ELCO Lighting

Project name:

Fixture type:

Date:

1" Trimless Round 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

- 1" Trimless Round Recessed Oak™ Downlight: 1″ Trimless Light Engine
- 1" Trimless Spackle Frame, **EL01SFR**, ordered separately (required)
- 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 requires E2LF2 Frame.
- Wet Location Rated for Indoor and Outdoor use
- JA8-2016-E & UL listed
- Life Span 50,000 Hours L70

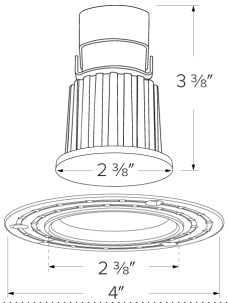
Specifications

Wattage	6.1W
Lumens	650 lm
Voltage	12V AC
Color Temp.	3500K
Dimmable	Yes
Lamp Type	LED
Beam Angle	38°
CRI	93+
Wet Location	UL Listed

Options

White **Black** **Bronze**

Dimensions



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 E2LF2 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.

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: **E1L61F27** 600 lm/2700K **E1L61F30** 625 lm/3000K **E1L61F35** 650 lm/3500K **E1L61F40** 675 lm/4000K

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 .

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

© ELCO Lighting 2024. All rights reserved • Rev. 03 Jan 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.

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

Product Number Builder Example: **E1L61F27W**

1" Oak™ Trimless Downlight	Style	Beam Angle	Color Temperature	Finish
E1L	**61** Round	**F** 38° **NF** 28° **WF** 50°	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **SD** Sunset [1]	**W** All White **B** All Black **BZ** All Bronze

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

Distance from Transformer to 1st Fixture	#12 Gauge						#14 Gauge						#18 Gauge					
	Number of Fixtures						Number of Fixtures						Number of Fixtures					
	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	10.4	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	10.2	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:

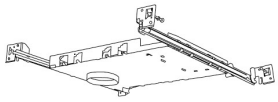
1. Max 6 fixtures.
2. For this analysis, 3' of wire was used between fixtures.
3. There will be an additional drop of ~1V if a dimmer is used.
4. Recommended maximum voltage drop is to 10.5V.

© ELCO Lighting 2024. All rights reserved • Rev. 03 Jan 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.

Compatible Products

For use with **1″ Oak™ Trimless Light Engines**

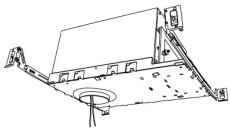
1″ New Construction IC Frame & Housings



IC Rated Frame*
New Construction

CAT NO.	SPECIFICATIONS
E2LF2	2 11/16″ Cutout

*Requires 12V AC transformer (not included)



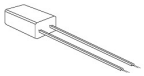
IC Airtight R60 Insulation
New Construction Housings

CAT NO.	SPECIFICATIONS
E1LF3TLICAJ	2 ½″ Cutout, 120V, ELV
E1LF3TLICAJ-7	2 ½″ Cutout, 277V
E1LF3TLICAJDX	2 ½″ Cutout, 120V, 0-10V
E1LF3TLICAJDX-7	2 ½″ Cutout, 277V

1″ Oak™ 12V AC Transformers

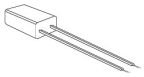
Enclosed Electronic Transformer

CAT NO.	SPECIFICATIONS
E1LDRV60	ELV Dimmable



Electronic Transformer

CAT NO.	SPECIFICATIONS
LET-60	120V Input



0-10V Dimmable Electronic Transformer

CAT NO.	SPECIFICATIONS
LET-60DX	120V Input
LET-60DX-277	277V Input

Magnetic Transformer

CAT NO.	SPECIFICATIONS
ETR12	50W, Daisy Chain 2-6
ETR12-20	20W, Daisy Chain 1-3

1″ Oak™ Accessories

Trimless Spackle Frame

CAT NO.	SPECIFICATIONS
EL01SFR	For E1L61F Series

Replacement Ring

CAT NO.	SPECIFICATIONS
RM1LTW	White Reflector
RM1LTB	Black Reflector

Optional Lenses

CAT NO.	SPECIFICATIONS
EP713C	28°
EP715C	50°

© ELCO Lighting 2024. All rights reserved • Rev. 03 Jan 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.

ELCO Lighting

Dimmer Compatibility Chart
The 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			
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.

2042 E. Vernon Ave. Vernon CA 90058 Tel 323.231.2600 Fax 323.231.3200 elcolighting.com

© ELCO Lighting 2024. All rights reserved • Rev. 03 Jan 2024 • ELCO Lighting reserves the right to make specification and design changes without notice.