24V DC Koto™ LED Module

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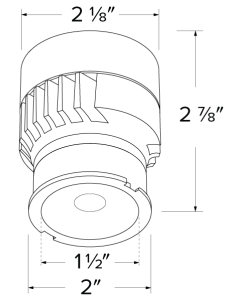
Features

- 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

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.

Specifications

Wattage	10W
Lumens	800 lm
Voltage	24V DC
Color Temp.	2700K
Lamp Type	LED
Beam Angle	25°, 38°, 60°
CRI	90

Dimensions

2 ⅛″

2 ⅞″

1½″

2″

Product Number

Item	Lamp type	Lumens	CCT	Watts	Voltage	Beam Angle
ELK0827-24	LED	800 lm	2700K	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)
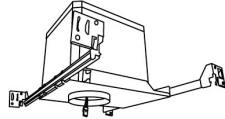
27 2700K
30 3000K

-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*)
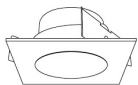
Square Deep Reflector
ELK2518
Finishes:
(W, B, BB)
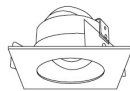
Square Adjustable Reflector
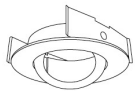ELK2529
Finishes:
(W, B, BB)
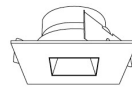
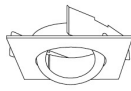**Square Reflector**
ELK2541
Finishes:
(W, B, BB)
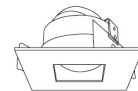
Square Adjustable Pinhole
ELK2527
Finishes:
(W, B, BB)

Round Gimbal
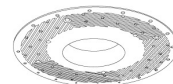ELK2888
Finishes:
(W, B*, BZ)

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)
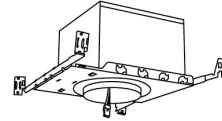
Compatible Products

For use with **24V DC Koto™ LED Module**
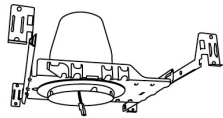
3″ Koto™ Dedicated LED ICA Housings (24V DC Input)

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

CAT NO.	SPECIFICATIONS
E24V39FICA	7 ½″ 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
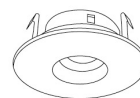
Recommended to be used with Maximum Adjustability Housing

Round Deep Reflector
ELK3618
Finishes:
(W, BB, BZ, B, C, H)
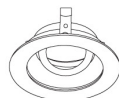
Round Adjustable Gimbal
ELK3629
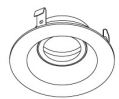Finishes:
(W, BB, BZ, B, C, H)

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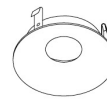ELK3627
Finishes:
(B, BB, BZ, B, H)

Round Adj. Slot Aperture
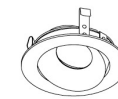ELK3620
Finishes:
(W)

Round Adj. Wall Wash
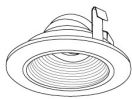ELK3622
Finishes:
(W)

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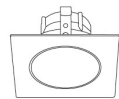ELK3653
Finishes:
(W, BB, B)

Round Curved Reflector
ELK3672
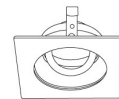Finishes:
(W, B)

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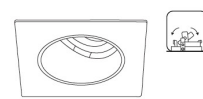Finishes:
(W, BB, B, H)

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
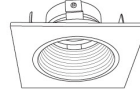
For use with **24V DC Koto™ LED Module**

3" Pex™ Twist-On Trims

Recommended to be used with Maximum Adjustability Housing

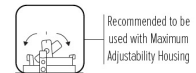**Square Adjustable Pinhole**
ELK3327
Finishes:
(W, BB, BZ, B, H)

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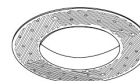(W, BB, BZ, B)

Square Adjustable Baffle
ELK3393
Finishes:
(W)

3" Pex™ Trimless

Recommended to be used with Maximum Adjustability Housing

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

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

Round Trimless Spackle Frame
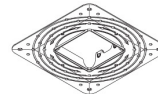EL3SFR
For use with ELK315

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

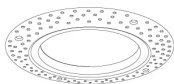**Square Trimless Reflector**
ELK370
Finishes:
(W, B, H)

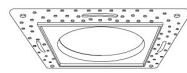**Square Adjustable Trimless Reflector**
ELK381
Finishes:
(W, B, H)

Square Trimless Spackle Frame
EL03SFS
For use with ELK370 & ELK381

3" Flush Mount Trim Adaptors

Round Flush Mount
EL3FMR
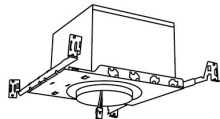
Square Flush Mount
EL3FMS

*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
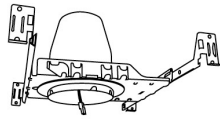
Compatible Products

For use with **24V DC Koto™ LED Module**
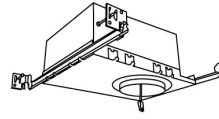
4″ Koto™ Dedicated LED ICA Housings (24V DC Input)

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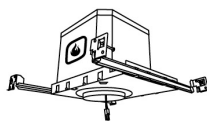
24V DC 2-Hour Fire Rated 4″ ICA Housing
New Construction

CAT NO.	SPECIFICATIONS
E24V48FICA	7 ½″ Height Sound Rated

4″ Pex™ Twist-On Trims

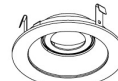Recommended to be used with Maximum Adjustability Housing

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
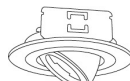ELK4122
Finishes:
(W)

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)

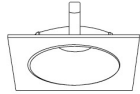**Directional Gimbal**
ELK4179
Finishes:
(W, BB, B, H)

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
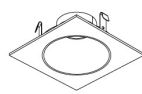
Compatible Products

For use with **24V DC Koto™ LED Module**

4” Pex™ Twist-On Trims

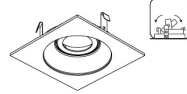Recommended to be used with Maximum Adjustability Housing

Shallow Reflector
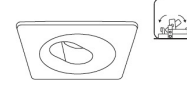
ELK4216
Finishes:
(W, H)

Deep Reflector

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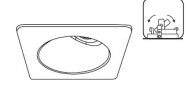Finishes:
(W, BB, BZ, B, C, H)

Adjustable Gimbal

ELK4229
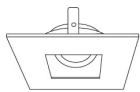Finishes:
(W, BB, BZ, B, C, H)
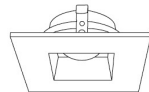
Adjustable Slot Rotatable Aperture
ELK4220
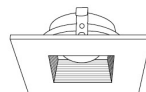Finishes:
(W)

Adjustable Wall Wash
ELK4222
Finishes:
(W)

Adjustable Pinhole

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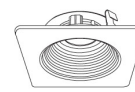(W, BB, BZ, B, C, H)

Adjustable Reflector

ELK4282
Finishes:
(W, BZ)

Adjustable Baffle
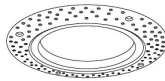
ELK4284
Finishes:
(W, B, BZ)

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
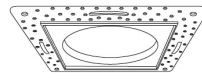
Square Flush Mount Trim Adaptor

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

4” Pex™ Trimless

Recommended to be used with Maximum Adjustability Housing

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)
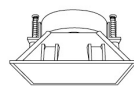
Square Trimless Reflector

ELK445
Finishes:
(W, B, H)
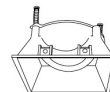
Square Trimless Adj. Reflector

ELK459
Finishes:
(W, B, H)

Square Trimless Spackle Frame

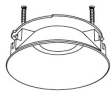EL4SFS
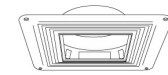For use with ELK445 & ELK459

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)
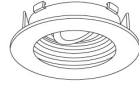
Compatible Products

For use with **24V DC Koto™ LED Module**

4" Flexa™ Twist-On Trims

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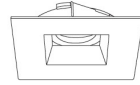
Round Reflector

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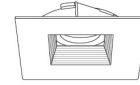(WW, BB, BZBZ,
BW, CW, HW)

Round Baffle

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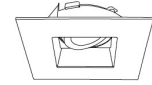
(WW, BB, BZBZ, BW)

Square Reflector

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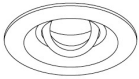BW, HW)
Not for Remodel Housing

Square Baffle

ELK4743
Finishes:

(WW, BB, BZBZ, BW)

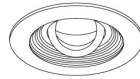*Not for Remodel Housing*

Square Adj. Reflector

ELK4759
Finishes:

(WW, BB, B, H)

Not for Remodel Housing

4" Unique™ Twist-On Trims

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Round Adjustable Reflector

ELK4710
Finishes:
(W, B, BZ)

Round Adjustable Baffle

ELK4713
Finishes:
(W, BZ)
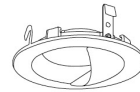
Round Wall Wash

ELK4715
Finishes:
(W, BZ)
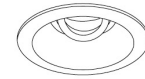
Round Adj. Deep Reflector

ELK4717
Finishes:
(W, BZ)
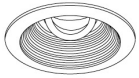
Round Adj. Deep Baffle

ELK4719
Finishes:

(W)
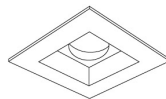
Square Reflector

ELK4714
Finishes:
(W, B, BZ)
Not for Remodel Housing
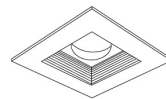
Square Baffle

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 ¾" Height
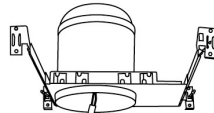
24V DC 6" Standard ICA Housing
New Construction

CAT NO.	SPECIFICATIONS
E24V770ICA	7 ½" Height
E24V770ICA-EM5	Battery Backup, 24W MAX.

24V DC 6" Standard ICA Housing
Remodel

CAT NO.	SPECIFICATIONS
E24V770RICA	7 ½" Height
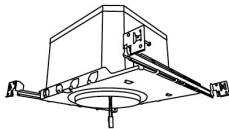
24V DC 2-Hour Shallow Fire Rated 6" ICA
New Construction Housing

CAT NO.	SPECIFICATIONS
E24V75FICAS	6 ³⁄₁₆" Height
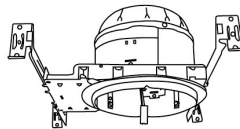
24V DC 6" Shallow ICA Housing
New Construction

CAT NO.	SPECIFICATIONS
E24V760ICA	5 ½" Height
E24V760ICA-EM5	Battery Backup, 24W MAX.

24V DC 6" Shallow ICA Housing
Remodel

CAT NO.	SPECIFICATIONS
E24V760RICA	5 ½" Height

5" & 6" Pex™ Twist-On Trims

5" Round Reflector
ELK5421
Finishes:
(W)
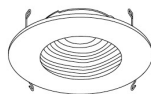
5" Round Baffle
ELK5493
Finishes:
(W)
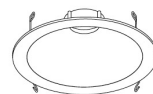
6" Round Reflector
ELK6418
Finishes:
(W, BB, BZ, H)
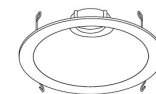
6" Round Adj. Reflector
ELK6429
Finishes:
(W, BB, BZ, H)
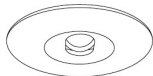
6" Round Adj. Slot Aperture
ELK6420W
Finishes:
(W)

6" Round Adj. Pinhole Reflector
ELK6427
Finishes:
(W, B, H)
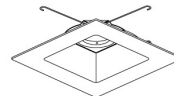
6" Square Adj. Reflector
ELK6829
Finishes:
(W, BB, H)

*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
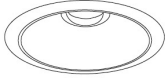
6" Round Reflector
ELK610
Finishes:
(WW, BB, BZBZ, CC, BW, CW, HW)

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
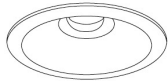
6" Round Reflector
ELK6710
Finishes:
(W, B, BZ)

6" Round Baffle
ELK6713
Finishes:
(W, BZ)

6" Round Wall Wash
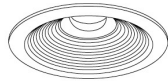ELK6715
Finishes:
(W, BZ)

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 **24V DC Koto™** LED Module

ELCO Lighting

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
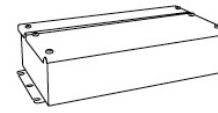
Universal (Small)
Dimming LED Driver

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
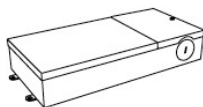
Electronic (Large)
Dimming LED Driver

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
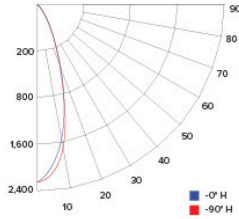Luminaire LPW: 86 lm/W

CANDLE POWER SUMMARY

Degress 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
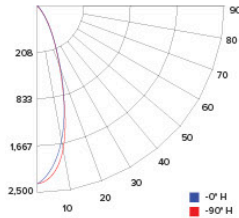
CANDLE POWER SUMMARY

Degress 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