ELCO Lighting

Project Name:
Fixture Type:
Date:

4" SQUARE LAUREL™ DOWNLIGHTING SYSTEM

8.8W-36.8W, 2700K-5000K, or Sunset, Up to 4000 lm, 120V or 120/277V



THE LAUREL™ SYSTEM

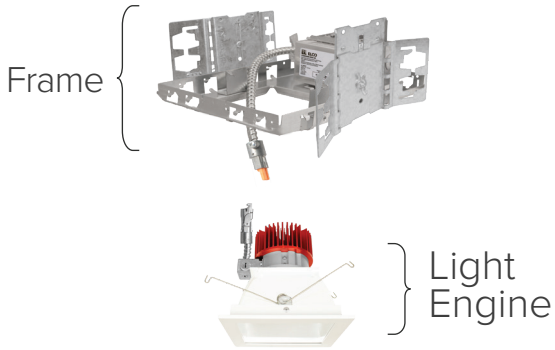
A full line of high quality commercial grade LED lighting with different size apertures, lumen outputs, and color temperatures. A great solution for hospitality, retail, and commercial projects

FEATURES

- Design allows for quiet, glare-free ceiling
- Spun extra deep aluminum single piece reflectors
- 55° Cutoff
- Optional 90 minutes, 120/277 VAC, 60Hz Emergency Backup.
- USA designed and assembled.
- 2 at the end of the item number denotes Generation 2. Please note Gen 2 and Gen 1 are not cross compatible.
- Driver on frame/retrofit kit.
- Excellent color rendering 93+ CRI.
- IC rated for direct contact with insulation for 850 lm and 1250 lm packages

SET UP

1. Select a New Construction, Remodel, or Retrofit.
2. Select a Laurel LED Light Engine.



SPECIFICATIONS

Wattage	8.8W - 36.8W MAX.
Lumens	850 lm - 4000 lm
Voltage	120/277V
Color Temp.	2700K, 3000K, 3500K, 4000K, 5000K, Sunset
CRI	93+
Wet Location	Listed
Dimming	Dims down to 1% with Triac/ELV/0-10V Dimmers
Beam Angle	15°, 24°, 38°, 60°
Finishes	White Haze/White

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PRODUCT NUMBER BUILDER

STEP 1. Specify Housing part number (Select one) Example: E4SQLHU08S

4" SQUARE IC AIRTIGHT RECESSED HOUSINGS

ITEM	SQUARE FRAME	VOLTAGE	LUMEN	DIMMING	OPTIONAL
E4SQL					
E4SQL	**H** Architechtural **F** Plaster	**U** 120/227V	**08** 850 lm **12** 1250 lm **16** 1600 lm **20** 2000 lm **30** 3000 lm **40** 4000 lm	**D2** Triac/ELV/0-10V **S** Sunset **L2** Lutron	**EM1** [1] 8W Emer. Backup **EM2** [2] 12W Emer. Backup
					1. Up to 700 lm output 2. Up to 1100 lm output

STEP 2. Specify Laurel LED Light Engine part number (Select one) Example: E410L2030W2

4" SQUARE LED LIGHT ENGINES

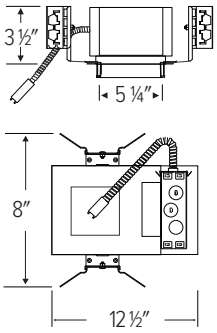
ITEM	STYLE	LUMENS	COLOR TEMP.	FINISH	GENERATION	BEAM ANGLE
E4						
E4	**40L** Reflector **42L** Wall Wash	**08** 850 lm **12** 1250 lm **16** 1600 lm **20** 2000 lm **30** 3000 lm **40** 4000 lm	**27** [1] 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K **SD** [1, 2, 3] Sunset	**W** All White **H** Haze with White Trim	**2** [4] Gen 2 Gen 1	60° (Standard) **-F** [1] 36° **-N** [1] 25° **-S** [1] 10°
			[1] Available for lumen packages up to 3000 lm only [2] Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed [3] Available with Gen 1 only		[4] Not available for Sunset option	[1] Available for lumen packages up to 3000 lm only

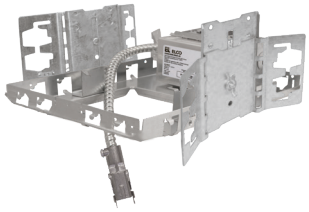
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PRODUCT DIMENSIONS

SQUARE LAUREL™ FRAMES WITH DRIVER

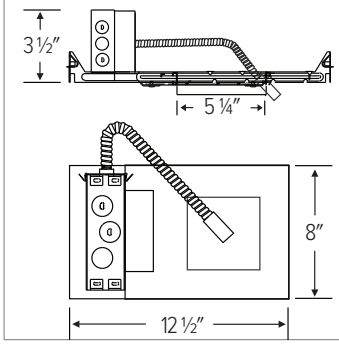
E4SQLHU
ARCHITECTURAL FRAME WITH DRIVER

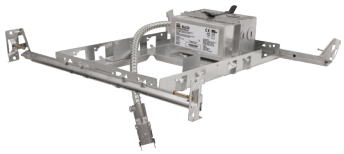




Hanger bars sold separately

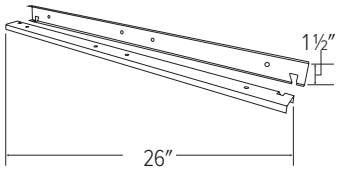
E4SQLFU
NEW CONSTRUCTION PLASTER FRAME WITH DRIVER





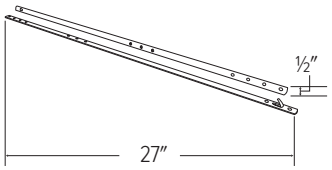
LAUREL ACCESSORIES

CH26
C-CHANNEL BARS FOR COMMERCIAL HOUSINGS, T-BAR CEILING



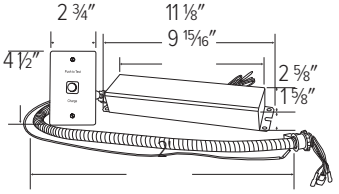


FB27
FLAT BARS FOR COMMERCIAL FRAMES - WOOD CONSTRUCTION



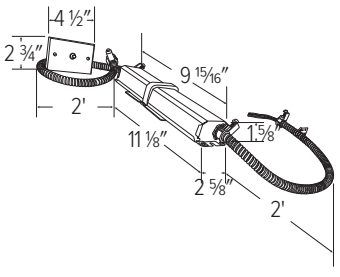


KEM-LD1, KEM-LD2
EMERGENCY BATTERY BACKUP
CALIFORNIA TITLE 20 COMPLIANT





KEM-LD3, KEM-LD4
EMERGENCY BATTERY BACKUP



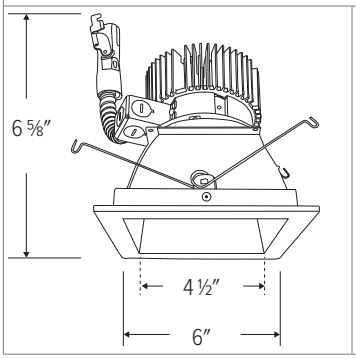


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PRODUCT DIMENSIONS

SQUARE LAUREL™ LED LIGHT ENGINES

E440L
SQUARE REFLECTOR LED LIGHT ENGINE TRIMS



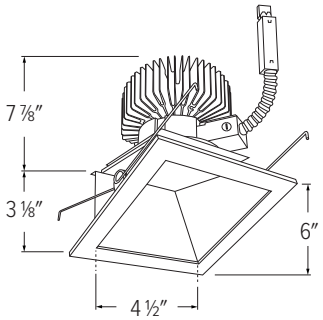


W (All White)



H (Haze with White Trim)

E442L
LED LIGHT ENGINE WITH SQUARE WALL WASH REFLECTOR





W (All White)



H (Haze with White Trim)

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TECHNICAL DETAILS

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

Reflector Construction: Reflector is one piece, deep, self-flanged construction spun from .05” thick High Grade Aluminum. Reflector allows for minimal glare and a strong glare cut-off.

Construction (Housing and Frame): Constructed from 16 gauge galvanized steel for large architectural and commercial building applications.

Installation (Light Engine): Must be installed on a Laurel System frame with compatible lumen rating. Frames are available for New Construction, Remodel, and as a Retrofit Kit.

Installation (Housing and Frame): Designed for architectural buildings. Easily installed with hanger bars (ordered separately for specific application type). Light engine installed into frame. High-strength hanger bars can easily be nailed to joists. Suitable for T-grid and drop ceiling applications. Remodel clips hold housing sturdily into place. See installation sheet for detailed information.

Junction Box: Positioned to accommodate straight conduit runs. Seven 1/2” trade size conduit knockouts and four pry-out knockout slots for easy Romex installation.

Hanger Bars: Hanger bars ordered separately as FB27: Set of two 27” hanger bars for wood construction. CH26: Set of two 26” C-Channel hanger bars for T-Bar Ceiling. Pre-installed hanger bars with True Nail for easy installation in regular lumber, engineered lumber, and laminated beams. Integral T-bar slots for easy installation in T-Bars. Spans up to 24" and can be repositioned 90°. Score lines allow for tool-free hanger bar size reduction. Integral leveling flange allows for single-person installation while easily aligning the housings with the joists.

Electrical: Driver is rated for 120V and 277V input (120/277V). High-efficiency driver with a power factor > 0.9. Can be specified with Lutron drivers for specific applications.

Dimmability: Depending on driver used, it can dim to 1% with 3-in-1 driver: Triac, ELV, and 0-10V. 0-10V dimming down to 5% with compatible dimmer. Flicker-Free Dimming. Can be specified with Lutron drivers for 0.1% and 1% dimming. For a full list of dimmers, refer to the Dimmer Compatibility List.

LED Technology: Extremely accurate Color Rendering Index of 93+ CRI. Efficacy of >90 lumens per watt. Lumen Maintenance of 50,000 hours L70 Life based on LM80 standardized test results. Superior Thermal Management by utilizing ELCO Red heat sink. Instant On to Full Brightness technology. No LED pixilation.

Sunset: Sunset color temperature is our dim-to-warm LED technology that allows the color temperature to become warmer as the product is dimmed. Our SUNSET items start at 3000K and go as low as 1800K when dimmed. For Sunset dim technology, be sure to order an item with "Sunset" in the Color Temperature (CCT) attribute.

Listings (Housing and Frame): cULus Listed for Damp Location. cULus Listed for Wet Location with select trims. cULus Listed for Direct Contact with Insulation and Combustible Material for units up to 1600 lm. cULus Listed for Feed Through.

Listings (Light Engine): cULus Listed for Wet Location. RoHS Compliant.

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

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DIMMER COMPATIBILITY CHART

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. The listed values were measured under ideal conditions in a test lab. Results in the field may differ.

MANUFACTURER	PRODUCT	PART NUMBER	DIMMED LIGHT OUTPUT RANGE
Triac/ELV Type Dimmers - 120V Only			
Lutron	120V AC, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	RRD-6CL	1% - 100%
	120V AC 60Hz, 150W LED/CFL/Incandescent/Halogen, Single Pole, 3-Way,	DVCL-153P	1% - 100%
	120V 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	TGCL-153P	1% - 100%
	120V AC 60Hz, 300W Electronic Low Voltage, 3-Way, Commercial/Residential Application	DVELV-303P	1% - 100%
	120V, 600W Incandescent/Halogen, Single Pole, Residential Indoor Application	TG-600P	1% - 100%
	120V, 1000W Incandescent or 600W Magnetic Low Voltage, Single Pole, 3-Way	CT103P	1% - 100%
	120V AC 60Hz, 600W Electronic Low Voltage, Single Pole/Multi-Location	MAELV600	1% - 100%
	120V AC 60Hz, 500W Electronic Low Voltage, Single Pole/Multi-Location	FAELV500	1% - 100%
	120V AC 60Hz, 600W Incandescent/Halogen, Single Pole, Slide-to-Off Dimmer	S-600P	1% - 100%
	120V AC 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	SCL-153P	1% - 100%
	Caséta® Wireless Dimmer	PD-6WCL	1% - 100%
	120V AC 60Hz, Low Voltage Load Type, 150W Single Pole	DVLV-600P	5% - 100%
	120V AC, 60Hz, 600W Incandescent/Halogen, Single Pole, 3-Way, Residential and Commercial Application	DV-603P	1% - 100%
	120V AC, 50/60Hz, 150W LED/CFL, 600W Incandescent/Halogen, Single Pole, 3-Way, Indoor Application	MA-PRO	1% - 100%
	120V AC 60Hz, 150W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way,	MACL-153M	1% - 100%
Leviton	120V AC 60Hz, 300W Electronic Low Voltage, 400 Volt Amp, Single Pole, 3-Way	IPE04	1% - 100%
	120V AC 60Hz, 300W CFL or 600W Incandescent, 400 Volt Amp, Single Pole, 3-Way	6673-10W	1% - 100%
	120V AC, 600W Incandescent with LED Locator, Single Pole, 3-Way	VP106	1% - 100%
	120V AC 60Hz, 500W Incandescent with LED Level Indicator, Single Pole, 3-Way	6161	1% - 100%
	120V AC, 150W LED/CFL or 600W Incandescent, Single Pole, 3-Way	6674	1% - 100%
Eaton	120V AC, 300W LED/CFL or 600W Incandescent/MLV/Halogen, Single Pole, 3-Way	TAL06P1-C1	1% - 100%
Cooper	120V AC 60Hz, 300W LED/CFL or 600W Incandescent/Halogen, Single Pole, 3-Way	SLC03P / DAL06P	1% - 100%
	120V AC 60Hz, 300W LED/CFL or 600W Incandescent, Single Pole, 3-Way	DLC03P	1% - 100%
	120V AC 60Hz, 600W Incandescent/Halogen, Single Pole, 3-Way,	RI061-VW-K2	1% - 100%
	120V AC 60Hz, 300W LED/CFL/ Incandescent/Halogen, Single Pole, 3-Way	AAL06A-C2	1% - 100%
Lightolier	120V, 260W Incandescent/Halogen, Single Pole, 3-Way	ZP260QEW	1% - 100%
0-10V Type Dimmers - 120/277V			
Lutron	120/277V AC, 0-10V LED/CFL Ballast, Single Pole, 3-Way	NFTV	1% - 100%
	120/277V AC, 0-10V, Single Pole, 3-Way, Commercial and Residential, Indoor Application	DVSTV	1% - 100%
	120/277V AC 50/60Hz, 0-10V LED/CFL Ballast, Single Pole, 3-Way, Indoor Application	DVTV	1% - 100%
Leviton	120/277V AC 60Hz, 0-10V LED/CFL Ballast, Single Pole, 3-Way	IP710-DL	1% - 100%

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

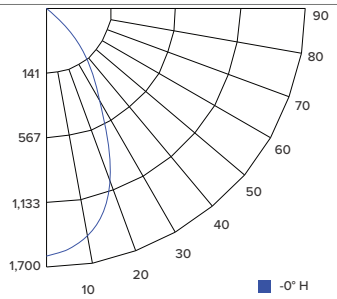
Disclaimer: Minimum and maximum loads for LEDs and CFLs are given in number of lamps and may vary depending on the lamp being used. Testing conducted by ELCO Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer 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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4" LAUREL™ ARCHITECTURAL REFLECTOR LED LIGHT ENGINE

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: E410L1235 Wattage / Lumens: 12.8W / 1166.6 lm Luminaire LPW: 91.1 lm/W	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
	0	1617	4′	101	4.0′
	5	1591	6′	44.9	6.0′
	15	1294	8′	25.3	8.0′
	25	885	10′	16.2	10.0′
	35	324	ZONAL LUMEN SUMMARY		
	45	56			
	55	1	Zone	Lumens	%Luminaire
	65	1			
	75	0	0-30°	902.2	77.3
	85	0	0-40°	1,113.4	95.4
	90	0	0-60°	1,165.4	99.9
			0-90°	1,166.6	100

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