ELCO Lighting

Project name:

Fixture type:

Date:

# 4" Round LED Adjustable Pull-Down 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

- Functions as downlight, wall wash or accent light.
- Great for lighting up artwork and spotlighting.
- Fits ELCO 4″ Dedicated LED Recessed Housings.
- Medium base to quick connect adapter included (PSA30)
- Die-Cast construction provides lasting durability.
- Interchangeable lenses available for multiple beam angles 38° installed, 20° (EP710C) and 60° (EP712C) Field Changeable optics sold separately.
- Provides maximum adjustability of 65° tilt, 356° rotation.
- Energy Star Certified
- Title 24 JA8-2019 Compliant
- Life Span of 50,000 hours L70.

## Specifications

| | |
|---|---|
| **Wattage** | 12.6W |
| **Lumens** | 800 lm |
| **Voltage** | 120V |
| **Color Temp.** | 2700K |
| **Dimmable** | Triac/ELV |
| **Lamp Type** | LED |
| **Beam Angle** | 36° |
| **CRI** | 93+ |
| **Damp Location** | Listed |

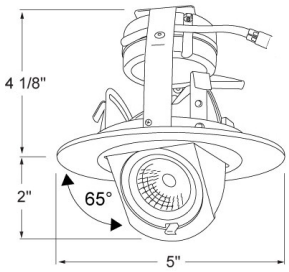
## Options

**White**

**Black**

**Bronze**

## Dimensions




## 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, EL49FICA. PSA30 (Medium Base Socket adapter) allows for use with EL99ICA, EL99RICA, EL99FICA, EL99A, EL99RA. PSA31 (GU10 Socket Adapter, not included) allows for use with EL49ICA, EL49A, EL49RA. PSA35 (GU24 Socket Adapter, not included) allows for use with EL99ICA-G24, EL99RICA-G24. 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. Ambient operating temperature -40°F (-40°C) to 104°F (40°C). Input wattage of 14W. 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 pixelation.

**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**:

## Product Number

| Item | Lamp type | Lumens | CCT | Watts | Voltage | Dimming | Beam Angle | Finish |
|---|---|---|---|---|---|---|---|---|
| **EL49727W** | LED | 800 lm | 2700K | 12.6W | 120V | Triac/ELV | 36° | All White |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- cULus Listed for US and Canada
- 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 Builder Example: **EL49727B**

| ELCO 4" Pull-Down LED Insert | Color Temp. | Finish |
|---|---|---|
| **EL497** | | |
| | **27** 2700K | **W** All White |
| | **30** 3000K | **B** All Black |
| | | **BZ** All Bronze |


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# Compatible Products

For use with **4" LED inserts**

## 4" Dedicated LED ICA Housings

4" ICA Housing
New Construction

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

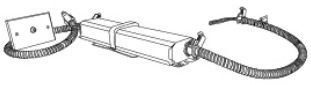
4" ICA Housing
Remodel

| CAT NO. | SPECIFICATIONS |
|---|---|
| EL490RICA | 5 ½" Height |

2-Hour Fire Rated ICA Housing
New Construction

| CAT NO. | SPECIFICATIONS |
|---|---|
| EL48FICA | 6 ⅞" Height - 120/277V |

## 4" Accessories

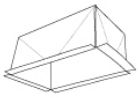


Emergency Battery Backup

| CAT NO. | SPECIFICATIONS |
|---|---|
| KEM-LD5 | 8W, 120/277V |

Fire Cover

| CAT NO. | SPECIFICATIONS |
|---|---|
| FIRECVR | 9 ¾" H x 17" O.D. |

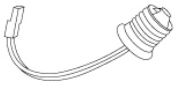


Fire Enclosure

| CAT NO. | SPECIFICATIONS |
|---|---|
| FIREENCL | 20 ⅜" L x 14 ⅜" W |
| FIREENCL-S | Shallow, 16" L x 14 ⅜" W |

Mica Fire Tape

| CAT NO. | SPECIFICATIONS |
|---|---|
| FIRETAPE | ¾" W x 16' L |



Socket Adapter

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

Socket Adapter

| CAT NO. | SPECIFICATIONS |
|---|---|
| PSA31 | GU10 to ideal terminal connector |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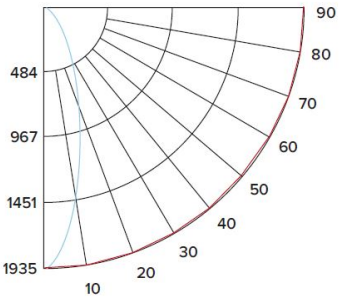
# LED Reflector Insert

Multiplier: 2700K (x 0.96)

## PHOTOMETRIC REPORT

Product #: EL49730 (36 Degrees)
Wattage/Lumens: 13W/ 889 Lm
Luminaire LPW: 68 Lm/W




## CANDLE POWER SUMMARY

| Degrees Vertical | 0° |
|---|---|
| 0 | 1935 |
| 5 | 1818 |
| 15 | 1219 |
| 25 | 503 |
| 35 | 145 |
| 45 | 45 |
| 55 | 15 |
| 65 | 7 |
| 75 | 3 |
| 85 | 2 |
| 90 | 1 |

## ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Footcandles Beam Center | Beam Diameter |
|---|---|---|
| 4’ | 121 | 2.6’ |
| 6’ | 53.7 | 3.9’ |
| 8’ | 30.2 | 5.2’ |
| 10’ | 19.3 | 6.5’ |

## ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30° | 729.06 | 82.00 |
| 0-40° | 824.66 | 92.70 |
| 0-60° | 876.04 | 98.50 |
| 0-90° | 889.16 | 100.00 |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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 refrence that with our Dimming Compatibility Chart. Once the switches are integrated with your Smart Home system your lights will be ready to go.

amazon alexa | Google Assistant | Apple HomeKit | INSTEON | LUTRON | wemo

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