ELCO Lighting

Project name:

Fixture type:

Date:

# 3″ Koto Sylo™ Direct Mount

## Features

- Modern Die-Cast aluminum fixture for easy maintenance and upgrades
- Includes Standard 38º lens, with 25º and 60º lenses. Optional: 18° & 90° lenses available.
- Directly mounts into ceiling (Up to 1.5″ ceiling thickness)
- Sunset option dims from 3000K to 1800K
- Human Centric option dims from 4000K to 2200K
- Title 24 JA8-2019 & Energy Star Compliant
- Life span of 50,000 hours L70

## Specifications

| | |
|---|---|
| **Wattage** | 10.5W |
| **Lumens** | 950 lm |
| **Voltage** | 120V |
| **Color Temp.** | 3500K |
| **Dimmable** | Triac/ELV |
| **Lamp Type** | LED |
| **Beam Angle** | 38° |
| **CRI** | 95 |
| **Damp Location** | cUL Listed |

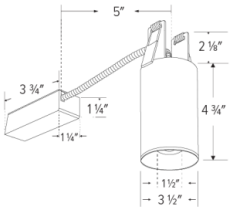
## Options

**White**

**Black**

**Silver**

## Dimensions




## Technical Details

**Optics**: Polycarbonate module lens diffuses light evenly throughout while reducing glare with LED technology.

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

**Installation:** Twist-lock design for toolless trim installation, for use with Koto Sylo™ products only.

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

**Delivered Lumens:**

**0327** 2700K/442.8 lm/5W **0330** 3000K/461.2 lm/5W

**0727** 2700K/770 lm/10.5W **0730** 3000K/800 lm/10.5W **0735** 3500K/830 lm/10.5W **0740** 4000K/860 lm/10.5W

**08CT5** 2700K/728.5 lm/10.5W **08CT5** 3000K/886 lm/10.5W **08CT5** 3500K/902 lm/10.5W **08CT5** 4000K/920 lm/10.5W **08CT5** 5000K/931 lm/10.5W

**0927** 2700K/912 lm/10.5W **0930** 3000K/950 lm/10.5W **0935** 3500K/990 lm/10.5W **0940** 4000K/1030 lm/10.5W **09SD** Sunset/940 lm/10.5W

**10CT5** 2700K/908 lm/12.5W **10CT5** 3000K/1012 lm/12.5W **10CT5** 3500K/1038 lm/12.5W **10CT5** 4000K/1040 lm/12.5W **10CT5** 5000K/1032 lm/12.5W

**1124** 2400K/730 lm/12.5W **1127** 2700K/1068 lm/12.5W **1130** 3000K/1112 lm/12.5 **1135** 3500K/1156 lm/12.5W **1140** 4000K/1202 lm/12.5W **11SD** Sunset/1050 lm/12.5W **11HC** Human Centric/1050 lm/12.5W

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**1327** 2700K/1260 lm/12.5W **1330** 3000K/1312 lm/12.5W **1335** 3500K/1365 lm/12.5W **1340** 4000K/1420 lm/12.5W

**1527** 2700K/1439 lm/14.7W **1530** 3000K/1501 lm/14.7W **1535** 3500K/1565 lm/14.7W **1540** 4000K/1627 lm/14.7W

**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 pixelation.

**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. HUMAN CENTRIC start at 4000K and go as low as 2200K when dimmed.

**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. 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: **E36DW-0727**

| Sylo™ Direct Mount | Style | Finish | Koto™ Module | Color Temperature | Beam Angle |
|---|---|---|---|---|---|
| **E36** | | | | | |
| | **D** Direct Mount | **W** All White | **-03** 350 lm (5W) [1, 2] | **24** 2400K | 38° lens [11] |
| | | **B** All Black | **-07** 750 lm (10.5W) | **27** 2700K | **-S** 18° lens |
| | | **S** Silver | **-09** 950 lm (10.5W) | **30** 3000K | **-N** 25° lens |
| | | | **-11** 1150 lm (12.5W) | **35** 3500K | **-W** 60° lens |
| | | | **-13** 1350 lm (12.5W) | **40** 4000K | **-T** 10° lens [1, 12] |
| | | | **-15** 1500 lm (14.7W) | **SD** Sunset [5, 6] | **-E** 90° lens [13] |
| | | | **-18** 1800 lm (18.9W) | **HC** Human Centric (-11 only) [1, 7, 8] | |
| | | | **-08AL** 880 lm (11.5W) [3] | **CT5** 2700K - 5000K [1, 9] | |
| | | | **-08** 825 lm (10.5W) [1, 4] | **4T** Tunable White 4000K-1800K [10] | |
| | | | **-10** 1000 lm (12.5W) [1, 4] | | |

[1] Available as 120V, Triac/ELV only

[2] Available with 2400K, 2700K and 3000K Color Temperature Only

[3] DALI 2, 120/277V

[4] Available with CT5 color temperature only

[5] Available in -09, -11, -13, -15, & -18 lumen outputs

[6] Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

[7] Available with 1150 lumen (-11) outputs only

[8] Human Centric, Dim to Warm technology, automatically transitions from 4000K to 2200K when dimmed

[9] Available with -08 and -10 lumen outputs only

[10] Available with -08AL output only, Dali 2 dimmable and Tunable White

[11] Includes 25° and 60° lens in the box

[12] Available with 350 and 750 lumen, 2700K and 3000K options only

[13] 90° Frosted Reflector


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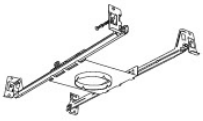
# Compatible Products

For use with Dedicated **2″ Koto Sylo™ Fixtures**

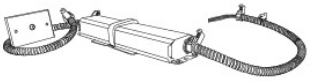
## 2″ Optional Mounting Plate



New Construction Frame

| CAT NO. | SPECIFICATIONS |
|---|---|
| E1LF1 | 2″ Cutout |

## 2″ Accessories



Emergency Battery Backup

| CAT NO. | SPECIFICATIONS |
|---|---|
| KEM-ERT | 25W MAX., 120/277V |

## Koto™ LED Module Accessories

**Lens**

| | |
|---|---|
| **EP731C** | 18° Lens |
| **EP732C** | 25° Lens |
| **EP733C** | 38° Lens |
| **EP734C** | 60° Lens |

**EP732C, EP733C, EP734C Included*

**Reflectors**

| | |
|---|---|
| **EP735C** | 15° |
| **EP736C** | 25° |
| **EP737C** | 38° |
| **EP738C** | 60° |

**Secondary Optics**

| | |
|---|---|
| **L45** | Hex Louver |
| **L46** | Linear Louver |
| **L47** | Spread Louver |
| **L49** | Frosted Lens |
| **L51** | Color Shifter |
| **L54** | Single Herculux Lens |
| **L55** | Double Herculux Lens |

**Snoot**

| | |
|---|---|
| **L50W** | White |
| **L50B** | Black |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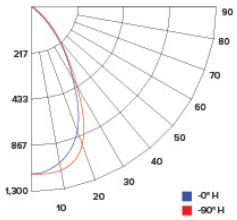
# Photometric Report

## 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

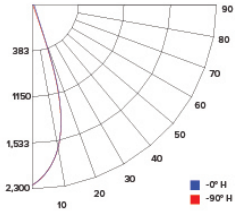
| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|---|---|---|
| 4′ | 74.1 | 3.2′ |
| 6′ | 32.9 | 4.8′ |
| 8′ | 18.5 | 6.4′ |
| 10′ | 11.9 | 8.0′ |

### 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

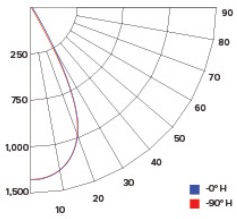
| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|---|---|---|
| 4′ | 141 | 2.6′ |
| 6′ | 62.5 | 3.9′ |
| 8′ | 35.1 | 5.2′ |
| 10′ | 22.5 | 6.5′ |

### 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

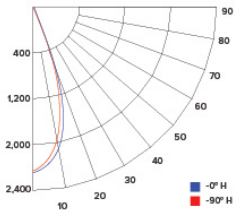
| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|---|---|---|
| 4′ | 90.9 | 3.1′ |
| 6′ | 40.4 | 4.7′ |
| 8′ | 22.7 | 6.3′ |
| 10′ | 14.5 | 7.8′ |

### 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 |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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 | 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% |
| | 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) HQRA-6CL(H2) | 10% - 95% |
| | Homeworks QS, Residential Application, Reverse Phase | LQSE-4A-120-D | 8% - 89% |
| | HomeWorks® for LED/Incandescent/Halogen loads, Reverse Phase, (Zone 1) (Zones 2-4) | LQSE-4A5-120-D | 8% - 89% |
| | HomeWorks® for LED/Incandescent/Halogen loads, Foward Phase, (Zone 1) (Zones 2-4) | LQSE-4A5-120-D | 10% - 100% |
| | Ariadni® C·L Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen | AYCL-153P | 10% - 100% |
| | Skylark Contour® C·L, Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen | CTCL-153P | 10% - 100% |
| | Skylark® C·L Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen | SCL-153P | 10% - 100% |

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

amazon alexa | Google Assistant | Apple HomeKit | INSTEON | LUTRON | wemo

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| 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% |
| *MLV each transformer must be loaded to at least 50% of its maximum load | Control4® Essential Forward Phase Dimmer, 120V AC, 60-Hz, 300W LED, 300W Fluorescent/CFL, 600W Incandescent/Halogen | C4-V-FPD120 | 1% - 100% |

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

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

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

amazon alexa | Google Assistant | Apple HomeKit | INSTEON | LUTRON | wemo

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