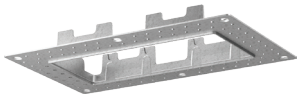


W (All White)

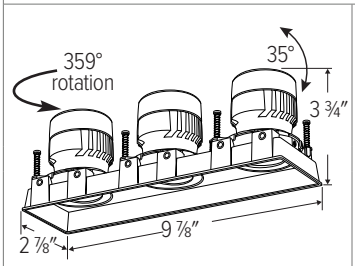
BB (All Black)

EKCM2SFB2 - DOUBLE HEAD SPACKLE FRAME





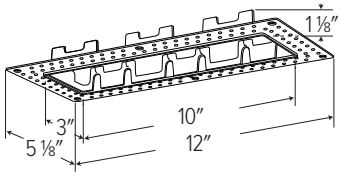
EKCM230C3 - TRIPLE HEAD TRIMLESS

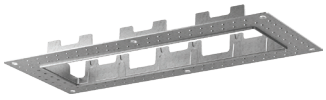


W (All White)

BB (All Black)

EKCM2SFC3 - TRIPLE HEAD SPACKLE FRAME





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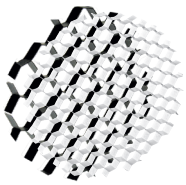
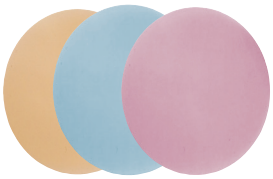
ACCESSORIES

LENS & OPTICS (field changeable. Not compatible with Focus Module)

FIELD CHANGEABLE LENS		HEX LOUVER	LINEAR LENS	SPREAD LENS
				
EP731C (18°) / **EP732C** (25°) **EP733C** (38°) / **EP734C** (60°)	**EP739C** (90°) Frosted Reflector	**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

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TECHNICAL DETAILS

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

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™ Multiples trims only.

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

LED Technology: Extremely accurate Color Rendering Index of 95+. Lumen Maintenance of 50,000 hours L70 Life based on LM80 standardized test results. Superior Thermal Management by utilizing integrated heat sink. Instant On to Full Brightness technology. No LED pixilation.

Electrical: 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.

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
120V - Triac/ELV Dimmers for ELK10DX			
Lutron	Skylark Contour dimmer, Incandescent/Halogen, 3-way	CT-103P-WH	1% - 100%
	Nova T dimmer, electronic low-voltage (ELV)	SELV-300P-WH	1% - 100%
	Skylark dimmer, Incandescent, single pole	S-600P-WH	1% - 100%
	Skylark Contour dimmer, CFL/LED/Incandescent, 3-way	CTCL-153P-WH	1% - 100%
	Diva dimmer, electronic low-voltage (ELV), 3-way	DVELV-303P-WH	1% - 100%
	Diva dimmer, Incandescent/Halogen, 3-way	DV-600P-WH	1% - 100%
	Diva C.L. dimmer, CFL/LED/Incandescent, 3-way	DVCL-153P-WH	1% - 100%
	Ariadni dimmer, magnetic low-voltage (MLV), 3-way	AYLV-600P-WH	1% - 100%
	Maestro dimmer, electronic low-voltage (ELV)	MAELV-600-WH	1% - 100%
	Maestro C.L. dimmer, CFL/LED/Incandescent, single pole	MACL-153M-WH	1% - 100%
	RadioRA 2 dimmer, for Incandescent, Halogen, and MLV	RRD-PRO-WH	1% - 100%
	RadioRA 2 dimmer, for Incandescent/Halogen/MLV, neutral wire required	RRST-PRO-N-WH	1% - 100%
	Diva C.L. dimmer, CFL/LED/Incandescent, 3-way	DVCL-153P-WH	1% - 100%
	Maestro C.L. dimmer, multi-location, CFL/LED/Incandescent	MACL-153MR-WH	1% - 100%
	Maestro Pro switch, Incandescent/Halogen/CFL/LED	MA-PRO-SW	1% - 100%
	Ariadni C.L. dimmer, CFL/LED/Incandescent, single pole	AYCL-153P-WH	1% - 100%
	Caseta Wireless dimmer, dimmable LED/CFL/Incandescent	PD-6WCL	1% - 100%
Leviton	Decora SureSlide dimmer, dimmable LED/CFL/Incandescent	6674-POW	1% - 100%
	Decora SureSlide dimmer, Incandescent/Halogen	6633-POW	1% - 100%
	IllumaTech dimmer, electronic low-voltage (ELV)	IPEO4-1LZ	5% - 100%
	IllumaTech dimmer, Incandescent	IPI06-1LZ	1% - 100%
	Decora SureSlide dimmer, dimmable LED/CFL/Incandescent slide-to-off	6672-1LW	1% - 100%
	Decora Digital dimmer, electronic low-voltage (ELV)/LED/CFL/Incandescent	DDE06-BLZ	1% - 100%
	Universal Rotary dimmer, Incandescent/LED/CFL	RNL06 -10Z	1% - 100%
	Universal Decora Rocker-Slide dimmer, Incandescent/LED/CFL	DSM10-1LZ	5% - 100%
	Decora Rocker-Slide dimmer, ELV/LED/CFL	DSE06-10Z	1% - 100%
	Rotary dimmer, Incandescent/LED/CFL	RDL06-10Z	5% - 100%
Cooper	Slide Dimmer for Incandescent/Fluorescent/LED/CFL/MLV/ELV	SAL06P	1% - 100%
Lutron	Diva dimmer, magnetic low-voltage (MLV), 3-way	DVLV-600P-WH	1% - 100%
	Skylark C.L. dimmer, CFL/LED/Incandescent, 3-way	SCL-153P-WH	1% - 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 refrence 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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DIMMER COMPATIBILITY CHART

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MANUFACTURER	PRODUCT	PART NUMBER	DIMMED LIGHT OUTPUT RANGE
0-10V - Triac/ELV Dimmers for ELK10DX			
Lutron	Diva 0-10V control for LED/fluorescent fixtures, single pole/3-way	DVSTV-WH	1% - 100%
Leviton	IllumaTech dimmer, 0-10V, LED power supplies	IP710-DOZ	1% - 100%
	Decora Slide dimmer, 0-10V, LED/fluorescent	DS710-10Z	1% - 100%

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

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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			
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, Foward 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) HQRA-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, Foward 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%

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

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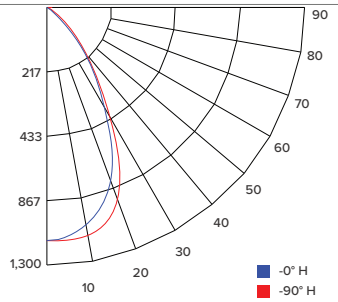
KOTO™ LED MODULE

PHOTOMETRIC REPORT

Product #: ELK0730
Wattage / Lumens: 10.6W / 813.8 lm
Luminaire LPW: 76.7 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	1186
5	1188
15	1004
25	536
35	254
45	93
55	27
65	12
75	6
85	3
90	1

ILLUMINANCE AT A DISTANCE

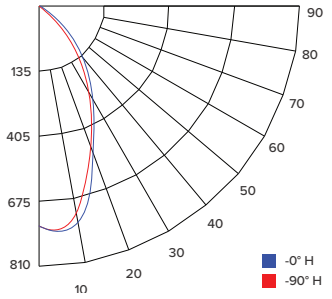
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	74.1	3.2′
6′	32.9	4.8′
8′	18.5	6.4′
10′	11.9	8.0′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	580.1	71.3
0-40°	714.6	87.8
0-60°	797.0	98
0-90°	813.5	100

PHOTOMETRIC REPORT

Product #: ELK09SD
Wattage / Lumens: 10.9W / 605.1 lm
Luminaire LPW: 55.5 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	731
5	751
15	640
25	337
35	175
45	79
55	23
65	10
75	4
85	1
90	0

ILLUMINANCE AT A DISTANCE

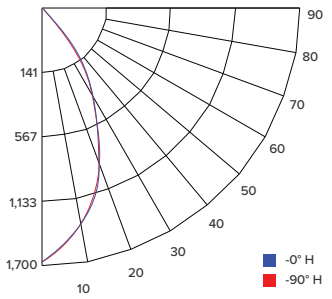
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	45.7	3.1′
6′	20.3	4.7′
8′	11.4	6.2′
10′	7.31	7.8′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	402.9	66.6
0-40°	510.3	84.4
0-60°	588.6	97.3
0-90°	601.9	99.5

PHOTOMETRIC REPORT

Product #: ELK1127
Wattage / Lumens: 12.5W / 1086.2 lm
Luminaire LPW: 86.9 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	1606
5	1542
15	1297
25	723
35	338
45	128
55	42
65	17
75	8
85	3
90	1

ILLUMINANCE AT A DISTANCE

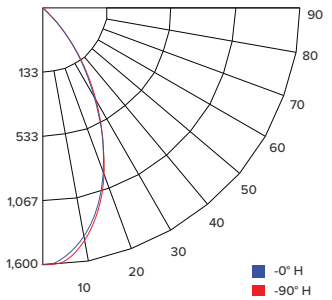
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	100	3.2′
6′	44.6	4.8′
8′	25.1	6.4′
10′	16.1	7.9′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	757.2	70.6
0-40°	933.9	87.1
0-60°	1,045.2	97.5
0-90°	1,066.1	99.4

PHOTOMETRIC REPORT

Product #: ELK1330
Wattage / Lumens: 11.8W / 1312.2 lm
Luminaire LPW: 111.2 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	1575
5	1497
15	1224
25	824
35	377
45	142
55	35
65	9
75	2
85	1
90	0

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	98.4	4.0′
6′	43.8	6.0′
8′	24.6	8.0′
10′	15.8	10.0′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	879.8	67.1
0-40°	1,140.2	86.9
0-60°	1,298.7	99
0-90°	1,311.4	100

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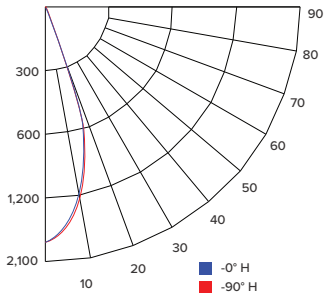
KOTO™ LED MODULE

PHOTOMETRIC REPORT

Product #: ELK08CT5 @3500K
Wattage / Lumens: 10.19W / 902.5 lm
Luminaire LPW: 88.5 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	1999
5	1840
15	1126
25	372
35	83
45	35
55	20
65	11
75	7
85	6
90	6

ILLUMINANCE AT A DISTANCE

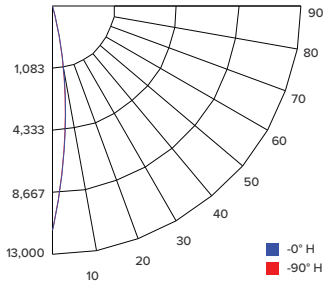
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	124.9	2.6′
6′	55.5	3.8′
8′	31.2	5.1′
10′	20.0	6.4′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	720.4	79.9
0-40°	786.4	87.2
0-60°	835.1	92.6
0-90°	860.9	95.4

PHOTOMETRIC REPORT

Product #: ELK0830-NSP
Wattage / Lumens: 10.5W / 871.4 lm
Luminaire LPW: 83.01 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	10979
5	4622
15	413
25	89
35	32
45	17
55	13
65	9
75	5
85	0
90	0

ILLUMINANCE AT A DISTANCE

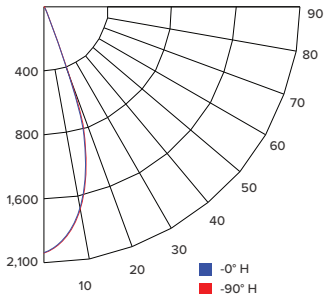
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	686	0.8′
6′	305	1.2′
8′	172	1.6′
10′	110	2.0′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	783.9	90.2
0-40°	809.4	93.2
0-60°	836.1	96.2
0-90°	852.2	98.1

PHOTOMETRIC REPORT

Product #: ELK10CT5 @4000K
Wattage / Lumens: 12.19W / 1043.6 lm
Luminaire LPW: 85.6 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	2348
5	2177
15	1349
25	455
35	101
45	41
55	22
65	12
75	7
85	5
90	5

ILLUMINANCE AT A DISTANCE

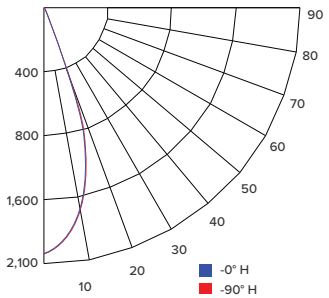
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	146.7	2.6′
6′	65.2	3.9′
8′	36.6	5.2′
10′	23.4	6.5′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	849.4	81.4
0-40°	926.5	88.8
0-60°	981.4	94.1
0-90°	1,006.3	96.5

PHOTOMETRIC REPORT

Product #: ELK10CT5 @5000K
Wattage / Lumens: 12.3W / 1032.7 lm
Luminaire LPW: 83.9 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	2297
5	2078
15	1210
25	368
35	79
45	36
55	20
65	11
75	6
85	5
90	5

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	143.5	2.6′
6′	63.8	3.9′
8′	35.8	5.2′
10′	22.9	6.5′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	837.9	81.2
0-40°	917.0	88.8
0-60°	971.5	94.1
0-90°	996.1	96.5

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