ELCO Lighting

Project name:

Fixture type:

Date:

# 8" Reflector LED Light Engine Trims (4000-6000 lm)

## Features

- Dimmable Triac/ELV or 0-10V.
- USA Designed and Assembled.
- Frame sold separately (see Compatible Housings).
- 2 at the end of the item number denotes Generation 2. Please note Gen 2 and Gen 1 are not cross compatible.

## Specifications

| | |
|---|---|
| **Wattage** | 71.4W |
| **Lumens** | 6000 lm |
| **Color Temp.** | 5000K |
| **Lamp Type** | LED |
| **Beam Angle** | 60° |
| **CRI** | 93+ |
| **Wet Location** | Listed |

## Options

**Black**

**Chrome**

**Haze**

**Haze w/White Ring**

**White**

## Technical Details

**Optics**: 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.

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

**LED Technology:**

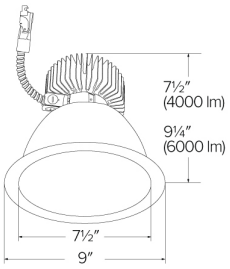
- Extremely accurate Color Rendering Index of 93+ CRI.
- Efficacy of >90 lumens per watt.
- Lumen Maintenance of 50,000 hours L70 Life based on LM80 standardized test results.
- Superior Thermal Management by utilizing ELCO Red heat sink.
- Instant On to Full Brightness technology.
- No LED pixilation.

**Listings**:

- cULus Listed for Wet Location.
- RoHS Compliant.

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

## Dimensions

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# Product Number Builder

Example: **E810L4030W2**

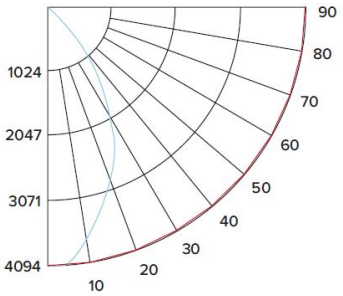
| ELCO 8" Reflector | Laurel | Lumens | Color Temp. | Finish | Generation |
|---|---|---|---|---|---|
| **E810** | **L** | | | | |
| | | **40** 4000 lm | **30** 3000K | **H** All Haze | Gen 1 |
| | | **60** 6000 lm | **35** 3500K | **W** All White | **2** Gen 2 |
| | | | **40** 4000K | **B** All Black | |
| | | | **50** 5000K | **C** All Chrome | |
| | | | | **HW** Haze w/White Ring | |

## LED Light Engine

Multiplier: 2700K (x 0.96), 3500K (x 1.04), 4000K (x 1.08), 5000K (x 1.12)

### PHOTOMETRIC REPORT

Product #: E810L4030H
Wattage/Lumens: 35.6W/ 3527 Lm
Luminaire LPW: 99 Lm/W




### CANDLE POWER SUMMARY

| Degrees Vertical | 0° |
|---|---|
| 0 | 4094 |
| 5 | 4009 |
| 15 | 3336 |
| 25 | 2510 |
| 35 | 1481 |
| 45 | 182 |
| 55 | 13 |
| 65 | 5 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

### ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Footcandles Beam Center | Beam Diameter |
|---|---|---|
| 4’ | 256 | 4.6’ |
| 6’ | 114 | 7.0’ |
| 8’ | 64.0 | 9.3’ |
| 10’ | 40.9 | 11.6’ |

### ZONAL LUMEN SUMMARY

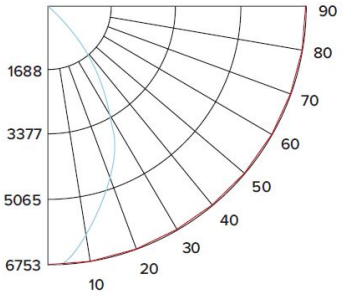
| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30° | 2453.47 | 69.60 |
| 0-40° | 3329.87 | 94.40 |
| 0-60° | 3520.38 | 99.80 |
| 0-90° | 3527.05 | 100.00 |

## LED Light Engine

Multiplier: 2700K (x 0.96), 3500K (x 1.04), 4000K (x 1.08), 5000K (x 1.12)

### PHOTOMETRIC REPORT

Product #: E810L6030H
Wattage/Lumens: 70.3W/ 5751 Lm
Luminaire LPW: 82 Lm/W




### CANDLE POWER SUMMARY

| Degrees Vertical | 0° |
|---|---|
| 0 | 6753 |
| 5 | 6601 |
| 15 | 5447 |
| 25 | 4096 |
| 35 | 2413 |
| 45 | 292 |
| 55 | 23 |
| 65 | 10 |
| 75 | 4 |
| 85 | 0 |
| 90 | 0 |

### ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Footcandles Beam Center | Beam Diameter |
|---|---|---|
| 4’ | 422 | 4.6’ |
| 6’ | 188 | 6.9’ |
| 8’ | 106 | 9.2’ |
| 10’ | 67.5 | 11.5’ |

### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30° | 4009.32 | 69.70 |
| 0-40° | 5431.93 | 94.50 |
| 0-60° | 5736.73 | 99.80 |
| 0-90° | 5750.7 | 100.00 |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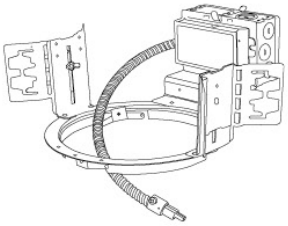
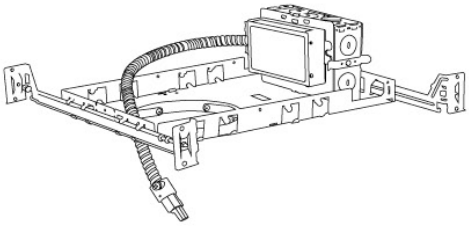
# Compatible Products

For use with **8″ Laurel™ Light Engines**

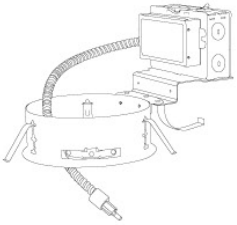
## 8″ Laurel™ Commercial LED Frames



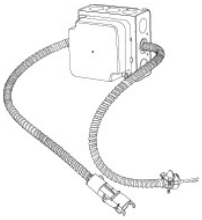
**8″ Architectural Frame**
**E8LH**



**8″ Plaster Frame**
**E8LF**



**8″ Remodel Frame**
**E8LR**



**8″ Retrofit Kit**
**E8LT**

**PRODUCT NUMBER BUILDER**

| Frame Type | Voltage | Lumen | Dimming | Optional | Generation |
|---|---|---|---|---|---|
| **E8LH** Architectural | **U** 120/277V | **08** 850 lm | **D** Triac/ELV/0-10V | **EM1** Emergency Backup up to 700 lm output | **(blank)** Gen 1 |
| **E8LF** Plaster | | **12** 1250 lm | **S** Sunset | **EM2** Emergency Backup up to 1100 lm output | **2** Gen 2 |
| **E8LR** Remodel | | **16** 1600 lm | **L** Lutron | | |
| **E8LT** Retrofit | | **20** 2000 lm | | | |
| | | **30** 3000 lm | | | |
| | | **40** 4000 lm | | | |
| | | **60** 6000 lm | | | |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