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	18W
Lumens	1600 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:

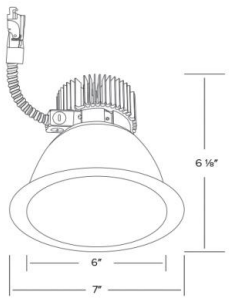
- Extremely accurate Color Rendering Index of 93+ CRI.
- Efficacy of >90 lumens per watt.
- Lumen Maintenance of 50,000 hours L70 Life based on LM80 standardized test results.
- Superior Thermal Management by utilizing ELCO Red heat sink.
- Instant On to Full Brightness technology.
- No LED pixilation.

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

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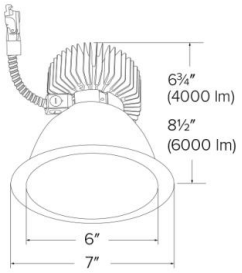


Product Number Builder

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

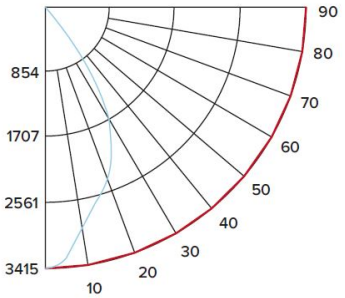
[2] Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

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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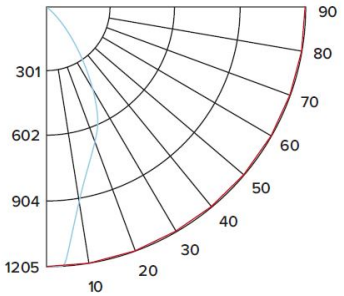
LED Light Engine

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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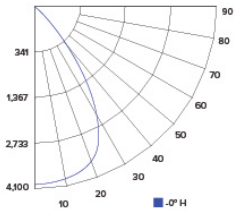
Photometric Report

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

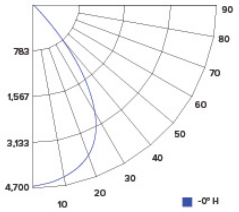
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	251	5.2′
6′	112	7.9′
8′	62.8	10.5′
10′	40.2	13.1′

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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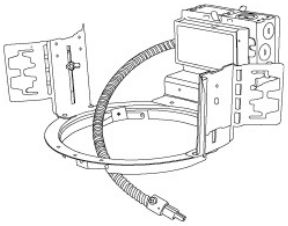
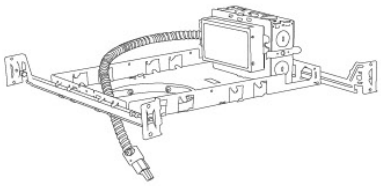
Compatible Products

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

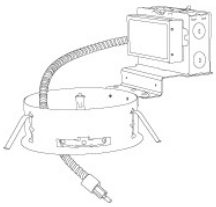
6″ Laurel™ Commercial LED Frames



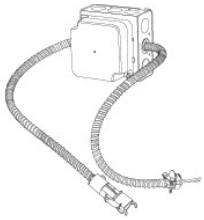
6″ Architectural Frame
E6LH



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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