

# 24V DC Koto™ LED Module

Works with 4" Koto™ 24V DC Recessed Housings and Koto™ Trims



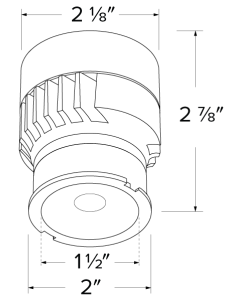
## Features

- 10W, 800 lm, 24V DC input
- Integrated 24V DC Dimmable Driver for low voltage and PoE applications
- Standard 38° Lens installed, 25° and 60° lens included with each module - Optional Lens: 18° (EP731C)
- 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)
- Works in 2", 3", 4", 5" & 6" ELCO Koto DC housings with Koto™ twist-&-lock trims
- Excellent color rendering 90+ CRI
- Title 24 JA8-2022 Compliant
- Meets Energy Star Requirements
- Covered by U.S. PATENTS and Patents Pending

## Specifications

<b>Wattage</b>	10W
<b>Lumens</b>	800 lm
<b>Voltage</b>	24V DC
<b>Color Temp.</b>	3000K
<b>Lamp Type</b>	LED
<b>Beam Angle</b>	25°, 38°, 60°
<b>CRI</b>	90

## Dimensions



## Technical Details

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

**Construction:** Integrated 24V DC driver. Diecast aluminum body with heat fins allows for efficient cooling.

**Installation:** Twist-lock design for toolless trim installation.

**Electrical:** Module connects to 24V DC power supply. High-efficiency driver with a power factor >0.9. Start time of less than 0.75 seconds. PoE ready.

**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.

**Dimmability:** Dimming based on power supply.

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

## Product Number

Item	Lamp type	Lumens	CCT	Watts	Voltage	Beam Angle
ELK0830-24	LED	800 lm	3000K	10W	24V DC	25°, 38°, 60°

# Product Number Builder

Example: **ELK0827-24**

24V DC Koto™ LED Module

Lumens

Color Temp.

Voltage

**ELK**

**08** 800 (10W)

**27** 2700K  
**30** 3000K

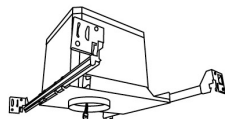
**-24** 24V DC

# Compatible Products



For use with 24V DC Koto™ LED Module

## 2" Koto™ Dedicated LED ICA Housings (24V DC Input)



24V DC 2" ICA Maximum Adjustability Housing  
New Construction

CAT NO.	SPECIFICATIONS
E24V276ICA	Maximum Adjustability

## 2" Pex™ Twist-On Trims



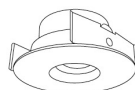
Round Deep Reflector

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



Round Adjustable Reflector

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



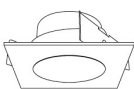
Round Adjustable Pinhole

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



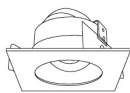
Round Curved Reflector

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



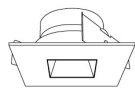
Square Deep Reflector

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



Square Adjustable Reflector

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



Square Reflector

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



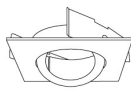
Square Adjustable Pinhole

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



Round Gimbal

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



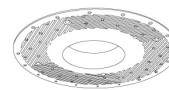
Square Gimbal

**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



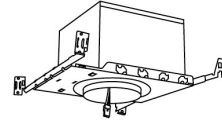
For use with 24V DC Koto™ LED Module

## 3" Koto™ Dedicated LED ICA Housings (24V DC Input)



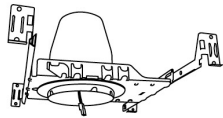
24V DC 2-Hour Fire Rated 3" ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
E24V39FICA	7 1/2" Height - Sound Rated



24V DC 3" ICA Maximum Adjustability Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
E24V386ICA	Maximum Adjustability



24V DC 3" ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
E24V390ICA	



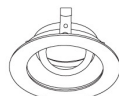
24V DC 3" ICA Housing  
**Remodel**

CAT NO.	SPECIFICATIONS
E24V390RICA	

## 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)



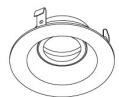
**Round Adjustable Pinhole**  
ELK3627  
Finishes:  
(B, BB, BZ, B, H)



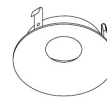
**Round Adj. Slot Aperture**  
ELK3620  
Finishes:  
(W)



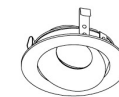
**Round Adj. Wall Wash**  
ELK3622  
Finishes:  
(W)



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



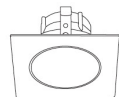
**Round Curved Reflector**  
ELK3672  
Finishes:  
(W, B)



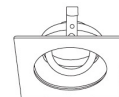
**Round Directional Gimbal**  
ELK3679  
Finishes:  
(W, BB, B, H)



**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 24V DC Koto™ LED Module

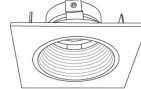
## 3" Pex™ Twist-On Trims



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

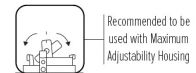


**Square Reflector**  
**ELK3341**  
 Finishes:  
 (W, BB, BZ, B)



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

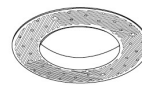
## 3" Pex™ Trimless



**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



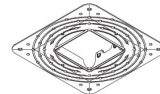
**Round Knife Edge Wood Ceiling Trim w/Mounting Clips**  
**EL3WCR**  
 Finishes:  
 (W, B)



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

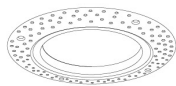


**Square Adjustable Trimless Reflector**  
**ELK381**  
 Finishes:  
 (W, B, H)

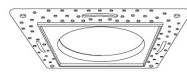


**Square Trimless Spackle Frame**  
**EL03SFS**  
 For use with ELK370 & ELK381

## 3" Flush Mount Trim Adaptors



**Round Flush Mount**  
**EL3FMR**



**Square Flush Mount**  
**EL3FMS**

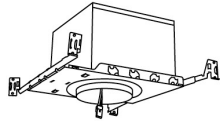
\*Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black Reflector w/White Ring, **C** - Chrome Reflector w/White Ring, **H** - Haze Reflector w/White Ring

# Compatible Products



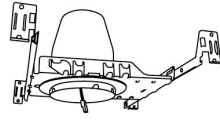
For use with 24V DC Koto™ LED Module

## 4" Koto™ Dedicated LED ICA Housings (24V DC Input)



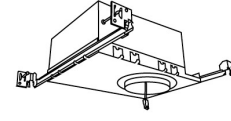
24V DC 4" ICA Maximum Adjustability Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
E24V485ICA	Maximum Adjustability



24V DC 4" ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
E24V490ICA	



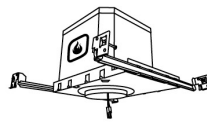
24V DC 4" R-60 Spray Foam Insulation  
**New Construction Housing**

CAT NO.	SPECIFICATIONS
E24V490AJICA	Maximum Adjustability, For use in R60 or Chicago plenum applications



24V DC 4" ICA Housing  
**Remodel**

CAT NO.	SPECIFICATIONS
E24V490RICA	



24V DC 2-Hour Fire Rated 4" ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
E24V48FICA	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)



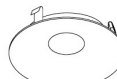
**Slot Aperture**  
**ELK4130**  
Finishes:  
(W)



**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)



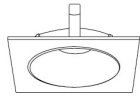
**Adjustable Baffle**  
**ELK4193**  
Finishes:  
(W, BB, B)

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

# Compatible Products

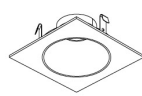
For use with 24V DC Koto™ LED Module

## 4" Pex™ Twist-On Trims



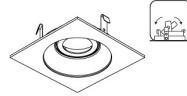
**Shallow Reflector**

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



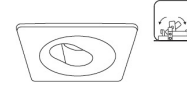
**Deep Reflector**

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



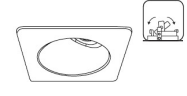
**Adjustable Gimbal**

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



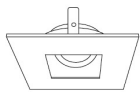
**Adjustable Slot Rotatable Aperture**

**ELK4220**  
Finishes:  
(W)



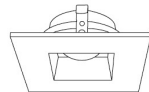
**Adjustable Wall Wash**

**ELK4222**  
Finishes:  
(W)



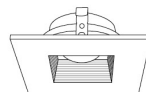
**Adjustable Pinhole**

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



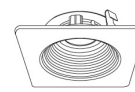
**Adjustable Reflector**

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



**Adjustable Baffle**

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

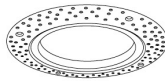


**Adj. Phenolic Baffle**

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

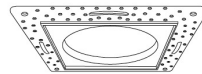
Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black w/White Ring, **C** - Chrome w/White Ring, **H** - Haze w/White Ring, **B\*** - All Black (For ELK4188, ELK4172, & ELK4284)

## 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



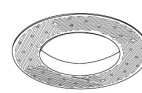
**Round Trimless Reflector**

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



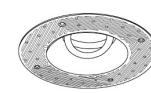
**Round Adj. Trimless Reflector**

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



**Round Trimless Spackle Frame**

**EL4SFR**  
For use with ELK408 & ELK415



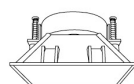
**Smooth Reflector**

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



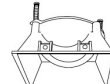
**Baffle**

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



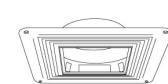
**Square Trimless Reflector**

**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



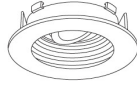
For use with 24V DC Koto™ LED Module

## 4" Flexa™ Twist-On Trims



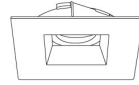
**Round Reflector**

**ELK4721**  
Finishes:  
(WW, BB, BZBZ,  
BW, CW, HW)



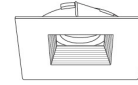
**Round Baffle**

**ELK4723**  
Finishes:  
(WW, BB, BZBZ, BW)



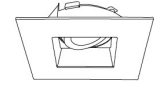
**Square Reflector**

**ELK4741**  
Finishes:  
(WW, BB, BZBZ,  
BW, HW)  
*\*Not for Remodel Housing*



**Square Baffle**

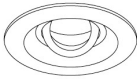
**ELK4743**  
Finishes:  
(WW, BB, BZBZ, BW)  
*\*Not for Remodel Housing*



**Square Adj. Reflector**

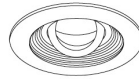
**ELK4759**  
Finishes:  
(WW, BB, B, H)  
*\*Not for Remodel Housing*

## 4" Unique™ Twist-On Trims



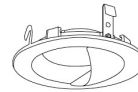
**Round Adjustable Reflector**

**ELK4710**  
Finishes:  
(W, B, BZ)



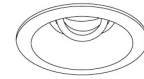
**Round Adjustable Baffle**

**ELK4713**  
Finishes:  
(W, BZ)



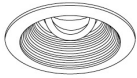
**Round Wall Wash**

**ELK4715**  
Finishes:  
(W, BZ)



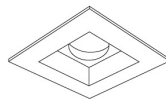
**Round Adj. Deep Reflector**

**ELK4717**  
Finishes:  
(W, BZ)



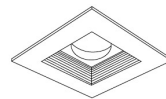
**Round Adj. Deep Baffle**

**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



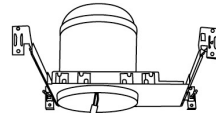
For use with 24V DC Koto™ LED Module

## 6" Koto™ Dedicated LED ICA Housings (24V DC Input)



24V DC 2-Hour Fire Rated 6" ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
E24V76FICA	7 3/4" Height



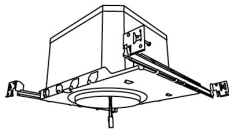
24V DC 6" Standard ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
E24V770ICA	7 1/2" Height
E24V770ICA-EM5	Battery Backup, 24W MAX.



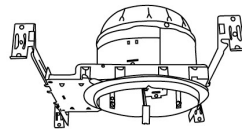
24V DC 6" Standard ICA Housing  
**Remodel**

CAT NO.	SPECIFICATIONS
E24V770RICA	7 1/2" Height



24V DC 2-Hour Shallow Fire Rated 6" ICA  
**New Construction Housing**

CAT NO.	SPECIFICATIONS
E24V75FICAS	6 3/16" Height



24V DC 6" Shallow ICA Housing  
**New Construction**

CAT NO.	SPECIFICATIONS
E24V760ICA	5 1/2" Height
E24V760ICA-EM5	Battery Backup, 24W MAX.



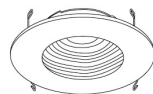
24V DC 6" Shallow ICA Housing  
**Remodel**

CAT NO.	SPECIFICATIONS
E24V760RICA	5 1/2" Height

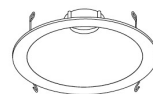
## 5" & 6" Pex™ Twist-On Trims



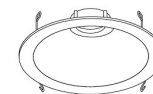
**5" Round Reflector**  
ELK5421  
Finishes:  
(W)



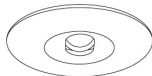
**5" Round Baffle**  
ELK5493  
Finishes:  
(W)



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



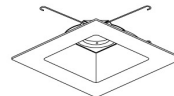
**6" Round Adj. Reflector**  
ELK6429  
Finishes:  
(W, BB, BZ, H)



**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)

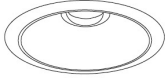
\*Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black Reflector w/White Ring, **C** - Chrome Reflector w/White Ring, **H** - Haze Reflector w/White Ring

# Compatible Products

For use with 24V DC 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

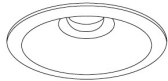
ELK693

Finishes:

(WW, BB, BZBZ, BW)

## 6" Unique™ Twist-On Trims

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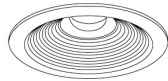


6" Round Reflector

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 24V DC Koto™ LED Module

## 24V DC Transformers



**Electronic Low Voltage  
Dimmable Driver**

CAT NO.	SPECIFICATIONS
DRVE24V60W	60W, 120V Input



**Constant Voltage  
LED Driver**

CAT NO.	SPECIFICATIONS
DRV60W	60W, 120/277V Input
DRV100W	100W, 120/277V Input



**0-10V  
Dimmable Driver**

CAT NO.	SPECIFICATIONS
DRV30W-10	30W, 120/277V Input
DRV60W-10	60W, 120/277V Input
DRV96W-10	96W, 120/277V Input



**Lutron™ Hi-Lume 1%  
LED Driver**

CAT NO.	SPECIFICATIONS
DRVLT40W	40W, Triac, 120/277V
DRVLT340W	40W, Lutron Ecosystem, 120/277V



**Lutron™ Hi-Lume Premiere 0.1%  
Dimming LED Driver**

CAT NO.	SPECIFICATIONS
DRVL396W	96W, Lutron Ecosystem, 120/277V Input



**Universal (Small)  
Dimming LED Driver**

CAT NO.	SPECIFICATIONS
DRVU24V24WD	24W, 24V DC (1A), Triac/ELV/MLV
DRVU24V60WD	60W, 24V DC (2.5A), Triac/ELV/MLV



**Universal (Medium)  
Dimming LED Driver**

CAT NO.	SPECIFICATIONS
DRVU24V100WD	100W, 24V DC (4A), Triac/ELV/MLV



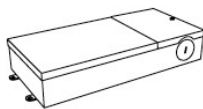
**Universal (Large)  
Dimming LED Driver**

CAT NO.	SPECIFICATIONS
DRVU24V200WD	200W, 24V DC (8A), Triac/ELV/MLV



**Universal (X-Large)  
Dimming LED Driver**

CAT NO.	SPECIFICATIONS
DRVU24V300WD	300W, 24V DC (12A), Triac/ELV/MLV



**Electronic (Large)  
Dimming LED Driver**

CAT NO.	SPECIFICATIONS
DRVE24V48DW	48W, 24V DC (2A), Triac
DRVE24V60DW	60W, 24V DC (2.5A), Triac
DRVE24V96DW	96W, 24V DC (4A), Triac



**Dimmer  
with Built-in Driver**

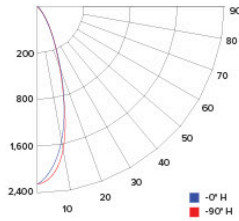
CAT NO.	SPECIFICATIONS
DIMTP2	60W, 120V
DIMTP3	100W, 120V

# Photometric Report

## 24V DC Koto™ LED Module

### PHOTOMETRIC REPORT

Product #: ELK0827-24 (36°)  
 Wattage / Lumens: 10W / 860.2 lm  
 Luminaire LPW: 86 lm/W



### CANDLE POWER SUMMARY

Degree Vertical	0°
0	2329
5	2082
15	1212
25	301
35	61
45	35
55	22
65	12
75	5
85	0
90	0

### ILLUMINANCE AT A DISTANCE

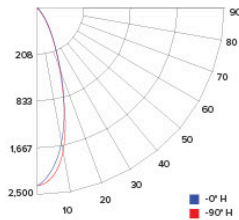
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	146	2.4'
6'	64.7	3.5'
8'	36.4	4.7'
10'	23.3	5.9'

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	754.8	87.3
0-40°	806.2	93.2
0-60°	850.3	98.3
0-90°	864.6	100

### PHOTOMETRIC REPORT

Product #: ELK0830-24 (36°)  
 Wattage / Lumens: 10W / 901.2 lm  
 Luminaire LPW: 90.1 lm/W



### CANDLE POWER SUMMARY

Degree Vertical	0°
0	2426
5	2169
15	1262
25	314
35	64
45	37
55	23
65	12
75	6
85	0
90	0

### ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	152	2.4'
6'	67.4	3.5'
8'	37.9	4.7'
10'	24.3	5.9'

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	786.2	87.3
0-40°	839.8	93.2
0-60°	885.7	98.3
0-90°	900.6	100