ELCO Lighting

Project name:

Fixture type:

Date:

4" Square LED Reflector 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, Regular and Shallow.
- Includes Medium Base Adapter for retrofitting existing E26 Base housings.
- 3-Color Temperature Switch Available.
- Soft white lens provides smooth lumen distribution and eliminates LED pixelation.
- Deep set LED trim reduces glare while providing area illumination.
- Die-Cast construction provides lasting durability.
- Energy Star Certified.
- Title 24 JA8-2019 Compliant.
- Life Span of 50,000 hours L70.

Specifications

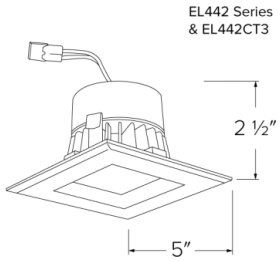
Wattage	11W
Lumens	750 lm - 850 lm
Voltage	120V
Color Temp.	2700K, 3000K, 3500K - 2700K, 3000K, 3500K, 4000K, 5000K
Dimmable	Triac/ELV
Lamp Type	LED
Beam Angle	90°
CRI	93+
Wet Location	Listed

Options

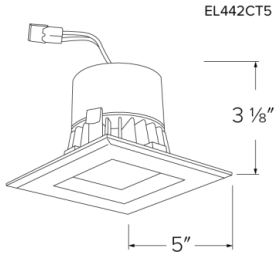


White **Bronze** **Black**

EL442 & EL442CT3 Dimensions



EL442CT5



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, 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:

© ELCO Lighting 2024. All rights reserved • Rev. 19 Mar 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.

- 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.

Product Numbers

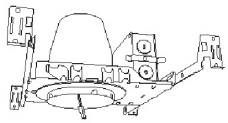
Item	Lamp type	Lumens	CCT	Watts	Voltage	Dimming	Beam Angle	Finish
EL442CT3BB	LED	750 lm	2700K, 3000K, 3500K	11W	120V	Triac/ELV	90°	All Black
EL442CT3BZ	LED	790 lm	2700K, 3000K, 3500K	11W	120V	Triac/ELV	90°	All Bronze
EL442CT5W	LED	850 lm	2700K, 3000K, 3500K, 4000K, 5000K	11W	120V	Triac/ELV	90°	All White
EL442CT5BB	LED	850 lm	2700K, 3000K, 3500K, 4000K, 5000K	11W	120V	Triac/ELV	90°	All Black
EL442CT5BZ	LED	850 lm	2700K, 3000K, 3500K, 4000K, 5000K	11W	120V	Triac/ELV	90°	All Bronze

© ELCO Lighting 2024. All rights reserved • Rev. 19 Mar 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.

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

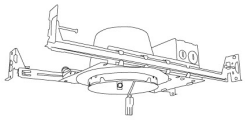
CAT NO.	SPECIFICATIONS
EL490RICA	5 ½" Height



4" ICA 2-Hour Fire Rated Housing
New Construction

CAT NO.	SPECIFICATIONS
EL48FICA	7 ½" Height - Sound Rated

4" Shallow Dedicated LED IC Housings



4" LED Shallow Housing
New Construction

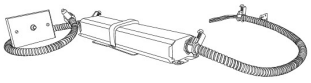
CAT NO.	SPECIFICATIONS
EL492ICA	14W MAX. 3 ½" Height
EL492ICA-7	277V



4" LED Shallow Housing
Remodel

CAT NO.	SPECIFICATIONS
EL492RICA	14W MAX. 3 ½" Height

4" Accessories



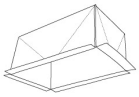
Emergency Battery Backup

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



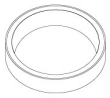
Fire Cover

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



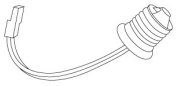
Fire Enclosure

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



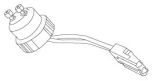
Mica Fire Tape

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

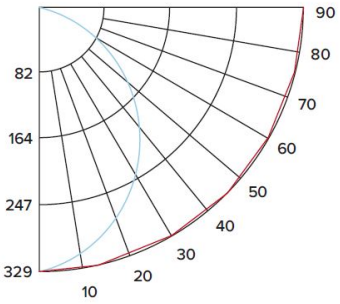
© ELCO Lighting 2024. All rights reserved • Rev. 19 Mar 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.

LED Reflector Insert

Multiplier: 3000K (x 1.04)

PHOTOMETRIC REPORT

Product #: EL44227
Wattage/Lumens: 10.52W/ 725Lm
Luminaire LPW: 69 Lm/W



CANDLE POWER SUMMARY

Degrees Vertical	0°
0	329
5	327
15	309
25	275
35	228
45	173
55	115
65	62
75	20
85	2.35
90	0.18

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Footcandles Beam Center	Beam Diameter
4'	20.6	8.4'
6'	9.14	12.6'
8'	5.14	16.9'
10'	3.29	21.1'

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30°	245.07	33.80
0-40°	388.59	53.60
0-60°	630.53	87.00
0-90°	723.39	99.80

© ELCO Lighting 2024. All rights reserved • Rev. 19 Mar 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.

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

2042 E. Vernon Ave. Vernon CA 90058 Tel 323.231.2600 Fax 323.231.3200 elcolighting.com

© ELCO Lighting 2024. All rights reserved • Rev. 19 Mar 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.