

Koto™ LED Module

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



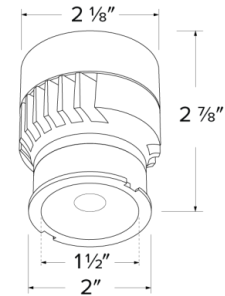
Features

- 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

| | |
|----------------------|--------------------------------|
| Wattage | 10.5W |
| Lumens | 1040 lm |
| Voltage | 120V |
| Color Temp. | 3500K |
| Dimmable | Triac/ELV |
| Lamp Type | LED |
| Beam Angle | 25° |
| CRI | 95 |
| Wet Location | cUL Listed w/Wet Location Trim |
| Damp Location | 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-on 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 |
|------------------|---------------------------|---|----------------------------|
| ELK | | | |
| | 07 750 lm (10.5W) | 24 2400K | 38° ⁵ |
| | 09 950 lm (10.5W) | 27 2700K | -S 18° |
| | 11 1150 lm (12.5W) | 30 3000K | -N 25° |
| | 13 1350 lm (12.5W) | 35 3500K | -W 60° |
| | | 40 4000K | -E 90° ⁶ |
| | | SD Sunset ^{1, 2} | |
| | | HC Human Centric ^{3, 4} | |

¹ Available with ELK09 and ELK11 lumen outputs only

² Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

³ Available with ELK11 lumen outputs only

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

⁵ 38° lens installed. Includes 25° and 60° lens with module.

⁶ 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)



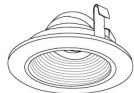
Round Regressed Eyeball
ELK3653
Finishes:
(W, BB, B)



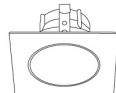
Round Curved Reflector
ELK3672
Finishes:
(W, B)



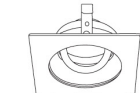
Round Directional Gimbal
ELK3679
Finishes:
(W, BB, B, H)



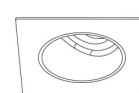
Round Adjustable Baffle
ELK3693
Finishes:
(W)



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

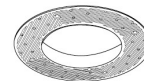
3" Pex™ Trimless



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



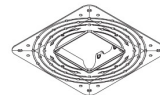
Round Knife Edge Wood Ceiling Trim w/Mounting Clips
EL3WCR
 Finishes:
 (W, B)



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) |



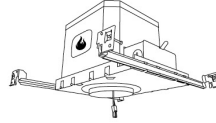
4" R-60 Spray Foam Insulation Housing
New Construction

| 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)



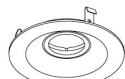
Adjustable Pinhole with Frosted Glass
ELK4125
Finishes:
(W, BB, BZ, B, H)



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)



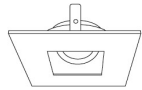
Adjustable Slot Rotatable Aperture

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

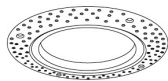
ELK4284
Finishes:
(W, B, BZ)



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)



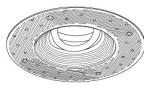
Round Trimless Spackle Frame

EL4SFR
For use with ELK408 & ELK415



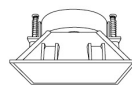
Smooth Reflector

ELK430
Finishes:
(W, B, BZ)



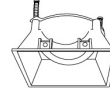
Baffle

ELK434
Finishes:
(W, B, BZ)



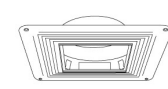
Square Trimless Reflector

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)



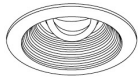
Round Wall Wash

ELK4715
 Finishes:
 (W, BZ)



Round Adj. Deep Reflector

ELK4717
 Finishes:
 (W, BZ)



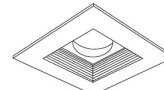
Round Adj. Deep Baffle

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



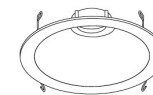
5" Round Reflector
ELK5421
Finishes:
(W)



5" Round Baffle
ELK5493
Finishes:
(W)



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



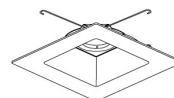
6" Round Adj. Reflector
ELK6429
Finishes:
(W, BB, BZ, H)



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



6" Round Reflector

ELK610

Finishes:

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



6" Round Adjustable Reflector

ELK629

Finishes:

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



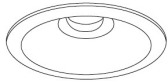
6" Round Adjustable Baffle

ELK693

Finishes:

(WW, BB, BZBZ, BW)

6" Unique™ Twist-On Trims



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



2" Koto Sylo Housing
Surface Mount

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



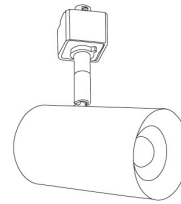
2" Koto Sylo Housing
Monopoint

| 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

| Degress 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

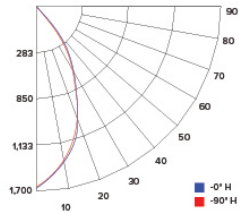
| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|--------------------------|-------------------------|---------------|
| 4' | 45.7 | 3.1' |
| 6' | 20.3 | 4.7' |
| 8' | 11.4 | 6.2' |
| 10' | 7.31 | 7.8' |

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

| Degress 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

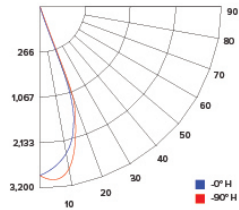
| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|--------------------------|-------------------------|---------------|
| 4' | 100 | 3.2' |
| 6' | 44.6 | 4.8' |
| 8' | 25.1 | 6.4' |
| 10' | 16.1 | 7.9' |

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

| Degress 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

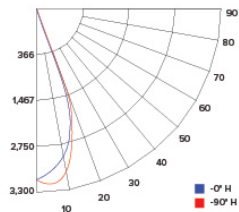
| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|--------------------------|-------------------------|---------------|
| 4' | 190 | 2.4' |
| 6' | 84.5 | 3.6' |
| 8' | 47.5 | 4.8' |
| 10' | 30.4 | 6.0' |

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

| Degress 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

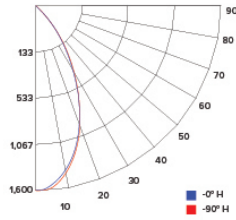
| Zone | Lumens | %Luminaire |
|-------|---------|------------|
| 0-30° | 1,037.8 | 85.9 |
| 0-40° | 1,107.3 | 91.6 |
| 0-60° | 1,170.3 | 96.9 |
| 0-90° | 1,208.1 | 100 |

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, Forward Phase, (Zone 1) (Zones 2-4) | QSN-4A5-S | 10% - 97% |
| | RadioRA®2, 120V, 50/60-Hz, 150W LED or 600W Incandescent/Halogen, 3-Way & 4-Way, Residential Application | RRD-6CL | 10% - 95% |
| | RadioRA®3, 120V, 250W LED/CFL or 500W Incandescent/Halogen, Single Pole, Multi-Location | RRST-PRO-N | 10% - 95% |
| | HomeWorks® QS, 120V, 60-Hz, 150W LED/CFL or 600W Incandescent/Halogen/MLV, Residential Application | HQRD-6CL(H2) 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, Forward Phase, (Zone 1) (Zones 2-4) | LQSE-4A5-120-D | 10% - 100% |
| | Ariadni® C-L Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen | AYCL-153P | 10% - 100% |
| | Skylark Contour® C-L, Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen | CTCL-153P | 10% - 100% |
| Skylark® C-L Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen | SCL-153P | 10% - 100% | |

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.



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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% |
| | 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.

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.



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