

6" KOTO™ DX

DOWNLIGHTING SYSTEM

11.5W-11.8W, 2700K-4000K, Sunset, & DALI-2 Tunable White,
Up to 1000 lm, 120-277V, 0-10V/Triac/ELV, or DALI-2

THE KOTO™ DX SYSTEM

The high quality downlight with a 1.5" aperture with lumen output up to 1000 lumens. The quality driver built on top of the module allows for simple product maintenance and updates. Works with 2", 3", 4", and 6" ELCO DX Recessed Housings and Koto™ Trims

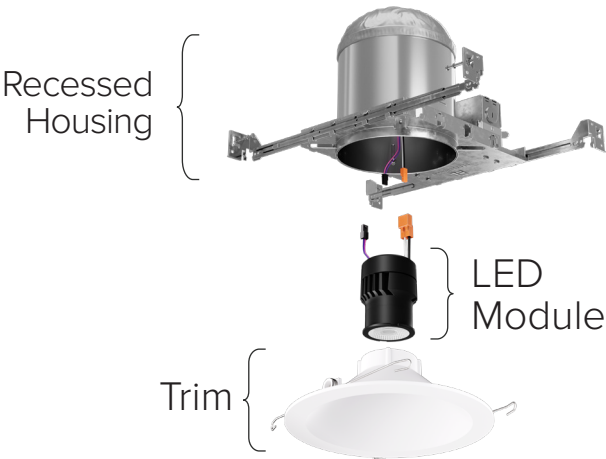


FEATURES

- Integrated 120-277V (50/60Hz), 0-10V/Triac/ELV dimmable driver to 1% or DALI-2 to 0.1%
- 18°, 25°, 38°, 60°, and 90° beam angle options
- Excellent color rendering 95+ CRI
- Title 24 JA8-2025-E Compliant
- Covered by U.S. PATENTS and Patents Pending

SET UP

1. Select a Housing
2. Select a Koto™ LED Module.
3. Select a Trim.

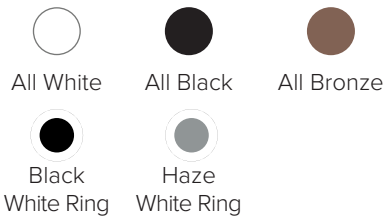


SPECIFICATIONS

Lumens/Wattage	880 lm (11.5W), DALI-2 (880 lm)
	1000 lm (11.8W), 0-10V/Triac/ELV (1000 lm)
Voltage	120-277V
Color Temp.	2700K, 3000K, 3500K, 4000K, Sunset, & Tunable White
CRI	95+
Damp Location	UL Listed
Wet Location	UL Listed w/Wet Location Trims
Dimming	0-10V/Triac/ELV (1%), DALI-2 (0.1%)
Beam Angle	18°, 25°, 38°, 60° & 90°



Finishes



PRODUCT NUMBER BUILDER

STEP 1. Specify Housing part number (Select one)

Example: EL770ICDXA

6" IC AIRTIGHT HOUSINGS

ITEM	STYLE	DIMMING/VOLTAGE		OPTIONAL EMERGENCY BATTERY BACKUP	
EL7					
	DX New Construction/Remodel Dedicated LED IC Airtight Housings				
	70	New Construction (7 ½" Height)	ICDXA	IC rated 120-277V	(Blank) No Battery Backup
	70R	Remodel (7 ½" Height)			-EM5 ¹ 90 min., 14W
	60	Shallow New Construction (5 ½" Height)			
	60R	Shallow Remodel (5 ½" Height)			
					¹ Available for new construction only
	DX 2-Hour Fire Rated New Construction Dedicated LED IC Airtight Housings				
	6F	New Construction (7 ¾" Height)	ICDXA ¹	IC rated 120-277V	(Blank) No Battery Backup
	5F	Shallow New Construction (6 ¾" Height)	ICDXAS ²	IC rated 120-277V	
			¹ Available for new construction only ² Available for shallow only		

PRODUCT NUMBER BUILDER

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

Example: ELK10DX27

ITEM	LUMENS		DIMMING/VOLTAGE		COLOR TEMPERATURE		BEAM ANGLE	
ELK								
	0-10V, Triac, ELV Koto™ LED Module 1%							
	10	1000 lm (11.8W)	DX	120-277V, 0-10V, Triac, ELV 1%	27	2700K	(Blank) ²	38°
					30	3000K	-S	18°
					35	3500K	-N	25°
					40	4000K	-W	60°
					SD ¹	Sunset	-E ³	90°
					¹ Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed		² 38° lens installed. Includes 25° and 60° lens with module. ³ 90° Frosted Reflector	
	DALI 2 Tunable White Koto™ LED Module 0.1%							
	08	880 lm (11.5W)	AL	120-277V, DALI-2 0.1%	41TW ¹	Tunable 1800K - 4000K	(Blank) ²	38°
							-S	18°
							-N	25°
							-W	60°
							-E ³	90°
					¹ Tunable White Technology 4000K to 1800K		² 38° lens installed. Includes 25° and 60° lens with module. ³ 90° Frosted Reflector	

Field Changeable Secondary Module Optics											
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

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)



Compatible trims for Shallow Housings

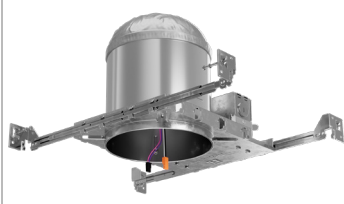
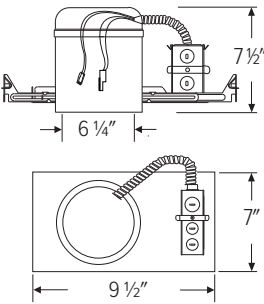


Compatible trims for EJB housings

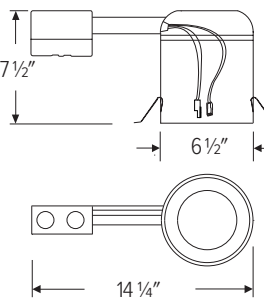
PRODUCT DIMENSIONS

STANDARD KOTO™ IC AIRTIGHT RECESSED HOUSINGS

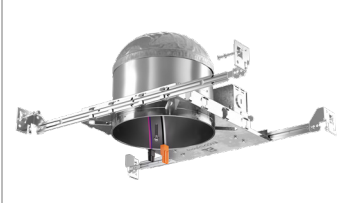
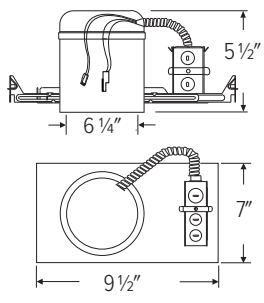
EL770ICDXA
STANDARD NEW CONSTRUCTION HOUSING



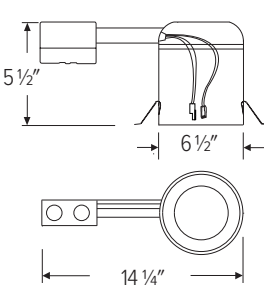
EL770RICDXA
STANDARD REMODEL HOUSING



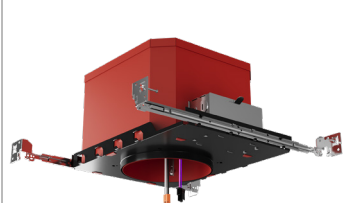
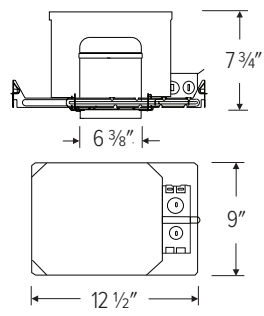
EL760ICDXA
SHALLOW NEW CONSTRUCTION HOUSING



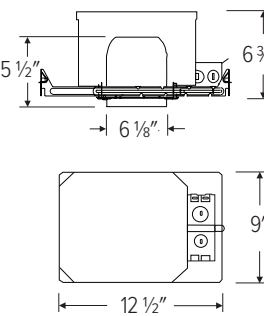
EL760RICDXA
SHALLOW REMODEL HOUSING



EL76FICDXA
2-HOUR FIRE RATED NEW CONSTRUCTION HOUSING



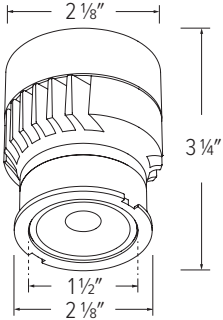
EL75FICDXAS
SHALLOW 2-HOUR FIRE RATED NEW CONSTRUCTION HOUSING



PRODUCT DIMENSIONS

KOTO™ DX LED MODULES

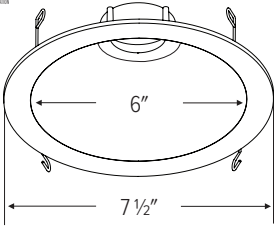
ELK10DX, ELK08AL
KOTO DX & DALI 2 TUNABLE WHITE LED MODULE





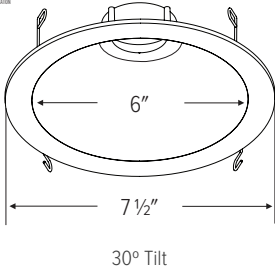
KOTO™ TRIMS

ELK6418 - 6" ROUND DEEP REFLECTOR



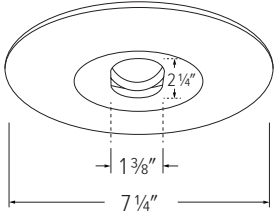


ELK6429 - 6" ROUND ADJUSTABLE REFLECTOR



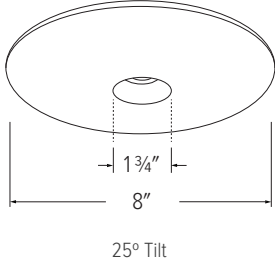


ELK6420 - 6" ROUND ADJUSTABLE SLOT APERTURE



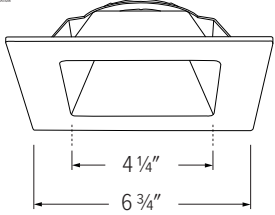


ELK6427 - 6" ROUND ADJUSTABLE PINHOLE WITH REFLECTOR





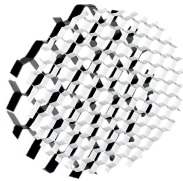
ELK6829 - 6" SQUARE ADJUSTABLE REFLECTOR





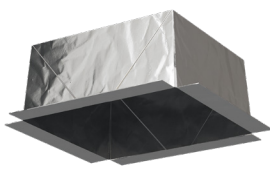
ACCESSORIES

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

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: 120-277VAC, 50/60Hz., 25W Max Output: 110VAC , 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.

Construction (Light Engine): Integrated driver and light engine with quick connect. Diecast aluminum body with heat fins allow for efficient cooling.

Installation (Light Engine): Twist-on design for toolless trim installation, for use with Koto™ trims only. Can be used in 2", 3", 4" and 6" ELCO 0-10V Recessed Housings.

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 120-277V input power. High efficiency driver with a power factor >0.9. Start time of less than 0.75 seconds.

Dimming: Works with 120-277V input, 0-10V/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 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 reference that with our Dimming Compatibility Chart. Once the switches are integrated with your Smart Home system your lights will be ready to go.



DIMMER COMPATIBILITY CHART

FOR REFERENCE ONLY

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
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%

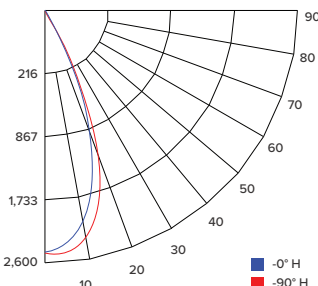
***NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details**

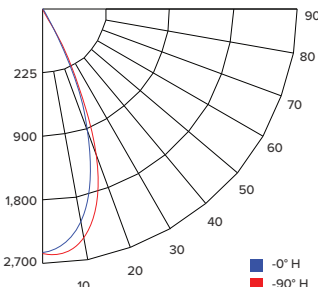
Disclaimer: Minimum and maximum loads for LEDs and CFLs are given in number of lamps and may vary depending on the lamp being used. Testing conducted by ELCO Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer specifications for more detailed information on product certifications and standards.

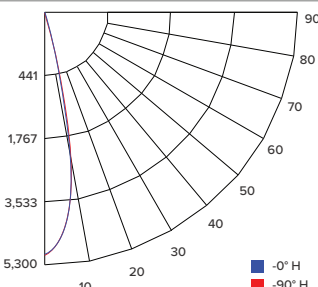
Integrating our lighting with your Smart Home System is a breeze. Simply check your Smart Home system for compatible smart switches and cross reference that with our Dimming Compatibility Chart. Once the switches are integrated with your Smart Home system your lights will be ready to go.

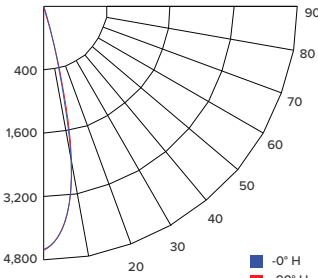


KOTO™ DX LED MODULE

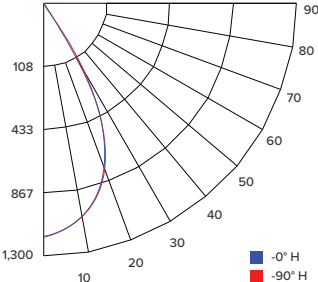
PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK10DX27 Wattage / Lumens: 12W / 978.5 lm Luminaire LPW: 81.5 lm/W	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	2503	4'	156	2.5'
	5	2261	6'	69.5	3.8'
	15	1250	8'	39.1	5.1'
	25	323	10'	25.0	6.4'
	35	63	ZONAL LUMEN SUMMARY		
	45	34			
	55	24	Zone	Lumens	%Luminaire
	65	14			
	75	6	0-30°	846.4	86.6
	85	0	0-40°	905.4	92.6
	90	0	0-60°	955.8	97.8
			0-90°	977.5	100

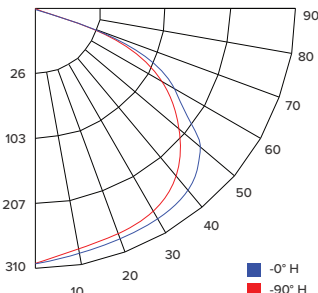
PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK10DX30 (38°) Wattage / Lumens: 12W / 1019.2 lm Luminaire LPW: 84.9 lm/W	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	2607	4'	163	2.5'
	5	2355	6'	72.4	3.8'
	15	1303	8'	40.7	5.1'
	25	337	10'	26.1	6.4'
	35	65	ZONAL LUMEN SUMMARY		
	45	36			
	55	25	Zone	Lumens	%Luminaire
	65	15			
	75	6	0-30°	881.7	86.6
	85	0	0-40°	943.1	92.6
	90	0	0-60°	995.6	97.8
			0-90°	1,018.3	100

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK10DX30-S (18°) Wattage / Lumens: 11.8W / 958.1 lm Luminaire LPW: 81.1 lm/W	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	5217	4'	326	1.4'
	5	4130	6'	145	2.1'
	15	871	8'	81.5	2.8'
	25	225	10'	52.2	3.5'
	35	91	ZONAL LUMEN SUMMARY		
	45	46			
	55	25	Zone	Lumens	%Luminaire
	65	13			
	75	5	0-30°	809.2	84.5
	85	0	0-40°	871.0	90.9
	90	0	0-60°	931.0	97.2
			0-90°	949.9	99.2

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK10DX30-N (25°) Wattage / Lumens: 11.7W / 975.8 lm Luminaire LPW: 83.4 lm/W	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	4660	4'	291	1.7'
	5	3921	6'	129	2.6'
	15	1381	8'	72.8	3.4'
	25	170	10'	46.6	4.3'
	35	27	ZONAL LUMEN SUMMARY		
	45	16			
	55	16	Zone	Lumens	%Luminaire
	65	11			
	75	6	0-30°	897.1	91.9
	85	0	0-40°	919.3	94.1
	90	0	0-60°	946.2	96.9
			0-90°	964.7	98.8

KOTO™ DX LED MODULE

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK10DX30-W (60°) Wattage / Lumens: 11.4W / 1038.7 lm Luminaire LPW: 91.1 lm/W	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	1239	4'	77.4	4.0'
	5	1159	6'	34.4	6.0'
	15	938	8'	19.4	8.0'
	25	623	10'	12.4	10.1'
	35	264	ZONAL LUMEN SUMMARY		
	45	81			
	55	24	Zone	Lumens	%Luminaire
	65	7	0-30°	697.5	67.2
	75	3	0-40°	903.0	87
	85	1	0-60°	1,016.4	97.9
	90	0	0-90°	1,030.5	99.2

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELK10DX30-E (90°) Wattage / Lumens: 11.8W / 909.8 lm Luminaire LPW: 77.1 lm/W	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	303	4'	18.9	12.8'
	5	303	6'	8.42	19.2'
	15	297	8'	4.73	25.6'
	25	291	10'	3.03	32.0'
	35	280	ZONAL LUMEN SUMMARY		
	45	241			
	55	177	Zone	Lumens	%Luminaire
	65	106	0-30°	245.1	26.9
	75	40	0-40°	416.1	45.7
	85	3	0-60°	754.6	82.9
	90	1	0-90°	909.8	100