ELCO Lighting

Project name:

Fixture type:

Date:

6" LED Light Engine with Reflector Trim

The perfect lighting solution for high-end residential and light commercial projects.

Features

- High efficacy LED module.
- Triac/ELV/0-10V dimming.
- Life span of 50,000 hours L70.
- USA designed and assembled.
- Limited 5 year warranty.
- 2 at the end of the item number denotes Generation 2. Please note Gen 2 and Gen 1 are not cross compatible.

Specifications

Wattage	8.76W
Lumens	850 lm
Color Temp.	5000K
Lamp Type	LED
Beam Angle	60°
CRI	93+
Wet Location	Listed

Options

All White

Haze w/White Trim

Chrome w/White Trim

All Bronze

Black w/White Trim

Gold w/White Trim

Technical Details

Optics: Frosted polycarbonate module lens diffuses light evenly throughout while reducing glare with LED technology.

Trim Construction: Reflector is two piece trim for maximum color versatility. Design allows for minimal glare and a strong glare cut-off. Trim is constructed of metal for lasting durability.

Installation: Must be installed on a Cedar™ System frame with compatible lumen rating. Frames are available for New Construction and Remodel as IC or non-IC.

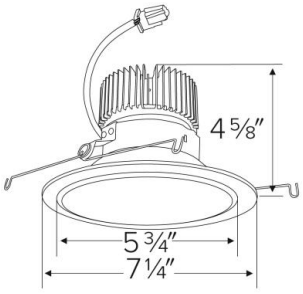
LED Technology:

- Extremely accurate Color Rendering Index of 93+.
- Efficacy of 97 lumens per watt.
- Lumen Maintaince 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 pixelation.

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: cUL Listed for Wet Location. RoHS Compliant. California Title 24 (JA8-2016-E).

Dimensions



© ELCO Lighting 2026. All rights reserved • Rev. 06 Mar 2025 • ELCO Lighting reserves the right to make specification and design changes without notice.

Product Number Builder Example: **E610C0827W2**

ELCO 6" Reflector	Lumens	Color Temp.	Finish	Generation	Beam Angle
E610C					
	08 850 lm	**27** 2700K	**W** All White	**2** Gen 2	60º lens
	12 1250 lm	**30** 3000K	**BZ** All Bronze	**1** Gen 1	**-F** 38º lens
	16 1600 lm	**35** 3500K	**B** Black with White Trim		**-N** 24º lens
	20 2000 lm	**40** 4000K	**C** Chrome with White Trim		**-S** 15º lens
		50 5000K	**H** Haze with White Trim		
		SD Sunset [1]	**G** Gold with White Trim		

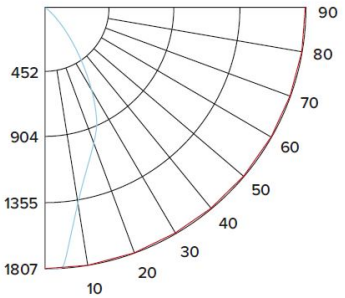
[1] Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

LED Light Engine

Multiplier: 2700K (x 0.96), 3000K (x 1.04), 3500K (x 1.08), 4000K (x 1.12)

PHOTOMETRIC REPORT

Product #: E610C1230
Wattage/Lumens: 12.7W/ 1134 Lm
Luminaire LPW: 89 Lm/W



CANDLE POWER SUMMARY

Degrees Vertical	0°
0	1807
5	1701
15	1159
25	911
35	339
45	25
55	1
65	1
75	0
85	0
90	0

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Footcandles Beam Center	Beam Diameter
4'	113	3.8'
6'	50.2	5.6'
8'	28.2	7.5'
10'	18.1	9.4'

ZONAL LUMEN SUMMARY

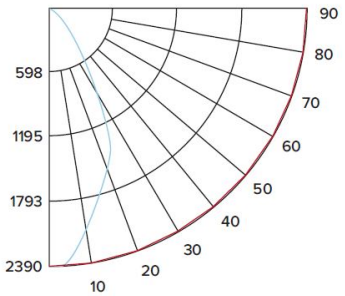
Zone	Lumens	% Luminaire
0-30°	885.02	78.00
0-40°	1104.89	97.40
0-60°	1133.43	99.90
0-90°	1134.36	100.00

LED Light Engine

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

PHOTOMETRIC REPORT

Product #: E610C2027
Wattage/Lumens: 21.6W/ 1900 Lm
Luminaire LPW: 88 Lm/W



CANDLE POWER SUMMARY

Degrees Vertical	0°
0	2390
5	2338
15	1894
25	1519
35	648
45	59
55	2
65	1
75	0
85	0
90	0

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Footcandles Beam Center	Beam Diameter
4'	149	4.5'
6'	66.4	6.8'
8'	37.3	9.1'
10'	23.9	11.3'

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30°	1424.84	75.00
0-40°	1832.83	96.50
0-60°	1898.59	99.90
0-90°	1900.02	100.00

© ELCO Lighting 2026. All rights reserved • Rev. 06 Mar 2025 • ELCO Lighting reserves the right to make specification and design changes without notice.

Compatible Products

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

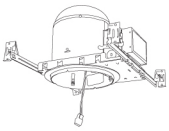
6″ Cedar™ Dedicated LED ICA Housings

2-Hour Fire Rated
6″ ICA Housing
New Construction

CAT NO.	SPECIFICATIONS
E6FH	Up to 1250lm

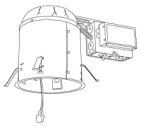
6″ ICA Housing
New Construction

CAT NO.	SPECIFICATIONS
E6LC	Up to 2000lm



6″ ICA Housing
New Construction

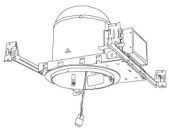
CAT NO.	SPECIFICATIONS
E6LC	Up to 1250lm



6″ ICA Housing
Remodel

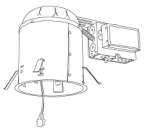
CAT NO.	SPECIFICATIONS
E6LRC	Up to 1250lm

6″ Cedar™ Dedicated LED Non-IC Housings



6″ Non-IC Housing
New Construction

CAT NO.	SPECIFICATIONS
E6LC	Up to 2000lm



6″ Non-IC Housing
Remodel

CAT NO.	SPECIFICATIONS
E6LRC	Up to 2000lm

PRODUCT NUMBER BUILDER

Housing Type	Lumen	ICA Airtight	Dimming	Optional
E6FH Fire Rated	**08** 850 lm	**(Blank)** Non-IC	**(Blank)** 120V Triac/ELV	**EM1** Emergency Backup up to 700 lm output
E6LC New Construction	**12** 1250 lm	**ICA** IC Airtight	**D** 120/277V Triac/ELV/0-10V	**EM2** Emergency Backup up to 1100 lm output
E6LRC Remodel	**16** 1600 lm		**L** Lutron	
	20 2000 lm			

2042 E. Vernon Ave., Vernon, CA 90058 • Tel (323) 231-2600 Fax (323) 231-3200 • elcolighting.com
© ELCO Lighting 2026. All rights reserved • Rev. 06 Mar 2025 • ELCO Lighting reserves the right to make specification and design changes without notice.