ELCO Lighting

Project name:

Fixture type:

Date:

4" Reflector LED Light Engine Trims

Features

- 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.	3500K
Dimmable	0-10V/Triac/ELV (1% Dimming)
Lamp Type	LED
Beam Angle	60°
CRI	93+
Wet Location	Listed

Options

All Haze(semi-specular)

White

Black

Chrome

Haze w/White Trim

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.

Dimmability: Depending on driver used. It can dim to 1% with 3-in-1 driver: Triac, ELV and 0-10V

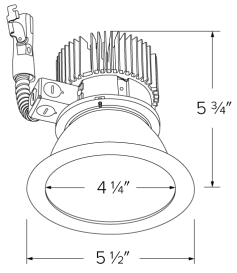
LED Technology:

- 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.

Dimensions



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

Product Number Builder Example: **E410L0827W2**

ELCO 4" Reflector	Laurel	Lumens (Wattage)	Color Temp.	Finish	Generation	Beam Angle
E410	**L**					
		08 850 lm (12.6W MAX.)	**27** 2700K [1]	**H** All Haze (Semi-Specular)	**2** Gen 2	60º
		12 1250 lm (16.8W MAX.)	**30** 3000K	**W** All White	**1** Gen 1	**-F** 38º [1]
		16 1600 lm (21W MAX.)	**35** 3500K	**B** All Black		**-N** 24º [1]
		20 2000 lm (29.4W MAX.)	**40** 4000K	**C** All Chrome		**-S** 15º [1]
		30 3000 lm (44.1W MAX.)	**50** 5000K	**HW** Haze with White Trim		
			SD Sunset [1, 2]			

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

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

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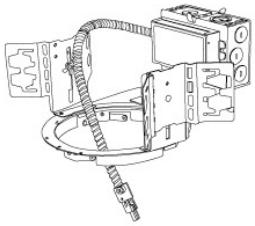
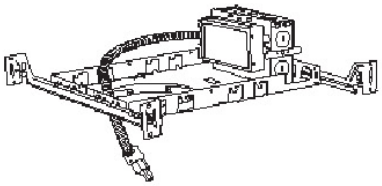
Compatible Products

For use with **4″ Laurel™ Light Engines**

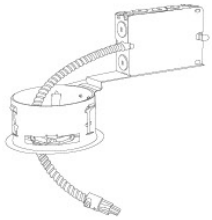
4″ Laurel™ Commercial LED Frames



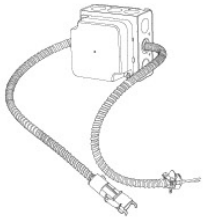
4″ Architectural Frame
E4LH



4″ Plaster Frame
E4LF



4″ Remodel Frame
E4LR



4″ Retrofit Kit
E4LT

PRODUCT NUMBER BUILDER

Frame Type	Voltage	Lumen	Dimming	Optional	Generation
E4LH Architectural	**U** 120/277V	**08** 850 lm	**D** Triac/ELV/0-10V	**EM1** Emergency Backup up to 700 lm output	**(blank)** Gen 1
E4LF Plaster		**12** 1250 lm	**S** Sunset	**EM2** Emergency Backup up to 1100 lm output	**2** Gen 2
E4LR Remodel		**16** 1600 lm	**L** Lutron		
E4LT Retrofit		**20** 2000 lm			
		30 3000 lm			

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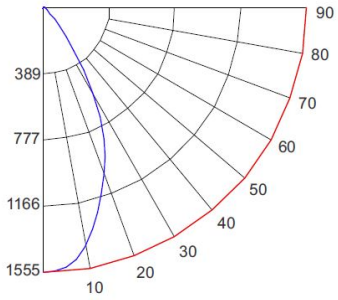
LED Light Engine

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

PHOTOMETRIC REPORT

Product #: E410L1230
Wattage/Lumens: 15.7W/ 1124 Lm
Luminaire LPW: 72 Lm/W



CANDLE POWER SUMMARY

Degrees Vertical	0°
0	1555
5	1530
15	1244
25	850
35	312
45	54
55	1
65	1
75	0
85	0
90	0

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Footcandles Beam Center	Beam Diameter
4’	97.2	4.0’
6’	43.2	6.0’
8’	24.3	8.0’
10’	15.5	10.0’

ZONAL LUMEN SUMMARY

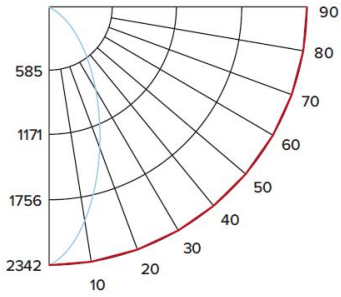
Zone	Lumens	% Luminaire
0-30°	868.78	77.30
0-40°	1072.36	95.40
0-60°	1122.45	99.90
0-90°	1123.58	100.00

LED Light Engine

Multiplier: 3000K (x 1.04), 3500K (x 1.08), 4000K (x 1.12)

PHOTOMETRIC REPORT

Product #: E410L2027H
Wattage/Lumens: 21.6W/ 1692 Lm
Luminaire LPW: 78 Lm/W



CANDLE POWER SUMMARY

Degrees Vertical	0°
0	2342
5	2304
15	1873
25	1281
35	469
45	81
55	2
65	1
75	0
85	0
90	0

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Footcandles Beam Center	Beam Diameter
4’	146	4.0’
6’	65.0	6.0’
8’	36.6	8.0’
10’	23.4	10.0’

ZONAL LUMEN SUMMARY

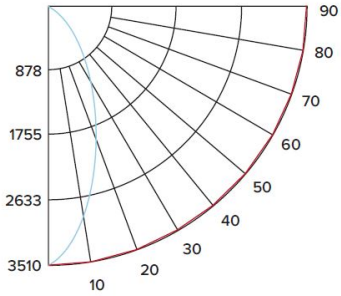
Zone	Lumens	% Luminaire
0-30°	1308.44	77.30
0-40°	1615.05	95.40
0-60°	1690.49	99.90
0-90°	1692.19	100.00

LED Light Engine

Multiplier: 3000K (x 1.04), 3500K (x 1.08), 4000K (x 1.12)

PHOTOMETRIC REPORT

Product #: E410L3027H
Wattage/Lumens: 31.5W/ 2537 Lm
Luminaire LPW: 81 Lm/W



CANDLE POWER SUMMARY

Degrees Vertical	0°
0	3510
5	3454
15	2808
25	1920
35	704
45	122
55	3
65	2
75	1
85	0
90	0

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Footcandles Beam Center	Beam Diameter
4’	219	4.0’
6’	97.5	6.0’
8’	54.8	8.0’
10’	35.1	10.0’

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30°	1961.57	77.30
0-40°	2421.21	95.40
0-60°	2534.32	99.90
0-90°	2536.86	100.00

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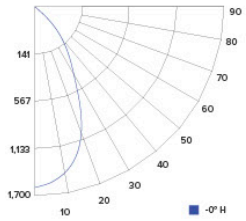
Photometric Report

4" Reflector LED Light Engine

PHOTOMETRIC REPORT

Product #: E410L1235
Wattage / Lumens: 12.8W / 1166.6 lm
Luminaire LPW: 91.1 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	1617
5	1591
15	1294
25	885
35	324
45	56
55	1
65	1
75	0
85	0
90	0

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	101	4.0′
6′	44.9	6.0′
8′	25.3	8.0′
10′	16.2	10.0′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	902.2	77.3
0-40°	1,113.4	95.4
0-60°	1,165.4	99.9
0-90°	1,166.6	100

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