

# 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

<b>Wattage</b>	18W
<b>Lumens</b>	1600 lm
<b>Color Temp.</b>	3500K
<b>Lamp Type</b>	LED
<b>Beam Angle</b>	60°
<b>CRI</b>	93+
<b>Wet Location</b>	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 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:** cUL Listed for Wet Location. RoHS Compliant.

## Dimensions



# Product Number Builder

Example: **E414C0827W2**

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

<sup>1</sup> Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

# 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

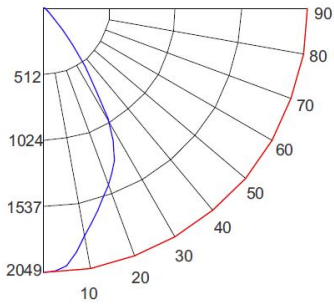
Housing Type		Lumen		Optional		Dimming	
<input type="text" value="E4FH"/>	Fire Rated (up to 850)	<input type="text" value="08"/>	850 lm (8.76W)	<input type="text" value="(Blank)"/>	Non-IC	<input type="text" value="(Blank)"/>	120V Triac/ELV
<input type="text" value="E4LC"/>	New Construction	<input type="text"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

# 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