ELCO Lighting

Project name:

Fixture type:

Date:

4" LED Light Engine with Baffle Trim

The perfect lighting solution for high-end residential and light commercial projects.

Features

- High efficacy LED module.
- Triac/ELV/0-10V dimming.
- Must be used with ELCO 4" Cedar™ System Housings.
- Frosted acrylic module lens for even lumen distribution.
- Life span of 50,000 hours L70.
- USA designed and assembled.
- Limited 5 year warranty.
- 2 at the end of the item number denotes Generation 2. Please note Gen 2 and Gen 1 are not cross compatible.

Specifications

Wattage	9.6W
Lumens	850 lm
Color Temp.	SunsetK
Lamp Type	LED
Beam Angle	60°
CRI	93+
Wet Location	Listed

Options

All White

All Bronze

All Black

Black w/White Trim

Technical Details

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

Trim Construction: Reflector is two piece trim for maximum color versatility. Design allows for minimal glare and a strong glare cut-off. Trim is constructed of metal for lasting durability.

Installation: Must be installed on a Cedar™ System housing with compatible lumen rating. Frames are available for New Construction and Remodel as IC or non-IC.

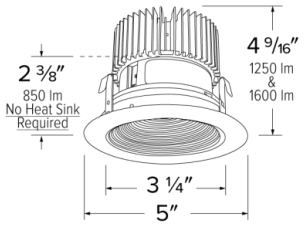
LED Technology:

- Extremely accurate Color Rendering Index of 93+.
- Efficacy of 97 lumens per watt.
- Lumen Maintaince 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: cUL Listed for Wet Location. RoHS Compliant.

Dimensions



2042 E. Vernon Ave., Vernon, CA 90058 • Tel (323) 231-2600 Fax (323) 231-3200 • elcolighting.com
© ELCO Lighting 2026. All rights reserved • Rev. 19 Mar 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.

Product Number Builder Example: **E414C0827W2**

ELCO 4" Baffle	Lumens	Color Temp.	Finish	Generation	Beam Angle
E414C					
	08 850 lm	**27** 2700K	**W** All White	**2** Gen 2	60º lens
	12 1250 lm	**30** 3000K	**BZ** All Bronze	**1** Gen 1	**-F** 38º lens
	16 1600 lm	**35** 3500K	**BB** All Black		**-N** 24º lens
		40 4000K	**B** Black with White Trim		**-S** 15º lens
		50 5000K			
		SD Sunset [1]			

[1] Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

© ELCO Lighting 2026. All rights reserved • Rev. 19 Mar 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.

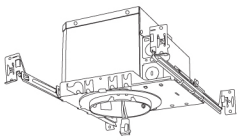
Compatible Products

For use with **4″ Cedar™ Light Engines**

4″ Cedar™ Dedicated LED ICA Housings

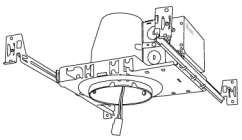
2-Hour Fire Rated
4″ ICA Housing
New Construction

CAT NO.	SPECIFICATIONS
E4FH	Up to 850 lm



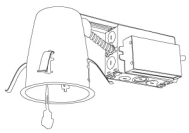
4″ ICA Housing
New Construction

CAT NO.	SPECIFICATIONS
E4LC	Up to 1600 lm



4″ ICA Housing
New Construction

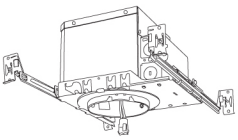
CAT NO.	SPECIFICATIONS
E4LC	Up to 850 lm



4″ ICA Housing
Remodel

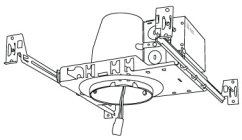
CAT NO.	SPECIFICATIONS
E4LRC	Up to 850 lm

4″ Cedar™ Dedicated LED Non-IC Housings



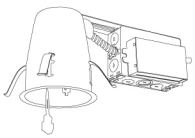
4″ Non-IC Housing
New Construction

CAT NO.	SPECIFICATIONS
E4LC	Up to 1600 lm



4″ Non-IC Housing
New Construction

CAT NO.	SPECIFICATIONS
E4LC	Up to 1250 lm



4″ Non-IC Housing
Remodel

CAT NO.	SPECIFICATIONS
E4LRC	Up to 1250 lm

PRODUCT NUMBER BUILDER

Housing Type		Lumen		Optional		Dimming	
E4FH	Fire Rated (up to 850)	**08**	850 lm (8.76W)	**(Blank)**	Non-IC	**(Blank)**	120V Triac/ELV
E4LC	New Construction	**12**	1250 lm (12.88W)	**ICA**	IC Airtight	**D**	120/277V Triac/ELV/0-10V
E4LRC	Remodel	**16**	1600 lm (18W)			**SD**	Sunset
						L	Lutron

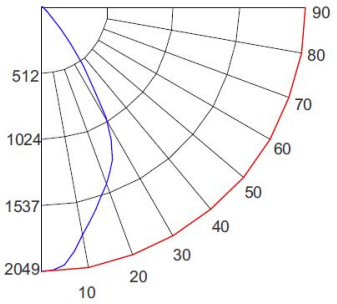
2042 E. Vernon Ave., Vernon, CA 90058 • Tel (323) 231-2600 Fax (323) 231-3200 • elcolighting.com
© ELCO Lighting 2026. All rights reserved • Rev. 19 Mar 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.

LED Light Engine with Baffle Trim

Multiplier: 2700K (x 0.96), 3500K (x 1.04), 4000K (x 1.08)

PHOTOMETRIC REPORT

Product #: E414C1630
Wattage/Lumens: 21.6W/ 1629 lm
Luminaire LPW: 75 Lm/W



CANDLE POWER SUMMARY

Degrees Vertical	0°
0	2049
5	2004
15	1623
25	1302
35	555
45	51
55	2
65	1
75	0
85	0
90	0

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Footcandles Beam Center	Beam Diameter
4'	128	4.5'
6'	56.9	6.8'
8'	32.0	9.1'
10'	20.5	11.3'

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30°	1221.3	75.00
0-40°	1570.99	96.50
0-60°	1627.36	99.90
0-90°	1628.59	100.00

© ELCO Lighting 2026. All rights reserved • Rev. 19 Mar 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.