

Project name:	
Fixture type:	
Date:	

## 4" LED Floating Adjustable Eyeball Insert with 5-CCT Switch

The innovative 4° Floating Eyeball LED Insert offers 360° rotation and a 90° tilt range for added versatility. Energy-efficient LED technology that produces even illumination with an incredible 90+ CRI. Designed to be used for New Construction, Remodel, and Retrofit applications, these inserts are rated for a life of 50,000 hours, and meet the Title 24 and Energy Star requirements. Suitable for IC and Non-IC housings manufactured by ELCO or others.



#### **Features**

- Fits ELCO 4" Dedicated LED Recessed Housings
- Die-Cast construction provides lasting durability
- 360° rotation and a 90° tilt range for added versatility
- ETL listed for damp location
- Title 24 IA8-2019 Compliant
- Life Span of 50,000 hours L70.

#### **Specifications**

Wattage	9W	
Lumens	700 lm	
Voltage	120V	
Color Temp.	2700K, 3000K, 3500K, 4000K, 5000K	
Dimmable	Triac/ELV	
Lamp Type	LED	
CRI	90+	
Damp Location Listed		

#### **Technical Details**

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

**Construction**: For use in IC and Non-IC housings. Diecast construction for lasting quality and greater heat dissipation. High quality powder coat finish preventing rust and paint cracking.

**Installation:** Quick connect for use with ELCO housings EL490ICA, EL490RICA, EL492ICA, EL492RICA, EL48FICA. Can be used in IC and Non-IC housings. PSA30 medium base adapter for retrofitting existing housings.

**Electrical:** Driver connects to 120V power supply. High Efficiency driver with a power factor > 0.9. Start time of less than .75 seconds.

#### **LED Technology:**

- Extremely accurate color rendering with 93+ CRI.
- Lumen Maintaince of 50,000 hours L70 Life based on LM80 standardized test results.
- Superior Thermal Management by utilizing integral heat sink.
- Instant On to Full Brightness. No LED pixellation.

**Dimmability**: Works with 120V Triac and ELV type dimmers . Dims down to 10%. For full list of dimmers refer to the Dimmer Compatibility List.

Listings: cUL Listed for Damp Location. RoHS Compliant. Title 24 JA8-2023 Compliant

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

#### **Options**



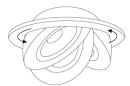


All White

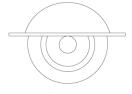
All Black

#### **Dimensions**





360° Eyeball Rotation



90° Tilt Range

#### **Product Numbers**

Item	Lamp type	Lumens	сст	Watts	Voltage	Dimming	Finish
EL456CT5W	LED	700 lm	2700K, 3000K, 3500K, 4000K, 5000K	9W	120V	Triac/ELV	All White
EL456CT5B	LED	700 lm	2700K, 3000K, 3500K, 4000K, 5000K	9W	120V	Triac/ELV	All Black

# **Compatible** Products



For use with 4" LED inserts

## **4"** Dedicated LED ICA Housings



4" ICA Housing **New Construction** 



4" ICA Housing Remodel

**SPECIFICATIONS** 

51/2" Height

CAT NO.

EL490RICA



2-Hour Fire Rated ICA Housing **New Construction** 

CAT NO.	SPECIFICATIONS
EL48FICA	6 %" Height - 120/277V

CAT NO.	SPECIFICATIONS	
EL490ICA		
EL490ICA-7	277V	
EL490ICA-EM5	Emergency Battery Back-up (90 minutes)	

## 4" Accessories



**Emergency Battery Backup** 



Fire Cover

**SPECIFICATIONS** 

9 ¾" H x 17" O.D.



CAT NO.	SPECIFICATIONS
FIREENCL	20 3/8" L x 14 3/8" W
FIREENCL-S	Shallow 16" L v 14 36" W

Fire Enclosure

CAT NO.

KEM-LD5



**SPECIFICATIONS** 

25W MAX, 120/277V

CAT NO.	SPECIFICATIONS
FIRETAPE	3/4" W × 16' L



Socket Adapter

CAT NO.	SPECIFICATIONS
PSA30	Medium Base Connector



Socket Adapter

CAT NO	SPECIFICATIONS	
PSA31	GU10 to ideal terminal connector	

CAT NO.

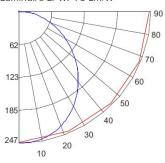
**FIRECVR** 

## LED Adjustable Gimbal Insert

Multiplier: 3000K (x 1.04)

#### PHOTOMETRIC REPORT

Product #: EL41627W Wattage/Lumens: 8.52W/ 642 lm Luminaire LPW: 75 Lm/W



#### **CANDLE POWER SUMMARY**

Degrees Vertical	0°
0	245
5	244
15	234
25	215
35	186
45	152
55	116
65	79
75	44
85	11
90	1

#### **ILLUMINANCE AT A DISTANCE**

Distance to Target Plane	Footcandles Beam Center	Beam Diameter	
4'	15.3	10.1'	
6'	6.80	15.1'	
8'	3.83	20.2'	
10'	2.45	25.2'	

#### **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
0-30°	185.62	28.90
0-40°	299.00	46.60
0-60°	510.80	79.60
0-90°	640.68	99.80

# Photometric Report

### 4" LED Adjustable Gimbal Insert

#### PHOTOMETRIC REPORT **CANDLE POWER SUMMARY** Degress Vertical Product #: EL416CT5 @3000K 0° Wattage / Lumens: 7.9W / 675.4 lm Luminaire LPW: 85.49 lm/W

ILLUMINANCE AT A DISTANCE				
Distance to Target Plane	Center Beam Footcandles	Beam Diameter		
4'	16.0	10.1′		
6′	7.12	15.1′		
8′	4.01	20.1′		
10′	2.56	25.2'		

# ZONAL LUMEN SUMMARY Zone Lumens %Luminaire 0-30° 194.5 28.8 0-40° 313.2 46.4 0-60° 534.8 79.2 0-90° 672.2 99.5



# Dimmer Compatibility Chart 4" LED Inserts

For EL416, EL441, EL442, EL446, EL447, and 497 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
Lutron	Skylark Contour, 120V AC, 60Hz, 600W Incandescent/Halogen, Single Pole, 3-Way Indoor Application, Residential/Commercial Application	CT-603PG / CT-600PR	10% - 100%
	Diva, 120V AC, 60Hz, 600W Incandescent/Halogen, Single Pole, 3-Way, Residential/Commercial Application	DV-600PR / DV603PG	10% - 100%
	Diva, 120V, 60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way	DVW-603PGH / DVCL-153P	10% - 100%
	Maestro, 120V, 50/60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way	MACL-153M / TGCL-153P	10% - 100%
	Skylark, Single Pole 600W Incandescent/Halogen, Slide-to-Off Dimmer	S-600PR / S-2-LH	10% - 100%
Leviton		1A1505 / IC1605	10% - 100%
	SureSlide, 120V AC 60Hz, 600W for LED and CFL, 600W for Incandescent, Single Pole, 3-Way, Polycarbonated Housing	6631 / 6633	10% - 100%
Cooper	Decorator Dimmer, 120V 60Hz, 300W for LED and CFL, 600W for Incandescent, Single Pole, 3-Way, Polycarbonated Housing	DLC03P	10% - 100%

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

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

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







INSTEON

