ELCO Lighting

Project name:

Fixture type:

Date:

# 6" 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:**

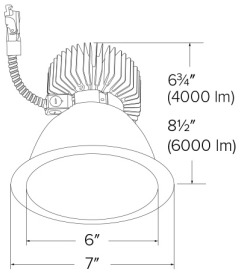
- Extremely accurate Color Rendering Index of 93+ CRI.
- Efficacy of >90 lumens per watt.
- Lumen Maintenance of 50,000 hours L70 Life based on LM80 standardized test results.
- Superior Thermal Management by utilizing ELCO Red heat sink.
- Instant On to Full Brightness technology.
- No LED pixilation.

**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: **E610L4030W2**

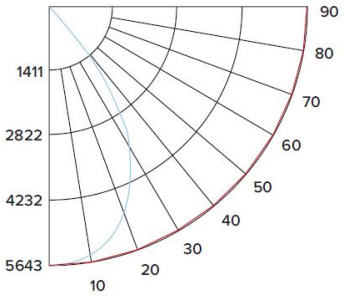
| ELCO 6" Reflector | Laurel | Lumens | Color Temp. | Finish | Generation |
|---|---|---|---|---|---|
| **E610** | **L** | | | | |
| | | **40** 4000 lm | **30** 3000K | **W** All White | Gen 1 |
| | | **60** 6000 lm | **35** 3500K | **B** All Black | **2** Gen 2 |
| | | | **40** 4000K | **C** All Chrome | |
| | | | **50** 5000K | **H** All Haze | |
| | | | | **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 #: E610L6030H
Wattage/Lumens: 70.3W/ 5780 Lm
Luminaire LPW: 82 Lm/W




### CANDLE POWER SUMMARY

| Degrees Vertical | 0° |
|---|---|
| 0 | 5643 |
| 5 | 5576 |
| 15 | 5032 |
| 25 | 4098 |
| 35 | 2376 |
| 45 | 486 |
| 55 | 71 |
| 65 | 24 |
| 75 | 8 |
| 85 | 1 |
| 90 | 0 |

### ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Footcandles Beam Center | Beam Diameter |
|---|---|---|
| 4' | 353 | 5.2' |
| 6' | 157 | 7.9' |
| 8' | 88.2 | 10.5' |
| 10' | 56.4 | 13.1' |

### ZONAL LUMEN SUMMARY

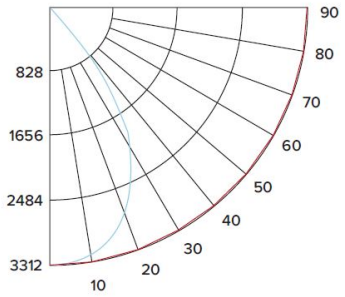
| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30° | 3807.57 | 65.90 |
| 0-40° | 5259.9 | 91.00 |
| 0-60° | 5746.44 | 99.40 |
| 0-90° | 5780.42 | 100.00 |

## LED Light Engine

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

### PHOTOMETRIC REPORT

Product #: E610L4030H
Wattage/Lumens: 35.6W/ 3393 Lm
Luminaire LPW: 95 Lm/W




### CANDLE POWER SUMMARY

| Degrees Vertical | 0° |
|---|---|
| 0 | 3312 |
| 5 | 3273 |
| 15 | 2954 |
| 25 | 2406 |
| 35 | 1394 |
| 45 | 285 |
| 55 | 42 |
| 65 | 14 |
| 75 | 5 |
| 85 | 0 |
| 90 | 0 |

### ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Footcandles Beam Center | Beam Diameter |
|---|---|---|
| 4' | 207 | 5.2' |
| 6' | 92.0 | 7.9' |
| 8' | 51.8 | 10.5' |
| 10' | 33.1 | 13.1' |

### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30° | 2234.91 | 65.90 |
| 0-40° | 3087.37 | 91.00 |
| 0-60° | 3372.95 | 99.40 |
| 0-90° | 3392.9 | 100.00 |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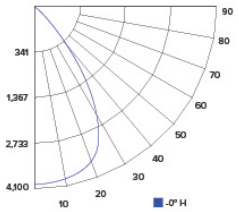
# Photometric Report

## 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

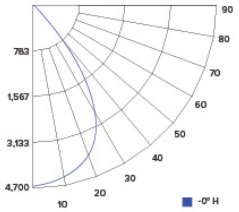
| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|---|---|---|
| 4′ | 251 | 5.2′ |
| 6′ | 112 | 7.9′ |
| 8′ | 62.8 | 10.5′ |
| 10′ | 40.2 | 13.1′ |

### 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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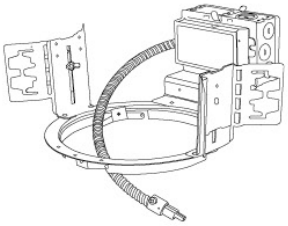
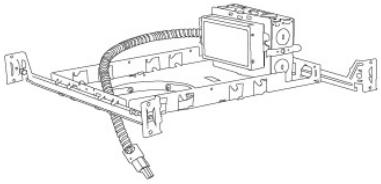
# Compatible Products

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

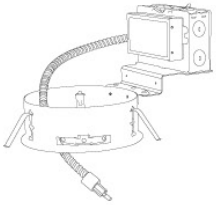
## 6″ Laurel™ Commercial LED Frames



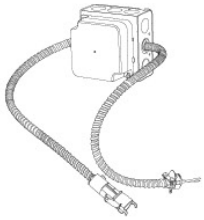
6″ Architectural Frame
**E6LH**



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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