

# 4" LED Adjustable Gimbal Insert

ELCO Lighting's inserts are engineered with energy-efficient LED technology that produces even illumination with an incredible 93+ 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.
- Medium base to quick connect adapter included (PSA30)
- 25° Tilt, 358° rotation.
- Energy Star Certified
- Title 24 JA8-2019 Compliant
- Life Span of 50,000 hours L70.

## Specifications

|                      |                                   |
|----------------------|-----------------------------------|
| <b>Wattage</b>       | 12WW                              |
| <b>Lumens</b>        | 1000 lm                           |
| <b>Voltage</b>       | 120V                              |
| <b>Color Temp.</b>   | 2700K, 3000K, 3500K, 4000K, 5000K |
| <b>Dimmable</b>      | Triac/ELV                         |
| <b>Lamp Type</b>     | LED                               |
| <b>Beam Angle</b>    | 60°                               |
| <b>CRI</b>           | 90+                               |
| <b>Power Factor</b>  | >0.9                              |
| <b>Damp Location</b> | Listed                            |

## Options



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

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

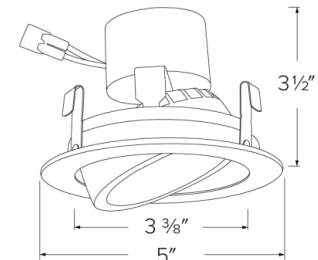
### LED Technology:

- Extremely accurate color rendering with 93+ CRI.
- Lumen Maintenance 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. Energy Star Certified. Title 24 JA8-2019 Compliant

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



## Product Number

| Item        | Lamp type | Lumens  | CCT                               | Watts | Voltage | Dimming   | Beam Angle | Finish    |
|-------------|-----------|---------|-----------------------------------|-------|---------|-----------|------------|-----------|
| EL416HLCT5W | LED       | 1000 lm | 2700K, 3000K, 3500K, 4000K, 5000K | 12W   | 120V    | Triac/ELV | 60°        | All White |

# Product Number Builder

Example: **EL416CT5W**

ELCO 4" Round Gimbal Insert

Lumens

Color Temp.

Finish

**EL416**

700 lm  
**HL** 1000 lm (White Only)

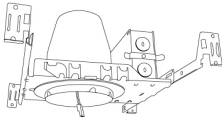
**CT5** 2700K - 5000K

**W** All White  
**B** All Black  
**BZ** All Bronze

# Compatible Products

For use with 4" LED inserts

## 4" Dedicated LED ICA Housings



4" ICA Housing  
New Construction



4" ICA Housing  
Remodel



2-Hour Fire Rated ICA Housing  
New Construction

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

| CAT NO.   | SPECIFICATIONS |
|-----------|----------------|
| EL490RICA | 5 1/2" Height  |

| CAT NO.  | SPECIFICATIONS           |
|----------|--------------------------|
| EL48FICA | 6 7/8" Height - 120/277V |

## 4" Accessories



Emergency Battery Backup



Fire Cover

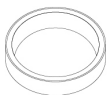


Fire Enclosure

| CAT NO. | SPECIFICATIONS    |
|---------|-------------------|
| KEM-LD5 | 25W MAX, 120/277V |

| CAT NO. | SPECIFICATIONS      |
|---------|---------------------|
| FIRECVR | 9 3/4" H x 17" O.D. |

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



Mica Fire Tape



Socket Adapter



Socket Adapter

| CAT NO.  | SPECIFICATIONS |
|----------|----------------|
| FIRETAPE | 3/4" W x 16' L |

| CAT NO. | SPECIFICATIONS        |
|---------|-----------------------|
| PSA30   | Medium Base Connector |

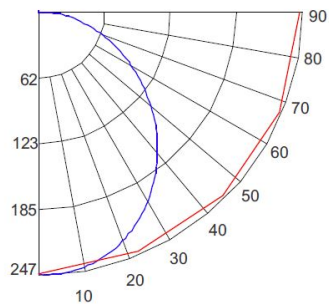
| CAT NO. | SPECIFICATIONS                   |
|---------|----------------------------------|
| PSA31   | GU10 to ideal terminal connector |

# 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

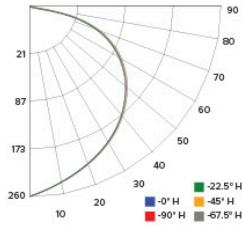
| Zone  | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-30° | 185.62 | 28.90       |
| 0-40° | 299.00 | 46.60       |
| 0-60° | 510.80 | 79.60       |
| 0-90° | 640.68 | 99.80       |

# Photometric Report

## 4" LED Adjustable Gimbal Insert

### PHOTOMETRIC REPORT

Product #: EL416CT5 @3000K  
 Wattage / Lumens: 7.9W / 675.4 lm  
 Luminaire LPW: 85.49 lm/W



### CANDLE POWER SUMMARY

| Degree Vertical | 0°  |
|-----------------|-----|
| 0               | 256 |
| 5               | 254 |
| 15              | 242 |
| 25              | 219 |
| 35              | 187 |
| 45              | 152 |
| 55              | 114 |
| 65              | 77  |
| 75              | 43  |
| 85              | 12  |
| 90              | 1   |

### 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       |



**ELCO Lighting**

# 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 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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