ELCO Lighting

Project name:

Fixture type:

Date:

# 6" Reflector LED Light Engine Trims (850-6000 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** | 31W |
| **Lumens** | 3000 lm |
| **Color Temp.** | 5000K |
| **Lamp Type** | LED |
| **Beam Angle** | 60° |
| **CRI** | 93+ |
| **Wet Location** | Listed |

## Options

**Black**

**Chrome**

**All Haze(semi-specular)**

**Haze w/White Trim**

**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:**

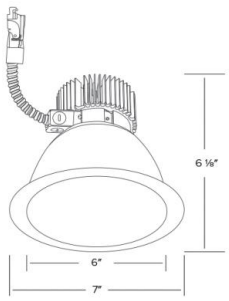
- Extremely accurate Color Rendering Index of 93+ CRI.
- Efficacy of >90 lumens per watt.
- Lumen Maintenance of 50,000 hours L70 Life based on LM80 standardized test results.
- Superior Thermal Management by utilizing ELCO Red heat sink.
- Instant On to Full Brightness technology.
- No LED pixilation.

**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**: cULus Listed for Wet Location. RoHS Compliant.

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

## 850 lm - 3000 lm Series




## 4000 lm - 6000 lm Series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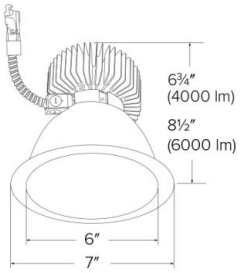



## Product Number Builder

Example: **E610L0827W2**

| ELCO 6" Reflector | Laurel | Lumens | Color Temp. | Finish | Generation | Beam Angle |
|---|---|---|---|---|---|---|
| **E610** | **L** | | | | | |
| | | **08** 850 lm | **27** 2700K [1] | **W** All White | **2** Gen 2 | 60º |
| | | **12** 1250 lm | **30** 3000K | **B** All Black | **1** Gen 1 | **-F** 38º [1] |
| | | **16** 1600 lm | **35** 3500K | **C** All Chrome | | **-N** 24º [1] |
| | | **20** 2000 lm | **40** 4000K | **H** All Haze (Semi-Specular) | | **-S** 15º [1] |
| | | **30** 3000 lm | **50** 5000K | **HW** Haze with White Trim | | |
| | | **40** 4000 lm | **SD** Sunset [1, 2] | | | |
| | | **60** 6000 lm | | | | |

[1] Available for lumen packages up to 3000 lm only

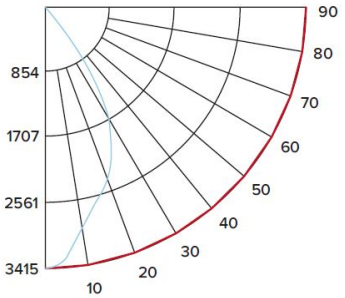
[2] Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

## LED Light Engine

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

### PHOTOMETRIC REPORT

Product #: E610L3030
Wattage/Lumens: 31.5W/ 2714 Lm
Luminaire LPW: 86 Lm/W




### CANDLE POWER SUMMARY

| Degrees Vertical | 0° |
|---|---|
| 0 | 3415 |
| 5 | 3340 |
| 15 | 2706 |
| 25 | 2171 |
| 35 | 925 |
| 45 | 85 |
| 55 | 3 |
| 65 | 1 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

### ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Footcandles Beam Center | Beam Diameter |
|---|---|---|
| 4' | 213 | 4.5' |
| 6' | 94.9 | 6.8' |
| 8' | 53.4 | 9.1' |
| 10' | 34.1 | 11.3' |

### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30° | 2035.49 | 75.00 |
| 0-40° | 2618.32 | 96.50 |
| 0-60° | 2712.27 | 99.90 |
| 0-90° | 2714.31 | 100.00 |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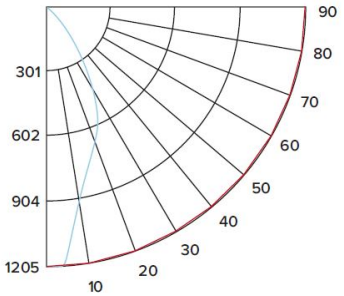
# LED Light Engine

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

## PHOTOMETRIC REPORT

Product #: E610L0830H
Wattage/Lumens: 10.4W/ 756 Lm
Luminaire LPW: 73 Lm/W




## CANDLE POWER SUMMARY

| Degrees Vertical | 0° |
|---|---|
| 0 | 1205 |
| 5 | 1134 |
| 15 | 772 |
| 25 | 607 |
| 35 | 226 |
| 45 | 17 |
| 55 | 1 |
| 65 | 0 |
| 75 | 0 |
| 85 | 0 |
| 90 | 0 |

## ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Footcandles Beam Center | Beam Diameter |
|---|---|---|
| 4' | 75.3 | 3.8' |
| 6' | 33.5 | 5.6' |
| 8' | 18.8 | 7.5' |
| 10' | 12.0 | 9.4' |

## ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30° | 590.01 | 78.00 |
| 0-40° | 736.59 | 97.40 |
| 0-60° | 755.62 | 99.90 |
| 0-90° | 756.24 | 100.00 |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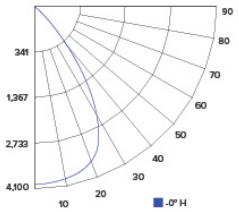
# Photometric Report

## 6″ Reflector LED Light Engine Trims

### PHOTOMETRIC REPORT

Product #: E610L4035W2
Wattage / Lumens: 36.6 W / 4110.6 lm
Luminaire LPW: 112.3 lm/W




### CANDLE POWER SUMMARY

| Degress Vertical | 0° |
|---|---|
| 0 | 4018 |
| 5 | 3970 |
| 15 | 3583 |
| 25 | 2918 |
| 35 | 1691 |
| 45 | 346 |
| 55 | 50 |
| 65 | 17 |
| 75 | 6 |
| 85 | 0 |
| 90 | 0 |

### ILLUMINANCE AT A DISTANCE

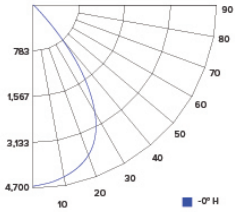
| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|---|---|---|
| 4′ | 251 | 5.2′ |
| 6′ | 112 | 7.9′ |
| 8′ | 62.8 | 10.5′ |
| 10′ | 40.2 | 13.1′ |

### ZONAL LUMEN SUMMARY

| Zone | Lumens | %Luminaire |
|---|---|---|
| 0-30° | 2,708.8 | 65.9 |
| 0-40° | 3,740.8 | 91 |
| 0-60° | 4,086.4 | 99.4 |
| 0-90° | 4,110.6 | 100 |

### PHOTOMETRIC REPORT

Product #: E610L6030B
Wattage / Lumens: 70.4W / 4791.9 lm
Luminaire LPW: 68 lm/W




### CANDLE POWER SUMMARY

| Degress Vertical | 0° |
|---|---|
| 0 | 4684 |
| 5 | 4628 |
| 15 | 4177 |
| 25 | 3402 |
| 35 | 1972 |
| 45 | 403 |
| 55 | 59 |
| 65 | 20 |
| 75 | 7 |
| 85 | 0 |
| 90 | 0 |

### ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|---|---|---|
| 4′ | 293 | 5.2′ |
| 6′ | 130 | 7.9′ |
| 8′ | 73.2 | 10.5′ |
| 10′ | 46.8 | 13.1′ |

### ZONAL LUMEN SUMMARY

| Zone | Lumens | %Luminaire |
|---|---|---|
| 0-30° | 3,157.7 | 65.9 |
| 0-40° | 4,360.9 | 91 |
| 0-60° | 4,763.7 | 99.4 |
| 0-90° | 4,791.9 | 100 |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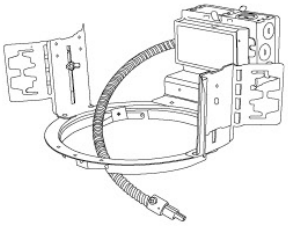
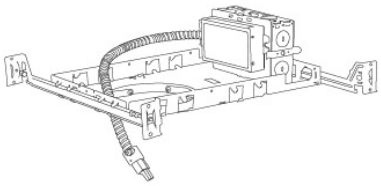
# Compatible Products

For use with **6″ Laurel™ Light Engines**

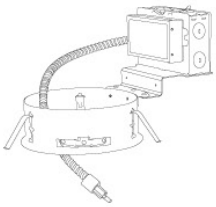
## 6″ Laurel™ Commercial LED Frames



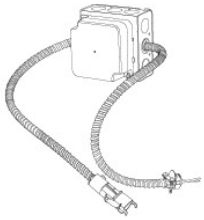
6″ Architectural Frame
**E6LH**



6″ Plaster Frame
**E6LF**



6″ Remodel Frame
**E6LR**



6″ Retrofit Kit
**E6LT**

**PRODUCT NUMBER BUILDER**

| Frame Type | | Voltage | | Lumen | | Dimming | | Optional | | Generation | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **E6LH** | Architectural | **U** | 120/277V | **08** | 850 lm | **D** | Triac/ELV/0-10V | **EM1** | Emergency Backup up to 700 lm output | **(blank)** | Gen 1 |
| **E6LF** | Plaster | | | **12** | 1250 lm | **S** | Sunset | **EM2** | Emergency Backup up to 1100 lm output | **2** | Gen 2 |
| **E6LR** | Remodel | | | **16** | 1600 lm | **L** | Lutron | | | | |
| **E6LT** | Retrofit | | | **20** | 2000 lm | | | | | | |
| | | | | **30** | 3000 lm | | | | | | |
| | | | | **40** | 4000 lm | | | | | | |
| | | | | **60** | 6000 lm | | | | | | |

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