ELCO Lighting

Project name:

Fixture type:

Date:

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	18W
Lumens	1600 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:

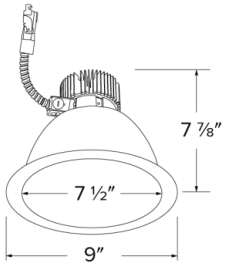
- Extremely accurate Color Rendering Index of 93+ CRI.
- Efficacy of >90 lumens per watt.
- Lumen Maintenance of 50,000 hours L70 Life based on LM80 standardized test results.
- Superior Thermal Management by utilizing ELCO Red heat sink.
- Instant On to Full Brightness technology.
- No LED pixilation.

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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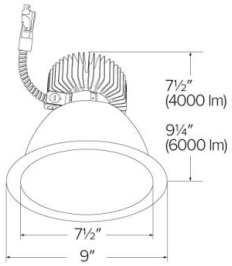


Product Number Builder

Example: **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	60º
		12 1250 lm	**30** 3000K	**W** All White	**1** Gen 1	**-F** 38º [1]
		16 1600 lm	**35** 3500K	**B** All Black		**-N** 24º [1]
		20 2000 lm	**40** 4000K	**C** All Chrome		**-S** 15º [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

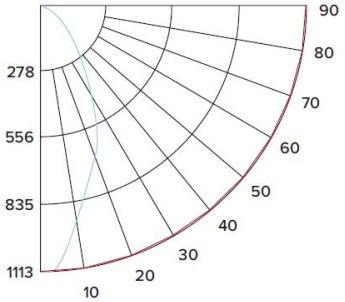
[3] Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

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	0°
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

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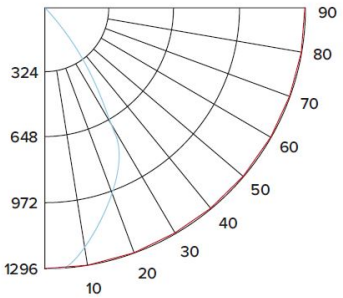
LED Light Engine

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

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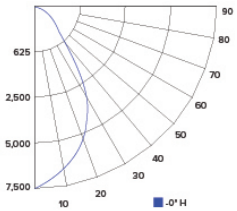
Photometric Report

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

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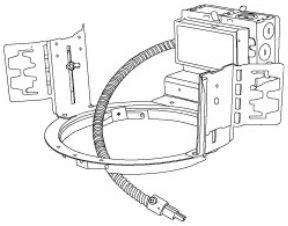
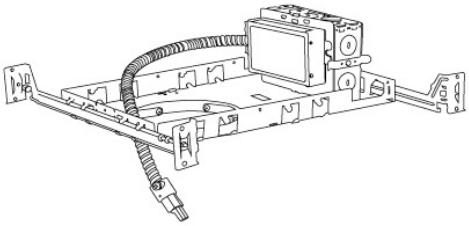
Compatible Products

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

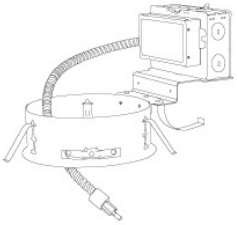
8″ Laurel™ Commercial LED Frames



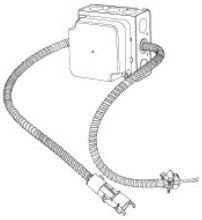
8″ Architectural Frame
E8LH



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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