

24V DC Koto™ LED Module

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



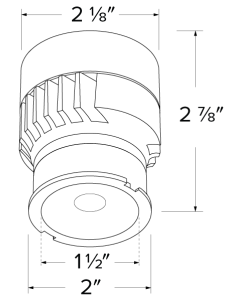
Features

- 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

Wattage	10W
Lumens	800 lm
Voltage	24V DC
Color Temp.	2700K - 3000K
Lamp Type	LED
Beam Angle	25°, 38°, 60°
CRI	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 Numbers

Item	Lamp type	Lumens	CCT	Watts	Voltage	Beam Angle
ELK0827-24	LED	800 lm	2700K	10W	24V DC	25°, 38°, 60°
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

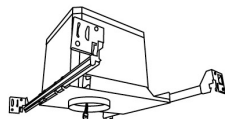
-24 24V DC

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



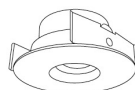
Round Deep Reflector

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



Round Adjustable Reflector

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



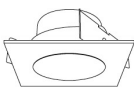
Round Adjustable Pinhole

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



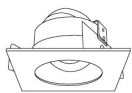
Round Curved Reflector

ELK2872
Finishes:
(W, B*)



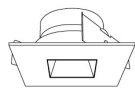
Square Deep Reflector

ELK2518
Finishes:
(W, B, BB)



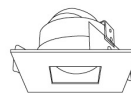
Square Adjustable Reflector

ELK2529
Finishes:
(W, B, BB)



Square Reflector

ELK2541
Finishes:
(W, B, BB)



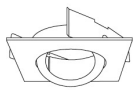
Square Adjustable Pinhole

ELK2527
Finishes:
(W, B, BB)



Round Gimbal

ELK2888
Finishes:
(W, B*, BZ)



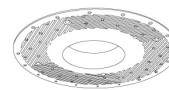
Square Gimbal

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



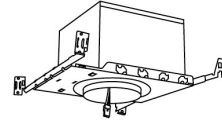
For use with 24V DC Koto™ LED Module

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



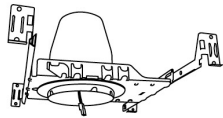
24V DC 2-Hour Fire Rated 3" ICA Housing
New Construction

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	



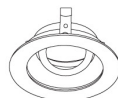
24V DC 3" ICA Housing
Remodel

CAT NO.	SPECIFICATIONS
E24V390RICA	

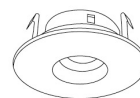
3" Pex™ Twist-On Trims



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



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



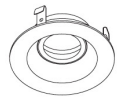
Round Adjustable Pinhole
ELK3627
Finishes:
(B, BB, BZ, B, H)



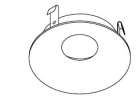
Round Adj. Slot Aperture
ELK3620
Finishes:
(W)



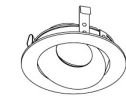
Round Adj. Wall Wash
ELK3622
Finishes:
(W)



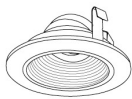
Round Regressed Eyeball
ELK3653
Finishes:
(W, BB, B)



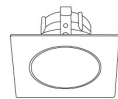
Round Curved Reflector
ELK3672
Finishes:
(W, B)



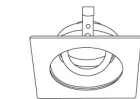
Round Directional Gimbal
ELK3679
Finishes:
(W, BB, B, H)



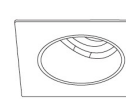
Round Adjustable Baffle
ELK3693
Finishes:
(W)



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

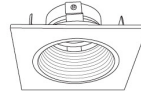
3" Pex™ Twist-On Trims



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

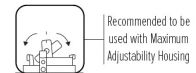


Square Reflector
ELK3341
 Finishes:
 (W, BB, BZ, B)



Square Adjustable Baffle
ELK3393
 Finishes:
 (W)

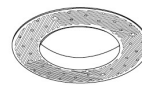
3" Pex™ Trimless



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



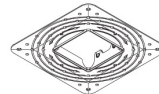
Round Knife Edge Wood Ceiling Trim w/Mounting Clips
EL3WCR
 Finishes:
 (W, B)



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

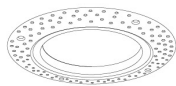


Square Adjustable Trimless Reflector
ELK381
 Finishes:
 (W, B, H)

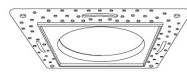


Square Trimless Spackle Frame
EL03SFS
 For use with ELK370 & ELK381

3" Flush Mount Trim Adaptors



Round Flush Mount
EL3FMR



Square Flush Mount
EL3FMS

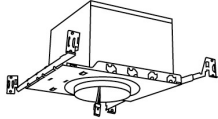
*Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black Reflector w/White Ring, **C** - Chrome Reflector w/White Ring, **H** - Haze Reflector w/White Ring

Compatible Products



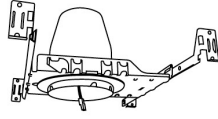
For use with 24V DC Koto™ LED Module

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



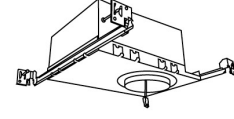
24V DC 4" ICA Maximum Adjustability Housing
New Construction

CAT NO.	SPECIFICATIONS
E24V485ICA	Maximum Adjustability



24V DC 4" ICA Housing
New Construction

CAT NO.	SPECIFICATIONS
E24V490ICA	



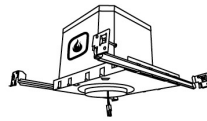
24V DC 4" R-60 Spray Foam Insulation
New Construction Housing

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)



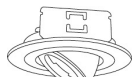
Adjustable Pinhole
ELK4127
Finishes:
(W, BB, BZ, B, H)



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



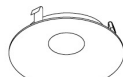
Slot Aperture
ELK4130
Finishes:
(W)



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)



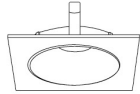
Adjustable Baffle
ELK4193
Finishes:
(W, BB, B)

*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

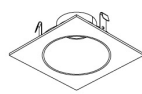
For use with 24V DC Koto™ LED Module

4" Pex™ Twist-On Trims



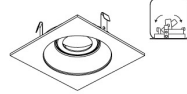
Shallow Reflector

ELK4216
Finishes:
(W, H)



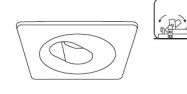
Deep Reflector

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



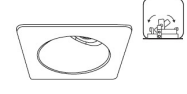
Adjustable Gimbal

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



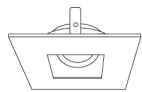
**Adjustable Slot
Rotatable Aperture**

ELK4220
Finishes:
(W)



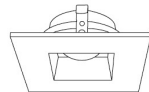
**Adjustable
Wall Wash**

ELK4222
Finishes:
(W)



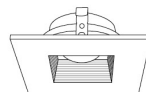
Adjustable Pinhole

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



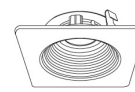
Adjustable Reflector

ELK4282
Finishes:
(W, BZ)



Adjustable Baffle

ELK4284
Finishes:
(W, B, BZ)

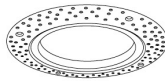


Adj. Phenolic Baffle

ELK4293
Finishes:
(W, BB, B)

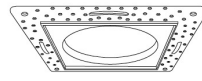
Finishes: **W** - All White, **BB** - All Black, **BZ** - All Bronze, **B** - Black w/White Ring, **C** - Chrome w/White Ring, **H** - Haze w/White Ring, **B*** - All Black (For ELK4188, ELK4172, & ELK4284)

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



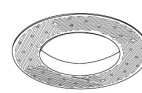
Round Trimless Reflector

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



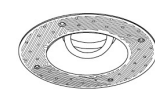
Round Adj. Trimless Reflector

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



Round Trimless Spackle Frame

EL4SFR
For use with ELK408 & ELK415



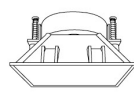
Smooth Reflector

ELK430
Finishes:
(W, B, BZ)



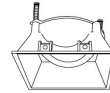
Baffle

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



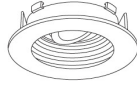
For use with 24V DC Koto™ LED Module

4" Flexa™ Twist-On Trims



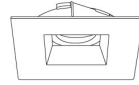
Round Reflector

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



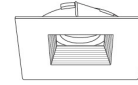
Round Baffle

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



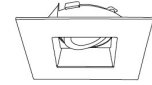
Square Reflector

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



Square Baffle

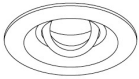
ELK4743
Finishes:
(WW, BB, BZBZ, BW)
**Not for Remodel Housing*



Square Adj. Reflector

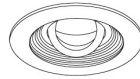
ELK4759
Finishes:
(WW, BB, B, H)
**Not for Remodel Housing*

4" Unique™ Twist-On Trims



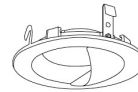
Round Adjustable Reflector

ELK4710
Finishes:
(W, B, BZ)



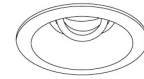
Round Adjustable Baffle

ELK4713
Finishes:
(W, BZ)



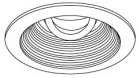
Round Wall Wash

ELK4715
Finishes:
(W, BZ)



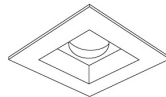
Round Adj. Deep Reflector

ELK4717
Finishes:
(W, BZ)



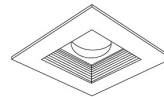
Round Adj. Deep Baffle

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



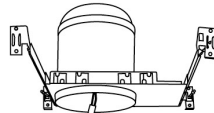
For use with 24V DC Koto™ LED Module

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



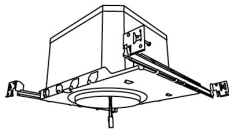
24V DC 6" Standard ICA Housing
New Construction

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



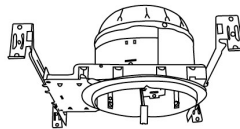
24V DC 6" Standard ICA Housing
Remodel

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.



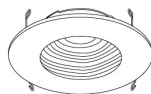
24V DC 6" Shallow ICA Housing
Remodel

CAT NO.	SPECIFICATIONS
E24V760RICA	5 1/2" Height

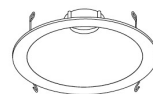
5" & 6" Pex™ Twist-On Trims



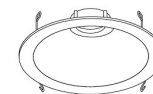
5" Round Reflector
ELK5421
Finishes:
(W)



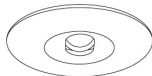
5" Round Baffle
ELK5493
Finishes:
(W)



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



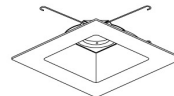
6" Round Adj. Reflector
ELK6429
Finishes:
(W, BB, BZ, H)



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



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



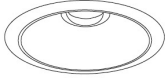
6" Square Adj. Reflector
ELK6829
Finishes:
(W, BB, H)

*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



6" Round Reflector

ELK610

Finishes:

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



6" Round Adjustable Reflector

ELK629

Finishes:

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



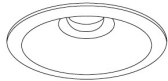
6" Round Adjustable Baffle

ELK693

Finishes:

(WW, BB, BZBZ, BW)

6" Unique™ Twist-On Trims

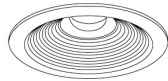


6" Round Reflector

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

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



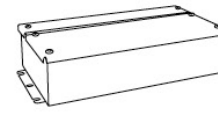
**Lutron™ Hi-Lume 1%
LED Driver**

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



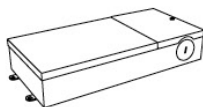
**Universal (Large)
Dimming LED Driver**

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**

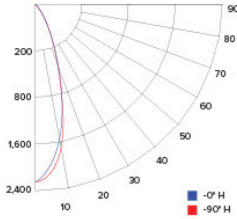
CAT NO.	SPECIFICATIONS
DIMTP2	60W, 120V
DIMTP3	100W, 120V

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

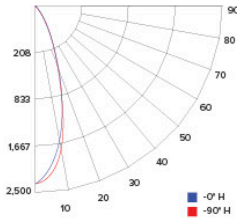
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	146	2.4'
6'	64.7	3.5'
8'	36.4	4.7'
10'	23.3	5.9'

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