

3" KOTO™ MAX DOWNLIGHTING SYSTEM

6W-32W, 2700K-4000K, Up to 3500 lm, 120-277V

THE KOTO™ MAX SYSTEM

The high quality commercial grade downlight engineered to be shallow, taking less space than a regular recessed housing. With a lumen output up to 3,500 lumen, the module offers maximum flexibility, providing designers and architects with the necessary choices when laying out a project.



FEATURES

- Driver on frame: 120-277V, 0-10V/Triac/ELV dimming to 1%
- 18°, 25°, 38°, 60°, and 90° beam angle options
- Excellent color rendering 95+ CRI
- Works with ceiling thickness up to 1.25"
- Title 24 JA8-2022 E-Compliant. ENERGY STAR Certified
- Covered by U.S. PATENTS and Patents Pending

SET UP

1. Select a Frame or Remodel/Retrofit power pack.
2. Select a Koto™ MAX Module.
3. Select a Trim.



SPECIFICATIONS

Lumens/Wattage 750 lm (6W), 1000 lm (8W), 1250 lm (11W), 1500 lm (14W), 2000 lm (19W), 2500 lm (23W), 3000 lm (29W), 3500 lm (32W)

Voltage 120-277V

Color Temp. 2700K, 3000K, 3500K or 4000K

CRI 95+

Damp Location UL Listed Adjustable Trims

Wet Location UL Listed Fixed Trims

Dimming 0-10V/Triac/ELV (1%)

Beam Angle 18°, 25°, 38°, 60° & 90°



Finishes



PRODUCT NUMBER BUILDER

STEP 1. Specify Housing part number (Select one)

Example: E3CKTAF25DX

ITEM	SIZE/STYLE	FRAME	LUMEN/WATTAGE	VOLTAGE/DIMMING	EM OPTIONAL
E					
E	3CKT 3" New Construction	(Blank) Plaster Frame ²	07 ⁴ 750 lm / 6W	DX 120-277V, 0-10V/Triac/ELV (1%)	(Blank) No EM
		AF Architectural Frame ³	10 ⁴ 1000 lm / 8W		
	CKTRM ¹ Remodel/Retrofit	—	12 ⁴ 1250 lm / 11W		-EM 25W, 90 min battery backup
			15 ⁴ 1500 lm / 14W		
			20 ⁵ 2000 lm / 19W		
			25 ⁵ 2500 lm / 23W		
			30 ⁵ 3000 lm / 29W		
			35 ⁵ 3500 lm / 32W		
	¹ Remodel is available up to 2500 lm, works with all size trims, no frame.	² Includes Hanger Bars. ³ Hanger bars ordered separately. FB27 - 27" Flat bars for wood construction. CH26 - 26" C-Channel bars for T-Bar ceiling.	⁴ IC rated for direct contact with insulation, cUL up to 1500 lumens (14W). ⁵ Non IC, for use without insulation, or keep insulation 3" away from fixture. 2000 (19W) - 3500 (32W) lumens.		

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

Example: ECKT3527D-S

ITEM	COLOR TEMPERATURE	BEAM ANGLE
ECKT35		
ECKT35 ¹	27D 2700K	(Blank) 38° ²
	30D 3000K	-S 18°
	35D 3500K	-N 25°
	40D 4000K	-W 60°
		-E 90°
¹ ECKT35 module works with all Koto™ MAX housings & trims, for all sizes & lumen outputs.		² 38° installed on module with 25° & 60° included in the box.

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	0.95	18°	0.88
3000K	1	25°	0.93
3500K	1.01	38°	1
4000K	1.015	60°	1.05
		90°	0.95

PRODUCT NUMBER BUILDER

STEP 3. Specify Trim part number (Select one)

3" KOTO™ CANLESS ROUND TRIMS



Style: **Fixed Deep Reflector**
Item: **EKCL3618W** (All White)
EKCL3618BB (All Black)
EKCL3618BZ (All Bronze)
EKCL3618B (Black/White Ring)
EKCL3618C (Chrome/White Ring)
EKCL3618H (Haze/White Ring)



Style: **Adjustable Reflector**
Item: **EKCL3629W** (All White)
EKCL3629BB (All Black)
EKCL3629BZ (All Bronze)
EKCL3629B (Black/White Ring)
EKCL3629C (Chrome/White Ring)
EKCL3629H (Haze/White Ring)



Style: **Adjustable Pinhole**
Item: **EKCL3627W** (All White)
EKCL3627BB (All Black)
EKCL3627BZ (All Bronze)
EKCL3627B (Black/White Ring)



Style: **Adjustable Slot Aperture**
Item: **EKCL3620W** (Black Slot/White Ring)



Style: **Adjustable Reflector Wall Wash**
Item: **EKCL3622W** (All White)



Style: **Directional Gimbal**
Item: **EKCL3679W** (All White)
EKCL3679BB (All Black)
EKCL3679B (Black/White Ring)
EKCL3679H (Haze/White Ring)



Style: **Curved Reflector**
Item: **EKCL3672W** (All White)
EKCL3672B (All Black)



Style: **Flush Mount Spackle Frame**
Item: **EL3FMR**
Compatible with EKCL3618, EKCL3629,
EKCL3627, EKCL3620, & EKCL3622 trims only



Style: **Sleek Regressed Eyeball**
Item: **EKCL3653W** (All White)
EKCL3653BB (All Black)
EKCL3653B (Black/White Ring)



Style: **Sleek Reflector**
Item: **EKCL3663W** (All White)
EKCL3663BB (All Black)



Style: **Sleek Wall Wash Reflector**
Item: **EKCL3683W** (All White)
EKCL3683BB (All Black)

3" KOTO™ CANLESS SQUARE TRIMS



Style: **Fixed Deep Reflector**
Item: **EKCL3318W** (All White)
EKCL3318BB (All Black)
EKCL3318BZ (All Bronze)
EKCL3318B (Black/White Ring)
EKCL3318C (Chrome/White Ring)
EKCL3318H (Haze/White Ring)



Style: **Adjustable Reflector**
Item: **EKCL3329W** (All White)
EKCL3329BB (All Black)
EKCL3329BZ (All Bronze)
EKCL3329B (Black/White Ring)
EKCL3329C (Chrome/White Ring)
EKCL3329H (Haze/White Ring)



Style: **Adjustable Pinhole**
Item: **EKCL3327W** (All White)
EKCL3327BB (All Black)
EKCL3327BZ (All Bronze)
EKCL3327B (Black/White Ring)

PRODUCT NUMBER BUILDER

STEP 3. Specify Trim part number (Select one)

3" KOTO™ CANLESS SQUARE TRIMS



Style: **Adjustable Reflector Wall Wash**
Item: **EKCL3322W** (All White)



Style: **Square Reflector**
Item: **EKCL3341W** (All White)
EKCL3341BB (All Black)
EKCL3341BZ (All Bronze)
EKCL3341B (Black/White Ring)



Style: **Flush Mount Spackle Frame**
Item: **EL3FMS**
Compatible with EKCL3318, EKCL3329, EKCL3327, EKCL3622, & EKCL3341 trims

3" KOTO™ CANLESS ROUND TRIMLESS



Style: **Fixed Trimless Reflector**
Item: **ELK308W** (All White)
ELK308B (All Black)
ELK308H (All Haze)



Style: **Adjustable Trimless Reflector**
Item: **ELK315W** (All White)
ELK315B (All Black)
ELK315H (All Haze)



Style: **Trimless Spackle Frame**
Item: **EL3SFR**
For use with ELK308 & ELK315



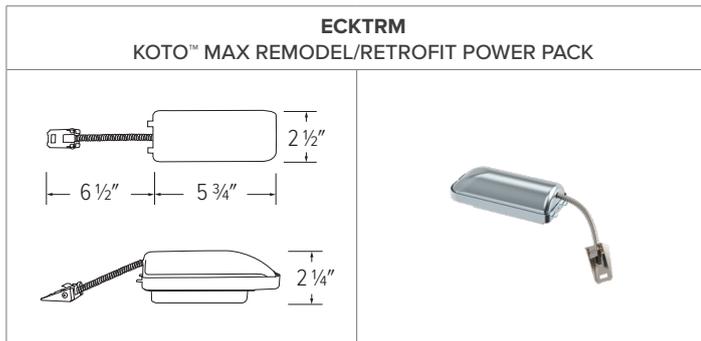
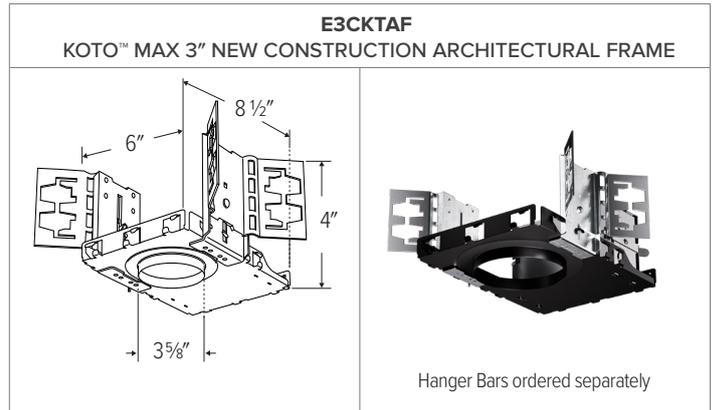
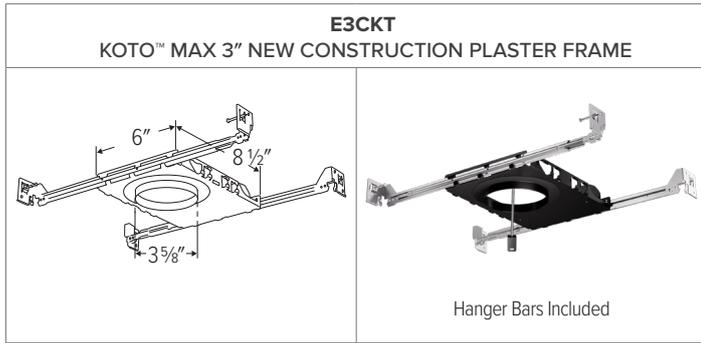
Style: **Knife Edge Wood Ceiling Adaptor**
Item: **EL3WCRW** (All White)
EL3WCRB (All Black)
For use with ELK308 & ELK315



Style: **Trimless Wood Ceiling Ring**
Item: **EL3WCARD**
For use with ELK308 & ELK315

PRODUCT DIMENSIONS

KOTO™ MAX FRAMES AND REMODEL/RETROFIT POWER PACK



KOTO™ MAX LED LIGHT ENGINE



PRODUCT DIMENSIONS

KOTO™ CANLESS ROUND TRIMS

EKCL3618 - 3" ROUND DEEP REFLECTOR

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

EKCL3629 - 3" ROUND ADJUSTABLE REFLECTOR

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

EKCL3627 - 3" ROUND ADJUSTABLE PINHOLE

W (All White) **BZ** (All Bronze)
BB (All Black) **B** (Black/White)

EKCL3620 - 3" ROUND ADJUSTABLE SLOT APERTURE

W (Black Slot/White)

EKCL3622 - 3" ADJUSTABLE REFLECTOR WALL WASH

W (All White)

EKCL3679 - 3" ROUND DIRECTIONAL GIMBAL

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

EKCL3672 - 3" ROUND CURVED REFLECTOR

W (All White)
BB (All Black)

EL3FMR - 3" FLUSH MOUNT SPACKLE FRAME

Compatible with EKCL3618, EKCL3629, EKCL3627, EKCL3620, & EKCL3622 trims

PRODUCT DIMENSIONS

KOTO™ CANLESS ROUND TRIMS

EKCL3653 - 3" ROUND SLEEK REGRESSED EYEBALL

3 3/4" Height (Trim + Module)
360° Rotation - 30° Tilt

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

EKCL3663 - 3" ROUND SLEEK REFLECTOR

3 1/2" Height (Trim + Module)

W (All White)
BB (All Black)

EKCL3683 - 3" ROUND SLEEK WALL WASH REFLECTOR

3 1/2" Height (Trim + Module)

W (All White)
BB (All Black)

KOTO™ CANLESS SQUARE TRIMS

EKCL3318 - 3" SQUARE DEEP REFLECTOR

5" Height (Trim + Module)

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

EKCL3329 - 3" SQUARE ADJUSTABLE REFLECTOR

4" Height (Trim + Module)
358° Rotation - 30° Tilt

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

EKCL3327 - 3" SQUARE ADJUSTABLE PINHOLE

4 1/8" Height (Trim + Module)
360° Rotation - 30° Tilt

W (All White) **BZ** (All Bronze)
BB (All Black) **B** (Black/White)

EKCL3322 - 3" SQUARE ADJUSTABLE REFLECTOR WALL WASH

4 3/4" Height (Trim + Module) - 45° Tilt

W (All White)

PRODUCT DIMENSIONS

KOTO™ CANLESS SQUARE TRIMS

EKCL3341 - 3" SQUARE REFLECTOR

NET LOCATION

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

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

4 3/8" Height (Trim + Module)

EL3FMS - 3" SQUARE FLUSH MOUNT SPACKLE FRAME

Compatible with EKCL3318, EKCL3329, EKCL3327, EKCL3322, & EKCL3341 trims

KOTO™ CANLESS ROUND TRIMLESS

ELK308 - 3" ROUND TRIMLESS REFLECTOR

NET LOCATION

W (All White) **H** (All Haze)

B (All Black)

4 1/2" Height (Trimless + Module)
Requires EL3SFR or EL3WCR
(Sold Separately)

ELK315 - 3" ROUND ADJUSTABLE TRIMLESS REFLECTOR

DAMP LOCATION

W (All White) **H** (All Haze)

B (All Black)

4 1/2" Height (Trimless + Module) - 35° Tilt
Requires EL3SFR or EL3WCR
(Sold Separately)

EL3SFR - 3" ROUND TRIMLESS SPACKLE FRAME

For use with ELK308 & ELK315

EL3WCRW - 3" ROUND KNIFE EDGE WOOD CEILING ADAPTOR

DAMP LOCATION

W (All White)

B (All Black)

For use with ELK308 & ELK315
Compatible with ceiling up to 2" thick

EL3WCARD - 3" ROUND TRIMLESS WOOD CEILING RING

For use with ELK308 & ELK315

ACCESSORIES

LENS & OPTICS (field changeable)

FIELD CHANGEABLE LENS		HEX LOUVER	LINEAR LENS	SPREAD LENS
				
EP731C (18°) / EP732C (25°) EP733C (38°) / EP734C (60°)	EP739C (90°)	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: 100-277VAC, 50/60Hz., 25W Max Output: 170VDC, 25W Charging time: 36 hours cUL listed - Suitable for damp location

TECHNICAL DETAILS

Optics: PC lens diffuses light evenly throughout while reducing glare with LED COB technology.

Construction: IC rated for direct contact with insulation for 750 lm (6W), 1000 lm (8W), 1250 lm (11W) & 1500 lm (14W) outputs. Non IC rated for 2000 lm (19W), 2500 lm (23W), 3000 lm (29W), & 3500 lm (32W) outputs.

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

Installation (Frame): High strength hanger bars can easily be nailed to joists. Suitable for T-grid and drop ceiling applications. See installation sheet for detailed information.

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.

Hanger bars ordered separately for Architectural Frame. 27" Flat bars for wood construction (FB27) and 26" C-Channel bars for T-bar ceiling (CH26) available.

Installation (Light Engine): Twist-On design for tool-less trim installation, for use with Canless Koto™ trims only. Can be used with New Construction Plaster and Architectural Frames or Remodel/Retrofit Koto™ MAX Power Pack.

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

Electrical: Driver is rated for 120-277V input. High Efficiency driver with a power factor >0.95.

Dimming: Triac/ELV/0-10V dimming (1%)

Emergency Battery Pack: Optional 25W MAX. 90 minute battery backup 2", 3", 4" & 6" accessible from below.

Listings: UL and cUL Listed for Damp Location with Damp Location trims and Wet Location with Wet Location trims. IC Rated for direct contact with insulation up to 14W. Non-IC for 19W-32W. Light engine is thermally protected. RoHS Compliant. Title 24 JA8-2022 E-Compliant.

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 E2CKT Series, E2CKTAF Series, E2CKTRM Series, E3CKT Series, E3CKTAF Series, E3CKTRM Series, E4CKT Series, E4CKTAF Series, E4CKTRM Series, E6CKT Series, E6CKTAF Series, E6CKTRM Series			
Leviton	120V AC 60Hz, 300W Electronic Low Voltage, 400 Volt Amp, Single Pole, 3-Way	IPE04	1% - 100%
	120V AC 60Hz, 300W CFL or 600W Incandescent, 400 Volt Amp, Single Pole, 3-Way	6673-10W	1% - 100%
	120V AC, 600W Incandescent with LED Locator, Single Pole, 3-Way	VP106	1% - 100%
	120V AC 60Hz, 500W Incandescent with LED Level Indicator, Single Pole, 3-Way	6161	1% - 100%
	120V AC, 150W LED/CFL or 600W Incandescent, Single Pole, 3-Way	6674	1% - 100%
Lutron	120V AC, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	RRD-6CL	1% - 100%
	120V AC 60Hz, 150W LED/CFL/Incandescent/Halogen, Single Pole, 3-Way	DVCL-153P	1% - 100%
	120V 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	TGCL-153P	1% - 100%
	120V AC 60Hz, 300W Electronic Low Voltage, 3-Way, Commercial/Residential Application	DVELV-303P	1% - 100%
	120V, 600W Incandescent/Halogen, Single Pole, Residential Indoor Application	TG-600P	1% - 100%
	120V, 1000W Incandescent or 600W Magnetic Low Voltage, Single Pole, 3-Way	CT103P	1% - 100%
	120V AC 60Hz, 600W Electronic Low Voltage, Single Pole/Multi-Location	MAELV600	1% - 100%
	120V AC 60Hz, 500W Electronic Low Voltage, Single Pole/Multi-Location	FAELV500	1% - 100%
	120V AC 60Hz, 600W Incandescent/Halogen, Single Pole, Slide-to-Off Dimmer	S-600P	1% - 100%
	120V AC 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	SCL-153P	1% - 100%
	Caséta® Wireless Dimmer	PD-6WCL	1% - 100%
	120V AC 60Hz, Low Voltage Load Type, 150W Single Pole	DVLV-600P	5% - 100%
	120V AC, 60Hz, 600W Incandescent/Halogen, Single Pole, 3-Way, Residential and Commercial Application	DV-603P	1% - 100%
	120V AC, 50/60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way, Indoor Application	MA-PRO	1% - 100%
	120V AC 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	MACL-153M	1% - 100%
Eaton	120V AC, 300W LED/CFL or 600W Incandescent/MLV/Halogen, Single Pole, 3-Way	TAL06P1-C1	1% - 100%
Cooper	120V AC 60Hz, 300W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	SLC03P / DAL06P	1% - 100%
	120V AC 60Hz, 300W LED/CFL or 600W Incandescent, Single Pole, 3-Way, Residential	DLC03P	1% - 100%
	120V AC 60Hz, 600W Incandescent/Halogen, Single Pole, 3-Way	RI061-VW-K2	1% - 100%
	120V AC 60Hz, 300W LED/CFL/ Incandescent/Halogen, Single Pole, 3-Way	AAL06A-C2	1% - 100%
Lightolier	120V, 260W Incandescent/Halogen, Single Pole, 3-Way	ZP260QEW	1% - 100%

0-10V Type Dimmers - 120/277V for E2CKT Series, E2CKTAF Series, E2CKTRM Series, E3CKT Series, E3CKTAF Series, E3CKTRM Series, E4CKT Series, E4CKTAF Series, E4CKTRM Series, E6CKT Series, E6CKTAF Series, E6CKTRM Series			
Lutron	120/277V AC, 0-10V LED/CFL Ballast, Single Pole, 3-Way	NFTV	1% - 100%
	120/277V AC, 0-10V, Single Pole, 3-Way, Commercial and Residential, Indoor Application	DVSTV	1% - 100%
	120/277V AC 50/60Hz, 0-10V LED/CFL Ballast, Single Pole, 3-Way, Indoor Application	DVTV	1% - 100%
Leviton	120/277V AC 60Hz, 0-10V LED/CFL Ballast, Single Pole, 3-Way	IP710-DL	1% - 100%

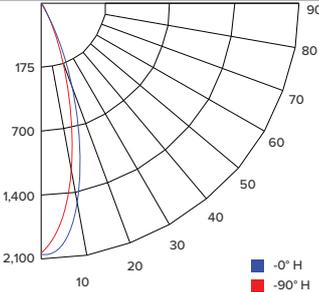
***NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details**

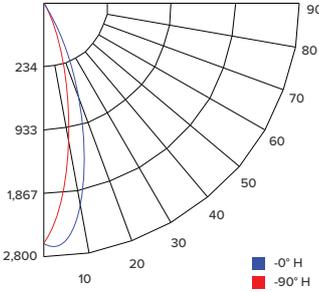
Disclaimer: Minimum and maximum loads for LEDs and CFLs are given in number of lamps and may vary depending on the lamp being used. Testing conducted by ELCO Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer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

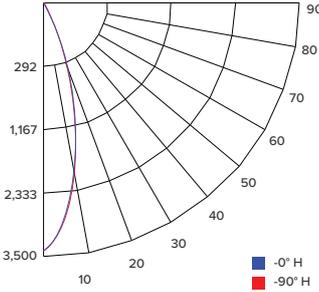
Integrating our lighting with your Smart Home System is a breeze. Simply check your Smart Home system for compatible smart switches and cross reference that with our Dimming Compatibility Chart. Once the switches are integrated with your Smart Home system your lights will be ready to go.

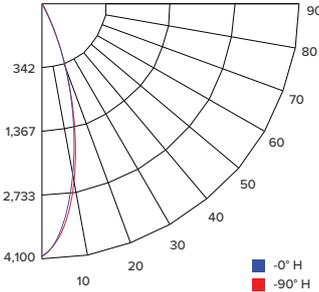


KOTO™ MAX LED MODULE

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3530D (EXCKT07DX) Wattage / Lumens: 5.83W / 736.6 lm Luminaire LPW: 126.35 lm/W 	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	2047	4'	128	2.3'
	5	1987	6'	56.9	3.4'
	15	1279	8'	32.0	4.5'
	25	434	10'	20.5	5.7'
	35	78	ZONAL LUMEN SUMMARY		
	45	34			
	55	23			
	65	13			
	75	6			
85	2	Zone	Lumens	%Luminaire	
90	2	0-30°	629.3	85.5	
		0-40°	672.8	91.4	
		0-60°	716.1	97.3	
		0-90°	735.9	100	

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3530D (EXCKT10DX) Wattage / Lumens: 7.44W / 996.7 lm Luminaire LPW: 133.97 lm/W 	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	2656	4'	166	2.3'
	5	2639	6'	73.8	3.4'
	15	1745	8'	41.5	4.6'
	25	638	10'	26.6	5.7'
	35	116	ZONAL LUMEN SUMMARY		
	45	44			
	55	30			
	65	16			
	75	7			
85	2	Zone	Lumens	%Luminaire	
90	2	0-30°	849.6	85.3	
		0-40°	915.4	91.9	
		0-60°	972.0	97.6	
		0-90°	995.8	100	

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3530D (EXCKT12DX) Wattage / Lumens: 10.11W / 1250.5 lm Luminaire LPW: 123.69 lm/W 	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	3389	4'	212	2.3
	5	3047	6'	94.2	3.4
	15	1678	8'	53.0	4.6
	25	415	10'	33.9	5.7
	35	93	ZONAL LUMEN SUMMARY		
	45	53			
	55	39			
	65	26			
	75	16			
85	13	Zone	Lumens	%Luminaire	
90	12	0-30°	1,033.0	82.6	
		0-40°	1,107.6	88.6	
		0-60°	1,192.2	95.4	
		0-90°	1,249.9	100	

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3530D (EXCKT15DX) Wattage / Lumens: 12.89W / 1499.5 lm Luminaire LPW: 116.33 lm/W 	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	4067	4'	254	2.3
	5	3657	6'	113	3.4
	15	2013	8'	63.6	4.6
	25	498	10'	40.7	5.7
	35	112	ZONAL LUMEN SUMMARY		
	45	64			
	55	47			
	65	31			
	75	19			
85	15	Zone	Lumens	%Luminaire	
90	14	0-30°	1,239.6	82.6	
		0-40°	1,329.1	88.6	
		0-60°	1,430.7	95.4	
		0-90°	1,499.9	100	

KOTO™ MAX LED MODULE

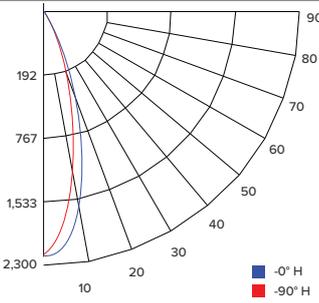
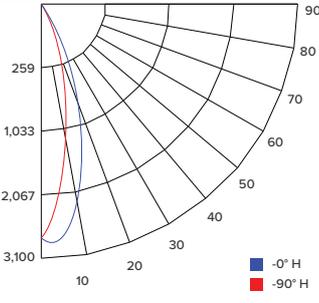
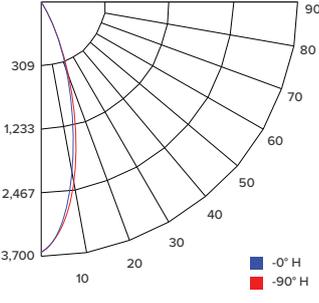
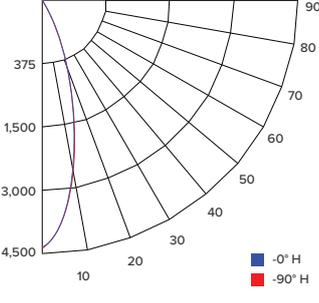
PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3530D (EXCKT20DX) Wattage / Lumens: 18.3W / 1992 lm Luminaire LPW: 108.85 lm/W	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	5310	4'	332	2.2
	5	5026	6'	148	3.3
	15	3081	8'	83.0	4.4
	25	985	10'	53.1	5.5
	35	190	ZONAL LUMEN SUMMARY		
	45	94			
	55	67	Zone	Lumens	%Luminaire
	65	40	0-30°	1,665.0	83.6
	75	21	0-40°	1,794.8	90.1
	85	12	0-60°	1,920.3	96.4
	90	12	0-90°	1,991.3	100

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3530D (EXCKT25DX) Wattage / Lumens: 21.76W / 2547.9 lm Luminaire LPW: 117.09 lm/W	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	7057	4'	441	2.3
	5	6670	6'	196	3.4
	15	4097	8'	110	4.5
	25	1282	10'	70.6	5.6
	35	242	ZONAL LUMEN SUMMARY		
	45	116			
	55	82	Zone	Lumens	%Luminaire
	65	50	0-30°	2,158.0	84.7
	75	26	0-40°	2,309.7	90.7
	85	14	0-60°	2,464.4	96.7
	90	14	0-90°	2,547.0	100

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3530D (EXCKT30DX) Wattage / Lumens: 28.6W / 2997.8 lm Luminaire LPW: 104.82 lm/W	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	8295	4'	518	2.3
	5	7488	6'	230	3.4
	15	4204	8'	130	4.5
	25	1168	10'	82.9	5.7
	35	233	ZONAL LUMEN SUMMARY		
	45	132			
	55	91	Zone	Lumens	%Luminaire
	65	51	0-30°	2,548.4	85
	75	23	0-40°	2,723.7	90.9
	85	13	0-60°	2,904.1	96.9
	90	12	0-90°	2,996.9	100

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3530D (EXCKT35DX) Wattage / Lumens: 31.55W / 3212.8 lm Luminaire LPW: 101.83 lm/W	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	8887	4'	555	2.3
	5	8023	6'	247	3.4
	15	4504	8'	139	4.5
	25	1252	10'	88.9	5.7
	35	250	ZONAL LUMEN SUMMARY		
	45	141			
	55	98	Zone	Lumens	%Luminaire
	65	54	0-30°	2,730.5	85
	75	25	0-40°	2,918.2	90.9
	85	14	0-60°	3,111.5	96.9
	90	13	0-90°	3,211.0	100

KOTO™ MAX LED MODULE

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3540D (EXCKT07DX) Wattage / Lumens: 5.83W / 795.8 lm Luminaire LPW: 136.5 lm/W 	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	2211	4'	138	2.3
	5	2146	6'	61.4	3.4
	15	1381	8'	34.5	4.5
	25	468	10'	22.1	5.7
	35	84	ZONAL LUMEN SUMMARY		
	45	36			
	55	25	Zone	Lumens	%Luminaire
	65	14	0-30°	679.6	85.5
	75	6	0-40°	726.6	91.4
85	3	0-60°	773.4	97.3	
90	2	0-90°	794.7	100	
Product #: ECKT3540D (EXCKT10DX) Wattage / Lumens: 7.44W / 1076.6 lm Luminaire LPW: 144.7 lm/W 	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	2868	4'	179	2.3
	5	2850	6'	79.7	3.4
	15	1884	8'	44.8	4.6
	25	690	10'	28.7	5.7
	35	125	ZONAL LUMEN SUMMARY		
	45	48			
	55	33	Zone	Lumens	%Luminaire
	65	18	0-30°	917.6	85.3
	75	7	0-40°	988.6	91.9
85	3	0-60°	1,049.8	97.6	
90	2	0-90°	1,075.5	100	
Product #: ECKT3540D (EXCKT12DX) Wattage / Lumens: 10.11W / 1350.5 lm Luminaire LPW: 133.58 lm/W 	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	3661	4'	229	2.3
	5	3291	6'	102	3.4
	15	1812	8'	57.2	4.6
	25	448	10'	36.6	5.7
	35	101	ZONAL LUMEN SUMMARY		
	45	57			
	55	42	Zone	Lumens	%Luminaire
	65	28	0-30°	1,115.6	82.6
	75	17	0-40°	1,196.2	88.6
85	14	0-60°	1,287.6	95.4	
90	13	0-90°	1,349.9	100	
Product #: ECKT3540D (EXCKT15DX) Wattage / Lumens: 12.89W / 1619.6 lm Luminaire LPW: 125.65 lm/W 	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	4393	4'	275	2.3
	5	3949	6'	122	3.4
	15	2174	8'	68.6	4.6
	25	538	10'	43.9	5.7
	35	121	ZONAL LUMEN SUMMARY		
	45	69			
	55	50	Zone	Lumens	%Luminaire
	65	34	0-30°	1,338.7	82.6
	75	20	0-40°	1,435.4	88.6
85	16	0-60°	1,545.1	95.4	
90	16	0-90°	1,619.9	100	

KOTO™ MAX LED MODULE

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3540D (EXCKT20DX) Wattage / Lumens: 18.3W / 2151.9 lm Luminaire LPW: 117.59 lm/W	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	5735	4'	358	2.2
	5	5428	6'	159	3.3
	15	3328	8'	89.6	4.4
	25	1063	10'	57.3	5.5
	35	205	ZONAL LUMEN SUMMARY		
	45	101			
	55	72	Zone	Lumens	%Luminaire
	65	43	0-30°	1,798.2	83.6
	75	23	0-40°	1,938.4	90.1
	85	13	0-60°	2,073.9	96.4
	90	13	0-90°	2,150.6	100

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3540D (EXCKT25DX) Wattage / Lumens: 21.76W / 2751.7 lm Luminaire LPW: 126.46 lm/W	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	7621	4'	476	2.3
	5	7204	6'	212	3.4
	15	4424	8'	119	4.5
	25	1385	10'	76.2	5.6
	35	261	ZONAL LUMEN SUMMARY		
	45	126			
	55	89	Zone	Lumens	%Luminaire
	65	54	0-30°	2,330.6	84.7
	75	28	0-40°	2,494.4	90.7
	85	16	0-60°	2,661.5	96.7
	90	15	0-90°	2,750.8	100

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3540D (EXCKT30DX) Wattage / Lumens: 28.6W / 3237.6 lm Luminaire LPW: 113.20 lm/W	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	8958	4'	560	2.3
	5	8087	6'	249	3.4
	15	4540	8'	140	4.5
	25	1262	10'	89.6	5.7
	35	252	ZONAL LUMEN SUMMARY		
	45	142			
	55	98	Zone	Lumens	%Luminaire
	65	55	0-30°	2,752.3	85
	75	25	0-40°	2,941.6	90.9
	85	14	0-60°	3,136.4	96.9
	90	13	0-90°	3,236.7	100

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ECKT3540D (EXCKT35DX) Wattage / Lumens: 31.55W / 3469.9 lm Luminaire LPW: 109.99 lm/W	Degree Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	9598	4'	600	2.3
	5	8665	6'	267	3.4
	15	4865	8'	150	4.5
	25	1352	10'	96	5.7
	35	270	ZONAL LUMEN SUMMARY		
	45	153			
	55	105	Zone	Lumens	%Luminaire
	65	59	0-30°	2,948.9	85
	75	27	0-40°	3,151.7	90.9
	85	15	0-60°	3,360.4	96.9
	90	14	0-90°	3,467.9	100