

Project name:

Fixture type:

Date:

1" Square Recessed Oak™ Downlight

Small aperture 12V AC Downlight delivers over 600 lumens. More than a traditional 50W MR16 Halogen Lamp. Requires 12V AC Transformer (daisy chain up to 6). Dimmable ELV, MLV or 0-10V depending on transformer used.



Features

- Requires 12V AC transformer. Dimmable ELV, MLV or 0-10V depending on transformer used.
- IC Airtight for use with direct contact to insulation
- Height allows for use in ceilings with under 3" depth. Ceiling thickness can be reduced from fixture depth.
- Daisy chain up to 6 fixtures with E1LDRV60
 38° Standard beam with optional 28° and 50°
- Remodel requires no frame. New construction E1LF1 frame available.
- Wet Location Rated for Indoor and Outdoor Use
- Meets JA8-2016-E requirements, UL Listed
- Life Span 50,000 Hours L70

Technical Details

Optics: PC Lens for even lumen distribution. Standard 38° lens. Optional 28° (EP713C) and 50° (EP715C) available.

Construction: Diecast construction for lasting quality and greater heat dissipation. High quality powder coat finish prevents rust and paint cracking.

Installation: Requires 12V AC transformer. Can be installed on E1LF1 new construction frame. Remodel requires no frame. Hole cutout size: 2" (50 mm). Height allows for use in ceilings with under 3" depth. Ceiling thickness can be reduced from fixture depth.

LED Technology: Extremely accurate color rendering with 93+ CRI. Efficacy of up to 110 lumens per watt. Lumen Maintenance of 50,000 hours L70 based on LM80. Superior Thermal Management by utilizing diecast aluminum body as heat sink.

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 2700K 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.

Electrical: Requires 12V AC transformer. Can be daisy chained up to 6 fixtures with E1LDRV60 or can be wired 1 fixture per transformer.

Delivered Lumens:

E1L12F27 600 lm/2700K E1L12F30 625 lm/3000K E1L12F35 650 lm/3500K E1L12F40 675 lm/4000K E1L12FSD 450 lm/Sunset

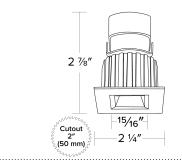
Dimming: Dims with MLV dimmers when powered by dimmable magnetic 12V AC transformer. Works with ELV dimmers when powered by dimmable electronic 12V AC transformer. Dims with 0-10V systems with 0-10V dimmable 12V AC transformer. Check transformer and dimmer compatibility before installation .

Specifications

Wattage	6.1W
Lumens	675 lm
Voltage	12V AC
Color Temp.	4000K
Dimmable	Yes
Lamp Type	LED
Beam Angle	38°



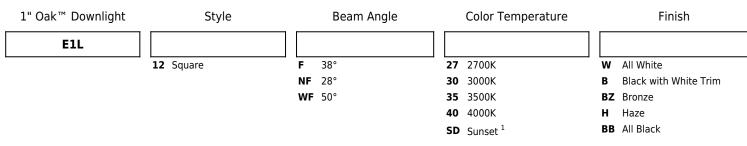
Dimensions



Listings: cUL Listed. UL Listed for WET Location. UL Listed for direct contact with inuslation. Airtight per ASTM	
E-283. Meets California Title 24 (JA8-2016-E) standards.	

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

Product Number Builder Example: E1L12F27B



¹ Sunset, Dim to Warm technology, automatically transitions from 2700K to 1800K when dimmed

Distance from Transformer to 1st Fixture	#12 Gauge Number of Fixtures				#14 Gauge Number of Fixtures				#18 Gauge Number of Fixtures									
Istricture	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
1'	12.0	11.9	11.6	11.5	11.1	10.8	12.0	11.9	11.6	11.5	10.9	10.7	11.9	11.8	11.3	11.1	9.9	9.6
2'	11.9	11.9	11.6	11.4	10.8	10.7	11.9	11.8	11.5	11.3	10.7	10.5	11.9	11.6	11.1	10.9	9.7	9.1
4'	11.9	11.8	11.5	11.3	10.6	10.4	11.9	11.8	11.4	11.2	10.2	10.2	11.8	11.5	11.0	10.8	9.5	8.7
6'	11.9	11.8	11.4	11.3	10.5	10.3	11.9	11.7	11.3	11.2	10.3	10.0	11.7	11.3	10.8	10.5	9.3	8.2
8'	11.8	11.7	11.3	11.1	10.3	9.9	11.7	11.6	11.5	10.9	9.8	9.5	11.5	11.2	<u>10.4</u>	9.8	8.6	7.4
10'	11.7	11.6	11.2	10.9	10.1	9.4	11.7	11.6	11.1	10.9	9.7	9.2	11.4	11.0	10.4	9.3	8.1	6.9
16'	11.7	11.7	11.3	10.7	9.9	8.9	11.5	11.4	10.9	<u>10.2</u>	9.0	8.2	11.3	10.9	10.1	8.8	7.6	6.6
20'	11.4	11.3	10.9	10.1	9.2	8.2	11.5	11.3	10.8	9.9	8.6	7.6	10.8	10.0	8.5	7.1	5.9	4.4

Notes:

1. Max 6 fixtures.

2. For this analysis, 3' of wire was used between fixtures.

3. There will be an additional drop of ~1V if a dimmer is used.

4. Recommended maximum voltage drop is to 10.5V.

Compatible Products



For use with 1" Oak™ Light Engines

1" Oak™ New Construction IC Frames



IC Rated Frame* New Construction



IC Rated Multiple Frame* New Construction

CAT NO.	SPECIFICATIONS	CAT NO.	SPECIFICATIONS
E1LF1	2" Cutout for E1L02, E1L12, E111F	E1LF1-M2	2 Set for E1L02, E1L12, E111F
		E1LF1-M3	3 Set for E1L02, E1L12, E111F
		E1LF1-M4	4 Set for E1L02, E1L12, E111F
		E1LF1-M5	5 Set for E1L02, E1L12, E111F

*Requires 12V AC transformer (not included)

1" Oak[™]New Construction IC Rated

Specialty R-60 1" IC Housing - Includes transformer New Construction

CAT NO.SPECIFICATIONSE1LF1ICAJ2" Cutout for E1L02, E1L12, E111F

PRODUCT NUMBER BUILDER

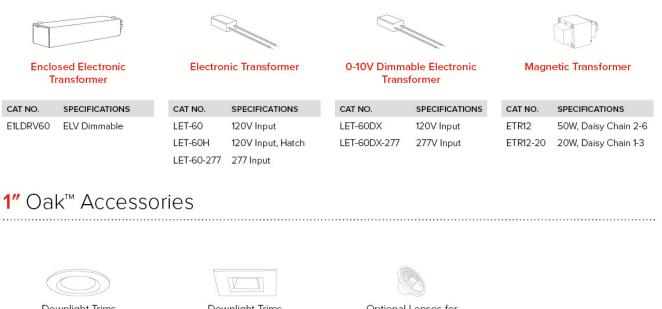
1″ Oak [™] IC Rated Housing			Dimming
E1LF1ICAJ	R60 IC New Construction Housing	(blank)	120V Input, ELV Dimmable
		-7	277V Input, Non-Dimmable
		DX	120V Input, 0-10V Dimmable
		DX-7	277V Input, 0-10V Dimmable

Compatible Products

For use with 1" Oak™ Light Engines



1″ Oak™ 12V AC Transformers



Downlight Trims For E1L02 & E1L12

Downlight Trims
For E1L02 & E1L12

Optional Lenses for E1L02, E1L12, & E1L32

CAT NO.	SPECIFICATIONS	CAT NO.
RM1W	All White	RM11W
RM1B	Black w/ White Ring	RM11B
RM1BZ	All Bronze	RM11BZ
RM1H	Haze w/ White Ring	RM11H
RM1BB	All Black	RM11BB

SPECIFICATIONS
All White
Black w/ White Ring
All Bronze
Haze w/ White Ring
All Black

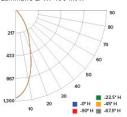
CAT NO.	SPECIFICATIONS
EP713C	28°
EP715C	50°

Photometric Report

Oak[™] LED Light Engine

PHOTOMETRIC REPORT

Product #: E1L12F30 Wattage / Lumens: 6W / 600 lm Luminaire LPW: 100 lm/W



CANDLE POWER SUMMARY

ILLUMINANCE AT A DISTANCE

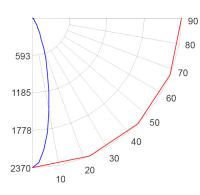
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	79.3	2.7′
6'	35.3	4.0'
8'	19.8	5.3'
10′	12.7	6.7'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	504.7	79.8
0-40°	570.7	90.3
0-60°	615.6	97.3
0-90°	632.4	100

PHOTOMETRIC REPORT

Product #: E1L12NF30 Wattage/Lumens: 6.3W/ 639 lm Luminaire LPW: 101 Lm/W



CANDLE POWER	CANDLE POWER SUMMARY					
Degrees Vertical	0°					
0	2370					
5	2099					
15	926					
25	257					
35	62					
45	17					
55	9					
65	5					
75	3					
85	0					
90	0					

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Footcandles Beam Center	Beam Diameter	
4'	148	1.8'	
6'	65.8	2.7'	
8'	37.0	3.6'	
10'	23.7	4.5'	

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire	
0-30°	563.92	88.30	
0-40°	606.28	94.90	
0-60°	630.29	98.70	
0-90°	638.89	100.00	



Dimmer Compatibility Chart Oak™ System

With Electronic Low Voltage Transformers

For Reference Only

Testing conducted by ELCO Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer specifications for more detailed information on product certifications and standards. Consult the dimmer manufacturer prior to installation to ensure compatibility.

Manufacturer	Product	Part Number	Dimmed Light Output Range				
ELV Dimming	ELV Dimming						
Lutron	Diva® 300W Single-Pole Electronic Low Voltage Dimmer	DVELV-300P	10% - 100%				
	Diva® 300W 3-Way Electronic Low Voltage Dimmer	DVELV-303P	10% - 100%				
	Skylark® 300W Single-Pole Electronic Low Voltage Dimmer	SELV-300P	10% - 100%				
	Skylark® 300W 3-Way Electronic Low Voltage Dimmer	SELV-303P	10% - 100%				
	Maestro® 600W Single-Pole/Multi-Location Electronic Low Voltage Dimmer	MAELV-600	10% - 100%				
Leviton	SureSlide® 300W 3-Way Electronic Low Voltage Dimmer	6615-P0	10% - 100%				
	Decora® 450W Single-Pole/3-Way Electronic Low Voltage Dimmer	DSE06-10Z	10% - 100%				
	IllumaTech® 300W Single-Pole/3-Way Electronic Low Voltage Dimmer	IPE04-1LZ	10% - 100%				
	Vizia® RF + 600W Single-Pole/3-Way/Multi-Location Electronic Low Voltage Dimmer	VRE06-1LZ	10% - 100%				
	Vizia® 600W Single-Pole/3-Way/Multi-Location Electronic Low Voltage Dimmer	VZE06-1LX	10% - 100%				
	Decora® Digital Bluetooth 600W Single-Pole/3-Way/Multi-Location Electronic Low Voltage Dimmer	DDE06-BLZ	10% - 100%				

*NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details

Disclaimer: Minimum and maximum loads for LEDs and CFLs are given in number of lamps and may vary depending on the lamp being used. Testing conducted by ELCO Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer specifications for more detailed information on product certifications and standards.

Integrating our lighting with your Smart Home System is a breeze. Simply check your Smart Home system for compatible smart switches and cross refrence that with our Dimming Compatibility Chart. Once the switches are integrated with your Smart Home system your lights will be ready to go.

🔿 amazon alexa	• Google Assistant	🧼 Apple HomeKit	ΙΝSΤΕΌΝ		wemo
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