

# 4" 0-10V LED Inserts

The Ply System 0-10V dimmable LED Inserts are engineered with energy-efficient LED technology and with a 120/277V 0-10V dimmable driver for a budget friendly 0-10V solution. Designed to be used for New Construction, Remodel with ELCO Ply System Housings or as a retrofit with existing housings.



## Features

- 0-10V Dimmable
- 120/277V Drive
- Lumens (Wattage): 800 lm (12W), 850 lm (12W), 900 lm (12W)
- Soft white lens provides smooth lumen distribution and eliminates LED pixelation
- Deep set LED trim reduces glare while providing even illumination
- 93+ CRI for extremely accurate color rendering
- ETL listed
- Energy Star Certified
- Title 24 JA8-2019 Compliant
- Life span of 50,000 hours L70

## Specifications

|                     |                 |
|---------------------|-----------------|
| <b>Wattage</b>      | 12W             |
| <b>Lumens</b>       | 800 lm - 900 lm |
| <b>Voltage</b>      | 120/277V        |
| <b>Color Temp.</b>  | 3000K - 4000K   |
| <b>Dimmable</b>     | 0-10V           |
| <b>CRI</b>          | 93+             |
| <b>Wet Location</b> | Listed          |

## Options



All White



Chrome with White Ring

## 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. Spun Aluminum for greater heat dissipation. High quality powder coat finish preventing rust and paint cracking.

**Installation:** Quick connect for use with ELCO 4" 0-10V Dedicated LED Housings ELJ444ICDXA, ELJ444ICDXA-B, ELJ444ICDXA-EM5, EL49FICDXA, EL49FICDXA-B, EL490ICDXA, EL490ICDXA-B, EL490ICDXA-EM5, EL490RICDXA, EL492ICDXA, EL492ICDXA-B and EL492RICDXA.

**Electrical:** Driver connects to 120/277V power supply. High Efficiency driver with a power factor > 0.9. Start time of less than .75 seconds.

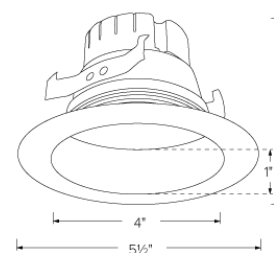
**LED Technology:** Extremely accurate color rendering with 93+ CRI. Lumen Maintenance of 50,000 hours L70 Life based on LM80 standardized test results. Superior Thermal Management by utilizing integral heat sink. Instant On to Full Brightness. No LED pixelation.

**Dimmability:** Works with 0-10V dimmers . Dims down to 10%. For full list of dimmers refer to the Dimmer Compatibility List. Industry leading dimming. Dims smoothly with no hot spots or flickering.

**Listings:** cUL Listed for Wet Location. RoHS Compliant. ENERGY STAR® Certified. Title 24 JA8-2019 Compliant.

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

## Dimensions



## Product Numbers

| Item              | Lumens | CCT   | Watts | Voltage  | Dimming | Finish                 |
|-------------------|--------|-------|-------|----------|---------|------------------------|
| <b>EL49530DW</b>  | 800 lm | 3000K | 12W   | 120/277V | 0-10V   | All White              |
| <b>EL49530DCW</b> | 800 lm | 3000K | 12W   | 120/277V | 0-10V   | Chrome with White Trim |
| <b>EL49540DCW</b> | 900 lm | 4000K | 12W   | 120/277V | 0-10V   | Chrome with White Trim |

Product Number Builder

Example: EL49530DW

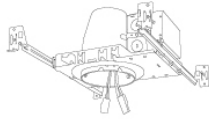
| ELCO 4" LED Inserts | Color Temp.                                                                                           | Finish |
|---------------------|-------------------------------------------------------------------------------------------------------|--------|
| <div>EL495</div>    | <div></div> <div><div>30</div>3000K</div> <div><div>35</div>3500K</div> <div><div>40</div>4000K</div> |        |

# Compatible Products

For use with **4" 0-10V LED Inserts**

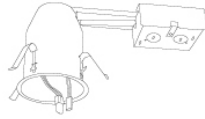


## 4" 0-10V Dedicated LED Housings



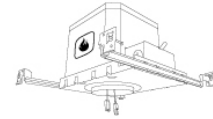
4" 0-10V Dedicated LED Housing  
**New Construction**

| CAT NO.        | SPECIFICATIONS    |
|----------------|-------------------|
| EL490ICDXA     | 14W, 120/277V     |
| EL490ICDXA-EM5 | Emergency Back-Up |



4" 0-10V Dedicated LED Housing  
**Remodel**

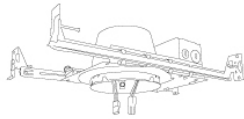
| CAT NO.     | SPECIFICATIONS |
|-------------|----------------|
| EL490RICDXA | 14W, 120/277V  |



2-Hour Fire Rated  
4" 0-10V Dedicated LED Housing  
**New Construction**

| CAT NO.    | SPECIFICATIONS                |
|------------|-------------------------------|
| EL49FICDXA | 7 3/4" Height - 14W, 120/277V |

## 4" 0-10V Shallow Dedicated LED Housings



4" 0-10V Dedicated LED Housing  
**Shallow New Construction**

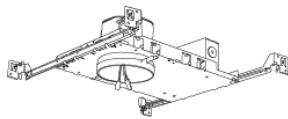
| CAT NO.    | SPECIFICATIONS |
|------------|----------------|
| EL492ICDXA | 14W, 120/277V  |



4" 0-10V Dedicated LED Housing  
**Shallow Remodel**

| CAT NO.     | SPECIFICATIONS |
|-------------|----------------|
| EL492RICDXA | 14W, 120/277V  |

## 4" 0-10V ALO™ Box on New Construction Frame



4" 0-10V ALO™ Box on  
**New Construction Frame**

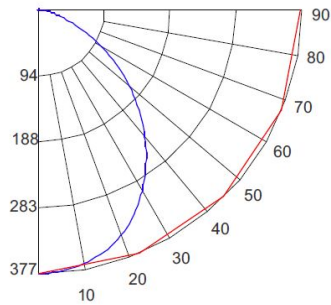
| CAT NO.        | SPECIFICATIONS    |
|----------------|-------------------|
| ELJ444ICDXA    | 120/277V          |
| ELJ444ICDXA-EM | Emergency Back-Up |

# 4" 0-10V LED Insert

Multiplier: 3500K (x 1.04), 4000K (x 1.08)

## PHOTOMETRIC REPORT

Product #: EL49530D  
Wattage/Lumens: 12W/ 832 lm  
Luminaire LPW: 69 Lm/W



## CANDLE POWER SUMMARY

| Degrees Vertical | 0°  |
|------------------|-----|
| 0                | 377 |
| 5                | 375 |
| 15               | 359 |
| 25               | 323 |
| 35               | 268 |
| 45               | 202 |
| 55               | 133 |
| 65               | 68  |
| 75               | 22  |
| 85               | 3   |
| 90               | 0   |

## ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Footcandles Beam Center | Beam Diameter |
|--------------------------|-------------------------|---------------|
| 4'                       | 23.5                    | 8.7'          |
| 6'                       | 10.5                    | 13.0'         |
| 8'                       | 5.88                    | 17.3'         |
| 10'                      | 3.77                    | 21.7'         |

## ZONAL LUMEN SUMMARY

| Zone  | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-30° | 285.63 | 34.30       |
| 0-40° | 453.59 | 54.50       |
| 0-60° | 730.73 | 87.80       |
| 0-90° | 831.45 | 99.90       |



**ELCO Lighting**

# Dimmer Compatibility Chart

## 4" LED Inserts

For EL141 Series, EL410SD, EL415SD, EL41230, EL417 Series, EL495 Series, EL415CT5, EL427CT5, EL460CT5, EL475CT5, and ELJ42230

### 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       | Diva, 120V, 60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way                                    | DVCL-153P   | 10% - 100%                |
|              | Diva, 120V, 60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way                                    | DVCL-153PR  | 10% - 100%                |
|              | Diva® 250W Single Pole/3-Way Dimmer                                                                              | DVCL-253P   | 10% - 100%                |
|              | Maestro, 120V AC, 50/60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way, Indoor Application       | MA-PRO      | 10% - 100%                |
|              | Maestro, 120V, 50/60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way                              | MACL-153MLH | 10% - 100%                |
|              | Maestro, 120V, 50/60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way                              | MACL-153M   | 10% - 100%                |
|              | Maestro Wireless, 120V, 50/60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way, Indoor Application | MRF2S-6CL   | 10% - 100%                |
|              | Caseta, 120V AC, 60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, Multi-Location, Indoor Application  | P-PKG1W     | 10% - 100%                |
|              | Caseta Wireless, 120V AC, 50/60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way                   | PD-6WCL     | 10% - 100%                |
|              | Radora, 120V AC, 50/60Hz, 600W Incandescent/Halogen, Single Pole, Indoor Application                             | RRD-6ND     | 10% - 100%                |
|              | Radora 2, 120V, 50/60Hz, 250W LED/CFL, 500W Incandescent/Halogen, Single Pole/Multi-Location, Indoor Application | RRD-PRO     | 10% - 100%                |
|              | Skylark® C-L Single Pole/3-Way, 150W LED/CFL or 600W Incandescent/Halogen                                        | SCL-153P    | 10% - 100%                |
|              | Sunnata, 120V AC, 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way, Indoor Application        | STCL-153PH  | 10% - 100%                |
| Leviton      | SureSlide Decora, 120V AC, 60Hz, 150W LED/CFL, 600W Incandescent, Single Pole, 3-Way                             | 6674        | 10% - 100%                |
|              | Decora, 120V AC, 60Hz, 300W LED/CFL, 600W Incandescent, Single Pole, 3-Way                                       | DSL06       | 10% - 100%                |
|              | Decora, 120V AC, 60Hz, 300W LED/CFL, 600W Incandescent, Single Pole, 3-Way                                       | DW6HD       | 10% - 100%                |
|              | Universal Rotary, 120V AC, 60Hz, 300W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way                     | RNL06       | 10% - 100%                |
| Legrand      | 120V AC, 60Hz, 450/700W Incandescent, LED/CFL, Single Pole, 3-Way                                                | RHCL-453P   | 10% - 100%                |
| Kasa         | 120VAC, 60Hz, 150W LED, 300W Incandescent, Single Pole, Indoor Application                                       | HS220       | 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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