

# Koto™ LED Module

Works with 2", 3", 4", 5" & 6" Recessed Housings and Koto™ Trims



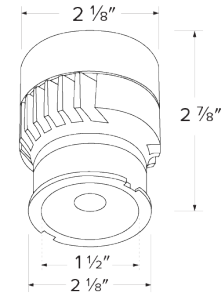
## Features

- Integrated 120V Dimmable Driver Triac/ELV
- Excellent color rendering 95+ CRI
- Sunset Module ELK09SD & ELK11SD starts from 3000K and dims to 1800K
- Human Centric Module ELK11HC starts from 4000K and dims to 2200K
- Works in 2", 3", 4" and 6" ELCO housings with Koto™ twist-on
- Energy Star Certified
- Title 24 JA8-2019 Compliant
- Standard 38° Lens installed, 25° and 60° lens included with each module - Optional Lens: 18° (EP731C), 90° (EP739C)
- Optional: Louver (L45), Linear Lens (L46), Spread Lens (L47), Clear Lens (L48), Frosted Lens (L49), Snoot (L50), Color Shifter (L51), Blue Lens (L52), Pink Lens (L53), Single Asymmetric Lens (L54), Double Asymmetric Lens (L55)
- Covered by U.S. PATENTS and Patents Pending

## Specifications

<b>Wattage</b>	10.5W
<b>Lumens</b>	830 lm
<b>Voltage</b>	120V
<b>Color Temp.</b>	3500K
<b>Dimmable</b>	Triac/ELV
<b>Lamp Type</b>	LED
<b>Beam Angle</b>	90°
<b>CRI</b>	95
<b>Wet Location</b>	cUL Listed w/Wet Location Trim
<b>Damp Location</b>	cUL Listed

## Dimensions



## Technical Details

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

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

**Installation:** Twist & Lock design for toolless trim installation, for use with Koto™ trims only. Can be use in 2", 3", 4", 5" and 6" housings with quick connect base.

**Electrical:** Module connects to 120 power supply. High efficiency driver with a power factor >0.9. Start time of less than 0.75 seconds.

**Operating Temperature:** 0°F - 200°F of operating temperature.

**Delivered Lumens:** ELK0724 730 lm/2400K/10.5W ELK0727 770 lm/2700K/10.5W ELK0730 800 lm/3000K/10.5W ELK0735 830 lm/3500K/10.5W ELK0740 860 lm/4000K/10.5W

ELK0924 900 lm/2400K/10.5W ELK0927 940 lm/2700K/10.5W ELK0930 990 lm/3000K/10.5W ELK0935 1040 lm/3500K/10.5W ELK0940 1100 lm/4000K/10.5W ELK09SD 940 lm/Sunset/10.5W

ELK1124 1060 lm/2400K/12.5W ELK1127 1100 lm/2700K/12.5W ELK1130 1150 lm/3000K/12.5W ELK1135 1200 lm/3500K/12.5W ELK1140 1260 lm/4000K/12.5W ELK11SD 1050 lm/Sunset/12.5W ELK11HC 1050 lm/Human Centric/12.5W

**ELK1327** 1250 lm/2700K/12.5W **ELK1330** 1300 lm/3000K/12.5W **ELK1335** 1350 lm/3500K/12.5W **ELK1340** 1400 lm/4000K/12.5W

**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.

**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.

**Dimmability:** Works with 120V Triac and 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.

**Listings:** cUL Listed for Damp Locations. cUL Listed for Wet Location with Wet location trims. RoHS Compliant. Meets Energy Star & California Title 24 JA8-2019 standards.

**Warranty:** ELCO Products are built to last with a 5-year Limited Warranty.

## Product Number Builder Example: ELK0724

Koto™ LED Module	Lumens	Color Temp.	Beam Angle
<b>ELK</b>			
	<b>07</b> 750 lm (10.5W)	<b>24</b> 2400K	38° <sup>5</sup>
	<b>09</b> 950 lm (10.5W)	<b>27</b> 2700K	<b>-S</b> 18°
	<b>11</b> 1150 lm (12.5W)	<b>30</b> 3000K	<b>-N</b> 25°
	<b>13</b> 1350 lm (12.5W)	<b>35</b> 3500K	<b>-W</b> 60°
		<b>40</b> 4000K	<b>-E</b> 90° <sup>6</sup>
		<b>SD</b> Sunset <sup>1, 2</sup>	
		<b>HC</b> Human Centric <sup>3, 4</sup>	

<sup>1</sup> Available with ELK09 and ELK11 lumen outputs only

<sup>2</sup> Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

<sup>3</sup> Available with ELK11 lumen outputs only

<sup>4</sup> Human Centric, Dim to Warm technology, automatically transitions from 4000K to 2200K when dimmed

<sup>5</sup> 38° lens installed. Includes 25° and 60° lens with module.

<sup>6</sup> 90° Frosted Reflector

# Compatible Products



For use with **Koto™ LED Module**

## 2" Koto™ Dedicated LED ICA Housings



2" ICA Maximum Adjustability Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
EL276ICA	Maximum Adjustability

## 2" Pex™ Twist-On Trims



**Round Deep Reflector**

**ELK2818**  
Finishes:  
(W, B, H, BB, BZ)



**Round Adjustable Reflector**

**ELK2829**  
Finishes:  
(W, B, H, BB, BZ)



**Round Adjustable Pinhole**

**ELK2827**  
Finishes:  
(W, B, BB, BZ)



**Round Curved Reflector**

**ELK2872**  
Finishes:  
(W, B\*)



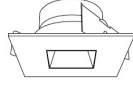
**Square Deep Reflector**

**ELK2518**  
Finishes:  
(W, B, BB)



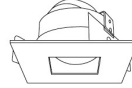
**Square Adjustable Reflector**

**ELK2529**  
Finishes:  
(W, B, BB)



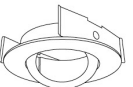
**Square Reflector**

**ELK2541**  
Finishes:  
(W, B, BB)



**Square Adjustable Pinhole**

**ELK2527**  
Finishes:  
(W, B, BB)



**Round Gimbal**

**ELK2888**  
Finishes:  
(W, B\*, BZ)



**Square Gimbal**

**ELK2588**  
Finishes:  
(W, B\*, BZ)



**Round Adj. Trimless Reflector**

**ELK215**  
Finishes:  
(W, B\*)



**Trimless Spackle Frame**

**EL2SFR**  
For use with ELK215

Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black w/White Ring, **C** - Chrome w/White Ring, **H** - Haze w/White Ring, **B\*** - All Black (For ELK2872, ELK2888, ELK2588, & ELK215)

# Compatible Products

For use with **Koto™ LED Module**



## 3" Koto™ Dedicated LED ICA Housings



2-Hour Fire Rated 3" ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
EL39FICA	7 1/2" Height - Sound Rated



3" ICA Maximum Adjustability Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
EL386ICA	Maximum Adjustability



3" ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
EL390ICA	
EL390ICA-EM5	Emergency Battery Back-up (90 minutes)



3" ICA Housing  
**Remodel**

CAT NO.	SPECIFICATIONS
EL390ICA	

## 3" Pex™ Twist-On Trims



**Round Deep Reflector**

**ELK3618**

Finishes:

(W, BB, BZ, B, C, H)

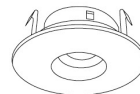


**Round Adjustable Gimbal**

**ELK3629**

Finishes:

(W, BB, BZ, B, C, H)



**Round Adjustable Pinhole**

**ELK3627**

Finishes:

(B, BB, BZ, B, H)



**Round Adj. Slot Aperture**

**ELK3620**

Finishes:

(W)



**Round Adj. Wall Wash**

**ELK3622**

Finishes:

(W)

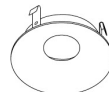


**Round Regressed Eyeball**

**ELK3653**

Finishes:

(W, BB, B)



**Round Curved Reflector**

**ELK3672**

Finishes:

(W, B)



**Round Directional Gimbal**

**ELK3679**

Finishes:

(W, BB, B, H)



**Round Adjustable Baffle**

**ELK3693**

Finishes:

(W)

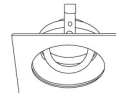


**Square Deep Reflector**

**ELK3318**

Finishes:

(W, BB, BZ, B, C, H)



**Square Adjustable Reflector**

**ELK3329**

Finishes:

(W, BB, BZ, B, C, H)



**Square Adj. Wall Wash**

**ELK3322**

Finishes:

(W)

\*Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black Reflector w/White Ring, **C** - Chrome Reflector w/White Ring, **H** - Haze Reflector w/White Ring



# Compatible Products

For use with **Koto™ LED Module**



## 3" Pex™ Twist-On Trims



**Square Adjustable Pinhole**  
**ELK3327**  
Finishes:  
(W, BB, BZ, B, H)



**Square Reflector**  
**ELK3341**  
Finishes:  
(W, BB, BZ, B)



**Square Adjustable Baffle**  
**ELK3393**  
Finishes:  
(W)

## 3" Pex™ Flush Mount Trim Adaptors



**Round Flush Mount Trim Adaptor**  
**EL3FMR**  
Compatible 3" Pex™ Round trims:  
ELK3618, ELK3629, ELK3627, ELK3693,  
ELK3620, ELK3622 Series



**Square Flush Mount Trim Adaptor**  
**EL3FMS**  
Compatible 3" Pex™ Square trims:  
ELK3318, ELK3329, ELK3322, ELK3327,  
ELK3341, ELK3393 Series

## 3" Pex™ Trimless



**Round Trimless Reflector**  
**ELK308**  
Finishes:  
(W, B, H)



**Round Adjustable Trimless Reflector**  
**ELK315**  
Finishes:  
(W, B, H)



**Round Trimless Spackle Frame**  
**EL3SFR**  
For use with ELK315



**Round Knife Edge Wood Ceiling Trim w/Mounting Clips**  
**EL3WCR**  
Finishes:  
(W, B)



**Square Trimless Reflector**  
**ELK370**  
Finishes:  
(W, B, H)



**Square Adjustable Trimless Reflector**  
**ELK381**  
Finishes:  
(W, B, H)



**Square Trimless Spackle Frame**  
**EL03SFS**  
For use with ELK370 & ELK381

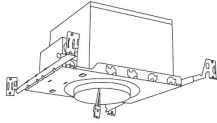
Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black w/White Ring, **C** - Chrome w/White Ring, **H** - Haze w/White Ring, **B\*** - All Black (For ELK315, ELK370, & ELK381)

# Compatible Products



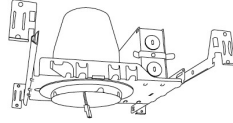
For use with **Koto™ LED Module**

## 4" Koto™ Dedicated LED ICA Housings



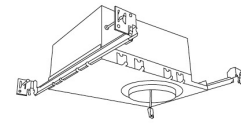
4" ICA Maximum Adjustability Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
EL485ICA	Maximum Adjustability



4" ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
EL490ICA	14W, 120/277V
EL490ICA-EM5	Emergency Battery Back-up (90 minutes)



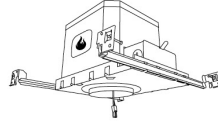
4" R-60 Spray Foam Insulation Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
EL490AJICA	Maximum Adjustability, For use in R60 or Chicago plenum applications



4" ICA Housing  
**Remodel**

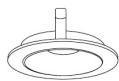
CAT NO.	SPECIFICATIONS
EL490RICA	14W, 120V



2-Hour Fire Rated 4" ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
EL48FICA	7 1/2" Height, Sound Rated

## 4" Pex™ Twist-On Trims



**Shallow Reflector**  
**ELK4116**  
Finishes:  
(W, H)



**Deep Reflector**  
**ELK4118**  
Finishes:  
(W, BB, BZ, B, C, H)



**Adjustable Reflector**  
**ELK4129**  
Finishes:  
(W, BB, BZ, B, C, H)



**Adjustable Reflector with Clear Glass**  
**ELK4111**  
Finishes:  
(W, BB, BZ, B, C, H)



**Adjustable Reflector with Frosted Lens**  
**ELK4112**  
Finishes:  
(W, BB, BZ, B, C, H)



**Rotatable Slot Aperture**  
**ELK4120**  
Finishes:  
(W)



**Adjustable Wall Wash**  
**ELK4122**  
Finishes:  
(W)



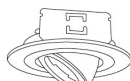
**Adjustable Pinhole**  
**ELK4127**  
Finishes:  
(W, BB, BZ, B, H)



**Adjustable Pinhole with Frosted Glass**  
**ELK4125**  
Finishes:  
(W, BB, BZ, B, H)



**Slot Aperture**  
**ELK4130**  
Finishes:  
(W)



**Adjustable Spot**  
**ELK4188**  
Finishes:  
(W, B, BZ)



**Regressed Eyeball**  
**ELK4153**  
Finishes:  
(W, BB, B)



**Curved Reflector**  
**ELK4172**  
Finishes:  
(W, B)



**Directional Gimbal**  
**ELK4179**  
Finishes:  
(W, BB, B, H)



**Adjustable Baffle**  
**ELK4193**  
Finishes:  
(W, BB, B)

Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black w/White Ring, **C** - Chrome w/White Ring, **H** - Haze w/White Ring, **B\*** - All Black (For ELK4188, ELK4172, & ELK4284)

# Compatible Products



For use with **Koto™ LED Module**

## 4" Pex™ Twist-On Trims



**Shallow Reflector**

**ELK4216**  
Finishes:  
(W, H)



**Deep Reflector**

**ELK4218**  
Finishes:  
(W, BB, BZ, B, C, H)



**Adjustable Gimbal**

**ELK4229**  
Finishes:  
(W, BB, BZ, B, C, H)



**Adjustable Slot  
Rotatable Aperture**

**ELK4220**  
Finishes:  
(W)



**Adjustable  
Wall Wash**

**ELK4222**  
Finishes:  
(W)



**Adjustable Pinhole**

**ELK4227**  
Finishes:  
(W, BB, BZ, B, C, H)



**Adjustable Reflector**

**ELK4282**  
Finishes:  
(W, BZ)



**Adjustable Baffle**

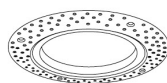
**ELK4284**  
Finishes:  
(W, B, BZ)



**Adj. Phenolic Baffle**

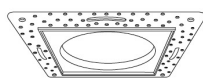
**ELK4293**  
Finishes:  
(W, BB, B)

## 4" Pex™ Flush Mount Trim Adaptors



**Round Flush Mount Trim Adaptor**

**EL4FMR**  
Compatible 3" Pex™ Round trims:  
ELK4116, ELK4118, ELK4127, ELK4129,  
ELK4710, ELK4713, ELK4715 Series



**Square Flush Mount Trim Adaptor**

**EL4FMS**  
Compatible 3" Pex™ Square trims:  
ELK4216, ELK4218, ELK4227,  
ELK4229 Series

## 4" Pex™ Trimless



**Round Trimless Reflector**

**ELK408**  
Finishes:  
(W, B, H, BZ)



**Round Adj. Trimless Reflector**

**ELK415**  
Finishes:  
(W, B, H, BZ)



**Round Trimless Spackle Frame**

**EL4SFR**  
For use with ELK408 & ELK415



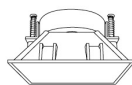
**Smooth Reflector**

**ELK430**  
Finishes:  
(W, B, BZ)



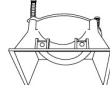
**Baffle**

**ELK434**  
Finishes:  
(W, B, BZ)



**Square Trimless Reflector**

**ELK445**  
Finishes:  
(W, B, H)



**Square Trimless Adj. Reflector**

**ELK459**  
Finishes:  
(W, B, H)



**Square Trimless Spackle Frame**

**EL4SFS**  
For use with ELK445 & ELK459

Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black w/White Ring, **C** - Chrome w/White Ring, **H** - Haze w/White Ring, **B\*** - All Black (For ELK408, ELK415, ELK434, ELK445, ELK459)

# Compatible Products



For use with **Koto™ LED Module**

## 4" Flexa™ Twist-On Trims



**Round Reflector**

**ELK4721**

Finishes:  
(WW, BB, BZBZ,  
BW, CW, HW)



**Round Baffle**

**ELK4723**

Finishes:  
(WW, BB, BZBZ, BW)



**Square Reflector**

**ELK4741**

Finishes:  
(WW, BB, BZBZ,  
BW, HW)  
*\*Not for Remodel Housing*



**Square Baffle**

**ELK4743**

Finishes:  
(WW, BB, BZBZ, BW)  
*\*Not for Remodel Housing*



**Square Adj. Reflector**

**ELK4759**

Finishes:  
(WW, BB, B, H)  
*\*Not for Remodel Housing*

## 4" Unique™ Twist-On Trims



**Round Adjustable Reflector**

**ELK4710**

Finishes:  
(W, B, BZ)



**Round Adjustable Baffle**

**ELK4713**

Finishes:  
(W, BZ)



**Round Wall Wash**

**ELK4715**

Finishes:  
(W, BZ)



**Round Adj. Deep Reflector**

**ELK4717**

Finishes:  
(W, BZ)



**Round Adj. Deep Baffle**

**ELK4719**

Finishes:  
(W)



**Square Reflector**

**ELK4714**

Finishes:  
(W, B, BZ)  
*\*Not for Remodel Housing*



**Square Baffle**

**ELK4716**

Finishes:  
(W, BZ)  
*\*Not for Remodel Housing*

\*Finishes: **W** - All White, **WW** - All White, **B** - Black Reflector w/White Ring, **C** - Chrome Reflector w/White Ring, **H** - Haze Reflector w/White Ring, **BB** - All Black, **BZ** - All Bronze, **CC** - All Chrome, **BZBZ** - All Bronze, **BW** - Black Reflector w/White Ring, **CW** - Chrome Reflector w/White Ring, **CN** - Chrome Reflector w/Nickel Ring, **HW** - Haze Reflector w/White Ring

# Compatible Products



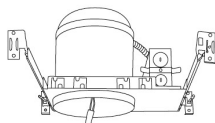
For use with **Koto™ LED Module**

## 6" Koto™ Dedicated LED ICA Housings



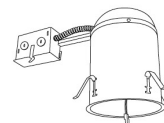
2-Hour Fire Rated 6" ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
EL76FICA	7 3/4" Height



6" Standard ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
EL770ICA	7 1/2" Height



6" Standard ICA Housing  
**Remodel**

CAT NO.	SPECIFICATIONS
EL770RICA	7 1/2" Height



2-Hour Shallow Fire Rated 6" ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
EL75FICAS	6 3/16" Height



6" Shallow ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
EL760ICA	5 1/2" Height



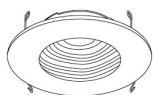
6" Shallow ICA Housing  
**Remodel**

CAT NO.	SPECIFICATIONS
EL760RICA	5 1/2" Height

## 5" & 6" Pex™ Twist-On Trims



5" Round Reflector  
**ELK5421**  
Finishes:  
(W)



5" Round Baffle  
**ELK5493**  
Finishes:  
(W)



6" Round Reflector  
**ELK6418**  
Finishes:  
(W, BB, BZ, H)



6" Round Adj. Reflector  
**ELK6429**  
Finishes:  
(W, BB, BZ, H)



6" Round Adj. Slot Aperture  
**ELK6420W**  
Finishes:  
(W)



6" Round Adj. Pinhole Reflector  
**ELK6427**  
Finishes:  
(W, B, H)



6" Square Adj. Reflector  
**ELK6829**  
Finishes:  
(W, BB, H)

\*Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black Reflector w/White Ring, **C** - Chrome Reflector w/White Ring, **H** - Haze Reflector w/White Ring

# Compatible Products



For use with **Koto™ LED Module**

## 6" Flexa™ Twist-On Trims

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**6" Round Reflector**

**ELK610**

Finishes:

(WW, BB, BZBZ, CC, BW, CW, HW)



**6" Round Adjustable Reflector**

**ELK629**

Finishes:

(WW, BB, BZBZ, BW, CW, HW)



**6" Round Adjustable Baffle**

**ELK693**

Finishes:

(WW, BB, BZBZ, BW)

## 6" Unique™ Twist-On Trims

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**6" Round Reflector**

**ELK6710**

Finishes:

(W, B, BZ)



**6" Round Baffle**

**ELK6713**

Finishes:

(W, BZ)



**6" Round Wall Wash**

**ELK6715**

Finishes:

(W, BZ)

Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black w/White Ring, **C** - Chrome w/White Ring, **H** - Haze w/White Ring, **B\*** - All Black (For ELK6710, ELK6713, ELK6715)

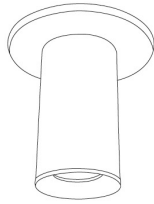
# Compatible Products

For use with **Koto™ LED Module**



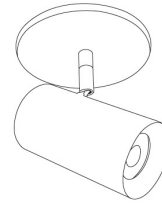
## 2" Koto Sylo™ Build-Your-Own

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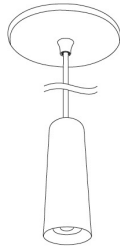
2" Koto Sylo Housing  
**Surface Mount**

CAT NO.	SPECIFICATIONS
EKS25SFW	White Finish
EKS25SFB	Black Finish
EKS25SFS	Silver Finish



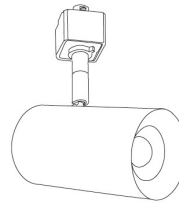
2" Koto Sylo Housing  
**Monopoint**

CAT NO.	SPECIFICATIONS
EKS25MPW	White Finish
EKS25MPB	Black Finish
EKS25MPS	Silver Finish



2" Koto Sylo Housing  
**Pendant**

CAT NO.	SPECIFICATIONS
EKS25PDW	White Finish
EKS25PDB	Black Finish
EKS25PDS	Silver Finish



2" Koto Sylo Housing  
**Surface Mount**

CAT NO.	SPECIFICATIONS
EKS25TRW	White Finish
EKS25TRB	Black Finish
EKS25TRS	Silver Finish

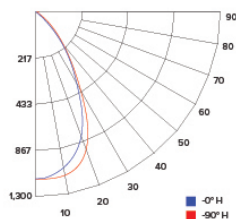


# Photometric Report

## 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

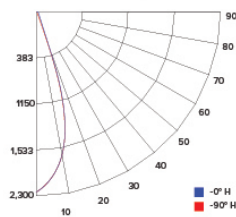
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	74.1	3.2'
6'	32.9	4.8'
8'	18.5	6.4'
10'	11.9	8.0'

### 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 #: ELK0735  
Wattage / Lumens: 10W / 947.4 lm  
Luminaire LPW: 95 lm/W



### CANDLE POWER SUMMARY

Degress Vertical	0°
0	2249
5	2075
15	1257
25	388
35	72
45	31
55	21
65	11
75	5
85	0
90	0

### ILLUMINANCE AT A DISTANCE

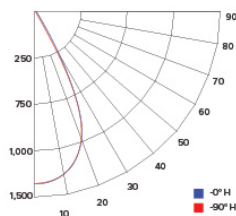
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	141	2.6'
6'	62.5	3.9'
8'	35.1	5.2'
10'	22.5	6.5'

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	812.7	85.8
0-40°	876.7	92.6
0-60°	919.5	97.1
0-90°	936.3	98.9

### PHOTOMETRIC REPORT

Product #: ELK0930  
Wattage / Lumens: 10W / 972 lm  
Luminaire LPW: 97 lm/W



### CANDLE POWER SUMMARY

Degress Vertical	0°
0	1455
5	1397
15	1175
25	655
35	306
45	116
55	38
65	16
75	7
85	2
90	1

### ILLUMINANCE AT A DISTANCE

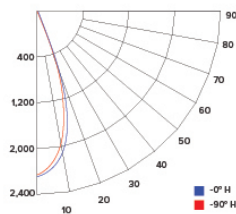
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	90.9	3.1'
6'	40.4	4.7'
8'	22.7	6.3'
10'	14.5	7.8'

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	685.9	70.6
0-40°	846.0	87.1
0-60°	946.8	97.5
0-90°	965.8	99.4

### PHOTOMETRIC REPORT

Product #: ELK0935  
Wattage / Lumens: 10W / 990.8 lm  
Luminaire LPW: 99 lm/W



### CANDLE POWER SUMMARY

Degress Vertical	0°
0	2295
5	2215
15	1501
25	569
35	104
45	37
55	25
65	15
75	9
85	6
90	6

### ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	143	2.6'
6'	63.8	3.9'
8'	35.9	5.2'
10'	23.0	6.4'

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	826.6	83.5
0-40°	890.6	89.9
0-60°	937.1	94.6
0-90°	962	97.1



# Photometric Report

## Koto™ LED Module

### PHOTOMETRIC REPORT

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



### CANDLE POWER SUMMARY

Degree 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

Degree 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 #: ELK1130  
Wattage / Lumens: 11.8W / 1162.5 lm  
Luminaire LPW: 98.5 lm/W



### CANDLE POWER SUMMARY

Degree Vertical	0°
0	3043
5	2807
15	1766
25	520
35	98
45	46
55	34
65	22
75	12
85	8
90	6

### ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	190	2.4'
6'	84.5	3.6'
8'	47.5	4.8'
10'	30.4	6.0'

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	997.9	85.9
0-40°	1,064.7	91.6
0-60°	1,125.3	96.9
0-90°	1,161.6	100

### PHOTOMETRIC REPORT

Product #: ELK1135  
Wattage / Lumens: 11.8W / 1210 lm  
Luminaire LPW: 102.5 lm/W



### CANDLE POWER SUMMARY

Degree Vertical	0°
0	3160
5	2920
15	1836
25	540
35	102
45	47
55	35
65	23
75	13
85	8
90	7

### ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	198	2.4'
6'	87.9	3.6'
8'	49.4	4.8'
10'	31.6	6.0'

### ZONAL LUMEN SUMMARY

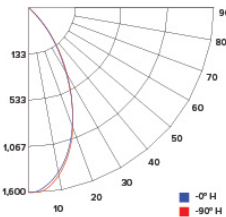
Zone	Lumens	%Luminaire
0-30°	1,037.8	85.9
0-40°	1,107.3	91.6
0-60°	1,170.3	96.9
0-90°	1,208.1	100

# Photometric Report

## Koto™ LED Module

### 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



**ELCO Lighting**

# Dimmer Compatibility Chart

Standard Koto™ LED Modules

For ELK07, ELK08CT5, ELK09, ELK10CT5,

ELK11 & ELK13 Series

## 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
Leviton	Decora SureSlide® Single Pole with Slide -to-Off	6672	15% - 100%
	Leviton Dimmer	1K3502	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%
	Grafik 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 loads, 120V, RP, Commercial/Residential Application	LQSE-4A1-D/MQSE-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) HORA-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%

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.



2042 E. Vernon Ave. Vernon CA 90058 Tel 323.231.2600 Fax 323.231.3200 [elcolighting.com](http://elcolighting.com)

Manufacturer	Product	Part Number	Dimmed Light Output Range
Lutron	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%
	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

**\*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.

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