

4" KOTO™ SLOPED
CEILING SYSTEM
HOUSINGS AND TRIMS

5W-14W, 2700K-5000K & Sunset, Up to 1400 lm, 120V

The Sloped Ceiling System allows for installation in sloped ceilings ranging from 2/12 (10°) to 12/12 (45°). Can be used in insulated ceilings. Fits in 2" x 8" joist construction.

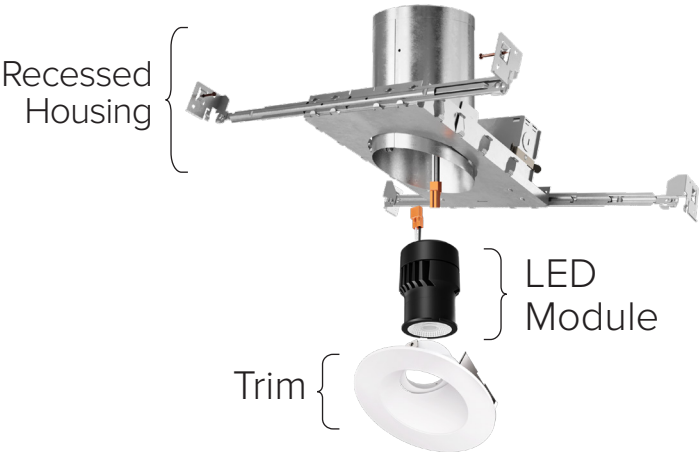


FEATURES

- IC rated for direct contact with insulation.
- Designed for use in 2/12 to 12/12 sloped ceiling.
- Housing adjusts to accommodate up to 3/4" ceiling thickness
- Superior Thermal Management by utilizing integrated heat sink. Instant On to Full Brightness technology. No LED pixilation.
- Life Span: 50,000 hours L70.
- California Title 24 (JA8-2022-E).

SET UP

1. Select a New Construction or Remodel Housing
2. Select a Koto™ LED Module.
3. Select a Trim.



SPECIFICATIONS

Wattage	5W - 14W
Lumens	350 lm - 1400 lm
Voltage	120V
Lamp Type	LED
Color Temp.	2700K, 3000K, 3500K, 4000K, 5000K, Human Centric, Sunset
Dimmable	Triac/ELV
CRI	95+
Sloped Pitch Range	2/12 10° 3/12 14° 4/12 18.5° 5/12 22.5° 6/12 26.5° 7/12 30° 8/12 33.5° 9/12 36.8° 10/12 39.8° 11/12 42.5° 12/12 45°
Damp Location	Listed
Finishes	All White All Black All Bronze Black White Trim Haze White Trim

PRODUCT NUMBER BUILDER

STEP 1. Specify Housing part number (Select one)

4" SLOPED CEILING LED IC HOUSINGS

ITEM	STYLE	ICA
EL		
	470New Construction Housing (6 5⁄8" Height) 470RRemodel Housing (7 1⁄2" Height)	ICAIC Airtight

PRODUCT NUMBER BUILDER

STEP 2. 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)	242400K	(Blank) ⁵ 38°
	07 ¹ 750 lm (10.5W)	272700K	-S18°
	09 ¹ 950 lm (10.5W)	303000K	-N25°
	11 ¹ 1150 lm (12.5W)	353500K	-W60°
	13 ¹ 1350 lm (12.5W)	404000K	-E ⁶ 90°
		SD ³ Sunset	
		HC ⁴ Human Centric	
	08 ¹ 850 lm (10.5W)	CT5CCT 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)	272700K	-NSP ⁷ 10°
	08 ¹ 850 lm (10.5W)	303000K	
	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)	272700K 303000K 353500K 404000K SD ³ Sunset	-FC ⁸ 18°-50°
	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 Black Hex Louver	L57 White Hex Louver	L46 Linear Lens	L47 Spread Lens	L49 Frosted Diffuser	L51 CCT Reducer	L52 Blue Color Shifter	L53 Pink Color Shifter	L54 Single Asymmetric	L55 Double Asymmetric	L50W White Snoot	L50B Black Snoot
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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)

4" SLOPED CEILING KOTO™ TRIMS



Style: **Universal Sloped Ceiling Koto™ Trim**

- Item: **ELK4357W** (All White)
ELK4357BB (All Black)
ELK4357BZ (All Bronze)
ELK4357B (Black/White Ring)
ELK4357H (Haze/White Ring)



Style: **Universal Sloped Ceiling Koto™ Trim with Clear Glass**

- Item: **ELK4347W** (All White)
ELK4347BB (All Black)
ELK4347BZ (All Bronze)
ELK4347B (Black/White Ring)
ELK4347H (Haze/White Ring)

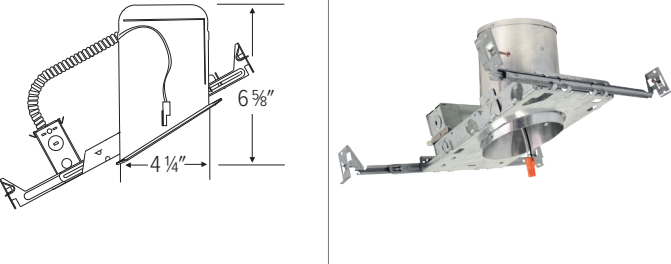
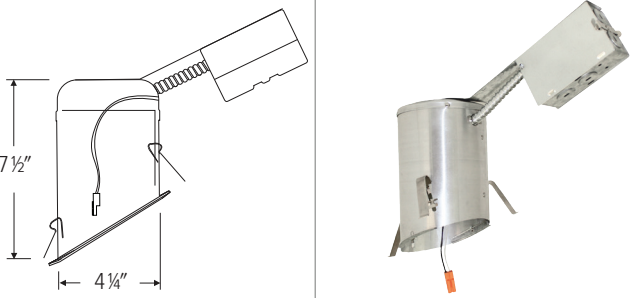


Style: **Universal Sloped Ceiling Koto™ Trim with Frosted Glass**

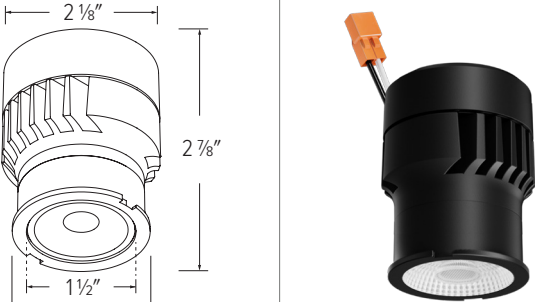
- Item: **ELK4349W** (All White)
ELK4349BB (All Black)
ELK4349BZ (All Bronze)
ELK4349B (Black/White Ring)
ELK4349H (Haze/White Ring)

PRODUCT DIMENSIONS

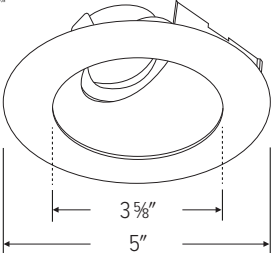
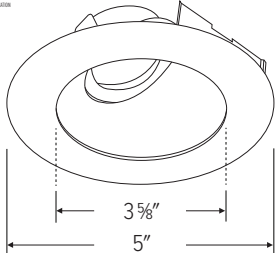
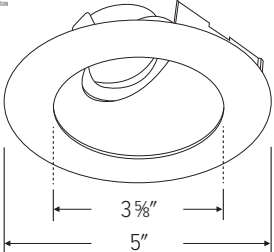
SLOPED CEILING HOUSINGS

EL470ICA AIRTIGHT SLOPED CEILING NEW CONSTRUCTION HOUSING 	EL470RICA AIRTIGHT SLOPED CEILING REMODEL HOUSING 
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KOTO™ LED MODULES

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

ELK4357 4" UNIVERSAL SLOPED CEILING KOTO™ TRIM  W (All White) B (Black/White) BB (All Black) H (Haze/White)) BZ (All Bronze)	ELK4349 4" UNIVERSAL SLOPED CEILING KOTO™ TRIM WITH FROSTED GLASS  W (All White) B (Black/White) BB (All Black) H (Haze/White)) BZ (All Bronze)
ELK4347 4" UNIVERSAL SLOPED CEILING KOTO™ TRIM WITH CLEAR GLASS  W (All White) B (Black/White) BB (All Black) H (Haze/White)) BZ (All Bronze)	

TECHNICAL DETAILS

Construction (Housing): IC Rated for Direct Contact with Insulation. Designed for use in 2/12 to 12/12 sloped ceiling. Housing adjusts to accommodate up to 3/4" ceiling thickness. Aluminum housing for greater heat dissipation. Stamped galvanized steel frame.

Construction (Trims): Diecast aluminum with a powder coated finish. .

Installation (Housing): Designed for ceiling plenums where 2x8 joists or taller are used. Template for hole cutout is provided with each housing. See installation sheet for detailed information.

Installation (Trims): Twist-on design for toolless trim installation, for use with Koto™ trims only. Can be use in 2", 3", 4" & 6" housings with quick connect base.

Junction Box: Positioned to accommodate straight conduit runs. Seven 1/2" trade size conduit knockouts and four pry-out knockout slots for easy romex installation.

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 to 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 aligning the housings with the joists.

Electrical: Rated for 120V input. Driver connects to 120VAC power supply. High efficiency, high power factor > 0.9 driver.

LED Technology: Accurate color rendering with 95+ CRI. Lumen Maintenance of 50,000 hours L70 Life based on LM80 standardized test results. Superior Thermal Management by utilizing aluminum diecast heat sink. Instant On to Full Brightness technology. No LED pixilation.

Dimmability: Dimmable with most standard TRIAC and ELV type dimmers. Dimming range of 100% down to 10%. Dimming range may vary depending on dimmer model. For full list of dimmers refer to the Dimmer Compatibility List. Industry leading dimming that dims smoothly with no hot spots or flickering.

Listings: UL Listed for Damp Location. UL Listed for Direct Contact with Insulation and Combustible Material. UL Listed for Feed Through. AirTight Per ASTM E-283. California Title 24 (JA8-2022-E).

Warranty: ELCO Products are built to last. 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

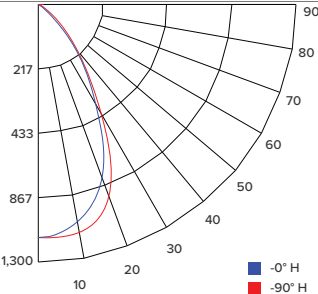
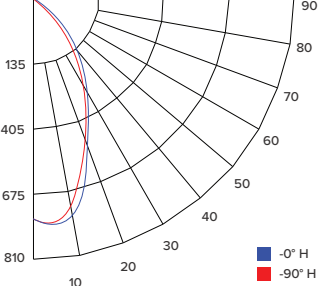
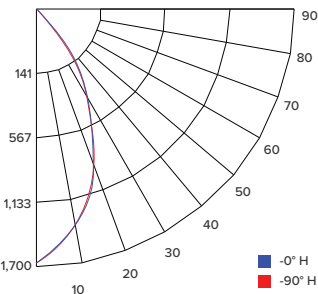
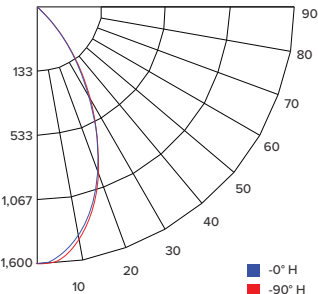
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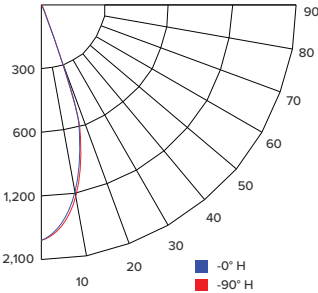
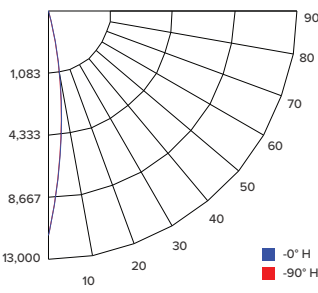
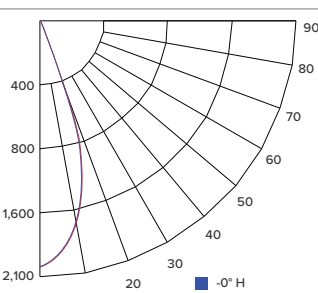
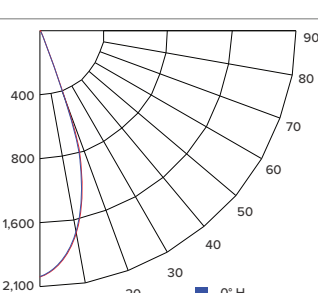
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KOTO™ LED MODULE

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
	85	3	0-60°	797.0	98
	90	1	0-90°	813.5	100
PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK09SD Wattage / Lumens: 10.9W / 605.1 lm Luminaire LPW: 55.5 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
	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 #: 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	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
	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
	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