

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	31W
Lumens	3000 lm
Color Temp.	3000K
Lamp Type	LED
Beam Angle	60°
CRI	93+
Wet Location	Listed

#### **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.

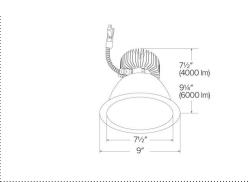
#### **Options**



#### 850 lm - 3000 lm Series



4000 lm - 6000 lm Series



#### Product Number Builder Example: E810L0827W2

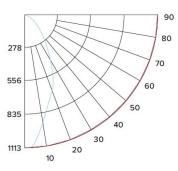
ELCO 8" Reflector	Laurel	Lumens	Color Temp.	Finish	Generation	Beam Angle
E810	L					
		08 850 lm 12 1250 lm 16 1600 lm 20 2000 lm	27 2700K <sup>1</sup> 30 3000K 35 3500K 40 4000K	H All Haze (Semi- Specular) W All White B All Black	2 Gen 2 1 Gen 1	60° -F 38° <sup>1</sup> -N 24° <sup>1</sup> -S 15° <sup>1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

<sup>&</sup>lt;sup>1</sup> Available for lumen packages up to 3000 lm only

#### **LED Light Engine**

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

PHOTOMETRIC	REPORT
Product #: E810	L0830H
Wattage/Lumen	s: 10.4W/ 757 Lm
Luminaire LPW:	73 Lm/W



Degrees Vertical	Oo
0	1113
5	1089
15	763
25	582
35	272
45	15
55	0
65	0
75	0
85	0
90	0

**CANDLE POWER SUMMARY** 

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 SUMMA	ARY				

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

<sup>&</sup>lt;sup>2</sup> Available for lumen packages 16, 20, 30, 40 and 60 only

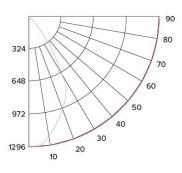
<sup>&</sup>lt;sup>3</sup> Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

#### **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**

Zon	e	Lumer	IS	% Luminaire	
0-30	)°	822.5	4	73.60	
0-40	)°	1080.4	8	96.70	
0-60	)°	1117.44	1	100.00	
0-90	)°	1117.46	6	100.00	

## Photometric Report

#### 8" Reflector LED Light Engine Trims

# PHOTOMETRIC REPORT Product #: E810L6030W2 Wattage / Lumens: 70.7 W / 6316.2 Im Luminaire LPW: 89.3 Im/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

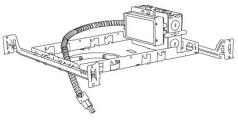


For use with **8" Laurel™ Light Engines** 

#### 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	Gener	ation	
E8LH Architectural	U 120/277V	<b>08</b> 850 lm	D Triac/ELV/0-10V	EM1	Emergency Backup up to 700 lm output	(blank)	Gen 1	
E8LF Plaster		<b>12</b> 1250 lm	S Sunset	EM2	Emergency Backup up to 1100 lm output	2	Gen 2	
E8LR Remodel		<b>16</b> 1600 lm	<b>L</b> Lutron					
E8LT Retrofit		<b>20</b> 2000 lm						
		<b>30</b> 3000 lm						
		<b>40</b> 4000 lm						
		<b>60</b> 6000 lm						