ELCO Lighting

Project name:

Fixture type:

Date:

# 4" LED Light Engine with Reflector 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** | 18W |
| **Lumens** | 1600 lm |
| **Color Temp.** | 4000K |
| **Lamp Type** | LED |
| **Beam Angle** | 60° |
| **CRI** | 93+ |
| **Damp Location** | Listed |

## 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.

## Options



**All White**

**All Bronze**

**Chrome w/ White Trim**

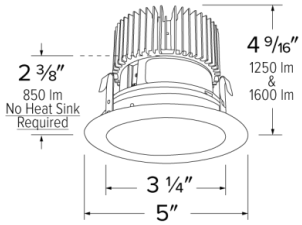


**Haze w/ White Trim**

**Black w/ White Trim**

**All Black**

## Dimensions





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## Product Number Builder Example: **E410C0827W2**

| ELCO 4" Reflector | Lumens | Color Temp. | Finish | Generation | Beam Angle |
|---|---|---|---|---|---|
| **E410C** | | | | | |
| | **08** 850 lm | **27** 2700K | **W** All White | **2** Gen 2 | 60º lens |
| | **12** 1250 lm | **30** 3000K | **BZ** All Bronze | Gen 1 | **-F** 38º lens |
| | **16** 1600 lm | **35** 3500K | **H** Haze with White Trim | | **-N** 24º lens |
| | | **40** 4000K | **C** Chrome with White Trim | | **-S** 15º lens |
| | | **50** 5000K | **B** Black with White Trim | | |
| | | **SD** Sunset [1] | **BB** All Black | | |

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


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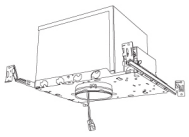
# Compatible Products

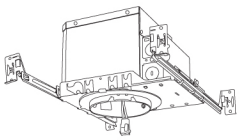
For use with **4″ Cedar™ Light Engines**

## 4″ Cedar™ Dedicated LED ICA Housings



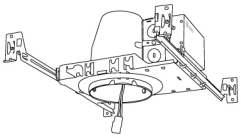
2-Hour Fire Rated
4″ ICA Housing
**New Construction**

| CAT NO. | SPECIFICATIONS |
|---|---|
| E4FH | Up to 850 lm |



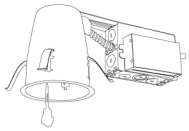
4″ ICA Housing
**New Construction**

| CAT NO. | SPECIFICATIONS |
|---|---|
| E4LC | Up to 1600 lm |



4″ ICA Housing
**New Construction**

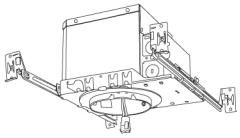
| CAT NO. | SPECIFICATIONS |
|---|---|
| E4LC | Up to 850 lm |



4″ ICA Housing
**Remodel**

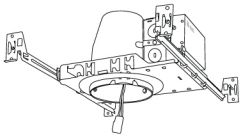
| CAT NO. | SPECIFICATIONS |
|---|---|
| E4LRC | Up to 850 lm |

## 4″ Cedar™ Dedicated LED Non-IC Housings



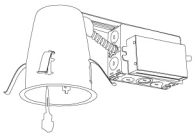
4″ Non-IC Housing
**New Construction**

| 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 |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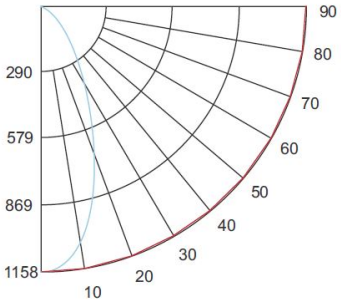
# LED Light Engine

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

## PHOTOMETRIC REPORT

Product #: E410C0830
Wattage/Lumens: 10.5W/ 837 Lm
Luminaire LPW: 80 Lm/W




## CANDLE POWER SUMMARY

| Degrees Vertical | 0° |
|---|---|
| 0 | 1158 |
| 5 | 1140 |
| 15 | 927 |
| 25 | 634 |
| 35 | 232 |
| 45 | 40 |
| 55 | 1 |
| 65 | 0 |
| 75 | 0 |
| 85 | 0 |
| 90 | 0 |

## ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Footcandles Beam Center | Beam Diameter |
|---|---|---|
| 4’ | 72.4 | 4.0’ |
| 6’ | 32.2 | 6.0’ |
| 8’ | 18.1 | 8.0’ |
| 10’ | 11.6 | 10.0’ |

## ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30° | 647.32 | 77.30 |
| 0-40° | 799.00 | 95.40 |
| 0-60° | 836.33 | 99.90 |
| 0-90° | 837.16 | 100.00 |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