

8" 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. | 4000K |
| 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



Product Number Builder Example: E810L0827W2

| ELCO 8" Reflector | Laurel | Lumens | Color Temp. | Finish | Generation | Beam Angle |
|-------------------|----------|-------------------|---------------------------------|-----------------------------------|----------------|----------------------------|
| E810 | L | | | | | |
| | | 08 850 lm | 27 2700K ¹ | H All Haze (Semi-Specular) | 2 Gen 2 | 60° |
| | | 12 1250 lm | 30 3000K | W All White | 1 Gen 1 | -F 38° ¹ |
| | | 16 1600 lm | 35 3500K | B All Black | | -N 24° ¹ |
| | | 20 2000 lm | 40 4000K | C All Chrome | | -S 15° ¹ |
| | | 30 3000 lm | 50 5000K ² | HW Haze with White Trim | | |
| | | 40 4000 lm | SD Sunset ^{1,3} | | | |
| | | 60 6000 lm | | | | |

¹ Available for lumen packages up to 3000 lm only

² Available for lumen packages 16, 20, 30, 40 and 60 only

³ 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 #: E810L0830H
 Wattage/Lumens: 10.4W/ 757 Lm
 Luminaire LPW: 73 Lm/W



CANDLE POWER SUMMARY

| Degrees Vertical | Candle Power |
|------------------|--------------|
| 0° | 1113 |
| 5° | 1089 |
| 15° | 763 |
| 25° | 582 |
| 35° | 272 |
| 45° | 15 |
| 55° | 0 |
| 65° | 0 |
| 75° | 0 |
| 85° | 0 |
| 90° | 0 |

ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Footcandles Beam Center | Beam Diameter |
|--------------------------|-------------------------|---------------|
| 4' | 69.6 | 3.9' |
| 6' | 30.9 | 5.9' |
| 8' | 17.4 | 7.9' |
| 10' | 11.1 | 9.9' |

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-30° | 575.98 | 76.10 |
| 0-40° | 739.82 | 97.70 |
| 0-60° | 757.24 | 100.00 |
| 0-90° | 757.24 | 100.00 |

LED Light Engine

Multiplier: 2700K (x 0.92), 3000K (x 0.96), 4000K (x 1.04)

PHOTOMETRIC REPORT

Product #: E810L1235
 Wattage/Lumens: 15.8W/ 1117 Lm
 Luminaire LPW: 71 Lm/W



CANDLE POWER SUMMARY

| Degrees Vertical | 0° |
|------------------|------|
| 0 | 1295 |
| 5 | 1296 |
| 15 | 1127 |
| 25 | 838 |
| 35 | 424 |
| 45 | 33 |
| 55 | 0 |
| 65 | 0 |
| 75 | 0 |
| 85 | 0 |
| 90 | 0 |

ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Footcandles Beam Center | Beam Diameter |
|--------------------------|-------------------------|---------------|
| 4' | 80.9 | 4.7' |
| 6' | 36.0 | 7.0' |
| 8' | 20.2 | 9.3' |
| 10' | 13.0 | 11.7' |

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|-------|---------|-------------|
| 0-30° | 822.54 | 73.60 |
| 0-40° | 1080.48 | 96.70 |
| 0-60° | 1117.44 | 100.00 |
| 0-90° | 1117.46 | 100.00 |

Photometric Report

8" Reflector LED Light Engine Trims

PHOTOMETRIC REPORT

Product #: E810L6030W2
 Wattage / Lumens: 70.7 W / 6316.2 lm
 Luminaire LPW: 89.3 lm/W



CANDLE POWER SUMMARY

| Degress Vertical | 0° |
|------------------|------|
| 0 | 7429 |
| 5 | 7261 |
| 15 | 5992 |
| 25 | 4506 |
| 35 | 2654 |
| 45 | 321 |
| 55 | 25 |
| 65 | 10 |
| 75 | 4 |
| 85 | 0 |
| 90 | 0 |

ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|--------------------------|-------------------------|---------------|
| 4' | 464 | 4.6' |
| 6' | 206 | 6.9' |
| 8' | 116 | 9.2' |
| 10' | 74.3 | 11.5' |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Luminaire |
|-------|---------|------------|
| 0-30° | 4,404.9 | 69.7 |
| 0-40° | 5,966.7 | 94.5 |
| 0-60° | 6,300.8 | 99.8 |
| 0-90° | 6,316.2 | 100 |

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 |
|---------------------------|----------------------|----------------------|--------------------------|--|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 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 | | | |