

# 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

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

## Options



White



Black



Bronze

## 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.

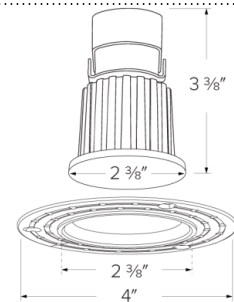
**LED Technology:** Extremely accurate color rendering with 93+ CRI. Efficacy of up to 110 lumens per watt. Lumen Maintenance of 50,000 hours L70 based on LM80. Superior Thermal Management by utilizing diecast aluminum body as heat sink.

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

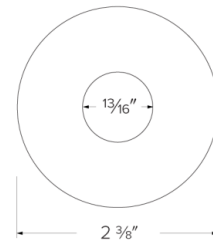
**Delivered Lumens:** **E1L61F27** 600 lm/2700K **E1L61F30** 625 lm/3000K **E1L61F35** 650 lm/3500K **E1L61F40** 675 lm/4000K

**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).



Light Engine Front View



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

Product Number Builder    Example: **E1L61F27W**

1" Oak™ Trimless Downlight

E1L

Style

61 Round

Beam Angle

F 38°  
NF 28°  
WF 50°

Color Temperature

27 2700K  
30 3000K  
35 3500K  
40 4000K  
SD Sunset<sup>1</sup>

Finish

W All White  
BB All Black  
BZ All Bronze

<sup>1</sup> Sunset, Dim to Warm technology, automatically transitions from 2700K 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.

# Compatible Products

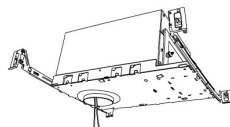


For use with 1" Oak™ Trimless Light Engines

## 1" New Construction IC Frame & Housings



IC Rated Frame\*  
New Construction



IC Airtight R60 Insulation  
New Construction Housings

| CAT NO. | SPECIFICATIONS  |
|---------|-----------------|
| E2LF2   | 2 11/16" Cutout |

\*Requires 12V AC transformer (not included)

| CAT NO.         | SPECIFICATIONS             |
|-----------------|----------------------------|
| E1LF3TLICAJ     | 2 1/2" Cutout, 120V, ELV   |
| E1LF3TLICAJ-7   | 2 1/2" Cutout, 277V        |
| E1LF3TLICAJDX   | 2 1/2" Cutout, 120V, 0-10V |
| E1LF3TLICAJDX-7 | 2 1/2" Cutout, 277V        |

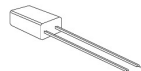
## 1" Oak™ 12V AC Transformers



Enclosed Electronic  
Transformer



Electronic Transformer



0-10V Dimmable Electronic  
Transformer



Magnetic Transformer

| CAT NO.  | SPECIFICATIONS |
|----------|----------------|
| E1LDRV60 | ELV Dimmable   |

| CAT NO. | SPECIFICATIONS |
|---------|----------------|
| LET-60  | 120V Input     |

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

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

## 1" Oak™ Accessories



Trimless Spackle Frame



Replacement Ring



Optional Lenses

| CAT NO. | SPECIFICATIONS    |
|---------|-------------------|
| EL01SFR | For E1L61F Series |

| CAT NO. | SPECIFICATIONS  |
|---------|-----------------|
| RMILTW  | White Reflector |
| RMILTB  | Black Reflector |

| CAT NO. | SPECIFICATIONS |
|---------|----------------|
| EP713C  | 28°            |
| EP715C  | 50°            |



**ELCO Lighting**

# 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 |
|--------------------|-----------------------------------------------------------------------------------------------|-------------|---------------------------|
| <b>ELV Dimming</b> |                                                                                               |             |                           |
| 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 reference that with our Dimming Compatibility Chart. Once the switches are integrated with your Smart Home system your lights will be ready to go.



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